



Pace Analytical Services

Laboratory Code: 11148

SDG Number: L2537655

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Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2537655
Report Date: 07/02/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2537655-01	MW-11S	WATER	416 MILLER PLACE-YAPHANK RD.	06/16/25 12:05	06/16/25
L2537655-02	MW-11D	WATER	416 MILLER PLACE-YAPHANK RD.	06/16/25 12:08	06/16/25
L2537655-03	EQUIPMENT BLANK	EQUIPMENT BLANK	416 MILLER PLACE-YAPHANK RD.	06/16/25 12:30	06/16/25
L2537655-04	MW-1DRZ	WATER	416 MILLER PLACE-YAPHANK RD.	06/16/25 13:45	06/16/25
L2537655-05	MW-1SR	WATER	416 MILLER PLACE-YAPHANK RD.	06/16/25 13:50	06/16/25
L2537655-06	TRIP BLANK	WATER	416 MILLER PLACE-YAPHANK RD.	06/16/25 00:00	06/16/25

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2537655
Report Date: 07/02/25

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.

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2537655
Report Date: 07/02/25

Case Narrative (continued)

Report Submission

July 02, 2025: This final report includes the results of all requested analyses.

June 30, 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 Sulfide, Iodide, and Ammonium 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.

Total Metals

The WG2082423-1 Method Blank associated with L2537655-01 through -05 has concentrations above the reporting limits for calcium and iron. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for these target analytes, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

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: *Siffani Morrissey*

Report Date: 07/02/25

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



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2537655
Report Date: 07/02/25

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



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2537655
Report Date: 07/02/25

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 : L2537655

Received : 16-JUN-2025

Reviewer : Craig Sloma-Green

Account Name : Roux Env. Eng. & Geology, DPC

Project Number : 2232.0006Y

Project Name : CORAM MATERIALS|USC ATLANTIC

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.1	
B	Absent/	Ice	4.2	
C	Absent/	Ice	3.9	

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
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PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Jul 10 2025, 07:27 pm

Login Number: L2537655

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005

Received: 16JUN25

Due Date: 02JUL25

Sample # Client ID Mat PR Collected

L2537655-01 MW-11S

1 S0 16JUN25 12:05

NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8260: Non-Routine: ;
Freon-113; Cyclohexane; Methyl Acetate; Methyl cyclohexane NYTCL-8270-RVT: Non-Routine: ; 1, 2, 4, 5-
Tetrachlorobenzene; Atrazine; Benzaldehyde; Caprolactam 882124713994 30.42 882096204444 \$36.38 USD
Galbraith, TN 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 8260/8270 RL built ASP-B Package Due Date:
07/02/25

ALK-C03-2320, ALK-HC03-2320, ASP-B, BR-300, CL-4500, F-4500, N02-4500N03, N03-4500, NYTCL-8260, NYTCL-
8270/SIM-RVT, NYTCL-8270-RVT, NYTCL-8270-SIM-RVT, SHIPPING, S04-4500, 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, TOTALNITROGEN, N03/N02-4500, TKN-4500, TNITROGEN, TP04-4500

L2537655-02 MW-11D

1 S0 16JUN25 12:08

NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8260: Non-Routine: ;
Freon-113; Cyclohexane; Methyl Acetate; Methyl cyclohexane NYTCL-8270-RVT: Non-Routine: ; 1, 2, 4, 5-
Tetrachlorobenzene; Atrazine; Benzaldehyde; Caprolactam 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
8260/8270 RL built Package Due Date: 07/02/25

ALK-C03-2320, ALK-HC03-2320, BR-300, CL-4500, F-4500, N02-4500N03, N03-4500, NYTCL-8260, NYTCL-8270/SIM-RVT,
NYTCL-8270-RVT, NYTCL-8270-SIM-RVT, S04-4500, SUB-AMMONIUM, SUB-IODIDE, 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,
TOTALNITROGEN, N03/N02-4500, TKN-4500, TNITROGEN, TP04-4500

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Jul 10 2025, 07:27 pm

Login Number: L2537655

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005

Received: 16JUN25 Due Date: 02JUL25

Sample # Client ID Mat PR Collected

L2537655-03 EQUIPMENT BLANK

1 S0 16JUN25 12:30

NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8260: Non-Routine: ;
Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT: Non-Routine: ;1,2,4,5-
Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam 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 OC, ex: Trip Blank, Field Blank, etc Only one result per compound
8260/8270 RL built Package Due Date: 07/02/25

ALK-C03-2320, ALK-HC03-2320, BR-300, CL-4500, F-4500, NO2-4500NO3, NO3-4500, NYTCL-8260, NYTCL-8270/SIM-RVT,
NYTCL-8270-RVT, NYTCL-8270-SIM-RVT, S04-4500, SUB-AMMONIUM, SUB-IODIDE, 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,
TOTALNITROGEN, NO3/NO2-4500, TKN-4500, TNITROGEN, TP04-4500

L2537655-04 MW-1DRZ

1 S0 16JUN25 13:45

NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8260: Non-Routine: ;
Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT: Non-Routine: ;1,2,4,5-
Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam 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 OC, ex: Trip Blank, Field Blank, etc Only one result per compound
8260/8270 RL built Package Due Date: 07/02/25

ALK-C03-2320, ALK-HC03-2320, BR-300, CL-4500, F-4500, NO2-4500NO3, NO3-4500, NYTCL-8260, NYTCL-8270/SIM-RVT,
NYTCL-8270-RVT, NYTCL-8270-SIM-RVT, S04-4500, SUB-AMMONIUM, SUB-IODIDE, 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,
TOTALNITROGEN, NO3/NO2-4500, TKN-4500, TNITROGEN, TP04-4500

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Jul 10 2025, 07:27 pm

Login Number: L2537655

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005

Received: 16JUN25 Due Date: 02JUL25

Sample # Client ID Mat PR Collected

L2537655-05 MW-1SR

1 S0 16JUN25 13:50

NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8260: Non-Routine: ;
Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT: Non-Routine: ;1,2,4,5-
Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam 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 OC, ex: Trip Blank, Field Blank, etc Only one result per compound
8260/8270 RL built Package Due Date: 07/02/25

ALK-C03-2320, ALK-HC03-2320, BR-300, CL-4500, F-4500, NO2-4500NO3, NO3-4500, NYTCL-8260, NYTCL-8270/SIM-RVT,
NYTCL-8270-RVT, NYTCL-8270-SIM-RVT, S04-4500, SUB-AMMONIUM, SUB-IODIDE, 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,
TOTALNITROGEN, NO3/NO2-4500, TKN-4500, TNITROGEN, TP04-4500

L2537655-06 TRIP BLANK

1 S0 16JUN25 00:00

NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8260: Non-Routine: ;
Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT: Non-Routine: ;1,2,4,5-
Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam 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 OC, ex: Trip Blank, Field Blank, etc Only one result per compound
8260/8270 RL built Package Due Date: 07/02/25

NYTCL-8260

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: L2537655
Project Number: 2232.0006Y005
Matrix:

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-11S (L2537655-01)	109	90	87	128	0
MW-11D (L2537655-02)	113	90	87	128	0
EQUIPMENT BLANK (L2537655-03)	111	91	88	124	0
MW-1DRZ (L2537655-04)	112	91	88	124	0
MW-1SR (L2537655-05)	111	92	88	121	0
TRIP BLANK (L2537655-06)	118	104	111	109	0
WG2083406-3LCS	107	95	87	106	0
WG2083406-4LCSD	103	95	86	109	0
WG2083406-5BLANK	107	91	90	118	0
WG2083759-3LCS	100	102	101	99	0
WG2083759-4LCSD	105	106	99	100	0
WG2083759-5BLANK	107	106	113	103	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 : L2537655
 Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG2083406-3 Analysis Date : 06/24/25 07:34 File ID : V05250624A01
 LCSD Sample ID : WG2083406-4 Analysis Date : 06/24/25 07:59 File ID : V05250624A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Methylene chloride	10	9.3	93	10	9.4	94	1	70-130	20
1,1-Dichloroethane	10	9.3	93	10	9.4	94	1	70-130	20
Chloroform	10	9.8	98	10	9.8	98	0	70-130	20
Carbon tetrachloride	10	10	100	10	10	100	0	63-132	20
1,2-Dichloropropane	10	9.2	92	10	9.1	91	1	70-130	20
Dibromochloromethane	10	9.5	95	10	8.8	88	8	63-130	20
1,1,2-Trichloroethane	10	9.4	94	10	8.7	87	8	70-130	20
Tetrachloroethene	10	10	100	10	10	100	0	70-130	20
Chlorobenzene	10	9.4	94	10	9.4	94	0	75-130	20
Trichlorofluoromethane	10	12	120	10	12	120	0	62-150	20
1,2-Dichloroethane	10	9.9	99	10	9.6	96	3	70-130	20
1,1,1-Trichloroethane	10	10	100	10	10	100	0	67-130	20
Bromodichloromethane	10	9.5	95	10	9.3	93	2	67-130	20
trans-1,3-Dichloropropene	10	8.2	82	10	7.6	76	8	70-130	20
cis-1,3-Dichloropropene	10	8.7	87	10	8.3	83	5	70-130	20
Bromoform	10	8.4	84	10	7.6	76	10	54-136	20
1,1,2,2-Tetrachloroethane	10	8.3	83	10	7.6	76	9	67-130	20
Benzene	10	9.7	97	10	9.7	97	0	70-130	20
Toluene	10	8.9	89	10	8.9	89	0	70-130	20
Ethylbenzene	10	9.0	90	10	9.1	91	1	70-130	20
Chloromethane	10	8.4	84	10	8.8	88	5	64-130	20
Bromomethane	10	9.7	97	10	10	100	3	39-139	20
Vinyl chloride	10	8.5	85	10	9.1	91	7	55-140	20
Chloroethane	10	11	110	10	11	110	0	55-138	20
1,1-Dichloroethene	10	9.5	95	10	9.7	97	2	61-145	20
trans-1,2-Dichloroethene	10	9.4	94	10	9.8	98	4	70-130	20



Laboratory Control Sample Summary

Form 3

Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2537655
 Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG2083406-3 Analysis Date : 06/24/25 07:34 File ID : V05250624A01
 LCSD Sample ID : WG2083406-4 Analysis Date : 06/24/25 07:59 File ID : V05250624A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Trichloroethene	10	9.5	95	10	9.6	96	1	70-130	20
1,2-Dichlorobenzene	10	9.5	95	10	9.4	94	1	70-130	20
1,3-Dichlorobenzene	10	9.6	96	10	9.6	96	0	70-130	20
1,4-Dichlorobenzene	10	9.5	95	10	9.5	95	0	70-130	20
Methyl tert butyl ether	10	8.1	81	10	7.5	75	8	63-130	20
p/m-Xylene	20	19	95	20	19	95	0	70-130	20
o-Xylene	20	18	90	20	18	90	0	70-130	20
cis-1,2-Dichloroethene	10	9.5	95	10	9.8	98	3	70-130	20
Styrene	20	19	95	20	19	95	0	70-130	20
Dichlorodifluoromethane	10	9.0	90	10	9.3	93	3	36-147	20
Acetone	10	8.9	89	10	7.7	77	14	58-148	20
Carbon disulfide	10	13	130	10	14	140 Q	7	51-130	20
2-Butanone	10	9.4	94	10	7.7	77	20	63-138	20
4-Methyl-2-pentanone	10	7.4	74	10	6.7	67	10	59-130	20
2-Hexanone	10	7.4	74	10	6.9	69	7	57-130	20
Bromochloromethane	10	11	110	10	11	110	0	70-130	20
1,2-Dibromoethane	10	9.5	95	10	8.8	88	8	70-130	20
1,2-Dibromo-3-chloropropane	10	8.3	83	10	7.4	74	11	41-144	20
Isopropylbenzene	10	8.1	81	10	8.2	82	1	70-130	20
1,2,3-Trichlorobenzene	10	9.7	97	10	9.3	93	4	70-130	20
1,2,4-Trichlorobenzene	10	9.4	94	10	9.4	94	0	70-130	20
Methyl Acetate	10	11	110	10	9.8	98	12	70-130	20
Cyclohexane	10	9.1	91	10	9.2	92	1	70-130	20
Freon-113	10	11	110	10	11	110	0	70-130	20
Methyl cyclohexane	10	9.9	99	10	9.6	96	3	70-130	20



Laboratory Control Sample Summary

Form 3

Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2537655
 Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG2083759-3 Analysis Date : 06/24/25 07:36 File ID : V08250624A01
 LCSD Sample ID : WG2083759-4 Analysis Date : 06/24/25 07:59 File ID : V08250624A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Methylene chloride	10	8.8	88	10	9.0	90	2	70-130	20
1,1-Dichloroethane	10	9.9	99	10	10	100	1	70-130	20
Chloroform	10	9.0	90	10	9.6	96	6	70-130	20
Carbon tetrachloride	10	9.8	98	10	10	100	2	63-132	20
1,2-Dichloropropane	10	10	100	10	9.9	99	1	70-130	20
Dibromochloromethane	10	9.6	96	10	11	110	14	63-130	20
1,1,2-Trichloroethane	10	9.7	97	10	11	110	13	70-130	20
Tetrachloroethene	10	9.1	91	10	9.6	96	5	70-130	20
Chlorobenzene	10	9.2	92	10	9.8	98	6	75-130	20
Trichlorofluoromethane	10	11	110	10	12	120	9	62-150	20
1,2-Dichloroethane	10	9.7	97	10	10	100	3	70-130	20
1,1,1-Trichloroethane	10	10	100	10	10	100	0	67-130	20
Bromodichloromethane	10	9.8	98	10	10	100	2	67-130	20
trans-1,3-Dichloropropene	10	10	100	10	11	110	10	70-130	20
cis-1,3-Dichloropropene	10	10	100	10	10	100	0	70-130	20
Bromoform	10	8.3	83	10	9.1	91	9	54-136	20
1,1,2,2-Tetrachloroethane	10	10	100	10	11	110	10	67-130	20
Benzene	10	9.8	98	10	10	100	2	70-130	20
Toluene	10	9.3	93	10	9.8	98	5	70-130	20
Ethylbenzene	10	9.2	92	10	9.9	99	7	70-130	20
Chloromethane	10	9.0	90	10	8.6	86	5	64-130	20
Bromomethane	10	6.1	61	10	6.4	64	5	39-139	20
Vinyl chloride	10	10	100	10	10	100	0	55-140	20
Chloroethane	10	12	120	10	12	120	0	55-138	20
1,1-Dichloroethene	10	11	110	10	12	120	9	61-145	20
trans-1,2-Dichloroethene	10	9.6	96	10	9.8	98	2	70-130	20



Laboratory Control Sample Summary

Form 3

Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2537655
 Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG2083759-3 Analysis Date : 06/24/25 07:36 File ID : V08250624A01
 LCSD Sample ID : WG2083759-4 Analysis Date : 06/24/25 07:59 File ID : V08250624A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Trichloroethene	10	9.3	93	10	9.4	94	1	70-130	20
1,2-Dichlorobenzene	10	8.9	89	10	9.6	96	8	70-130	20
1,3-Dichlorobenzene	10	8.4	84	10	9.4	94	11	70-130	20
1,4-Dichlorobenzene	10	8.7	87	10	9.5	95	9	70-130	20
Methyl tert butyl ether	10	9.8	98	10	10	100	2	63-130	20
p/m-Xylene	20	17	85	20	18	90	6	70-130	20
o-Xylene	20	17	85	20	18	90	6	70-130	20
cis-1,2-Dichloroethene	10	9.4	94	10	9.8	98	4	70-130	20
Styrene	20	15	75	20	16	80	6	70-130	20
Dichlorodifluoromethane	10	10	100	10	9.7	97	3	36-147	20
Acetone	10	11	110	10	10	100	10	58-148	20
Carbon disulfide	10	13	130	10	13	130	0	51-130	20
2-Butanone	10	10	100	10	11	110	10	63-138	20
4-Methyl-2-pentanone	10	10	100	10	11	110	10	59-130	20
2-Hexanone	10	9.5	95	10	10	100	5	57-130	20
Bromochloromethane	10	9.0	90	10	9.9	99	10	70-130	20
1,2-Dibromoethane	10	11	110	10	11	110	0	70-130	20
1,2-Dibromo-3-chloropropane	10	10	100	10	11	110	10	41-144	20
Isopropylbenzene	10	8.7	87	10	9.6	96	10	70-130	20
1,2,3-Trichlorobenzene	10	8.2	82	10	9.8	98	18	70-130	20
1,2,4-Trichlorobenzene	10	8.3	83	10	9.3	93	11	70-130	20
Methyl Acetate	10	11	110	10	12	120	9	70-130	20
Cyclohexane	10	10	100	10	10	100	0	70-130	20
Freon-113	10	13	130	10	14	140 Q	7	70-130	20
Methyl cyclohexane	10	9.5	95	10	9.5	95	0	70-130	20



**Method Blank Summary
Form 4
Volatiles**

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab Sample ID	: WG2083759-5	Lab File ID	: V08250624A05
Instrument ID	: VOA108		
Matrix	: WATER	Analysis Date	: 06/24/25 09:06

Client Sample No.	Lab Sample ID	Analysis Date
WG2083759-3LCS	WG2083759-3	06/24/25 07:36
WG2083759-4LCSD	WG2083759-4	06/24/25 07:59
TRIP BLANK	L2537655-06	06/24/25 12:53

**Method Blank Summary
Form 4
Volatiles**

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab Sample ID	: WG2083406-5	Lab File ID	: V05250624A05
Instrument ID	: VOA105		
Matrix	: WATER	Analysis Date	: 06/24/25 09:16

Client Sample No.	Lab Sample ID	Analysis Date
WG2083406-3LCS	WG2083406-3	06/24/25 07:34
WG2083406-4LCSD	WG2083406-4	06/24/25 07:59
MW-11S	L2537655-01	06/24/25 15:39
MW-11D	L2537655-02	06/24/25 16:04
EQUIPMENT BLANK	L2537655-03	06/24/25 16:30
MW-1DRZ	L2537655-04	06/24/25 16:55
MW-1SR	L2537655-05	06/24/25 17:21

Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : VOA105	Analysis Date : 06/06/25 14:16
Tune Standard : WG2076082-1	Tune File ID : V05250606ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.9
75	30.0 - 80.0% of mass 95	48.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.6 (.7)1
174	Greater than 50.0% of mass 95	80.2
175	5.0 - 9.0% of mass 174	6 (7.5)1
176	Greater than 95.0% but less than 101% of mass	78.4 (97.8)1
177	5.0 - 9.0% of mass 176	5.2 (6.7)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	R1974282-2	V05250606A03	06/06/25 15:21
STD0.5PPB	R1974282-1	V05250606A04	06/06/25 15:47
STD2.0PPB	R1974282-4	V05250606A06	06/06/25 16:38
STD10PPB	R1974282-3	V05250606A08	06/06/25 17:29
STD30PPB	R1974282-5	V05250606A09	06/06/25 17:55
STD120PPB	R1974282-6	V05250606A11	06/06/25 18:46
STD200PPB	R1974282-7	V05250606A12	06/06/25 19:12
Correlation Data Summary	R1974282-8	V05250606A17	06/06/25 21:19
ICV Quant Report	R1974282-8	V05250606A17	06/06/25 21:19



Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : VOA105	Analysis Date : 06/24/25 07:20
Tune Standard : WG2083406-1	Tune File ID : V05250624ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	23
75	30.0 - 80.0% of mass 95	48.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.8 (1)1
174	Greater than 50.0% of mass 95	86.9
175	5.0 - 9.0% of mass 174	6.3 (7.3)1
176	Greater than 95.0% but less than 101% of mass	86.4 (99.4)1
177	5.0 - 9.0% of mass 176	5.5 (6.4)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
WG2083406-2CCAL	WG2083406-2	V05250624A01	06/24/25 07:34
WG2083406-3LCS	WG2083406-3	V05250624A01	06/24/25 07:34
WG2083406-4LCSD	WG2083406-4	V05250624A02	06/24/25 07:59
WG2083406-5BLANK	WG2083406-5	V05250624A05	06/24/25 09:16
MW-11S	L2537655-01	V05250624A20	06/24/25 15:39
MW-11D	L2537655-02	V05250624A21	06/24/25 16:04
EQUIPMENT BLANK	L2537655-03	V05250624A22	06/24/25 16:30
MW-1DRZ	L2537655-04	V05250624A23	06/24/25 16:55
MW-1SR	L2537655-05	V05250624A24	06/24/25 17:21



Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : VOA108	Analysis Date : 06/11/25 02:40
Tune Standard : WG2077605-1	Tune File ID : V08250611ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.4
75	30.0 - 80.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	1.4 (1.4)1
174	Greater than 50.0% of mass 95	99.7
175	5.0 - 9.0% of mass 174	8.4 (8.4)1
176	Greater than 95.0% but less than 101% of mass	95.9 (96.2)1
177	5.0 - 9.0% of mass 176	5.8 (6.1)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	R1975649-1	V08250611A04	06/11/25 04:08
STD0.5PPB	R1975649-3	V08250611A06	06/11/25 04:52
STD2PPB	R1975649-2	V08250611A08	06/11/25 05:36
STD10PPB	R1975649-4	V08250611A10	06/11/25 06:21
STD30PPB	R1975649-5	V08250611A11	06/11/25 06:43
STD80PPB	R1975649-6	V08250611A12	06/11/25 07:05
STD120PPB	R1975649-7	V08250611A13	06/11/25 07:27
STD200PPB	R1975649-9	V08250611A14	06/11/25 07:49
Correlation Data Summary	R1975649-8	V08250611A19	06/11/25 09:38
ICV Quant Report	R1975649-8	V08250611A19	06/11/25 09:38



Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : VOA108	Analysis Date : 06/24/25 07:21
Tune Standard : WG2083759-1	Tune File ID : V08250624ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	23.8
75	30.0 - 80.0% of mass 95	57.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.3 (1.5)1
174	Greater than 50.0% of mass 95	87.3
175	5.0 - 9.0% of mass 174	6.6 (7.5)1
176	Greater than 95.0% but less than 101% of mass	85.1 (97.4)1
177	5.0 - 9.0% of mass 176	5.5 (6.5)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
WG2083759-2CCAL	WG2083759-2	V08250624A01	06/24/25 07:36
WG2083759-3LCS	WG2083759-3	V08250624A01	06/24/25 07:36
WG2083759-4LCSD	WG2083759-4	V08250624A02	06/24/25 07:59
WG2083759-5BLANK	WG2083759-5	V08250624A05	06/24/25 09:06
TRIP BLANK	L2537655-06	V08250624A15	06/24/25 12:53



Internal Standard Area and RT Summary

Form 8a

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA105
 Sample No : WG2083406-2

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Analysis Date : 06/24/25 07:34:00
 Lab File ID : V05250624A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG2083406-2	334495	5.51	267591	8.99	168616	11.80
Upper Limit	668990	6.01	535182	9.49	337232	12.30
Lower Limit	167248	5.01	133796	8.49	84308	11.30
Sample ID						
WG2083406-3 LCS	334495	5.51	267591	8.99	168616	11.80
WG2083406-4 LCSD	330915	5.51	263430	8.99	163130	11.80
WG2083406-5 BLANK	292769	5.51	248147	8.99	144321	11.80
MW-11S	256928	5.51	227608	8.99	136008	11.80
MW-11D	264167	5.51	231263	8.99	136196	11.80
EQUIPMENT BLANK	273032	5.51	232451	8.99	135863	11.80
MW-1DRZ	275770	5.51	231473	8.99	134645	11.80
MW-1SR	282268	5.51	232844	8.99	135262	11.80

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

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA108
 Sample No : WG2083759-2

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Analysis Date : 06/24/25 07:36:00
 Lab File ID : V08250624A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG2083759-2	263696	5.91	211062	9.41	135210	12.13
Upper Limit	527392	6.41	422124	9.91	270420	12.63
Lower Limit	131848	5.41	105531	8.91	67605	11.63
Sample ID						
WG2083759-3 LCS	263696	5.91	211062	9.41	135210	12.13
WG2083759-4 LCSD	262081	5.90	200951	9.41	124545	12.13
WG2083759-5 BLANK	236166	5.91	170116	9.42	88335	12.13
TRIP BLANK	202840	5.91	150059	9.41	75610	12.14

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: 04/17/25
Created By: Jason Hebert
File: PM19302-1
Page: 1

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 Pace Analytical Services.



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File: PM19302-1
Page: 2

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 Pace Analytical Services.



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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-01
 Client ID : MW-11S
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V05250624A20
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 12:05
 Date Received : 06/16/25
 Date Analyzed : 06/24/25 15:39
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-01
 Client ID : MW-11S
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V05250624A20
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 12:05
 Date Received : 06/16/25
 Date Analyzed : 06/24/25 15:39
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 15:39
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V05250624A20	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-02
 Client ID : MW-11D
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V05250624A21
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 12:08
 Date Received : 06/16/25
 Date Analyzed : 06/24/25 16:04
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-02
 Client ID : MW-11D
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V05250624A21
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 12:08
 Date Received : 06/16/25
 Date Analyzed : 06/24/25 16:04
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 16:04
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V05250624A21	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-03
 Client ID : EQUIPMENT BLANK
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : Equipment Blank
 Analytical Method : 1,8260D
 Lab File ID : V05250624A22
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 12:30
 Date Received : 06/16/25
 Date Analyzed : 06/24/25 16:30
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-03
 Client ID : EQUIPMENT BLANK
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : Equipment Blank
 Analytical Method : 1,8260D
 Lab File ID : V05250624A22
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 12:30
 Date Received : 06/16/25
 Date Analyzed : 06/24/25 16:30
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 16:30
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V05250624A22	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-04
 Client ID : MW-1DRZ
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V05250624A23
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 13:45
 Date Received : 06/16/25
 Date Analyzed : 06/24/25 16:55
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-04
 Client ID : MW-1DRZ
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V05250624A23
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 13:45
 Date Received : 06/16/25
 Date Analyzed : 06/24/25 16:55
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 16:55
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V05250624A23	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-05
 Client ID : MW-1SR
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V05250624A24
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 13:50
 Date Received : 06/16/25
 Date Analyzed : 06/24/25 17:21
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-05
 Client ID : MW-1SR
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V05250624A24
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 13:50
 Date Received : 06/16/25
 Date Analyzed : 06/24/25 17:21
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 17:21
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V05250624A24	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-06
 Client ID : TRIP BLANK
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250624A15
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 00:00
 Date Received : 06/16/25
 Date Analyzed : 06/24/25 12:53
 Dilution Factor : 1
 Analyst : KAB
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-06	Date Collected	: 06/16/25 00:00
Client ID	: TRIP BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 12:53
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: KAB
Lab File ID	: V08250624A15	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-06	Date Collected	: 06/16/25 00:00
Client ID	: TRIP BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 12:53
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: KAB
Lab File ID	: V08250624A15	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : WG2083406-5
 Client ID : WG2083406-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V05250624A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/24/25 09:16
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : WG2083406-5
 Client ID : WG2083406-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V05250624A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/24/25 09:16
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2083406-5	Date Collected	: NA
Client ID	: WG2083406-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/24/25 09:16
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: V05250624A05	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : WG2083759-5
 Client ID : WG2083759-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250624A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/24/25 09:06
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : WG2083759-5
 Client ID : WG2083759-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250624A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/24/25 09:06
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2083759-5	Date Collected	: NA
Client ID	: WG2083759-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/24/25 09:06
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: V08250624A05	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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:\VOA105\2025\250624A\
 Data File : V05250624A20.D
 Acq On : 24 Jun 2025 3:39 pm
 Operator : VOA105:AJK
 Sample : 12537655-01,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 25 15:00:20 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.513	96	256928	10.000	ug/L	0.00
Standard Area 1 = 334495			Recovery	=	76.81%	
59) Chlorobenzene-d5	8.985	117	227608	10.000	ug/L	0.00
Standard Area 1 = 267591			Recovery	=	85.06%	
79) 1,4-Dichlorobenzene-d4	11.797	152	136008	10.000	ug/L	0.00
Standard Area 1 = 168616			Recovery	=	80.66%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.739	113	86086	12.766	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	127.66%	
43) 1,2-Dichloroethane-d4	5.238	65	85584	10.948	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	109.48%	
60) Toluene-d8	7.164	98	270952	9.005	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	90.05%	
83) 4-Bromofluorobenzene	10.538	95	108901	8.718	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	87.18%	
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	1.925	94	509	0.164	ug/L	86
6) Chloroethane	0.000		0	N.D.	d	
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.201	43	1361	Below Cal	#	39
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.270	43	141	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A20.D
 Acq On : 24 Jun 2025 3:39 pm
 Operator : VOA105:AJK
 Sample : l2537655-01,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 25 15:00:20 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	5.654	95	75		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	8.985	91	323		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

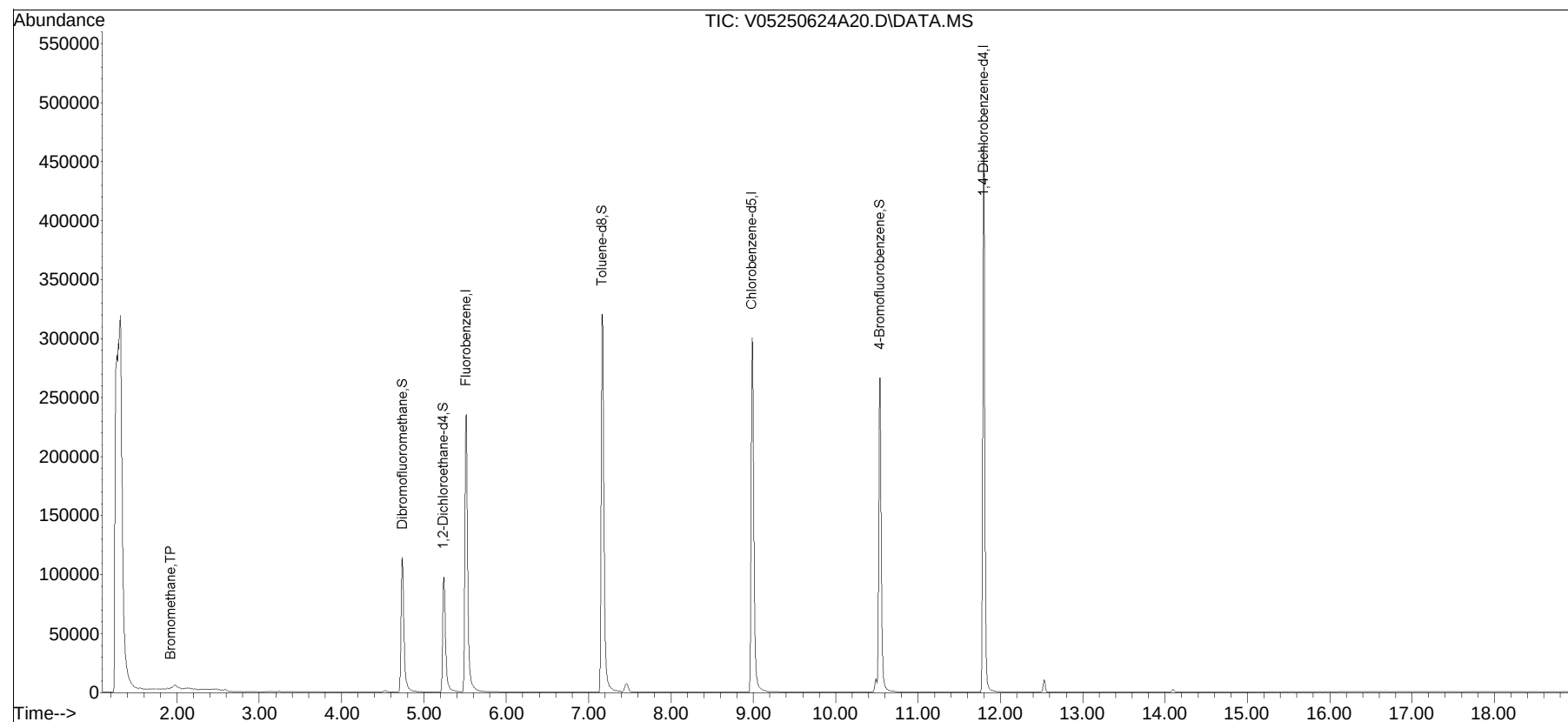
(#) = qualifier out of range (m) = manual integration (+) = signals summed

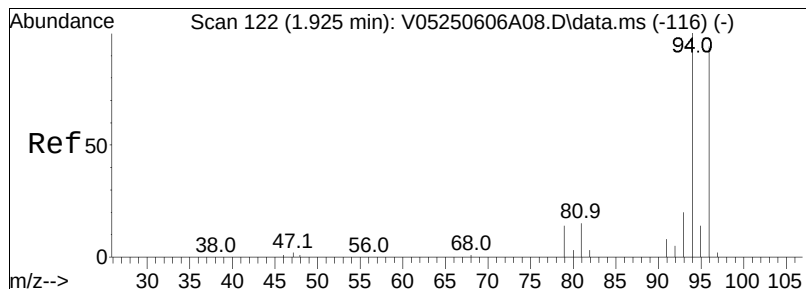
Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A20.D
 Acq On : 24 Jun 2025 3:39 pm
 Operator : VOA105:AJK
 Sample : l2537655-01,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 25 15:00:20 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

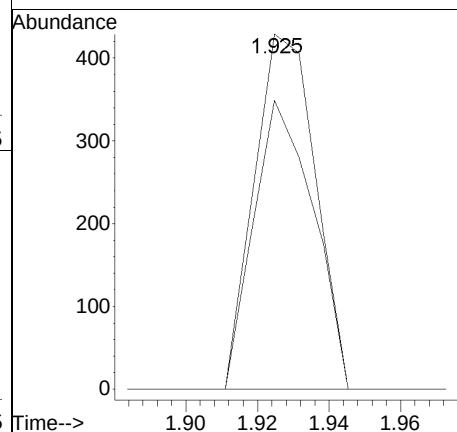
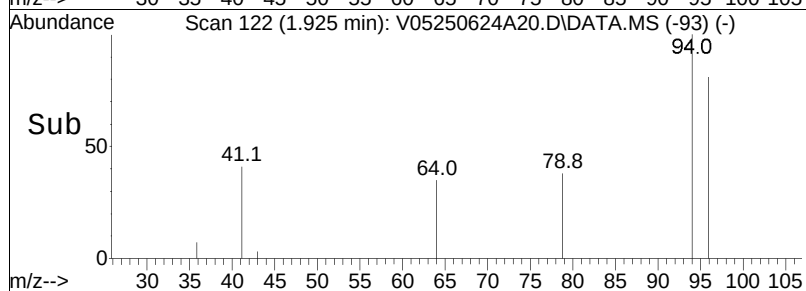
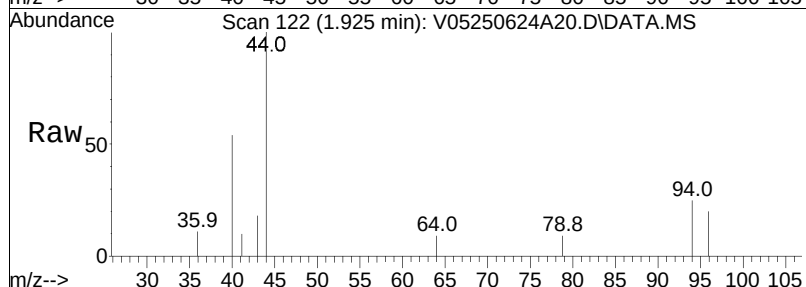
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane





#5
 Bromomethane
 Concen: 0.16 ug/L
 RT: 1.925 min Scan# 122
 Delta R.T. -0.000 min
 Lab File: V05250624A20.D
 Acq: 24 Jun 2025 3:39 pm

Tgt Ion: 94 Resp: 509
 Ion Ratio Lower Upper
 94 100
 96 79.6 73.0 113.0



Manual Integration Report

Data Path	: K:\V0A105\2025\250624A\	QMethod	: V105_250606A_8260.m
Data File	: V05250624A20.D	Operator	: V0A105:AJK
Date Inj'd	: 6/24/2025 3:39 pm	Instrument	: V0A105
Sample	: l2537655-01,31,10,10,,a	Quant Date	: 6/25/2025 2:43 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A21.D
 Acq On : 24 Jun 2025 4:04 pm
 Operator : VOA105:AJK
 Sample : 12537655-02,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 15:00:42 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.513	96	264167	10.000	ug/L	0.00
Standard Area 1 = 334495			Recovery = 78.97%			
59) Chlorobenzene-d5	8.991	117	231263	10.000	ug/L	0.00
Standard Area 1 = 267591			Recovery = 86.42%			
79) 1,4-Dichlorobenzene-d4	11.797	152	136196	10.000	ug/L	0.00
Standard Area 1 = 168616			Recovery = 80.77%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.739	113	88975	12.833	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 128.33%			
43) 1,2-Dichloroethane-d4	5.245	65	90984	11.320	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.20%			
60) Toluene-d8	7.164	98	275168	9.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.00%			
83) 4-Bromofluorobenzene	10.538	95	108707	8.690	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 86.90%			
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	1.931	94	525	0.165	ug/L	88
6) Chloroethane	2.007	64	238	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.215	43	380	Below Cal	#	39
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.277	43	62	N.D.		
20) Methyl tert-butyl ether	3.352	73	267	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A21.D
 Acq On : 24 Jun 2025 4:04 pm
 Operator : VOA105:AJK
 Sample : l2537655-02,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 15:00:42 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	8.991	91	268		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

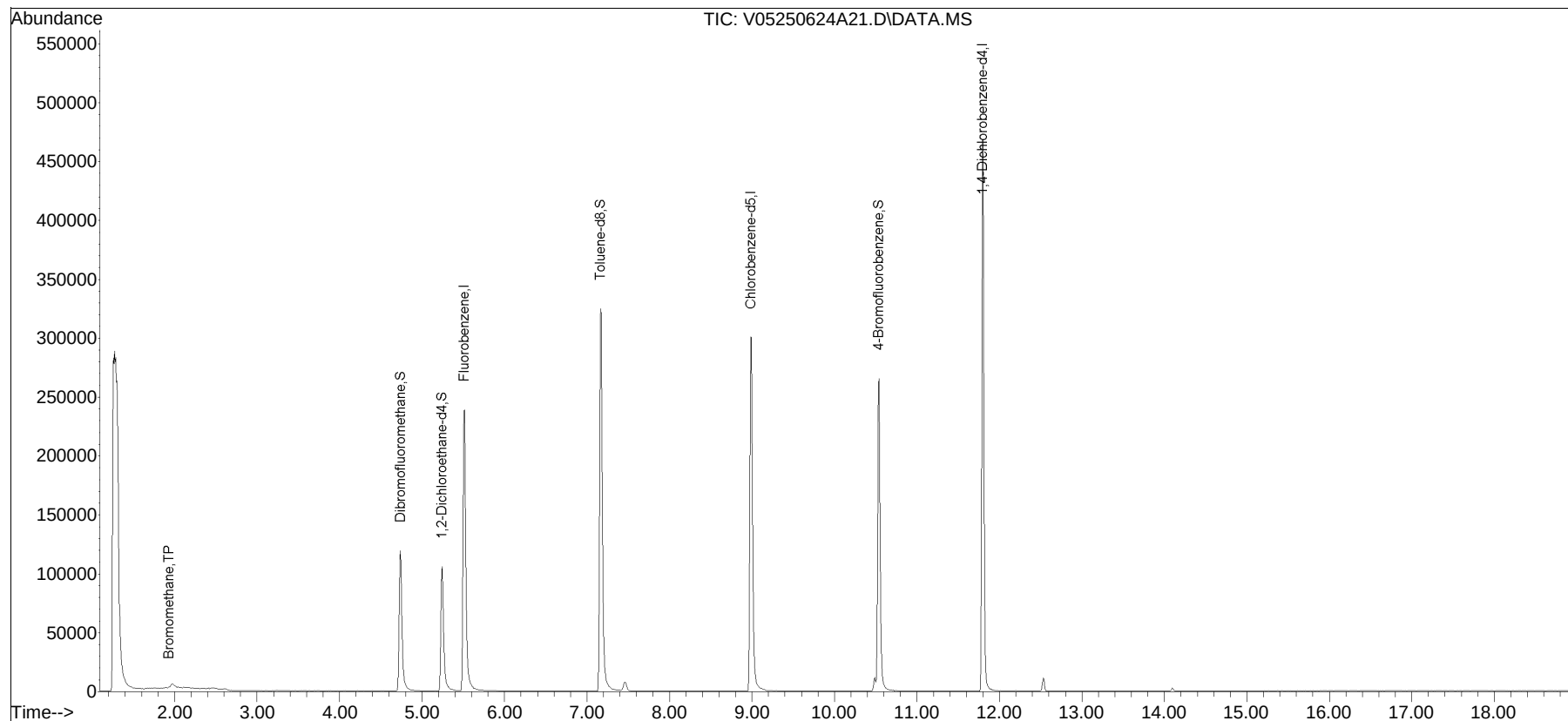
(#) = qualifier out of range (m) = manual integration (+) = signals summed

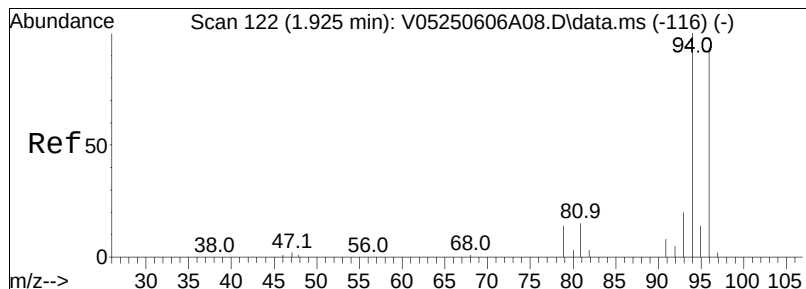
Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A21.D
 Acq On : 24 Jun 2025 4:04 pm
 Operator : VOA105:AJK
 Sample : l2537655-02,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 15:00:42 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

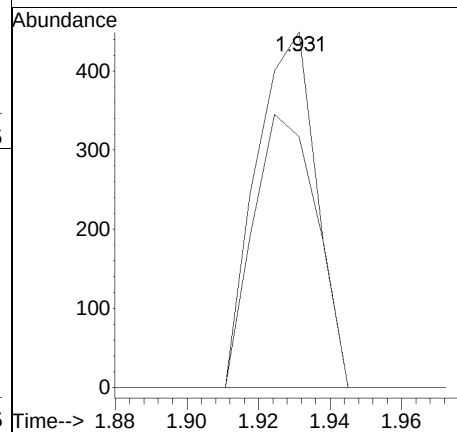
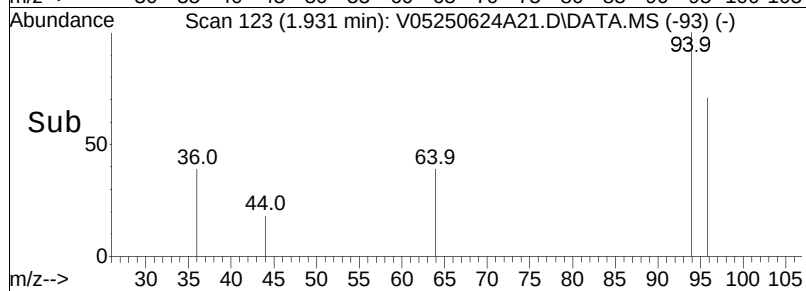
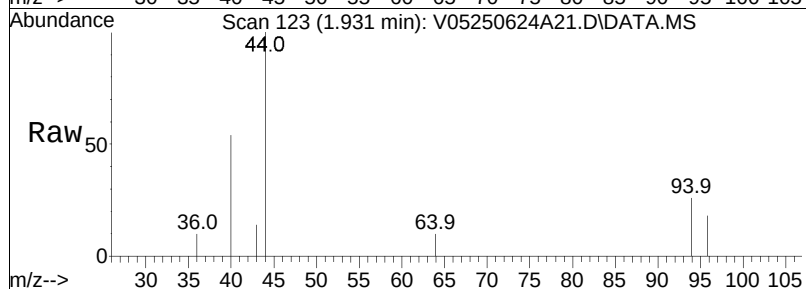
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane





#5
 Bromomethane
 Concen: 0.16 ug/L
 RT: 1.931 min Scan# 123
 Delta R.T. 0.006 min
 Lab File: V05250624A21.D
 Acq: 24 Jun 2025 4:04 pm

Tgt Ion: 94 Resp: 525
 Ion Ratio Lower Upper
 94 100
 96 81.1 73.0 113.0



Manual Integration Report

Data Path	: K:\V0A105\2025\250624A\	QMethod	: V105_250606A_8260.m
Data File	: V05250624A21.D	Operator	: V0A105:AJK
Date Inj'd	: 6/24/2025 4:04 pm	Instrument	: V0A105
Sample	: l2537655-02,31,10,10,,a	Quant Date	: 6/25/2025 2:43 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A22.D
 Acq On : 24 Jun 2025 4:30 pm
 Operator : VOA105:AJK
 Sample : 12537655-03,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 25 15:01:08 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.513	96	273032	10.000	ug/L	0.00
Standard Area 1 = 334495			Recovery =	81.63%		
59) Chlorobenzene-d5	8.992	117	232451	10.000	ug/L	0.00
Standard Area 1 = 267591			Recovery =	86.87%		
79) 1,4-Dichlorobenzene-d4	11.797	152	135863	10.000	ug/L	0.00
Standard Area 1 = 168616			Recovery =	80.58%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.739	113	88917	12.408	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	124.08%		
43) 1,2-Dichloroethane-d4	5.238	65	91965	11.070	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	110.70%		
60) Toluene-d8	7.164	98	279442	9.094	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	90.94%		
83) 4-Bromofluorobenzene	10.538	95	109610	8.784	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.84%		
Target Compounds						
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	1.925	94	493	0.150	ug/L	95
6) Chloroethane	2.014	64	63	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.208	43	622	Below Cal	#	39
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.277	43	138	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A22.D
 Acq On : 24 Jun 2025 4:30 pm
 Operator : VOA105:AJK
 Sample : l2537655-03,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 25 15:01:08 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	5.654	95	130		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	8.985	91	271		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

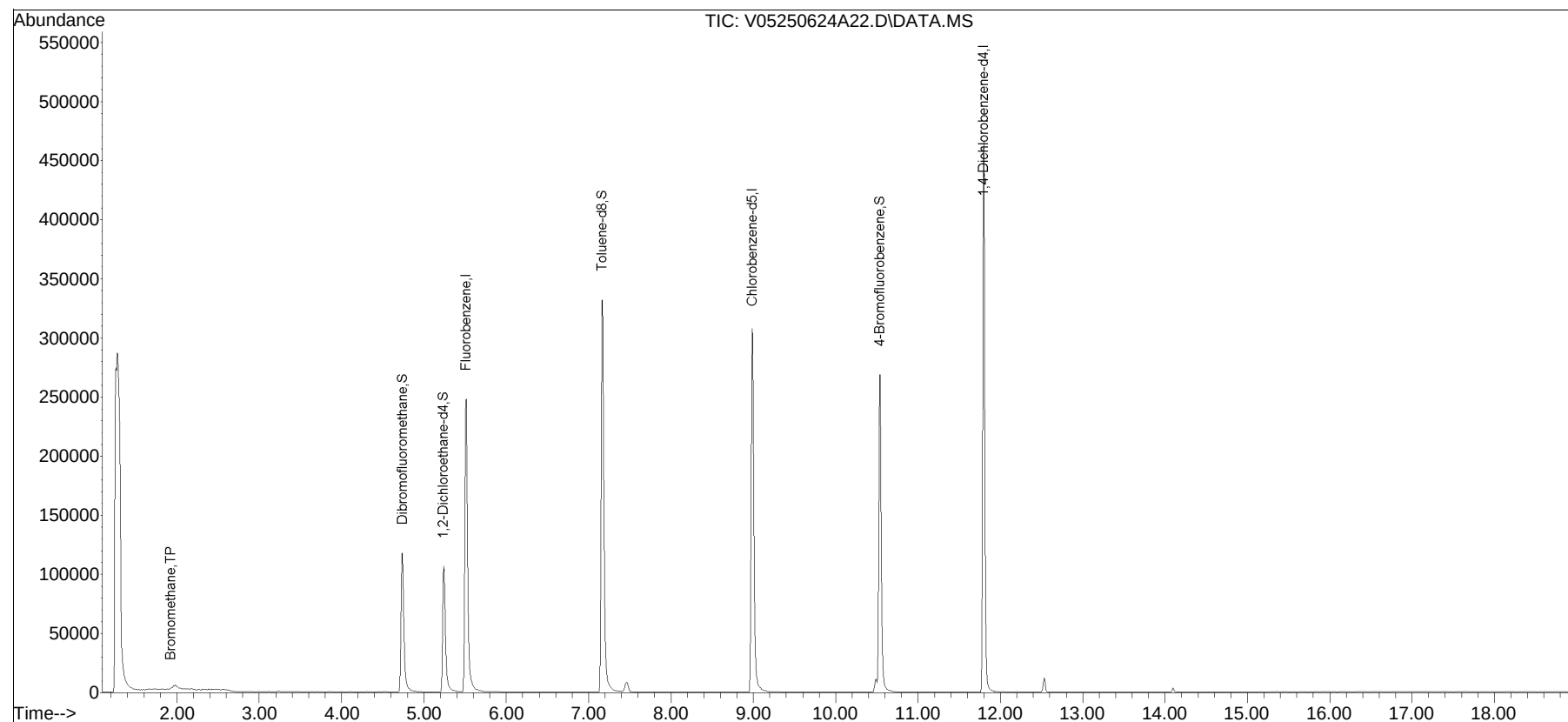
(#) = qualifier out of range (m) = manual integration (+) = signals summed

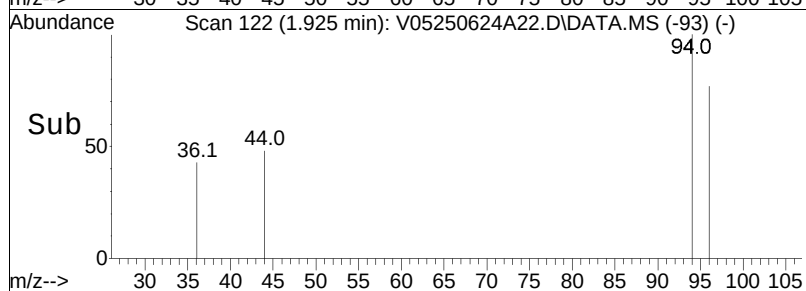
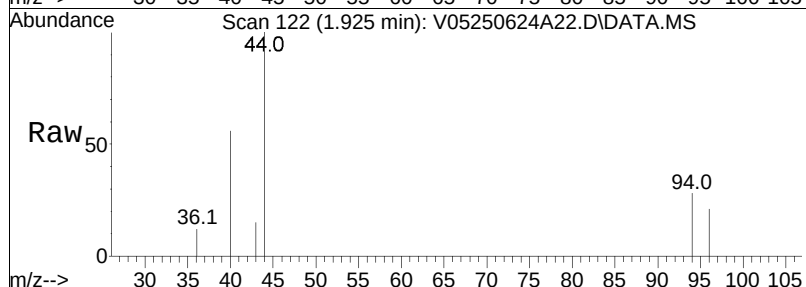
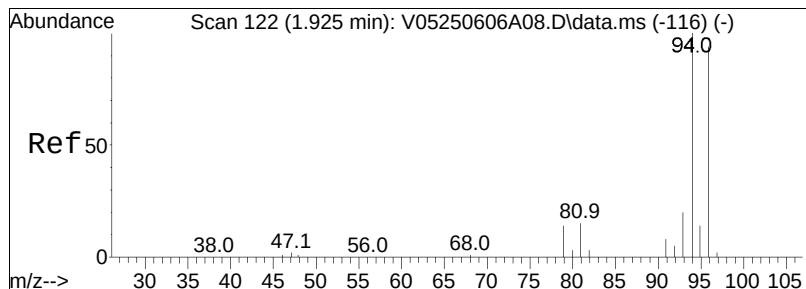
Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A22.D
 Acq On : 24 Jun 2025 4:30 pm
 Operator : VOA105:AJK
 Sample : l2537655-03,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 25 15:01:08 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

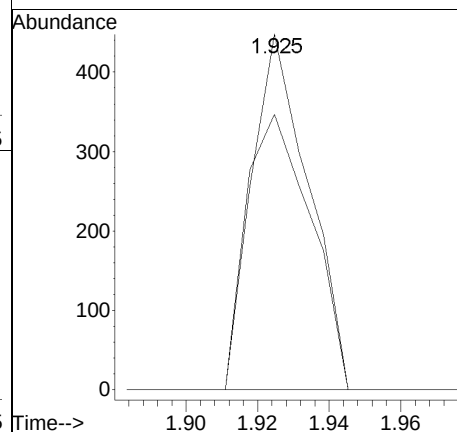
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane





#5
 Bromomethane
 Concen: 0.15 ug/L
 RT: 1.925 min Scan# 122
 Delta R.T. -0.000 min
 Lab File: V05250624A22.D
 Acq: 24 Jun 2025 4:30 pm

Tgt Ion: 94 Resp: 493
 Ion Ratio Lower Upper
 94 100
 96 88.2 73.0 113.0



Manual Integration Report

Data Path	: K:\V0A105\2025\250624A\	QMethod	: V105_250606A_8260.m
Data File	: V05250624A22.D	Operator	: V0A105:AJK
Date Inj'd	: 6/24/2025 4:30 pm	Instrument	: V0A105
Sample	: l2537655-03,31,10,10,,a	Quant Date	: 6/25/2025 2:43 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A23.D
 Acq On : 24 Jun 2025 4:55 pm
 Operator : VOA105:AJK
 Sample : 12537655-04,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 15:01:29 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.513	96	275770	10.000	ug/L	0.00
Standard Area 1 = 334495			Recovery =	82.44%		
59) Chlorobenzene-d5	8.991	117	231473	10.000	ug/L	0.00
Standard Area 1 = 267591			Recovery =	86.50%		
79) 1,4-Dichlorobenzene-d4	11.797	152	134645	10.000	ug/L	0.00
Standard Area 1 = 168616			Recovery =	79.85%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.739	113	89453	12.359	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	123.59%		
43) 1,2-Dichloroethane-d4	5.245	65	94387	11.249	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.49%		
60) Toluene-d8	7.164	98	279131	9.122	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	91.22%		
83) 4-Bromofluorobenzene	10.538	95	108896	8.805	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	88.05%		
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	1.925	94	530	0.159	ug/L	93
6) Chloroethane	1.979	64	63	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.194	43	2099	Below Cal		96
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.373	43	64	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	4.567	83	2175	0.172	ug/L #	90
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A23.D
 Acq On : 24 Jun 2025 4:55 pm
 Operator : VOA105:AJK
 Sample : l2537655-04,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 15:01:29 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	0.000		0		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	0.000		0		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	0.000		0		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	8.984	91	252		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

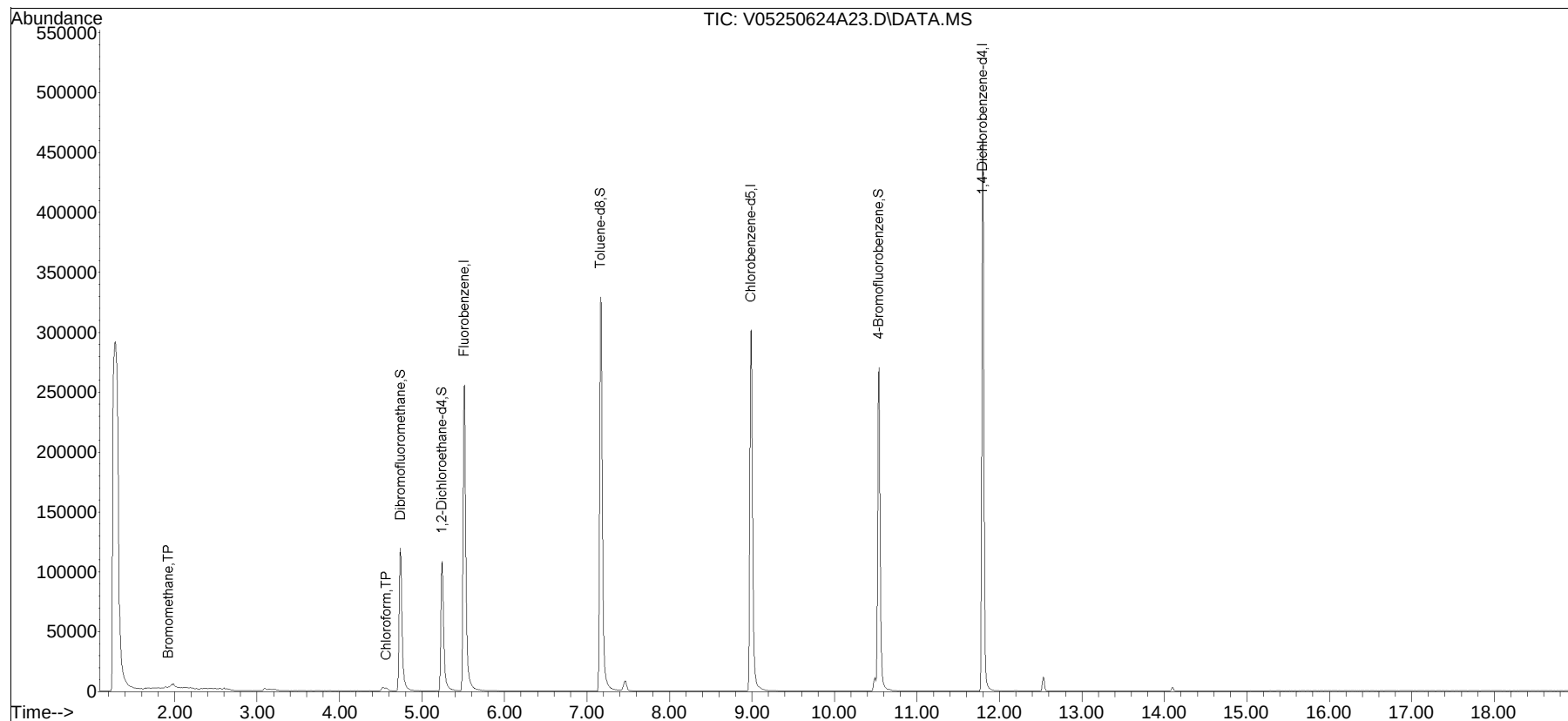
(#) = qualifier out of range (m) = manual integration (+) = signals summed

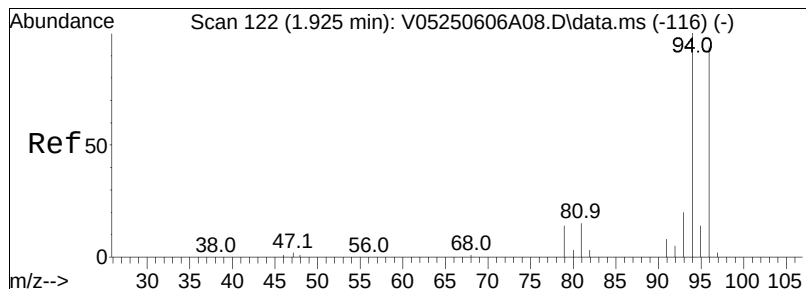
Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A23.D
 Acq On : 24 Jun 2025 4:55 pm
 Operator : VOA105:AJK
 Sample : l2537655-04,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 15:01:29 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

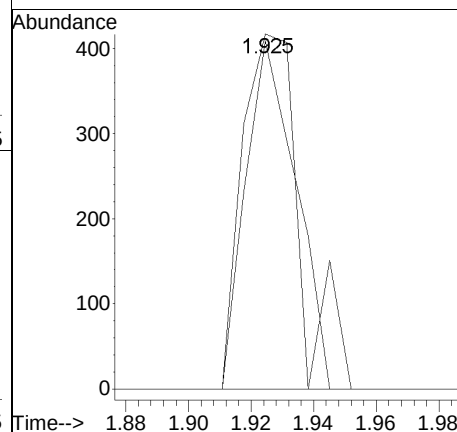
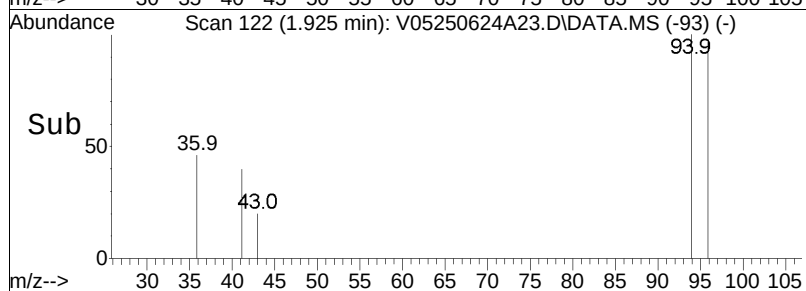
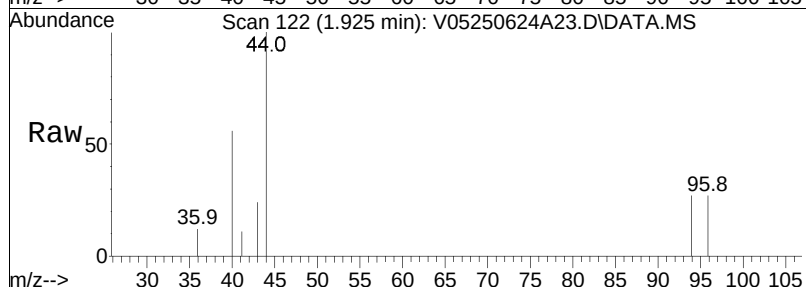
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

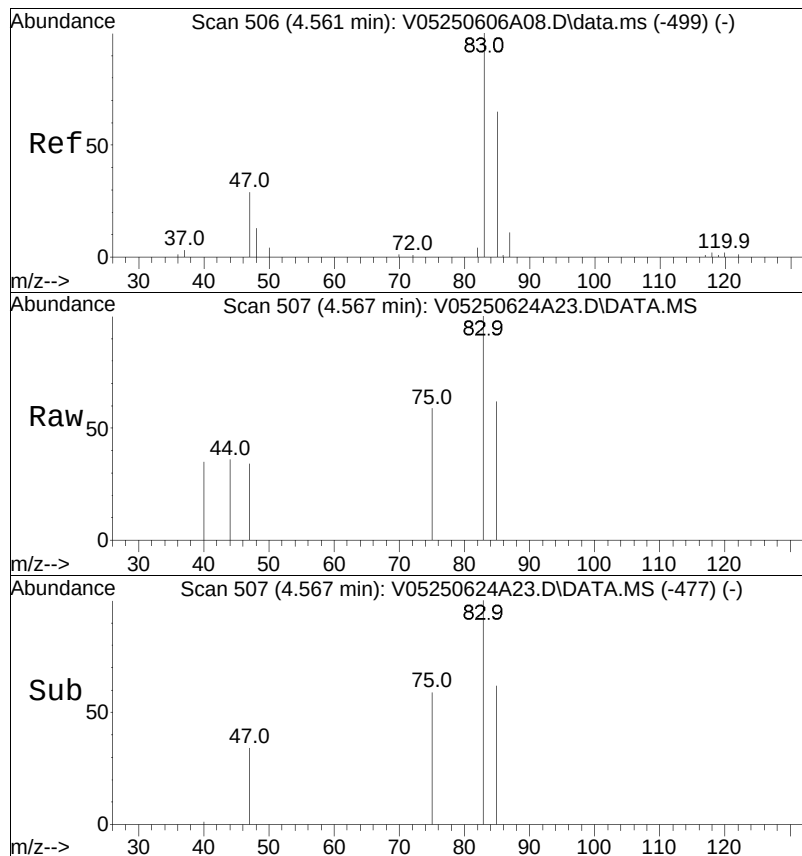




#5
 Bromomethane
 Concen: 0.16 ug/L
 RT: 1.925 min Scan# 122
 Delta R.T. -0.000 min
 Lab File: V05250624A23.D
 Acq: 24 Jun 2025 4:55 pm

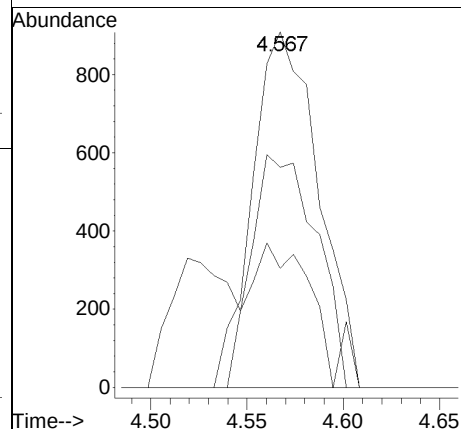
Tgt Ion: 94 Resp: 530
 Ion Ratio Lower Upper
 94 100
 96 86.4 73.0 113.0





#32
 Chloroform
 Concen: 0.17 ug/L
 RT: 4.567 min Scan# 507
 Delta R.T. 0.006 min
 Lab File: V05250624A23.D
 Acq: 24 Jun 2025 4:55 pm

Tgt Ion: 83	Resp: 2175
Ion Ratio	Lower Upper
83 100	
85 64.0	41.8 86.8
47 36.9	17.4 36.2#
48 0.0	8.9 18.5#



Manual Integration Report

Data Path	: K:\V0A105\2025\250624A\	QMethod	: V105_250606A_8260.m
Data File	: V05250624A23.D	Operator	: V0A105:AJK
Date Inj'd	: 6/24/2025 4:55 pm	Instrument	: V0A105
Sample	: l2537655-04,31,10,10,,a	Quant Date	: 6/25/2025 2:43 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A24.D
 Acq On : 24 Jun 2025 5:21 pm
 Operator : VOA105:AJK
 Sample : 12537655-05,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 25 15:01:59 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.513	96	282268	10.000	ug/L	0.00
Standard Area 1 = 334495			Recovery =	84.39%		
59) Chlorobenzene-d5	8.985	117	232844	10.000	ug/L	0.00
Standard Area 1 = 267591			Recovery =	87.01%		
79) 1,4-Dichlorobenzene-d4	11.797	152	135262	10.000	ug/L	0.00
Standard Area 1 = 168616			Recovery =	80.22%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.739	113	89360	12.062	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	120.62%		
43) 1,2-Dichloroethane-d4	5.245	65	95432	11.112	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	111.12%		
60) Toluene-d8	7.164	98	282410	9.175	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	91.75%		
83) 4-Bromofluorobenzene	10.538	95	109001	8.774	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.74%		
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	1.925	94	465	0.137	ug/L	93
6) Chloroethane	2.076	64	63	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.195	43	2745	0.288	ug/L #	70
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A24.D
 Acq On : 24 Jun 2025 5:21 pm
 Operator : VOA105:AJK
 Sample : l2537655-05,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 25 15:01:59 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	0.000		0		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	0.000		0		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	0.000		0		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	8.978	91	338		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

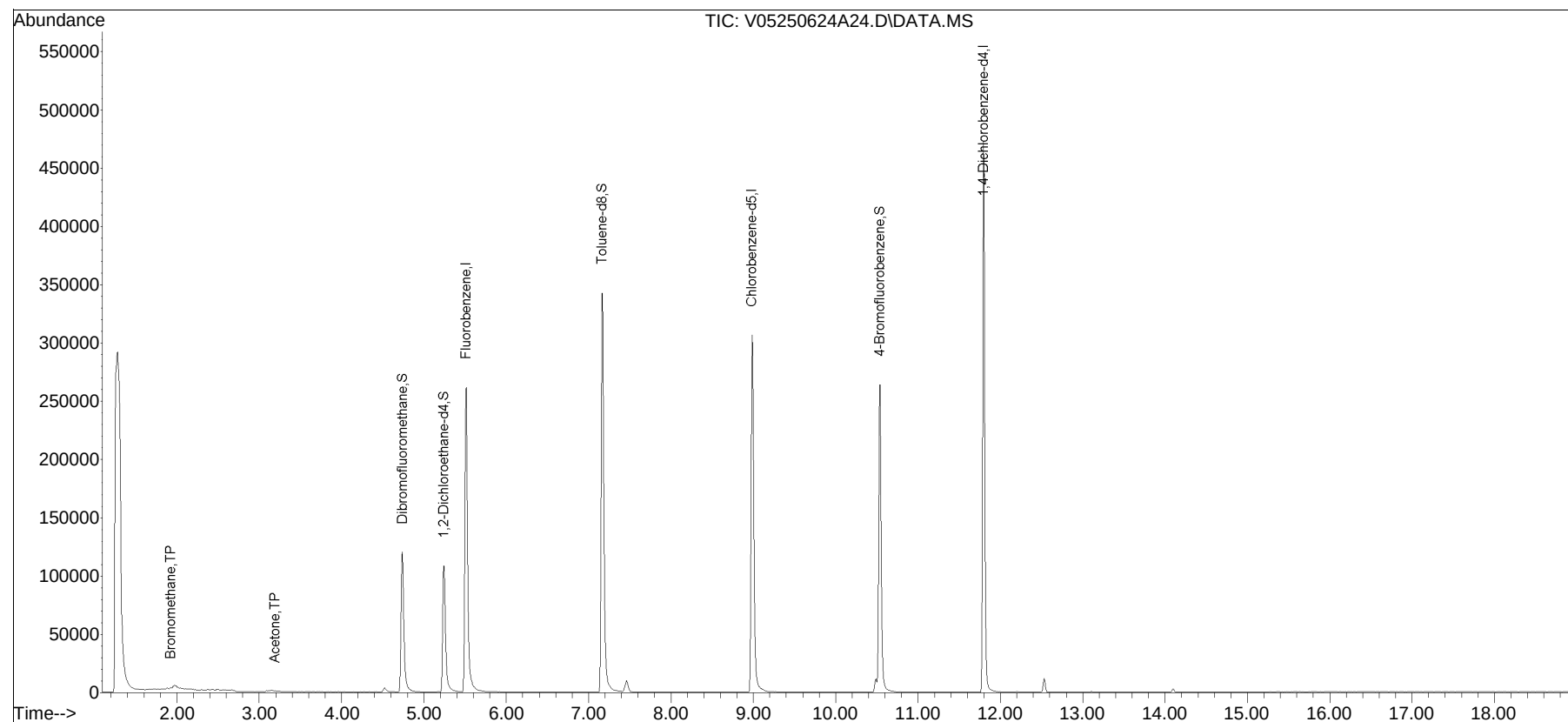
(#) = qualifier out of range (m) = manual integration (+) = signals summed

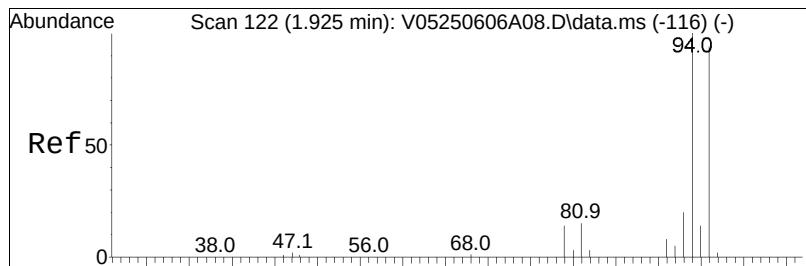
Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A24.D
 Acq On : 24 Jun 2025 5:21 pm
 Operator : VOA105:AJK
 Sample : l2537655-05,31,10,10,,a
 Misc : WG2083406,ICAL22348
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 25 15:01:59 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

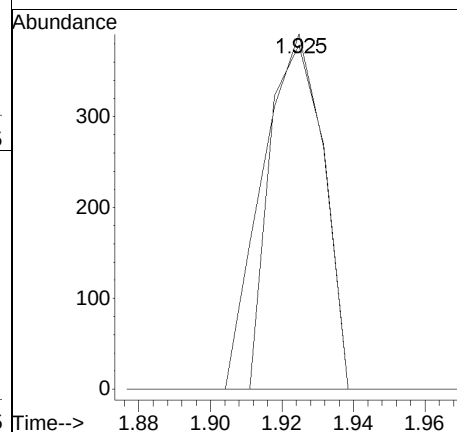
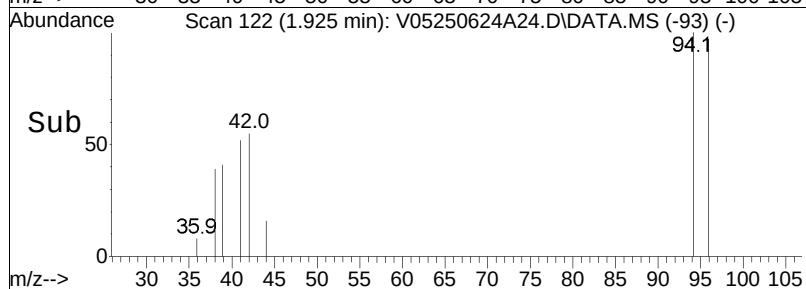
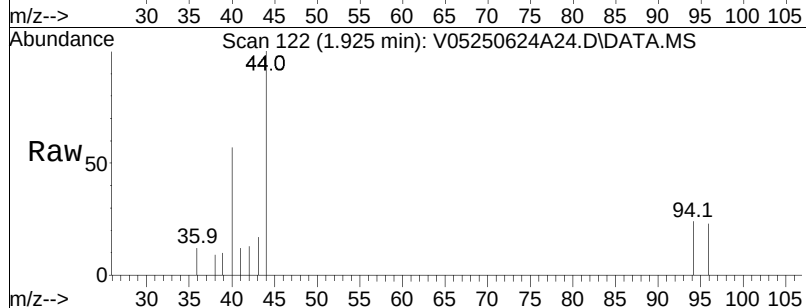
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

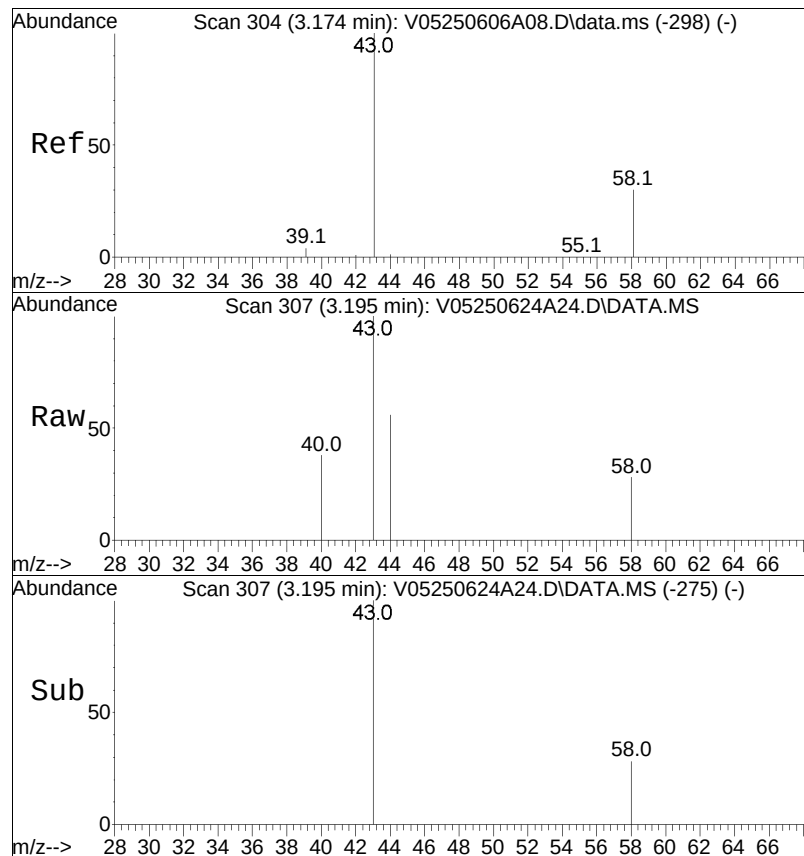




#5
 Bromomethane
 Concen: 0.14 ug/L
 RT: 1.925 min Scan# 122
 Delta R.T. -0.000 min
 Lab File: V05250624A24.D
 Acq: 24 Jun 2025 5:21 pm

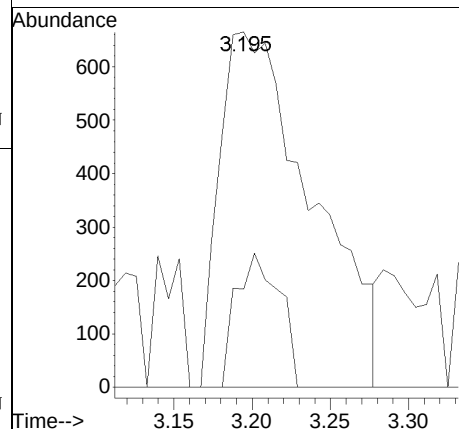
Tgt Ion: 94 Resp: 465
 Ion Ratio Lower Upper
 94 100
 96 86.0 73.0 113.0





#17
 Acetone
 Concen: 0.29 ug/L
 RT: 3.195 min Scan# 307
 Delta R.T. 0.021 min
 Lab File: V05250624A24.D
 Acq: 24 Jun 2025 5:21 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
58	17.6	28.3	42.5#



Manual Integration Report

Data Path	: K:\V0A105\2025\250624A\	QMethod	: V105_250606A_8260.m
Data File	: V05250624A24.D	Operator	: V0A105:AJK
Date Inj'd	: 6/24/2025 5:21 pm	Instrument	: V0A105
Sample	: l2537655-05,31,10,10,,a	Quant Date	: 6/25/2025 2:43 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A15.d
 Acq On : 24 Jun 2025 12:53 pm
 Operator : VOA108:kab
 Sample : L2537655-06,31,10,10,,A
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 26 07:49:01 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250624A\V08250624A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.906	96	202840	10.000	ug/L	0.00
Standard Area 1 = 263696			Recovery = 76.92%			
59) Chlorobenzene-d5	9.410	117	150059	10.000	ug/L	0.00
Standard Area 1 = 211062			Recovery = 71.10%			
79) 1,4-Dichlorobenzene-d4	12.137	152	75610	10.000	ug/L	0.00
Standard Area 1 = 135210			Recovery = 55.92%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.109	113	71346	10.919	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.19%			
43) 1,2-Dichloroethane-d4	5.626	65	73357	11.754	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.54%			
60) Toluene-d8	7.583	98	191482	10.441	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.41%			
83) 4-Bromofluorobenzene	10.916	95	57270	11.110	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.10%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.824	50	68	N.D.		
4) Vinyl chloride	2.036	62	65	N.D.		
5) Bromomethane	2.176	94	346	0.076	ug/L	82
6) Chloroethane	2.216	64	72	N.D.		
7) Trichlorofluoromethane	2.515	101	66	N.D.		
10) 1,1-Dichloroethene	2.908	96	105	N.D.		
11) Carbon disulfide	2.934	76	93	N.D.		
12) Freon-113	2.775	101	64	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.593	43	64	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A15.d
 Acq On : 24 Jun 2025 12:53 pm
 Operator : VOA108:kab
 Sample : L2537655-06,31,10,10,,A
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 26 07:49:01 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250624A\V08250624A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	0.000		0		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	0.000		0		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	6.796	83	67		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	8.096	166	91		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	0.000		0		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	9.423	91	73		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	12.158	146	110		N.D.	
101)	1,4-Dichlorobenzene	12.158	146	110		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

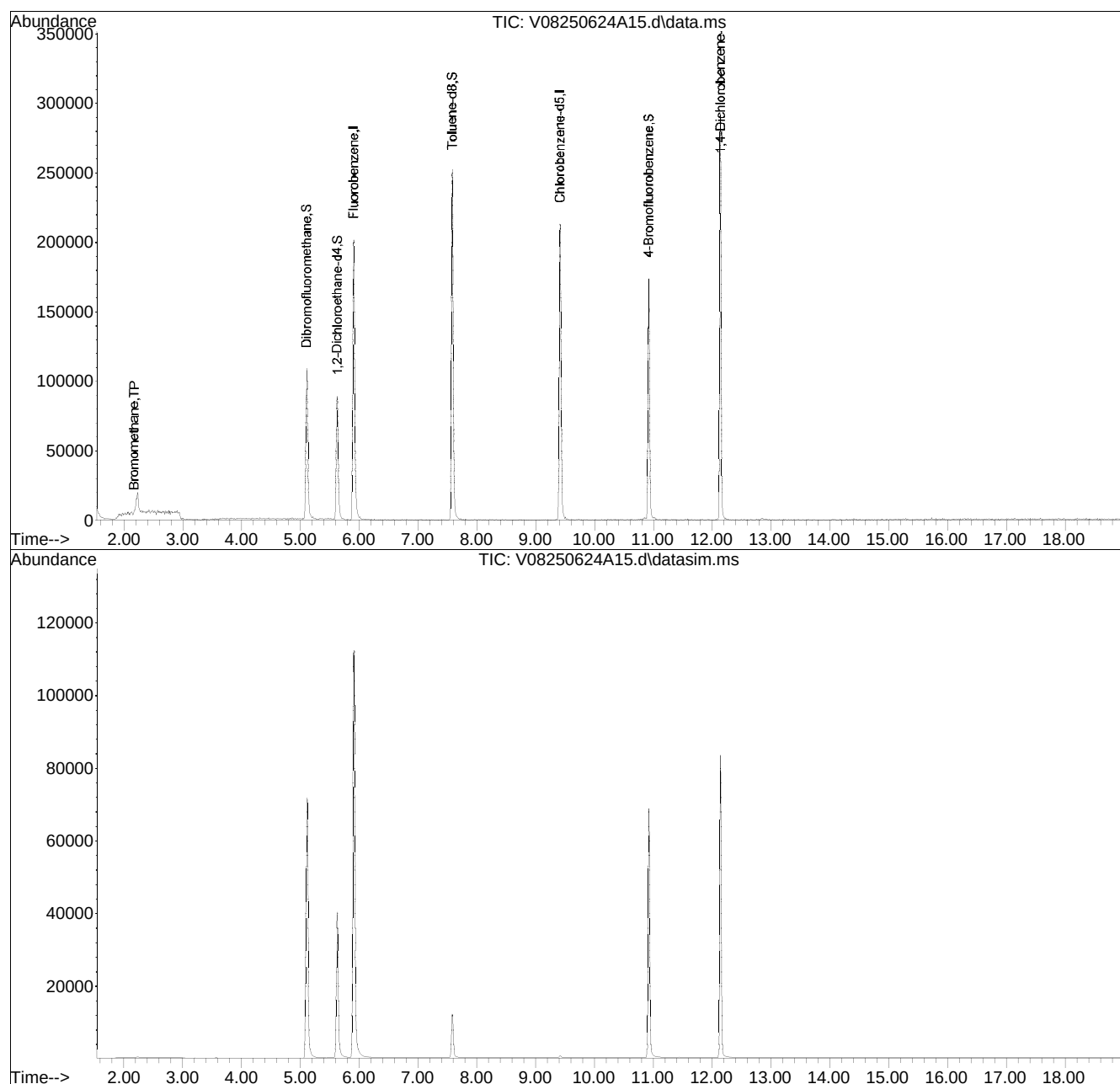
(#) = qualifier out of range (m) = manual integration (+) = signals summed

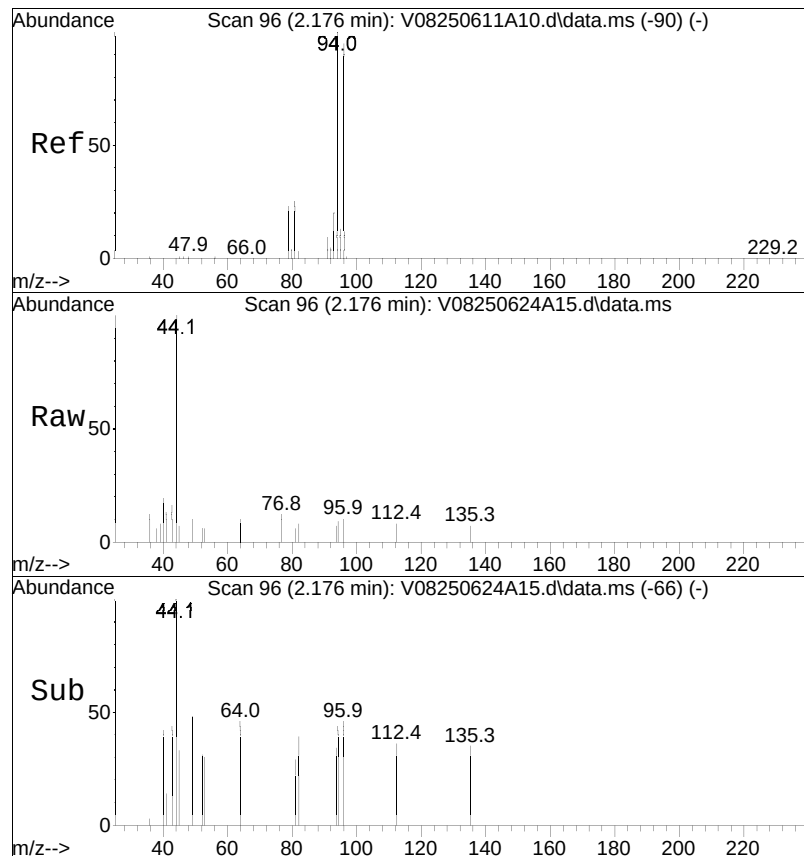
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A15.d
 Acq On : 24 Jun 2025 12:53 pm
 Operator : VOA108:kab
 Sample : L2537655-06,31,10,10,,A
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 26 07:49:01 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

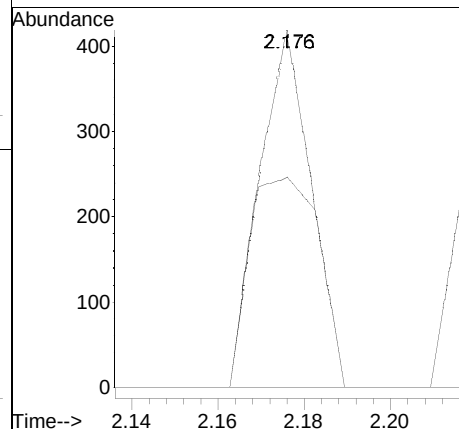
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane





#5
 Bromomethane
 Concen: 0.08 ug/L
 RT: 2.176 min Scan# 96
 Delta R.T. 0.000 min
 Lab File: V08250624A15.d
 Acq: 24 Jun 2025 12:53 pm

Tgt	Ion	Resp	Lower	Upper
94	100			
96	79.5	77.7	117.7	



Manual Integration Report

Data Path	: K:\V0A108\2025\250624A\	QMethod	: V108_250611A_8260.m
Data File	: V08250624A15.d	Operator	: V0A108:kab
Date Inj'd	: 6/24/2025 12:53 pm	Instrument	: V0A 108
Sample	: L2537655-06,31,10,10,,A	Quant Date	: 6/26/2025 7:30 am

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
 Project Name : CORAM MATERIALS
 Instrument ID : VOA105
 Calibration dates : 06/06/25 15:21 06/06/25 19:12

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22348

Calibration Files

L11 =V05250606A03.D L1 =V05250606A04.D L2 =V05250606A06.D L3 =V05250606A08.D L4 =V05250606A09.D
 L8 =V05250606A11.D L10 =V05250606A12.D

Compound	L11	L1	L2	L3	L4	L8	L10	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----								
2) TP Dichlorodifluoromethane		0.267	0.309	0.276	0.310	0.305	0.301	0.295	6.25
3) TP Chloromethane		0.337	0.401	0.373	0.387	0.397	0.398	0.382	6.39
4) TP Vinyl chloride	0.285	0.314	0.380	0.337	0.354	0.357	0.348	0.339	9.18
5) TP Bromomethane		0.111	0.112	0.107	0.118	0.136	0.140	0.121	11.49
6) TP Chloroethane		0.187	0.185	0.163	0.168	0.154	0.132	0.165	12.44
7) TP Trichlorofluoromethane		0.267	0.345	0.315	0.347	0.316	0.304	0.316	9.34
8) TP Ethyl ether		0.111	0.113	0.115	0.111	0.106	0.107	0.110	3.25
10) TP 1,1-Dichloroethene		0.250	0.227	0.191	0.200	0.195	0.193	0.210	11.38
11) TP Carbon disulfide		0.406	0.504	0.425	0.443	0.504	0.559	0.473	12.32
12) TP Freon-113		0.166	0.200	0.188	0.217	0.206	0.203	0.197	8.95
13) TP Iodomethane			0.208	0.238	0.275	0.306	0.303	0.266	15.93
14) TP Acrolein			0.030	0.026	0.023	0.021	0.022	0.025	15.34
15) TP Methylene chloride		0.312	0.292	0.268	0.260	0.251	0.251	0.272	9.07
17) TP Acetone			0.083	0.057	0.048	0.044	0.045	*L	0.9993
18) TP trans-1,2-Dichloroethene		0.243	0.287	0.267	0.264	0.257	0.253	0.262	5.80
19) TP Methyl acetate			0.089	0.113	0.112	0.116	0.109	0.108	10.01
20) TP Methyl tert-butyl ether		0.563	0.613	0.628	0.608	0.589	0.588	0.598	3.82
21) TP tert-Butyl alcohol		0.013	0.015	0.017	0.015	0.014	0.015	0.015	9.09
22) TP Diisopropyl ether		0.960	0.962	0.992	0.997	0.968	0.963	0.974	1.69
23) TP 1,1-Dichloroethane		0.539	0.601	0.562	0.551	0.532	0.523	0.551	5.05
24) TP Halothane		0.175	0.207	0.194	0.201	0.197	0.193	0.195	5.62
25) TP Acrylonitrile			0.074	0.076	0.071	0.068	0.070	0.072	4.47
26) TP Ethyl tert-butyl ether		0.720	0.787	0.836	0.833	0.808	0.812	0.800	5.34
27) TP Vinyl acetate			0.257	0.225	0.177	0.174	0.175	0.202	18.56
28) TP cis-1,2-Dichloroethene		0.286	0.320	0.295	0.287	0.279	0.276	0.291	5.52
29) TP 2,2-Dichloropropane		0.386	0.451	0.406	0.409	0.391	0.384	0.404	6.17
30) TP Bromochloromethane		0.124	0.135	0.129	0.124	0.113	0.110	0.123	7.57
31) TP Cyclohexane		0.560	0.631	0.588	0.645	0.607	0.610	0.607	5.01
32) TP Chloroform		0.462	0.507	0.468	0.453	0.436	0.432	0.460	5.89
33) TP Ethyl acetate			0.162	0.189	0.181	0.173	0.180	0.177	5.79
34) TP Carbon tetrachloride	0.298	0.337	0.375	0.352	0.377	0.366	0.363	0.352	7.85
35) TP Tetrahydrofuran			0.071	0.068	0.062	0.055	0.056	0.062	11.53
36) S Dibromofluoromethane	0.281	0.280	0.277	0.262	0.254	0.243	0.242	0.262	6.47
37) TP 1,1,1-Trichloroethane		0.366	0.436	0.399	0.411	0.396	0.391	0.400	5.79
39) TP 2-Butanone			0.069	0.080	0.077	0.074	0.078	0.076	5.48



Initial Calibration Summary

Form 6

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA105
 Calibration dates : 06/06/25 15:21 06/06/25 19:12

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22348

Calibration Files

L11 =V05250606A03.D L1 =V05250606A04.D L2 =V05250606A06.D L3 =V05250606A08.D L4 =V05250606A09.D
 L8 =V05250606A11.D L10 =V05250606A12.D

Compound	L11	L1	L2	L3	L4	L8	L10	Avg	%RSD
40) TP 1,1-Dichloropropene	0.284	0.353	0.343	0.360	0.350	0.345	0.339	8.24	
41) TP Benzene	0.911	0.959	1.150	1.115	1.107	1.078	1.068	1.055	8.29
42) TP tert-Amyl methyl ether	0.525	0.563	0.592	0.592	0.583	0.591	0.574	4.66	
43) S 1,2-Dichloroethane-d4	0.319	0.320	0.318	0.318	0.289	0.280	0.287	0.304	6.01
44) TP 1,2-Dichloroethane	0.320	0.335	0.360	0.348	0.333	0.317	0.316	0.333	5.03
47) TP Methyl cyclohexane	0.321	0.402	0.434	0.490	0.474	0.484	0.434	14.94	
48) TP Trichloroethene	0.315	0.277	0.293	0.271	0.269	0.264	0.261	0.279	6.82
50) TP Dibromomethane	0.125	0.140	0.139	0.134	0.130	0.132	0.133	4.12	
51) TP 1,2-Dichloropropane	0.267	0.310	0.310	0.303	0.295	0.295	0.297	5.36	
53) TP 2-Chloroethyl vinyl ether	0.091	0.121	0.145	0.146	0.144	0.148	0.132	17.13	
54) TP Bromodichloromethane	0.332	0.364	0.350	0.337	0.335	0.336	0.342	3.57	
57) TP 1,4-Dioxane	0.001	0.001	0.002	0.001	0.001	0.001	0.001#	7.01	
58) TP cis-1,3-Dichloropropene	0.338	0.347	0.416	0.423	0.421	0.416	0.417	0.397	9.44
59) I Chlorobenzene-d5	-----ISTD-----								
60) S Toluene-d8	1.289	1.317	1.316	1.324	1.332	1.346	1.330	1.322	1.33
61) TP Toluene	0.767	0.880	0.872	0.871	0.864	0.844	0.850	4.96	
62) TP 4-Methyl-2-pentanone	0.083	0.092	0.092	0.088	0.089	0.089	0.089	4.21	
63) TP Tetrachloroethene	0.294	0.293	0.382	0.385	0.407	0.395	0.386	0.363	13.33
65) TP trans-1,3-Dichloropropene	0.312	0.374	0.422	0.467	0.473	0.462	0.455	0.424	14.23
67) TP Ethyl methacrylate	0.311	0.302	0.323	0.308	0.293	0.293	0.305	3.80	
68) TP 1,1,2-Trichloroethane	0.187	0.205	0.214	0.213	0.206	0.204	0.205	4.89	
69) TP Chlorodibromomethane	0.267	0.299	0.316	0.323	0.320	0.318	0.307	6.92	
70) TP 1,3-Dichloropropane	0.376	0.436	0.465	0.463	0.444	0.439	0.437	7.43	
71) TP 1,2-Dibromoethane	0.193	0.229	0.256	0.257	0.249	0.247	0.239	10.24	
72) TP 2-Hexanone	0.139	0.157	0.146	0.140	0.143	0.145	5.06		
73) TP Chlorobenzene	0.890	0.975	0.975	0.961	0.944	0.927	0.946	3.47	
74) TP Ethylbenzene	1.522	1.740	1.692	1.676	1.626	1.595	1.642	4.73	
75) TP 1,1,1,2-Tetrachloroethane	0.284	0.314	0.333	0.339	0.338	0.328	0.323	6.52	
76) TP p/m Xylene	0.579	0.686	0.673	0.650	0.611	0.585	0.631	7.24	
77) TP o Xylene	0.599	0.668	0.645	0.624	0.590	0.566	0.616	6.11	
78) TP Styrene	0.969	1.077	1.055	1.020	0.963	0.917	1.000	6.11	
79) I 1,4-Dichlorobenzene-d4	-----ISTD-----								
80) TP Bromoform	0.247	0.292	0.337	0.347	0.345	0.352	0.320	13.11	
82) TP Isopropylbenzene	2.525	3.023	3.096	3.187	3.118	3.394	3.057	9.48	
83) S 4-Bromofluorobenzene	0.888	0.903	0.899	0.923	0.924	0.930	0.962	0.918	2.71
84) TP Bromobenzene	0.588	0.675	0.697	0.694	0.691	0.711	0.676	6.59	



Initial Calibration Summary

Form 6

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA105
 Calibration dates : 06/06/25 15:21 06/06/25 19:12

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22348

Calibration Files

L11 =V05250606A03.D L1 =V05250606A04.D L2 =V05250606A06.D L3 =V05250606A08.D L4 =V05250606A09.D
 L8 =V05250606A11.D L10 =V05250606A12.D

Compound	L11	L1	L2	L3	L4	L8	L10	Avg	%RSD
85) TP n-Propylbenzene		2.988	3.493	3.539	3.650	3.595	3.641	3.484	7.19
86) TP 1,4-Dichlorobutane		0.946	0.968	0.985	0.972	0.951	0.985	0.968	1.71
87) TP 1,1,2,2-Tetrachloroethane	0.483	0.488	0.487	0.525	0.525	0.514	0.535	0.508	4.28
88) TP 4-Ethyltoluene		2.535	2.973	3.040	3.067	2.983	2.983	2.930	6.73
89) TP 2-Chlorotoluene		1.894	2.085	2.063	2.136	2.036	2.079	2.049	4.04
90) TP 1,3,5-Trimethylbenzene		2.263	2.580	2.612	2.623	2.556	2.546	2.530	5.31
91) TP 1,2,3-Trichloropropane		0.353	0.393	0.417	0.416	0.405	0.416	0.400	6.25
92) TP trans-1,4-Dichloro-2-b...		0.143	0.166	0.188	0.188	0.176	0.185	0.174	10.05
93) TP 4-Chlorotoluene		2.076	2.135	2.172	2.170	2.164	2.172	2.148	1.78
94) TP tert-Butylbenzene		1.802	2.080	2.155	2.222	2.174	2.215	2.108	7.52
97) TP 1,2,4-Trimethylbenzene		2.226	2.523	2.591	2.566	2.533	2.509	2.491	5.35
98) TP sec-Butylbenzene		2.498	3.072	3.117	3.276	3.192	3.233	3.065	9.37
99) TP p-Isopropyltoluene		2.143	2.622	2.728	2.797	2.725	2.726	2.624	9.22
100) TP 1,3-Dichlorobenzene		1.192	1.348	1.371	1.380	1.354	1.350	1.332	5.26
101) TP 1,4-Dichlorobenzene		1.278	1.394	1.405	1.381	1.360	1.342	1.360	3.41
102) TP p-Diethylbenzene		1.217	1.515	1.603	1.645	1.613	1.620	1.536	10.57
103) TP n-Butylbenzene		1.748	2.134	2.197	2.296	2.248	2.279	2.150	9.57
104) TP 1,2-Dichlorobenzene		1.088	1.235	1.249	1.237	1.210	1.207	1.204	4.92
105) TP 1,2,4,5-Tetramethylben...		1.941	2.253	2.395	2.461	2.439	2.411	2.317	8.54
106) TP 1,2-Dibromo-3-chloropr...		0.056	0.075	0.080	0.081	0.080	0.082	0.076	13.09
107) TP 1,3,5-Trichlorobenzene		0.761	0.880	0.935	0.943	0.923	0.910	0.892	7.61
108) TP Hexachlorobutadiene		0.233	0.310	0.330	0.346	0.345	0.356	0.320	14.24
109) TP 1,2,4-Trichlorobenzene		0.640	0.755	0.811	0.815	0.787	0.780	0.765	8.49
110) TP Naphthalene		1.518	1.629	1.748	1.708	1.610	1.630	1.641	4.90
111) TP 1,2,3-Trichlorobenzene		0.577	0.632	0.690	0.675	0.649	0.650	0.645	6.10



Initial Calibration Summary

Form 6

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA108
 Calibration dates : 06/11/25 04:08 06/11/25 07:49

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22356

Calibration Files

L11 =V08250611A04.d L1 =V08250611A06.d L2 =V08250611A08.d L3 =V08250611A10.d L4 =V08250611A11.d
 L6 =V08250611A12.d L8 =V08250611A13.d L10 =V08250611A14.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----									
2) TP Dichlorodifluoromethane		0.170	0.268	0.277	0.249	0.268	0.272	0.248	0.250	14.80
3) TP Chloromethane		0.230	0.287	0.274	0.257	0.261	0.266	0.247	0.260	7.12
4) TP Vinyl chloride	0.337	0.254	0.348	0.358	0.303	0.312	0.306	0.267	0.311	11.89
5) TP Bromomethane		0.152	0.226	0.230	0.224	0.241	0.250	0.246	0.224	14.89
6) TP Chloroethane		0.206	0.277	0.252	0.226	0.224	0.217	0.165	0.224	15.62
7) TP Trichlorofluoromethane		0.588	0.785	0.830	0.724	0.751	0.746	0.683	0.730	10.62
8) TP Ethyl ether		0.210	0.210	0.199	0.194	0.188	0.186	0.169	0.194	7.54
10) TP 1,1-Dichloroethene		0.284	0.373	0.322	0.334	0.356	0.358	0.334	0.337	8.63
11) TP Carbon disulfide		0.808	1.151	0.878	0.948	1.126	1.135	1.063	1.015	13.57
12) TP Freon-113		0.244	0.357	0.268	0.304	0.384	0.391	0.370	0.331	17.78
14) TP Acrolein			0.017	0.027	0.025	0.024	0.025	0.024	0.024	14.85
15) TP Methylene chloride		0.402	0.289	0.280	0.251	0.250	0.255	0.241	0.281	19.91
17) TP Acetone			0.067	0.052	0.045	0.047	0.047	0.043	0.050	17.77
18) TP trans-1,2-Dichloroethene		0.207	0.264	0.253	0.251	0.263	0.269	0.258	0.252	8.39
19) TP Methyl acetate			0.140	0.119	0.117	0.121	0.121	0.113	0.122	7.59
20) TP Methyl tert-butyl ether		0.539	0.604	0.617	0.618	0.639	0.642	0.606	0.609	5.63
21) TP tert-Butyl alcohol			0.013	0.012	0.012	0.012	0.012	0.011	0.012	5.96
22) TP Diisopropyl ether		0.647	0.784	0.836	0.863	0.890	0.898	0.849	0.824	10.53
23) TP 1,1-Dichloroethane		0.374	0.507	0.489	0.464	0.472	0.467	0.443	0.459	9.30
24) TP Halothane		0.156	0.216	0.225	0.210	0.217	0.222	0.214	0.209	11.41
25) TP Acrylonitrile			0.059	0.065	0.055	0.056	0.056	0.051	0.057	8.21
26) TP Ethyl tert-butyl ether		0.497	0.594	0.618	0.667	0.711	0.730	0.713	0.647	12.90
27) TP Vinyl acetate		0.336	0.413	0.456	0.509	0.540	0.537	0.527	0.474	16.20
28) TP cis-1,2-Dichloroethene		0.239	0.292	0.305	0.299	0.297	0.301	0.286	0.289	7.82
29) TP 2,2-Dichloropropane		0.274	0.335	0.345	0.353	0.371	0.378	0.361	0.346	10.07
30) TP Bromochloromethane		0.160	0.170	0.163	0.161	0.168	0.173	0.173	0.167	3.22
31) TP Cyclohexane		0.248	0.352	0.394	0.383	0.416	0.420	0.406	0.374	16.07
32) TP Chloroform		0.553	0.572	0.521	0.504	0.492	0.490	0.470	0.515	7.10
33) TP Ethyl acetate		0.188	0.170	0.188	0.187	0.191	0.190	0.173	0.184	4.67
34) TP Carbon tetrachloride	0.357	0.281	0.477	0.427	0.430	0.456	0.472	0.452	0.419	16.05
35) TP Tetrahydrofuran			0.060	0.061	0.060	0.055	0.057	0.052	0.058	6.10
36) S Dibromofluoromethane	0.331	0.342	0.339	0.313	0.317	0.315	0.310	0.309	0.322	4.10
37) TP 1,1,1-Trichloroethane		0.311	0.446	0.460	0.435	0.452	0.458	0.436	0.428	12.33
39) TP 2-Butanone			0.087	0.073	0.070	0.077	0.073	0.071	0.075	8.40
40) TP 1,1-Dichloropropene		0.245	0.326	0.333	0.330	0.345	0.347	0.329	0.322	10.83



Initial Calibration Summary

Form 6

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA108
 Calibration dates : 06/11/25 04:08 06/11/25 07:49

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22356

Calibration Files

L11 =V08250611A04.d L1 =V08250611A06.d L2 =V08250611A08.d L3 =V08250611A10.d L4 =V08250611A11.d
 L6 =V08250611A12.d L8 =V08250611A13.d L10 =V08250611A14.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
41) TP Benzene	0.939	0.898	1.046	1.071	1.048	1.057	1.036	1.041	1.017	6.14
42) TP tert-Amyl methyl ether		0.446	0.512	0.567	0.592	0.622	0.643	0.627	0.573	12.45
43) S 1,2-Dichloroethane-d4	0.316	0.313	0.311	0.306	0.296	0.304	0.300	0.316	0.308	2.41
44) TP 1,2-Dichloroethane	0.356	0.306	0.324	0.323	0.300	0.308	0.307	0.295	0.315	6.19
47) TP Methyl cyclohexane			0.308	0.355	0.352	0.409	0.426	0.436	0.381	13.26
48) TP Trichloroethene	0.289	0.218	0.251	0.276	0.270	0.292	0.317	0.330	0.280	12.75
50) TP Dibromomethane		0.148	0.156	0.163	0.154	0.156	0.161	0.155	0.156	3.18
51) TP 1,2-Dichloropropane		0.203	0.238	0.250	0.255	0.253	0.254	0.239	0.242	7.69
53) TP 2-Chloroethyl vinyl ether			0.094	0.108	0.117	0.126	0.129	0.116	0.115	11.06
54) TP Bromodichloromethane		0.324	0.341	0.363	0.366	0.380	0.382	0.367	0.360	5.79
57) TP 1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	6.33
58) TP cis-1,3-Dichloropropene	0.264	0.295	0.330	0.376	0.395	0.415	0.426	0.401	0.363	16.42
59) I Chlorobenzene-d5	-----ISTD-----									
60) S Toluene-d8	1.253	1.276	1.268	1.287	1.266	1.174	1.177	1.076	1.222	6.02
61) TP Toluene		0.609	0.780	0.816	0.771	0.770	0.837	0.759	0.763	9.64
62) TP 4-Methyl-2-pentanone		0.040	0.054	0.066	0.071	0.071	0.072	0.064	0.063	18.89
63) TP Tetrachloroethene	0.369	0.281	0.335	0.376	0.361	0.363	0.401	0.385	0.359	10.26
65) TP trans-1,3-Dichloropropene	0.322	0.279	0.343	0.419	0.420	0.416	0.435	0.401	0.379	15.07
67) TP Ethyl methacrylate			0.210	0.289	0.313	0.303	0.322	0.288	0.288	13.94
68) TP 1,1,2-Trichloroethane		0.228	0.214	0.228	0.218	0.203	0.216	0.196	0.215	5.62
69) TP Chlorodibromomethane		0.317	0.311	0.365	0.373	0.366	0.393	0.359	0.355	8.46
70) TP 1,3-Dichloropropane		0.368	0.431	0.454	0.434	0.402	0.419	0.368	0.411	8.11
71) TP 1,2-Dibromoethane		0.194	0.236	0.264	0.242	0.231	0.245	0.222	0.233	9.29
72) TP 2-Hexanone			0.109	0.130	0.142	0.137	0.143	0.125	0.131	9.69
73) TP Chlorobenzene		0.869	0.907	0.980	0.947	0.960	1.051	0.960	0.954	6.01
74) TP Ethylbenzene		1.093	1.387	1.610	1.540	1.670	1.777	1.629	1.529	14.83
75) TP 1,1,1,2-Tetrachloroethane		0.251	0.322	0.375	0.375	0.397	0.425	0.396	0.363	16.12
76) TP p/m Xylene		0.409	0.557	0.637	0.642	0.725	0.795	0.787	*Q	0.9986
77) TP o Xylene		0.462	0.553	0.624	0.645	0.744	0.809	0.789	0.661	19.36
78) TP Styrene		0.654	0.842	1.029	1.110	1.258	1.365	1.269	*Q	0.9971
79) I 1,4-Dichlorobenzene-d4	-----ISTD-----									
80) TP Bromoform		0.277	0.307	0.362	0.378	0.438	0.472	0.429	0.380	18.76
82) TP Isopropylbenzene		2.080	2.461	2.715	2.577	2.828	3.060	2.783	2.644	11.83
83) S 4-Bromofluorobenzene	0.707	0.748	0.724	0.724	0.628	0.662	0.643	0.617	0.682	7.34
84) TP Bromobenzene		0.773	0.722	0.745	0.657	0.724	0.778	0.720	0.731	5.56
85) TP n-Propylbenzene		2.404	2.877	3.260	2.956	3.296	3.654	3.250	3.100	12.83



Initial Calibration Summary

Form 6

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA108
 Calibration dates : 06/11/25 04:08 06/11/25 07:49

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22356

Calibration Files

L11 =V08250611A04.d L1 =V08250611A06.d L2 =V08250611A08.d L3 =V08250611A10.d L4 =V08250611A11.d
 L6 =V08250611A12.d L8 =V08250611A13.d L10 =V08250611A14.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
86) TP 1,4-Dichlorobutane	0.695	0.658	0.707	0.629	0.655	0.674	0.594	0.659	5.88	
87) TP 1,1,2,2-Tetrachloroethane	0.470	0.570	0.553	0.553	0.480	0.476	0.493	0.408	0.500	10.93
88) TP 4-Ethyltoluene	1.972	2.394	2.696	2.523	2.717	2.971	2.732	2.572	12.45	
89) TP 2-Chlorotoluene	1.574	1.756	1.907	1.791	1.860	1.933	1.775	1.800	6.66	
90) TP 1,3,5-Trimethylbenzene	1.691	2.020	2.355	2.265	2.562	2.829	2.643	2.338	16.66	
91) TP 1,2,3-Trichloropropane	0.425	0.403	0.430	0.391	0.419	0.433	0.398	0.414	4.05	
92) TP trans-1,4-Dichloro-2-b...	0.131	0.127	0.115	0.121	0.123	0.106	0.120		7.34	
93) TP 4-Chlorotoluene	1.512	1.741	1.916	1.805	1.888	2.075	1.889	1.832	9.54	
94) TP tert-Butylbenzene	1.539	1.817	1.998	1.930	2.141	2.317	2.121	1.981	12.76	
97) TP 1,2,4-Trimethylbenzene	1.630	2.051	2.351	2.263	2.518	2.694	2.508	2.288	15.55	
98) TP sec-Butylbenzene	2.074	2.717	3.075	2.844	3.194	3.399	3.069	2.910	14.80	
99) TP p-Isopropyltoluene	1.514	2.183	2.641	2.552	2.841	3.081	2.836	*L	0.9976	
100) TP 1,3-Dichlorobenzene	1.313	1.391	1.470	1.443	1.542	1.627	1.545	1.476	7.16	
101) TP 1,4-Dichlorobenzene	1.426	1.440	1.484	1.448	1.515	1.652	1.556	1.503	5.32	
102) TP p-Diethylbenzene	1.250	1.514	1.470	1.671	1.822	1.726	1.575		13.10	
103) TP n-Butylbenzene	1.540	2.027	2.256	2.135	2.393	2.515	2.286	2.165	14.71	
104) TP 1,2-Dichlorobenzene	1.141	1.345	1.406	1.326	1.385	1.496	1.392	1.356	8.05	
105) TP 1,2,4,5-Tetramethylben...	1.862	2.450	2.472	2.801	3.129	2.855	2.595		16.97	
106) TP 1,2-Dibromo-3-chloropr...	0.042	0.066	0.086	0.083	0.085	0.086	0.075	*L	0.9958	
107) TP 1,3,5-Trichlorobenzene	0.840	0.939	1.025	0.961	1.069	1.169	1.144	1.021	11.49	
108) TP Hexachlorobutadiene	0.355	0.380	0.439	0.379	0.472	0.526	0.557	0.444	17.60	
109) TP 1,2,4-Trichlorobenzene	0.784	0.753	0.896	0.817	0.916	1.010	1.053	0.890	12.72	
110) TP Naphthalene	1.316	1.399	1.757	1.673	1.829	1.954	1.762	1.670	13.85	
111) TP 1,2,3-Trichlorobenzene	0.753	0.763	0.799	0.736	0.814	0.881	0.845	0.799	6.55	



Response Factor Report VOA105

Method Path : K:\VOA105\2025\250606AICAL\
 Method File : V105_250606A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Sat Jun 07 13:58:51 2025
 Response Via : Initial Calibration

Calibration Files

L11 =V05250606A03.D L1 =V05250606A04.D L2 =V05250606A06.D L3 =V05250606A08.D L4 =V05250606A09.D
 L8 =V05250606A11.D L10 =V05250606A12.D

Compound		L11	L1	L2	L3	L4	L8	L10	Avg	%RSD

1) I	Fluorobenzene	-----ISTD-----								
2) TP	Dichlorodifluo...	0.267	0.309	0.276	0.310	0.305	0.301	0.295	6.25	
3) TP	Chloromethane	0.337	0.401	0.373	0.387	0.397	0.398	0.382	6.39	
4) TP	Vinyl chloride	0.285	0.314	0.380	0.337	0.354	0.357	0.348	0.339	9.18
5) TP	Bromomethane	0.111	0.112	0.107	0.118	0.136	0.140	0.121	11.49	
6) TP	Chloroethane	0.187	0.185	0.163	0.168	0.154	0.132	0.165	12.44	
7) TP	Trichlorofluor...	0.267	0.345	0.315	0.347	0.316	0.304	0.316	9.34	
8) TP	Ethyl ether	0.111	0.113	0.115	0.111	0.106	0.107	0.110	3.25	
10) TP	1,1-Dichloroet...	0.250	0.227	0.191	0.200	0.195	0.193	0.210	11.38	
11) TP	Carbon disulfide	0.406	0.504	0.425	0.443	0.504	0.559	0.473	12.32	
12) TP	Freon-113	0.166	0.200	0.188	0.217	0.206	0.203	0.197	8.95	
13) TP	Iodomethane		0.208	0.238	0.275	0.306	0.303	0.266	15.93	
14) TP	Acrolein		0.030	0.026	0.023	0.021	0.022	0.025	15.34	
15) TP	Methylene chlo...	0.312	0.292	0.268	0.260	0.251	0.251	0.272	9.07	
17) TP	Acetone		0.083	0.057	0.048	0.044	0.045	*L	0.9993	
18) TP	trans-1,2-Dich...	0.243	0.287	0.267	0.264	0.257	0.253	0.262	5.80	
19) TP	Methyl acetate		0.089	0.113	0.112	0.116	0.109	0.108	10.01	
20) TP	Methyl tert-bu...	0.563	0.613	0.628	0.608	0.589	0.588	0.598	3.82	
21) TP	tert-Butyl alc...	0.013	0.015	0.017	0.015	0.014	0.015	0.015	9.09	
22) TP	Diisopropyl ether	0.960	0.962	0.992	0.997	0.968	0.963	0.974	1.69	
23) TP	1,1-Dichloroet...	0.539	0.601	0.562	0.551	0.532	0.523	0.551	5.05	
24) TP	Halothane	0.175	0.207	0.194	0.201	0.197	0.193	0.195	5.62	
25) TP	Acrylonitrile		0.074	0.076	0.071	0.068	0.070	0.072	4.47	
26) TP	Ethyl tert-but...	0.720	0.787	0.836	0.833	0.808	0.812	0.800	5.34	
27) TP	Vinyl acetate		0.257	0.225	0.177	0.174	0.175	0.202	18.56	
28) TP	cis-1,2-Dichlo...	0.286	0.320	0.295	0.287	0.279	0.276	0.291	5.52	
29) TP	2,2-Dichloropr...	0.386	0.451	0.406	0.409	0.391	0.384	0.404	6.17	
30) TP	Bromochloromet...	0.124	0.135	0.129	0.124	0.113	0.110	0.123	7.57	
31) TP	Cyclohexane	0.560	0.631	0.588	0.645	0.607	0.610	0.607	5.01	
32) TP	Chloroform	0.462	0.507	0.468	0.453	0.436	0.432	0.460	5.89	
33) TP	Ethyl acetate		0.162	0.189	0.181	0.173	0.180	0.177	5.79	

Response Factor Report VOA105

Method Path : K:\VOA105\2025\250606AICAL\
 Method File : V105_250606A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Sat Jun 07 13:58:51 2025
 Response Via : Initial Calibration

Calibration Files

L11 =V05250606A03.D L1 =V05250606A04.D L2 =V05250606A06.D L3 =V05250606A08.D L4 =V05250606A09.D
 L8 =V05250606A11.D L10 =V05250606A12.D

	Compound	L11	L1	L2	L3	L4	L8	L10	Avg	%RSD
34)	TP Carbon tetrach...	0.298	0.337	0.375	0.352	0.377	0.366	0.363	0.352	7.85
35)	TP Tetrahydrofuran		0.071	0.068	0.062	0.055	0.056	0.062		11.53
36)	S Dibromofluorom...	0.281	0.280	0.277	0.262	0.254	0.243	0.242	0.262	6.47
37)	TP 1,1,1-Trichlor...		0.366	0.436	0.399	0.411	0.396	0.391	0.400	5.79
39)	TP 2-Butanone		0.069	0.080	0.077	0.074	0.078	0.076		5.48
40)	TP 1,1-Dichloropr...		0.284	0.353	0.343	0.360	0.350	0.345	0.339	8.24
41)	TP Benzene	0.911	0.959	1.150	1.115	1.107	1.078	1.068	1.055	8.29
42)	TP tert-Amyl meth...		0.525	0.563	0.592	0.592	0.583	0.591	0.574	4.66
43)	S 1,2-Dichloroet...	0.319	0.320	0.318	0.318	0.289	0.280	0.287	0.304	6.01
44)	TP 1,2-Dichloroet...	0.320	0.335	0.360	0.348	0.333	0.317	0.316	0.333	5.03
47)	TP Methyl cyclohe...		0.321	0.402	0.434	0.490	0.474	0.484	0.434	14.94
48)	TP Trichloroethene	0.315	0.277	0.293	0.271	0.269	0.264	0.261	0.279	6.82
50)	TP Dibromomethane		0.125	0.140	0.139	0.134	0.130	0.132	0.133	4.12
51)	TP 1,2-Dichloropr...		0.267	0.310	0.310	0.303	0.295	0.295	0.297	5.36
53)	TP 2-Chloroethyl ...		0.091	0.121	0.145	0.146	0.144	0.148	0.132	17.13
54)	TP Bromodichlorom...		0.332	0.364	0.350	0.337	0.335	0.336	0.342	3.57
57)	TP 1,4-Dioxane		0.001	0.001	0.002	0.001	0.001	0.001	0.001#	7.01
58)	TP cis-1,3-Dichlo...	0.338	0.347	0.416	0.423	0.421	0.416	0.417	0.397	9.44
59)	I Chlorobenzene-d5	-----ISTD-----								
60)	S Toluene-d8	1.289	1.317	1.316	1.324	1.332	1.346	1.330	1.322	1.33
61)	TP Toluene		0.767	0.880	0.872	0.871	0.864	0.844	0.850	4.96
62)	TP 4-Methyl-2-pen...			0.083	0.092	0.092	0.088	0.089	0.089	4.21
63)	TP Tetrachloroethene	0.294	0.293	0.382	0.385	0.407	0.395	0.386	0.363	13.33
65)	TP trans-1,3-Dich...	0.312	0.374	0.422	0.467	0.473	0.462	0.455	0.424	14.23
67)	TP Ethyl methacry...		0.311	0.302	0.323	0.308	0.293	0.293	0.305	3.80
68)	TP 1,1,2-Trichlor...		0.187	0.205	0.214	0.213	0.206	0.204	0.205	4.89
69)	TP Chlorodibromom...		0.267	0.299	0.316	0.323	0.320	0.318	0.307	6.92
70)	TP 1,3-Dichloropr...		0.376	0.436	0.465	0.463	0.444	0.439	0.437	7.43
71)	TP 1,2-Dibromoethane		0.193	0.229	0.256	0.257	0.249	0.247	0.239	10.24
72)	TP 2-Hexanone			0.139	0.157	0.146	0.140	0.143	0.145	5.06
73)	TP Chlorobenzene		0.890	0.975	0.975	0.961	0.944	0.927	0.946	3.47

Response Factor Report VOA105

Method Path : K:\VOA105\2025\250606AICAL\
 Method File : V105_250606A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Sat Jun 07 13:58:51 2025
 Response Via : Initial Calibration

Calibration Files

L11 =V05250606A03.D L1 =V05250606A04.D L2 =V05250606A06.D L3 =V05250606A08.D L4 =V05250606A09.D
 L8 =V05250606A11.D L10 =V05250606A12.D

	Compound	L11	L1	L2	L3	L4	L8	L10	Avg	%RSD
74) TP	Ethylbenzene	1.522	1.740	1.692	1.676	1.626	1.595	1.642	4.73	
75) TP	1,1,1,2-Tetrac...	0.284	0.314	0.333	0.339	0.338	0.328	0.323	6.52	
76) TP	p/m Xylene	0.579	0.686	0.673	0.650	0.611	0.585	0.631	7.24	
77) TP	o Xylene	0.599	0.668	0.645	0.624	0.590	0.566	0.616	6.11	
78) TP	Styrene	0.969	1.077	1.055	1.020	0.963	0.917	1.000	6.11	
79) I	1,4-Dichlorobenzene-d4	-----ISTD-----								
80) TP	Bromoform	0.247	0.292	0.337	0.347	0.345	0.352	0.320	13.11	
82) TP	Isopropylbenzene	2.525	3.023	3.096	3.187	3.118	3.394	3.057	9.48	
83) S	4-Bromofluorob...	0.888	0.903	0.899	0.923	0.930	0.962	0.918	2.71	
84) TP	Bromobenzene	0.588	0.675	0.697	0.694	0.691	0.711	0.676	6.59	
85) TP	n-Propylbenzene	2.988	3.493	3.539	3.650	3.595	3.641	3.484	7.19	
86) TP	1,4-Dichlorobu...	0.946	0.968	0.985	0.972	0.951	0.985	0.968	1.71	
87) TP	1,1,2,2-Tetrac...	0.483	0.488	0.487	0.525	0.514	0.535	0.508	4.28	
88) TP	4-Ethyltoluene	2.535	2.973	3.040	3.067	2.983	2.983	2.930	6.73	
89) TP	2-Chlorotoluene	1.894	2.085	2.063	2.136	2.036	2.079	2.049	4.04	
90) TP	1,3,5-Trimethy...	2.263	2.580	2.612	2.623	2.556	2.546	2.530	5.31	
91) TP	1,2,3-Trichlor...	0.353	0.393	0.417	0.416	0.405	0.416	0.400	6.25	
92) TP	trans-1,4-Dich...	0.143	0.166	0.188	0.188	0.176	0.185	0.174	10.05	
93) TP	4-Chlorotoluene	2.076	2.135	2.172	2.170	2.164	2.172	2.148	1.78	
94) TP	tert-Butylbenzene	1.802	2.080	2.155	2.222	2.174	2.215	2.108	7.52	
97) TP	1,2,4-Trimethy...	2.226	2.523	2.591	2.566	2.533	2.509	2.491	5.35	
98) TP	sec-Butylbenzene	2.498	3.072	3.117	3.276	3.192	3.233	3.065	9.37	
99) TP	p-Isopropyltol...	2.143	2.622	2.728	2.797	2.725	2.726	2.624	9.22	
100) TP	1,3-Dichlorobe...	1.192	1.348	1.371	1.380	1.354	1.350	1.332	5.26	
101) TP	1,4-Dichlorobe...	1.278	1.394	1.405	1.381	1.360	1.342	1.360	3.41	
102) TP	p-Diethylbenzene	1.217	1.515	1.603	1.645	1.613	1.620	1.536	10.57	
103) TP	n-Butylbenzene	1.748	2.134	2.197	2.296	2.248	2.279	2.150	9.57	
104) TP	1,2-Dichlorobe...	1.088	1.235	1.249	1.237	1.210	1.207	1.204	4.92	
105) TP	1,2,4,5-Tetram...	1.941	2.253	2.395	2.461	2.439	2.411	2.317	8.54	
106) TP	1,2-Dibromo-3-...	0.056	0.075	0.080	0.081	0.080	0.082	0.076	13.09	
107) TP	1,3,5-Trichlor...	0.761	0.880	0.935	0.943	0.923	0.910	0.892	7.61	

Response Factor Report VOA105

Method Path : K:\VOA105\2025\250606AICAL\
 Method File : V105_250606A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Sat Jun 07 13:58:51 2025
 Response Via : Initial Calibration

Calibration Files

L11 =V05250606A03.D L1 =V05250606A04.D L2 =V05250606A06.D L3 =V05250606A08.D L4 =V05250606A09.D
 L8 =V05250606A11.D L10 =V05250606A12.D

	Compound	L11	L1	L2	L3	L4	L8	L10	Avg	%RSD
108) TP	Hexachlorobuta...	0.233	0.310	0.330	0.346	0.345	0.356	0.320	14.24	
109) TP	1,2,4-Trichlor...	0.640	0.755	0.811	0.815	0.787	0.780	0.765	8.49	
110) TP	Naphthalene	1.518	1.629	1.748	1.708	1.610	1.630	1.641	4.90	
111) TP	1,2,3-Trichlor...	0.577	0.632	0.690	0.675	0.649	0.650	0.645	6.10	

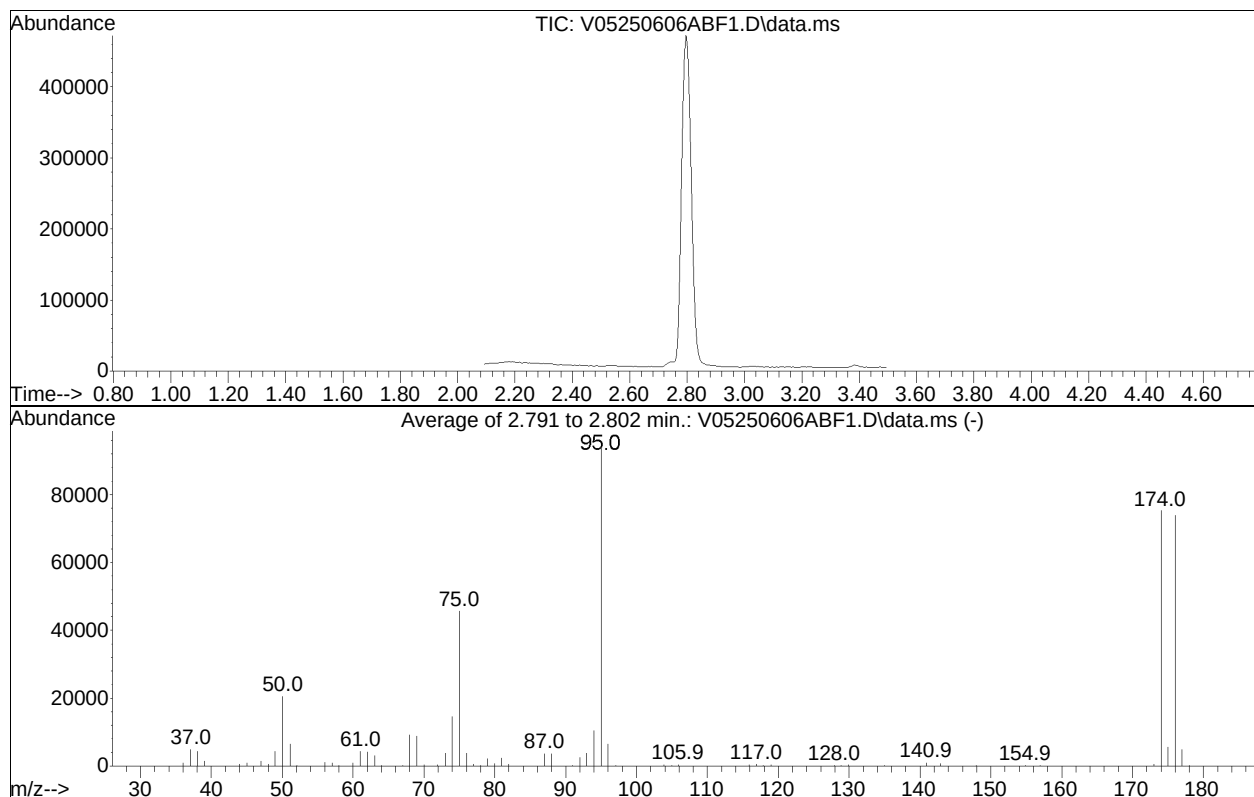
(#) = Out of Range

BFB

Data Path : K:\VOA105\2025\250606AICAL\
Data File : V05250606ABF1.D
Acq On : 6 Jun 2025 2:16 pm
Operator : VOA105:PID
Sample : WG2076082-1
Misc : WG2076082
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Sat Jun 07 13:58:51 2025



AutoFind: Scans 129, 130, 131; Background Corrected with Scan 120

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	20651	PASS
75	95	30	60	48.4	45595	PASS
95	95	100	100	100.0	94152	PASS
96	95	5	9	6.9	6511	PASS
173	174	0.00	2	0.7	563	PASS
174	95	50	100	80.2	75480	PASS
175	174	5	9	7.5	5637	PASS
176	174	95	101	97.8	73827	PASS
177	176	5	9	6.7	4936	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A03.D
 Acq On : 6 Jun 2025 3:21 pm
 Operator : VOA105:PID
 Sample : I8260STD0.19PPB
 Misc : WG2076082, ICAL (Sig #1); WG, ICAL (Sig #2)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 13:48:31 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-L11_NJnew - L11 new NJ

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.506	96	251438	10.000	ug/L	0.00
Standard Area 1 = 274650			Recovery	=	91.55%	
59) Chlorobenzene-d5	8.985	117	194284	10.000	ug/L	0.00
Standard Area 1 = 202809			Recovery	=	95.80%	
79) 1,4-Dichlorobenzene-d4	11.797	152	111992	10.000	ug/L	0.00
Standard Area 1 = 111529			Recovery	=	100.42%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.732	113	70680	10.795	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	107.95%	
43) 1,2-Dichloroethane-d4	5.238	65	80258	10.577	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	105.77%	
60) Toluene-d8	7.164	98	250505	9.739	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.39%	
83) 4-Bromofluorobenzene	10.531	95	99402	9.659	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	96.59%	
Target Compounds						
						Qvalue
4) Vinyl chloride	1.650	62	1362	0.159	ug/L	88
34) Carbon tetrachloride	4.677	117	1422	0.159	ug/L	91
41) Benzene	5.104	78	4353	0.163	ug/L	97
44) 1,2-Dichloroethane	5.316	62	1527	0.183	ug/L #	88
48) Trichloroethene	5.690	95	1503	0.216	ug/L #	78
58) cis-1,3-Dichloropropene	6.988	75	1615	0.161	ug/L #	87
63) Tetrachloroethene	7.658	166	1084	0.152	ug/L	83
65) trans-1,3-Dichloropropene	7.743	75	1151	0.138	ug/L	77
87) 1,1,2,2-Tetrachloroethane	10.807	83	1027	0.180	ug/L #	85

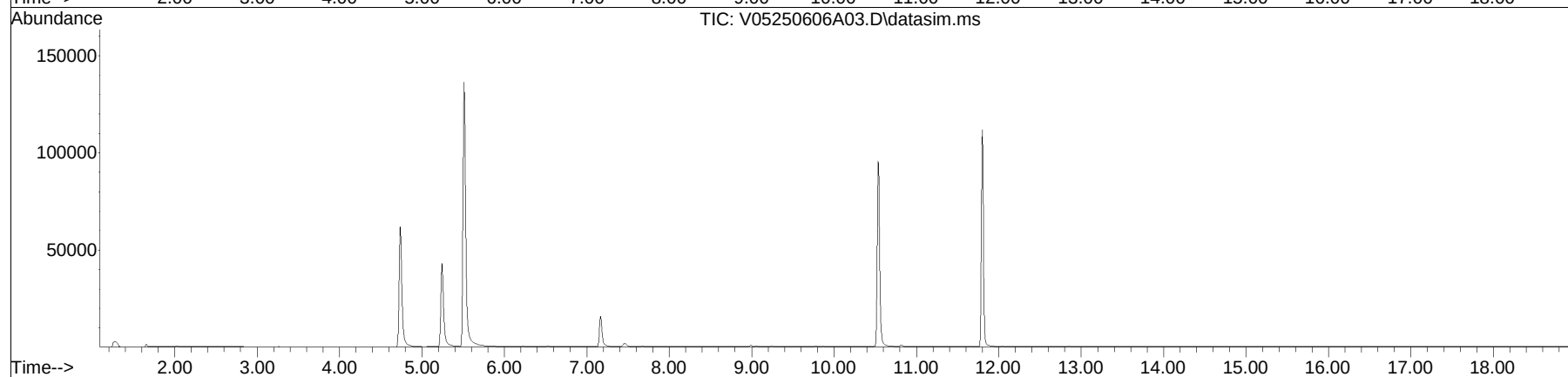
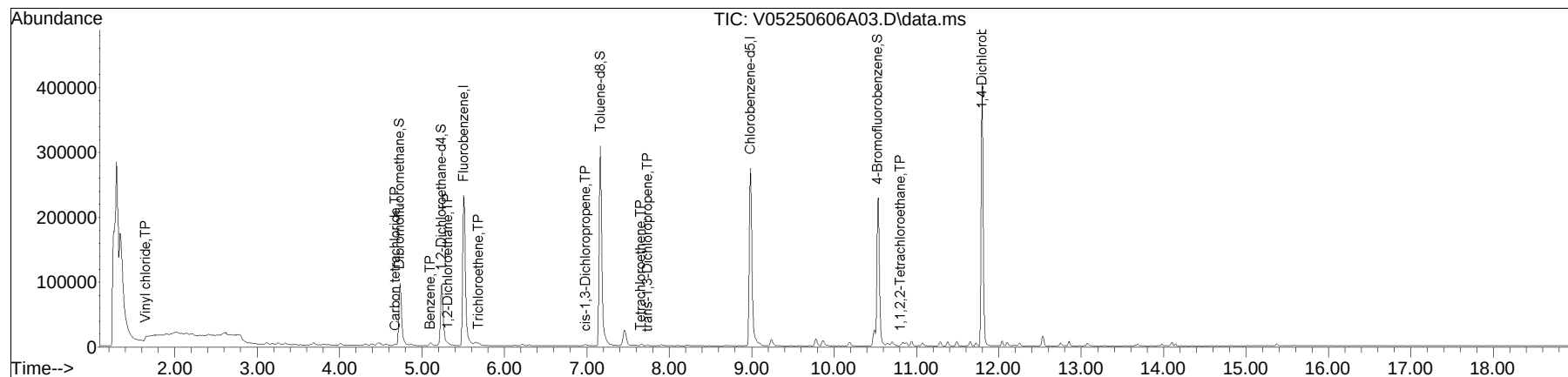
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A03.D
 Acq On : 6 Jun 2025 3:21 pm
 Operator : VOA105:PID
 Sample : I8260STD0.19PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 13:48:31 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

SOALLISTE(s) : 8260KL1\VOA105\2025\250606AICAL\V05250606A03.D•



Manual Integration Report

Data Path	: K:\VOA105\2025\250606AICALQ	Method	: V105_250606A_8260.m
Data File	: V05250606A03.D	Operator	: VOA105:PID
Date Inj'd	: 6/6/2025 3:21 pm	Instrument	: VOA105
Sample	: I8260STD0.19PPB	Quant Date	: 6/7/2025 1:48 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A04.D
 Acq On : 6 Jun 2025 3:47 pm
 Operator : VOA105:PID
 Sample : I8260STD0.5PPB
 Misc : WG2076082, ICAL (Sig #1); WG, ICAL (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 13:48:38 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.506	96	254420	10.000	ug/L	0.00
Standard Area 1 = 274650			Recovery	=	92.63%	
59) Chlorobenzene-d5	8.985	117	192374	10.000	ug/L	0.00
Standard Area 1 = 202809			Recovery	=	94.85%	
79) 1,4-Dichlorobenzene-d4	11.797	152	112836	10.000	ug/L	0.00
Standard Area 1 = 111529			Recovery	=	101.17%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.732	113	71145	10.739	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	107.39%	
43) 1,2-Dichloroethane-d4	5.238	65	81336	10.594	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	105.94%	
60) Toluene-d8	7.165	98	253288	9.945	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.45%	
83) 4-Bromofluorobenzene	10.531	95	101897	9.827	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.27%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.431	85	3400	0.451	ug/L	91
3) Chloromethane	1.595	50	4284	0.439	ug/L	97
4) Vinyl chloride	1.657	62	3994	0.461	ug/L	97
5) Bromomethane	1.925	94	1406	0.454	ug/L	82
6) Chloroethane	2.028	64	2379	0.570	ug/L	69
7) Trichlorofluoromethane	2.145	101	3397	0.420	ug/L	92
8) Ethyl ether	2.419	74	1408	0.503	ug/L #	79
10) 1,1-Dichloroethene	2.591	96	3182M4	0.603	ug/L	
11) Carbon disulfide	2.611	76	5163	0.432	ug/L	92
12) Freon-113	2.625	101	2112	0.418	ug/L	90
13) Iodomethane	2.714	142	1798	0.280	ug/L	97
14) Acrolein	0.000		0	N.D.	d	
15) Methylene chloride	3.119	84	3966	0.578	ug/L	87
17) Acetone	3.181	43	2859	1.442	ug/L	94
18) trans-1,2-Dichloroethene	3.257	96	3085	0.464	ug/L	99
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	3.346	73	7165	0.471	ug/L #	66
21) tert-Butyl alcohol	3.469	59	803	2.154	ug/L #	50
22) Diisopropyl ether	3.682	45	12210	0.492	ug/L	93
23) 1,1-Dichloroethane	3.812	63	6854	0.490	ug/L	99
24) Halothane	3.867	117	2224	0.448	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A04.D
 Acq On : 6 Jun 2025 3:47 pm
 Operator : VOA105:PID
 Sample : I8260STD0.5PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 13:48:38 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	0.000		0	N.D.	d	
26) Ethyl tert-butyl ether	4.018	59	9162	0.448	ug/L #	80
27) Vinyl acetate	0.000		0	N.D.	d	
28) cis-1,2-Dichloroethene	4.314	96	3634	0.494	ug/L	97
29) 2,2-Dichloropropane	4.389	77	4907	0.478	ug/L	95
30) Bromochloromethane	4.492	128	1575	0.508	ug/L	91
31) Cyclohexane	4.471	56	7123	0.459	ug/L	92
32) Chloroform	4.561	83	5883	0.506	ug/L	98
33) Ethyl acetate	0.000		0	N.D.	d	
34) Carbon tetrachloride	4.670	117	4290	0.475	ug/L	90
35) Tetrahydrofuran	0.000		0	N.D.	d	
37) 1,1,1-Trichloroethane	4.739	97	4657	0.457	ug/L	97
39) 2-Butanone	0.000		0	N.D.	d	
40) 1,1-Dichloropropene	4.870	75	3608	0.415	ug/L	94
41) Benzene	5.104	78	12195	0.452	ug/L	98
42) tert-Amyl methyl ether	5.210	73	6674	0.455	ug/L	97
44) 1,2-Dichloroethane	5.316	62	4257	0.505	ug/L	96
47) Methyl cyclohexane	5.655	83	4086	0.363	ug/L	98
48) Trichloroethene	5.683	95	3521M6	0.500	ug/L	
50) Dibromomethane	6.127	93	1595	0.471	ug/L	93
51) 1,2-Dichloropropane	6.219	63	3400	0.450	ug/L	95
53) 2-Chloroethyl vinyl ether	6.939	63	1155	0.338	ug/L #	61
54) Bromodichloromethane	6.297	83	4222	0.486	ug/L #	97
57) 1,4-Dioxane	6.508	88	3629	103.024	ug/L #	89
58) cis-1,3-Dichloropropene	6.974	75	4408	0.433	ug/L #	70
61) Toluene	7.228	92	7382	0.450	ug/L	94
62) 4-Methyl-2-pentanone	0.000		0	N.D.	d	
63) Tetrachloroethene	7.658	166	2818	0.398	ug/L	95
65) trans-1,3-Dichloropropene	7.729	75	3593	0.435	ug/L	99
67) Ethyl methacrylate	7.927	69	2992M6	0.512	ug/L	
68) 1,1,2-Trichloroethane	7.898	83	1794	0.454	ug/L	96
69) Chlorodibromomethane	8.103	129	2572	0.433	ug/L	96
70) 1,3-Dichloropropane	8.216	76	3615	0.429	ug/L	96
71) 1,2-Dibromoethane	8.371	107	1858	0.402	ug/L	96
72) 2-Hexanone	8.689	43	2316M6	0.763	ug/L	
73) Chlorobenzene	9.006	112	8565	0.471	ug/L #	82
74) Ethylbenzene	9.048	91	14637	0.463	ug/L	95
75) 1,1,1,2-Tetrachloroethane	9.091	131	2731	0.437	ug/L #	81
76) p/m Xylene	9.239	106	11136	0.919	ug/L	87
77) o Xylene	9.775	106	11527	0.976	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A04.D
 Acq On : 6 Jun 2025 3:47 pm
 Operator : VOA105:PID
 Sample : I8260STD0.5PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 13:48:38 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	9.860	104	18643	0.971	ug/L	99
80)	Bromoform	9.881	173	1392	0.381	ug/L	90
82)	Isopropylbenzene	10.185	105	14243	0.406	ug/L	97
84)	Bromobenzene	10.651	156	3318	0.433	ug/L	98
85)	n-Propylbenzene	10.701	91	16858	0.425	ug/L	97
86)	1,4-Dichlorobutane	10.729	55	5339	0.489	ug/L	98
87)	1,1,2,2-Tetrachloroethane	10.814	83	2754	0.479	ug/L #	90
88)	4-Ethyltoluene	10.835	105	14302	0.429	ug/L	98
89)	2-Chlorotoluene	10.871	91	10683M6	0.461	ug/L	
90)	1,3,5-Trimethylbenzene	10.941	105	12767	0.445	ug/L	99
91)	1,2,3-Trichloropropane	10.948	75	1990	0.440	ug/L	96
92)	trans-1,4-Dichloro-2-b...	11.019	53	808	0.412	ug/L #	76
93)	4-Chlorotoluene	11.069	91	11712	0.482	ug/L	92
94)	tert-Butylbenzene	11.288	119	10166	0.423	ug/L	97
97)	1,2,4-Trimethylbenzene	11.380	105	12559	0.444	ug/L	99
98)	sec-Butylbenzene	11.486	105	14096	0.403	ug/L	100
99)	p-Isopropyltoluene	11.649	119	12091	0.404	ug/L	97
100)	1,3-Dichlorobenzene	11.719	146	6723	0.445	ug/L	98
101)	1,4-Dichlorobenzene	11.811	146	7208M3	0.469	ug/L	
102)	p-Diethylbenzene	12.038	119	6865	0.391	ug/L	96
103)	n-Butylbenzene	12.101	91	9862	0.401	ug/L	95
104)	1,2-Dichlorobenzene	12.250	146	6140	0.450	ug/L	98
105)	1,2,4,5-Tetramethylben...	12.851	119	10953	0.414	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.049	155	316	0.367	ug/L #	71
107)	1,3,5-Trichlorobenzene	13.078	180	4295	0.423	ug/L	99
108)	Hexachlorobutadiene	13.651	225	1314	0.359	ug/L	90
109)	1,2,4-Trichlorobenzene	13.679	180	3611	0.415	ug/L	98
110)	Naphthalene	13.976	128	8566	0.462	ug/L	100
111)	1,2,3-Trichlorobenzene	14.146	180	3255	0.444	ug/L	98

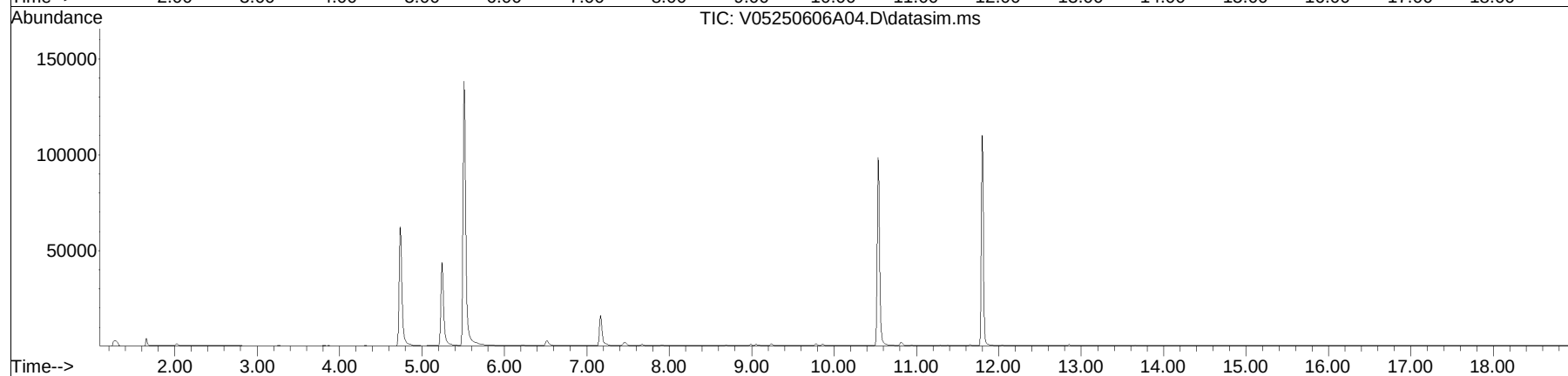
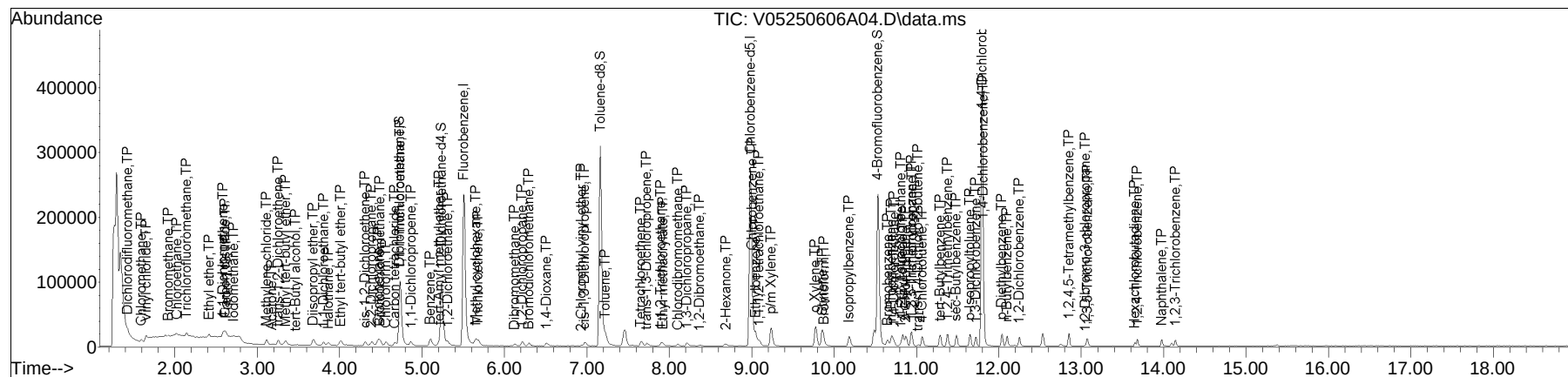
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A04.D
 Acq On : 6 Jun 2025 3:47 pm
 Operator : VOA105:PID
 Sample : I8260STD0.5PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 13:48:38 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

SOALLISTE(s) : 8260KCN\VOA105M2025\250606AICAL\VO5250606A08.D•



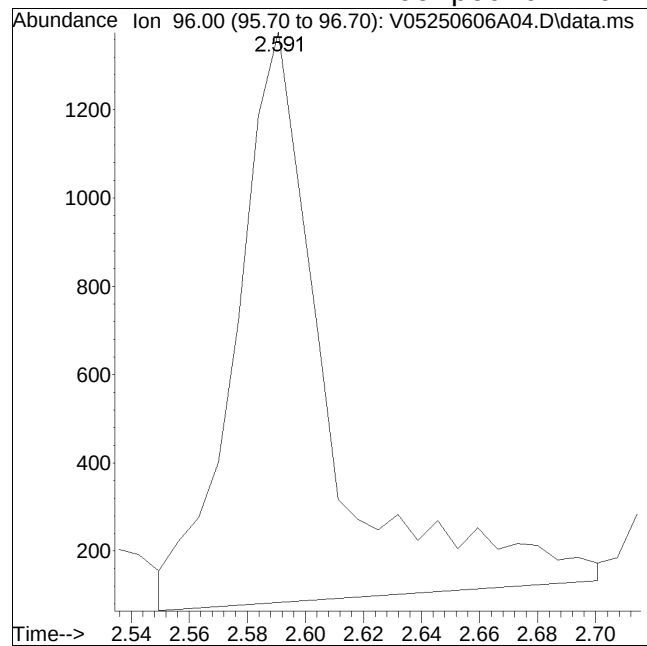
V105_250606A_8260.m Sat Jun 07 14:13:10 2025

Page: 4

Manual Integration Report

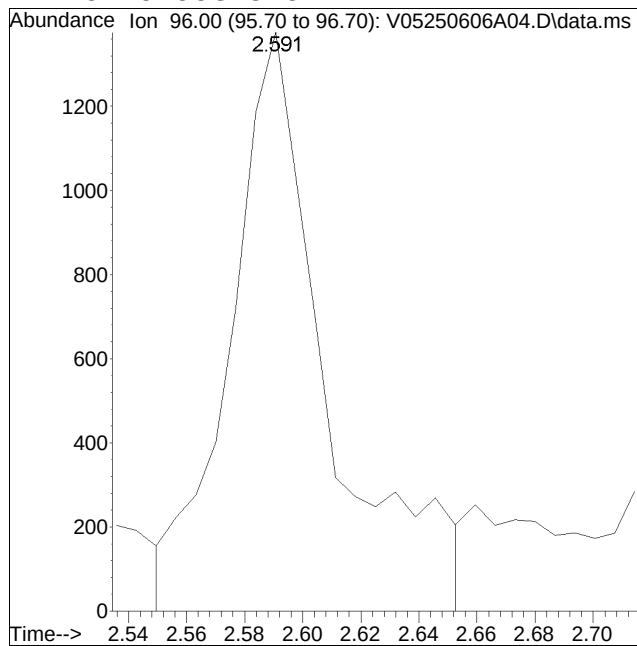
Data Path : K:\VOA105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A04.D Operator : VOA105:PID
Date Inj'd : 6/6/2025 3:47 pm Instrument : VOA105
Sample : I8260STD0.5PPB Quant Date : 6/7/2025 1:48 pm

Compound #10: 1,1-Dichloroethene



Original Peak Response = 2872

M4 = Poor automated baseline construction.

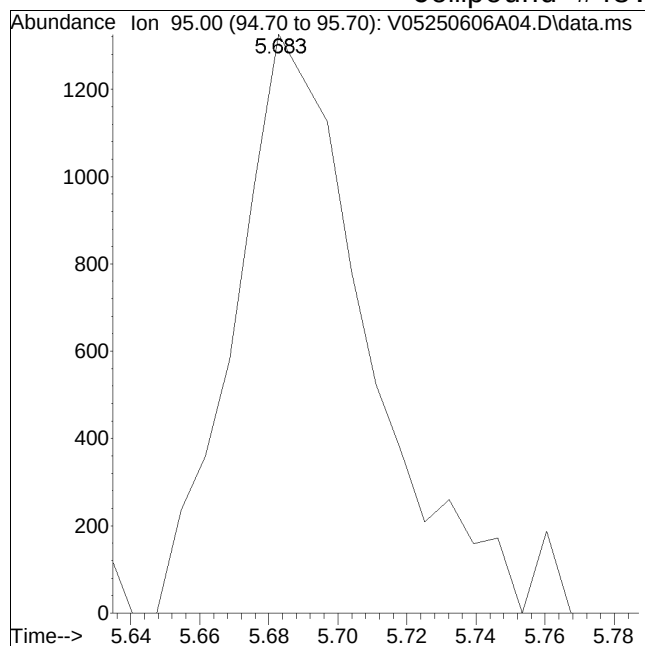


Manual Peak Response = 3182 M4

Manual Integration Report

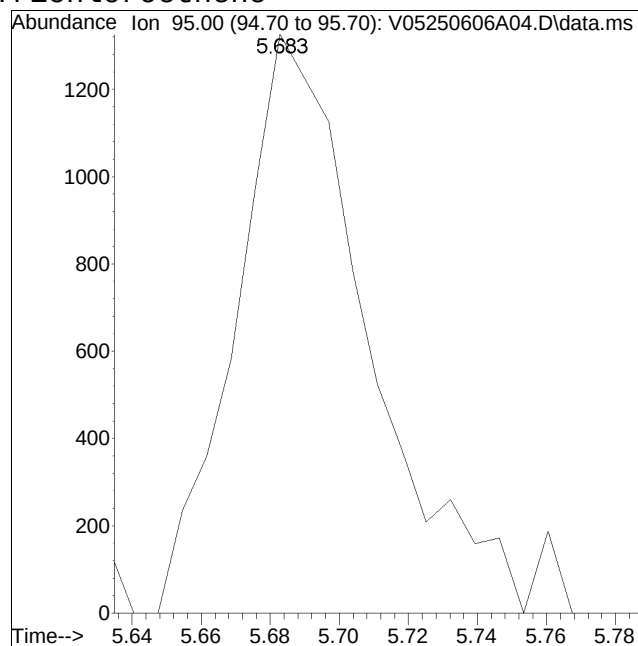
Data Path : K:\V0A105\2025\250606AICALQ Method : V105_250606A_8260.m
Data File : V05250606A04.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 3:47 pm Instrument : V0A105
Sample : I8260STD0.5PPB Quant Date : 6/7/2025 1:48 pm

Compound #48: Trichloroethene



Original Peak Response = 3600

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

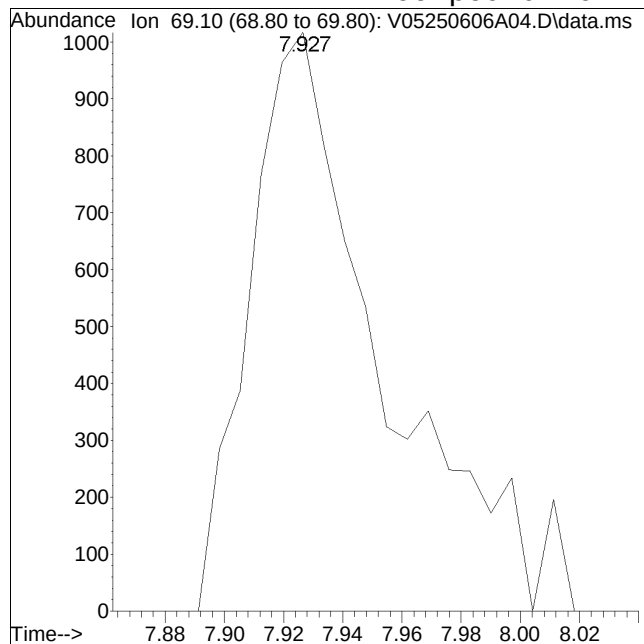


Manual Peak Response = 3521 M6

Manual Integration Report

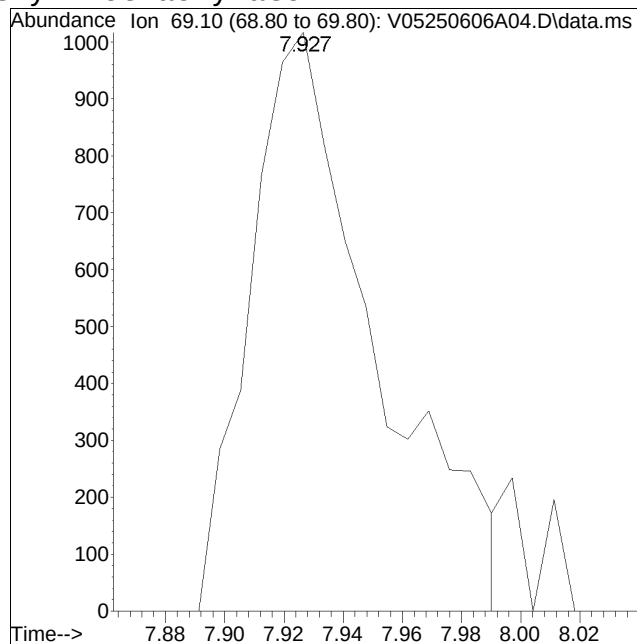
Data Path : K:\V0A105\2025\250606AICAL : V105_250606A_8260.m
Data File : V05250606A04.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 3:47 pm Instrument : V0A105
Sample : I8260STD0.5PPB Quant Date : 6/7/2025 1:48 pm

Compound #67: Ethyl methacrylate



Original Peak Response = 3175

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

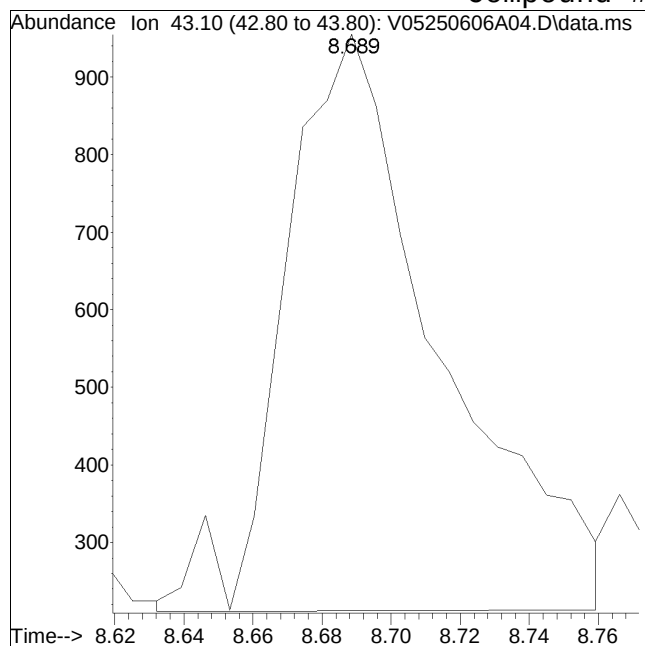


Manual Peak Response = 2992 M6

Manual Integration Report

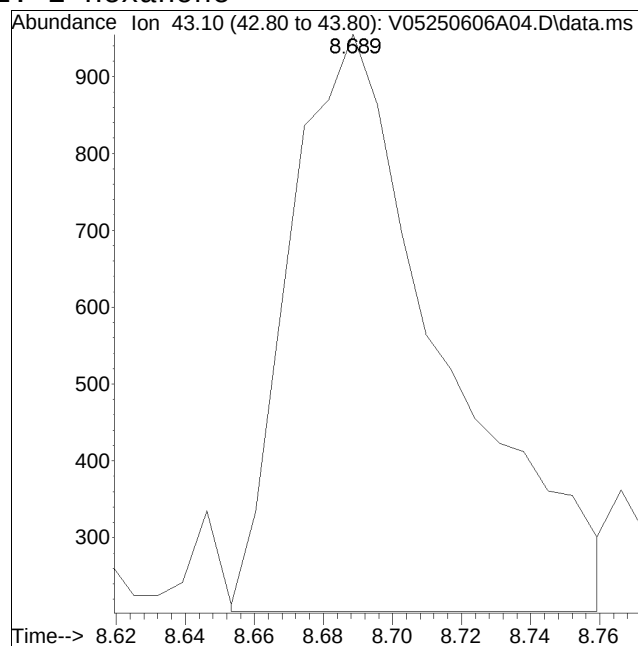
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A04.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 3:47 pm Instrument : V0A105
Sample : I8260STD0.5PPB Quant Date : 6/7/2025 1:48 pm

Compound #72: 2-Hexanone



Original Peak Response = 2331

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

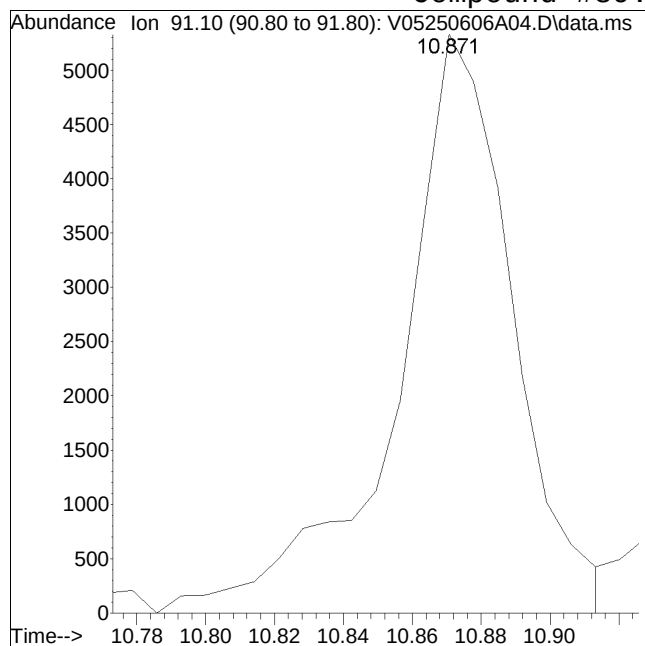


Manual Peak Response = 2316 M6

Manual Integration Report

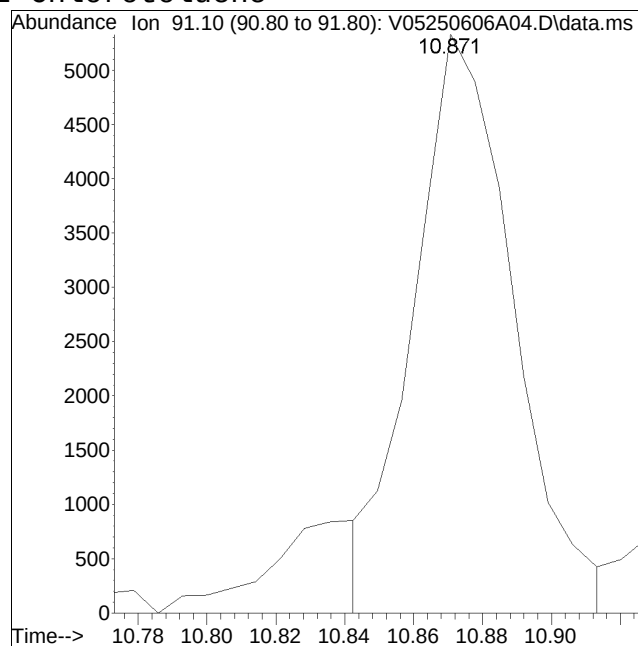
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A04.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 3:47 pm Instrument : V0A105
Sample : I8260STD0.5PPB Quant Date : 6/7/2025 1:48 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 12300

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

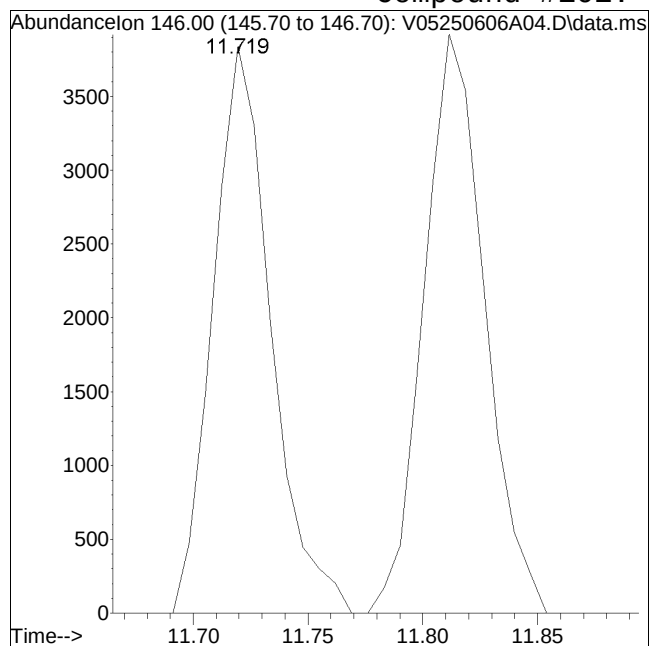


Manual Peak Response = 10683 M6

Manual Integration Report

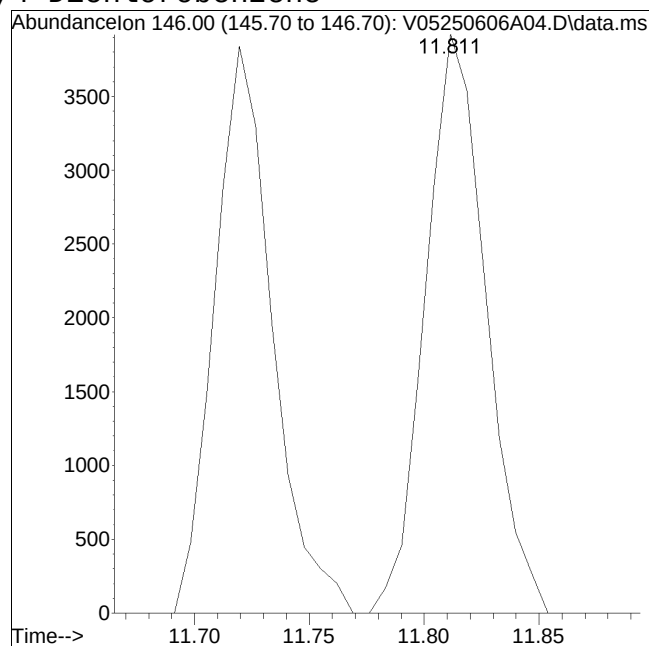
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A04.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 3:47 pm Instrument : V0A105
Sample : I8260STD0.5PPB Quant Date : 6/7/2025 1:48 pm

Compound #101: 1,4-Dichlorobenzene



Original Peak Response = 6723

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 Peak Response = 7208 M3

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A06.D
 Acq On : 6 Jun 2025 4:38 pm
 Operator : VOA105:PID
 Sample : I8260STD2.0PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 13:48:46 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.506	96	256885	10.000	ug/L	0.00
Standard Area 1 = 274650			Recovery	=	93.53%	
59) Chlorobenzene-d5	8.985	117	193671	10.000	ug/L	0.00
Standard Area 1 = 202809			Recovery	=	95.49%	
79) 1,4-Dichlorobenzene-d4	11.797	152	111074	10.000	ug/L	0.00
Standard Area 1 = 111529			Recovery	=	99.59%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.732	113	71044	10.620	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	106.20%	
43) 1,2-Dichloroethane-d4	5.238	65	81691	10.538	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	105.38%	
60) Toluene-d8	7.164	98	254929	9.943	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.43%	
83) 4-Bromofluorobenzene	10.531	95	99825	9.780	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.80%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.431	85	15876	2.085	ug/L	99
3) Chloromethane	1.595	50	20623	2.093	ug/L	100
4) Vinyl chloride	1.650	62	19508	2.228	ug/L	97
5) Bromomethane	1.925	94	5756	1.842	ug/L	89
6) Chloroethane	2.021	64	9517	2.258	ug/L	95
7) Trichlorofluoromethane	2.144	101	17720	2.168	ug/L	99
8) Ethyl ether	2.419	74	5827	2.061	ug/L	95
10) 1,1-Dichloroethene	2.591	96	11670	2.189	ug/L	93
11) Carbon disulfide	2.611	76	25871	2.145	ug/L	98
12) Freon-113	2.618	101	10278	2.014	ug/L	88
13) Iodomethane	2.714	142	10675	1.647	ug/L	100
14) Acrolein	2.920	56	1549	2.521	ug/L #	75
15) Methylene chloride	3.112	84	15013	2.166	ug/L	99
17) Acetone	3.188	43	4266	2.130	ug/L	91
18) trans-1,2-Dichloroethene	3.256	96	14754	2.198	ug/L	99
19) Methyl acetate	3.291	43	4562	1.637	ug/L #	93
20) Methyl tert-butyl ether	3.346	73	31487	2.050	ug/L	97
21) tert-Butyl alcohol	3.462	59	3814M6	10.132	ug/L	
22) Diisopropyl ether	3.682	45	49450	1.972	ug/L	99
23) 1,1-Dichloroethane	3.805	63	30865	2.186	ug/L	100
24) Halothane	3.867	117	10644	2.125	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A06.D
 Acq On : 6 Jun 2025 4:38 pm
 Operator : VOA105:PID
 Sample : I8260STD2.0PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 13:48:46 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	3.902	53	3793	2.078	ug/L	# 77
26) Ethyl tert-butyl ether	4.011	59	40457	1.961	ug/L	# 85
27) Vinyl acetate	4.059	43	13185M1	2.718	ug/L	
28) cis-1,2-Dichloroethene	4.307	96	16464	2.217	ug/L	94
29) 2,2-Dichloropropane	4.396	77	23151	2.234	ug/L	99
30) Bromochloromethane	4.499	128	6929	2.211	ug/L	94
31) Cyclohexane	4.471	56	32421	2.068	ug/L	97
32) Chloroform	4.567	83	26039	2.217	ug/L	99
33) Ethyl acetate	4.698	43	8314	1.833	ug/L	99
34) Carbon tetrachloride	4.670	117	19252	2.113	ug/L	99
35) Tetrahydrofuran	4.712	42	3657M6	2.327	ug/L	
37) 1,1,1-Trichloroethane	4.739	97	22408	2.179	ug/L	96
39) 2-Butanone	4.876	43	3553	1.835	ug/L	98
40) 1,1-Dichloropropene	4.863	75	18161	2.071	ug/L	99
41) Benzene	5.097	78	59103	2.171	ug/L	99
42) tert-Amyl methyl ether	5.210	73	28944	1.954	ug/L	99
44) 1,2-Dichloroethane	5.309	62	18494	2.172	ug/L	100
47) Methyl cyclohexane	5.654	83	20638	1.815	ug/L	89
48) Trichloroethene	5.683	95	15053	2.115	ug/L	94
50) Dibromomethane	6.127	93	7204	2.107	ug/L	99
51) 1,2-Dichloropropane	6.219	63	15924	2.087	ug/L	98
53) 2-Chloroethyl vinyl ether	6.924	63	6210	1.800	ug/L	97
54) Bromodichloromethane	6.297	83	18696	2.130	ug/L	99
57) 1,4-Dioxane	6.508	88	14844	417.365	ug/L	98
58) cis-1,3-Dichloropropene	6.974	75	21388	2.082	ug/L	95
61) Toluene	7.221	92	34095	2.066	ug/L	99
62) 4-Methyl-2-pentanone	7.672	58	3206	1.875	ug/L	98
63) Tetrachloroethene	7.658	166	14784	2.074	ug/L	99
65) trans-1,3-Dichloropropene	7.722	75	16363	1.970	ug/L	98
67) Ethyl methacrylate	7.912	69	11709	1.992	ug/L	99
68) 1,1,2-Trichloroethane	7.898	83	7952	2.001	ug/L	97
69) Chlorodibromomethane	8.103	129	11595	1.937	ug/L	100
70) 1,3-Dichloropropane	8.216	76	16874	1.987	ug/L	99
71) 1,2-Dibromoethane	8.371	107	8859	1.904	ug/L	100
72) 2-Hexanone	8.688	43	5402M4	1.767	ug/L	
73) Chlorobenzene	9.006	112	37761	2.061	ug/L	94
74) Ethylbenzene	9.048	91	67388	2.118	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.091	131	12149	1.929	ug/L	95
76) p/m Xylene	9.232	106	53178	4.357	ug/L	98
77) o Xylene	9.775	106	51743	4.352	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A06.D
 Acq On : 6 Jun 2025 4:38 pm
 Operator : VOA105:PID
 Sample : I8260STD2.0PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 13:48:46 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	9.853	104	83444	4.315	ug/L	100
80)	Bromoform	9.874	173	6496	1.804	ug/L	95
82)	Isopropylbenzene	10.184	105	67163	1.947	ug/L	99
84)	Bromobenzene	10.644	156	14993	1.986	ug/L	99
85)	n-Propylbenzene	10.701	91	77589	1.987	ug/L	98
86)	1,4-Dichlorobutane	10.729	55	21509	2.001	ug/L	97
87)	1,1,2,2-Tetrachloroethane	10.814	83	10811	1.912	ug/L	96
88)	4-Ethyltoluene	10.828	105	66055	2.014	ug/L	100
89)	2-Chlorotoluene	10.871	91	46311M6	2.031	ug/L	
90)	1,3,5-Trimethylbenzene	10.934	105	57320	2.029	ug/L	100
91)	1,2,3-Trichloropropane	10.948	75	8724	1.958	ug/L	98
92)	trans-1,4-Dichloro-2-b...	11.012	53	3684	1.906	ug/L	95
93)	4-Chlorotoluene	11.069	91	47419	1.983	ug/L	97
94)	tert-Butylbenzene	11.288	119	46201	1.954	ug/L	97
97)	1,2,4-Trimethylbenzene	11.373	105	56041	2.013	ug/L	99
98)	sec-Butylbenzene	11.486	105	68253	1.982	ug/L	99
99)	p-Isopropyltoluene	11.649	119	58240	1.976	ug/L	99
100)	1,3-Dichlorobenzene	11.712	146	29937	2.012	ug/L	99
101)	1,4-Dichlorobenzene	11.811	146	30970	2.046	ug/L	97
102)	p-Diethylbenzene	12.038	119	33653	1.947	ug/L	99
103)	n-Butylbenzene	12.094	91	47416	1.961	ug/L	98
104)	1,2-Dichlorobenzene	12.250	146	27428	2.040	ug/L	99
105)	1,2,4,5-Tetramethylben...	12.851	119	50045	1.921	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.049	155	1674	1.976	ug/L	99
107)	1,3,5-Trichlorobenzene	13.070	180	19559	1.955	ug/L	100
108)	Hexachlorobutadiene	13.650	225	6880	1.907	ug/L	99
109)	1,2,4-Trichlorobenzene	13.679	180	16763	1.956	ug/L	99
110)	Naphthalene	13.976	128	36190	1.983	ug/L	100
111)	1,2,3-Trichlorobenzene	14.138	180	14050	1.949	ug/L	100

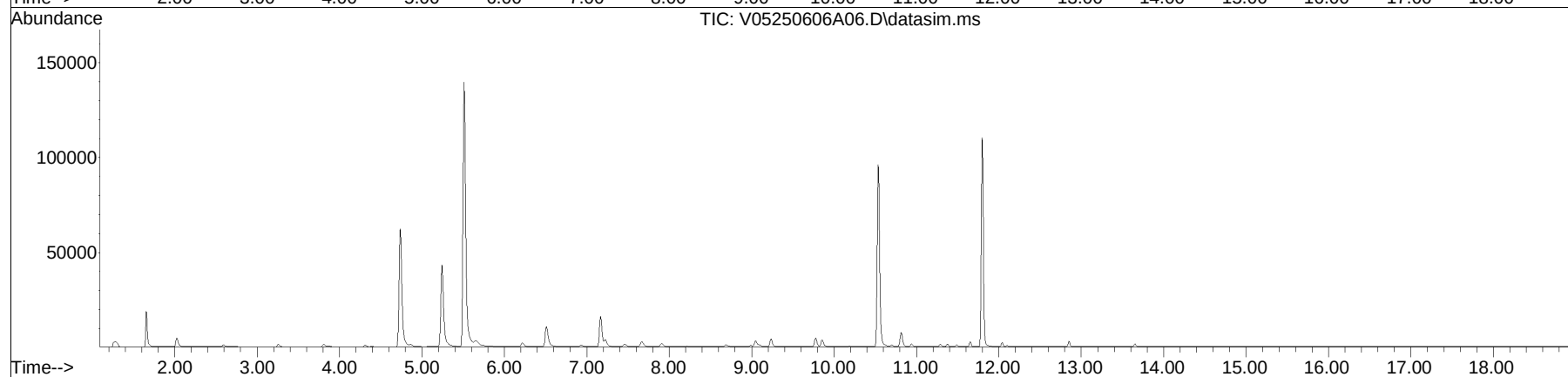
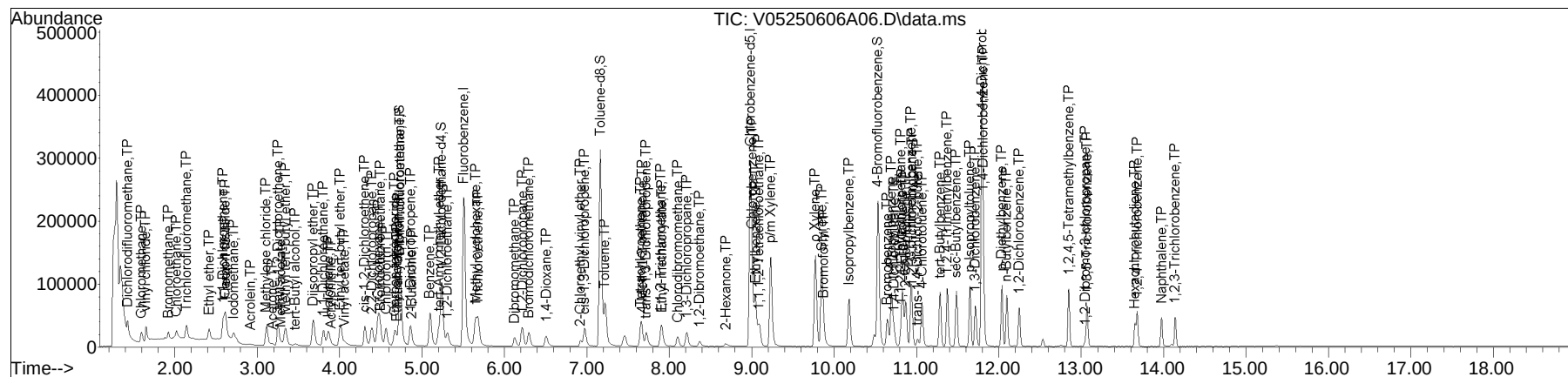
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A06.D
 Acq On : 6 Jun 2025 4:38 pm
 Operator : VOA105:PID
 Sample : I8260STD2.0PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 13:48:46 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\VO5250606A08.D•



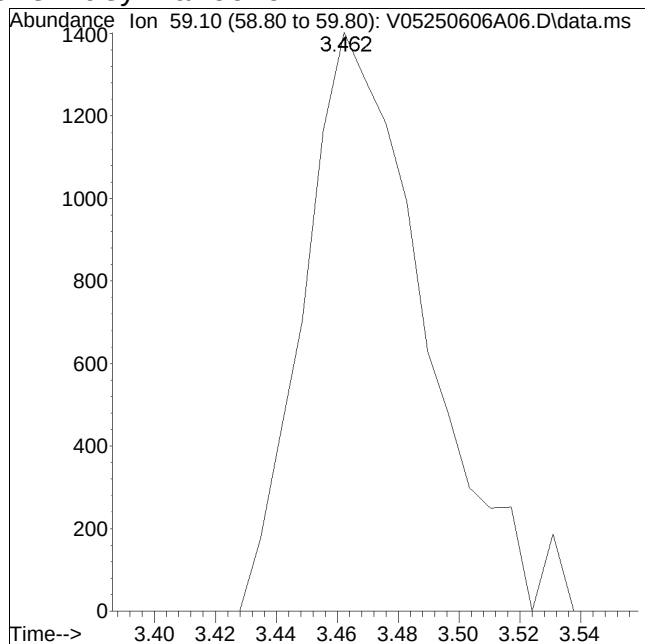
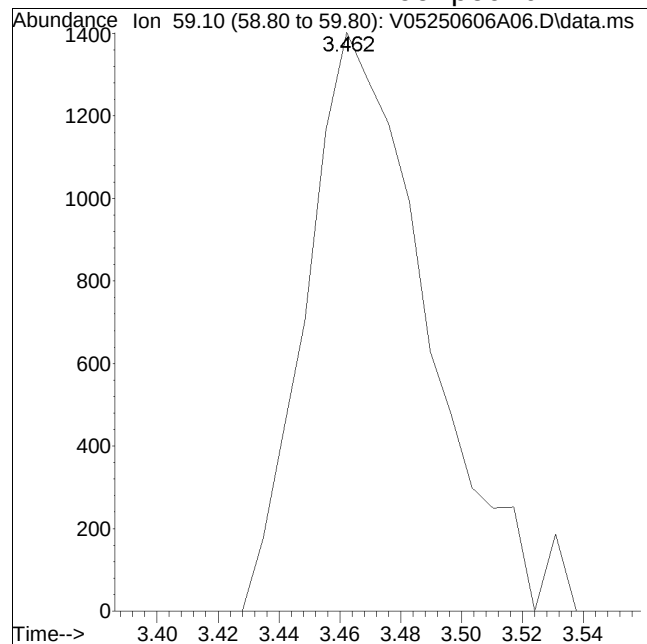
V105_250606A_8260.m Sat Jun 07 14:13:15 2025

Page: 4

Manual Integration Report

Data Path : K:\VOA105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A06.D Operator : VOA105:PID
Date Inj'd : 6/6/2025 4:38 pm Instrument : VOA105
Sample : I8260STD2.0PPB Quant Date : 6/7/2025 1:48 pm

Compound #21: tert-Butyl alcohol

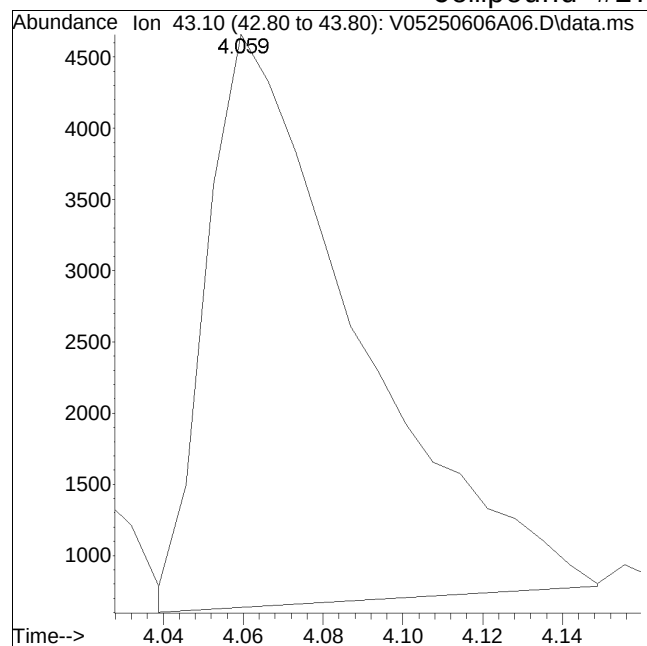


M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

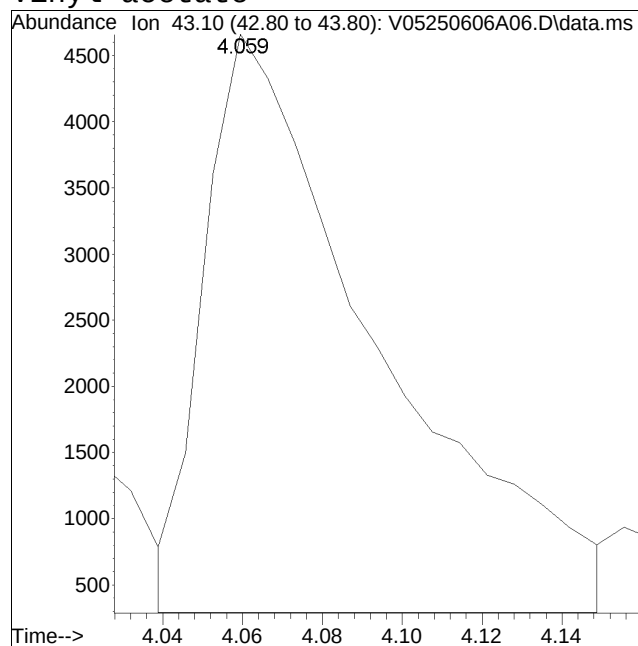
Data Path : K:\VOA105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A06.D Operator : VOA105:PID
Date Inj'd : 6/6/2025 4:38 pm Instrument : VOA105
Sample : I8260STD2.0PPB Quant Date : 6/7/2025 1:48 pm

Compound #27: Vinyl acetate



Original Peak Response = 10525

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

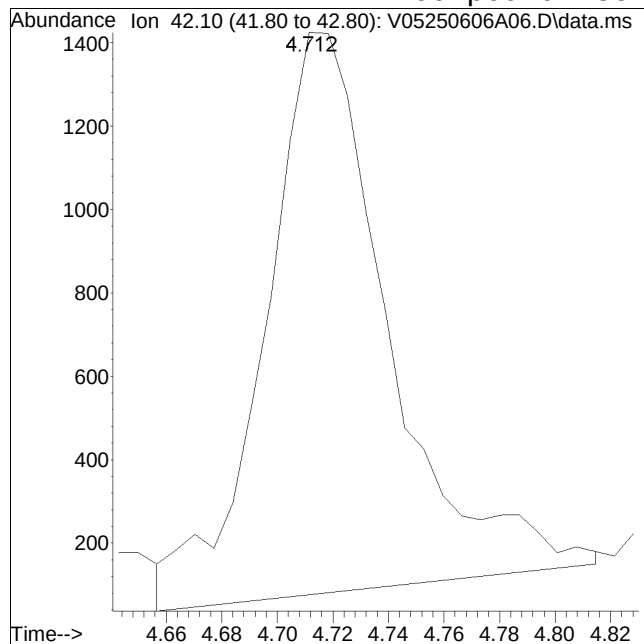


Manual Peak Response = 13185 M1

Manual Integration Report

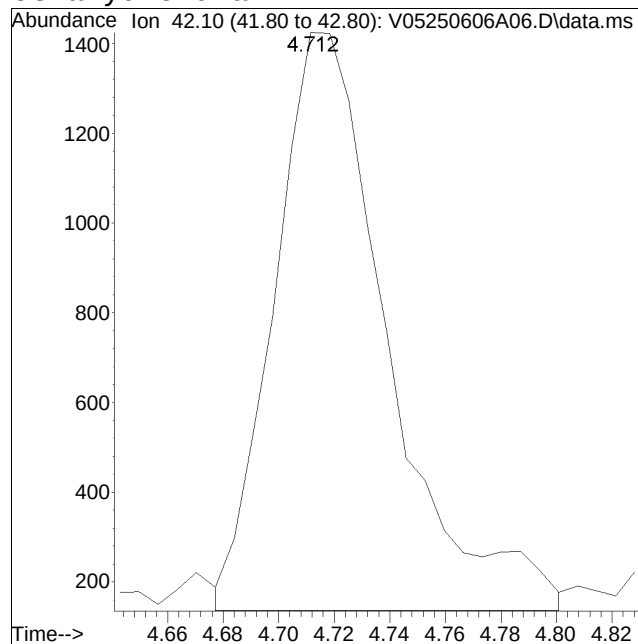
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A06.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 4:38 pm Instrument : V0A105
Sample : I8260STD2.0PPB Quant Date : 6/7/2025 1:48 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 4177

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

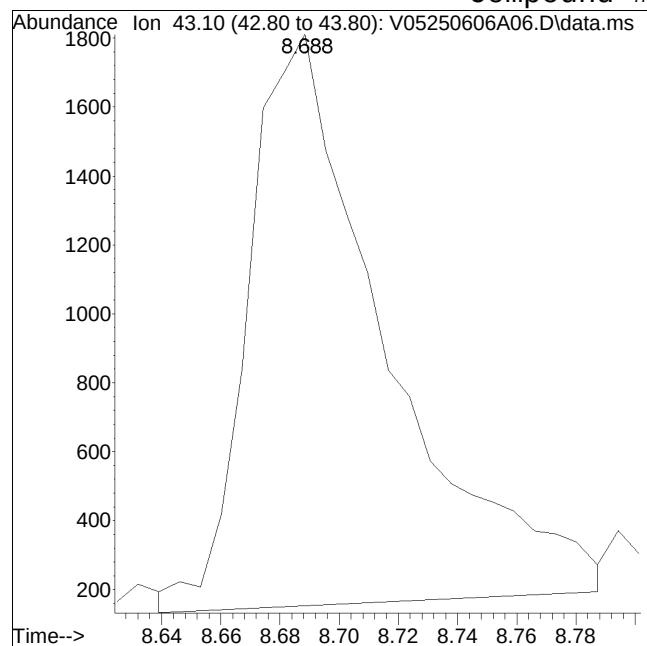


Manual Peak Response = 3657 M6

Manual Integration Report

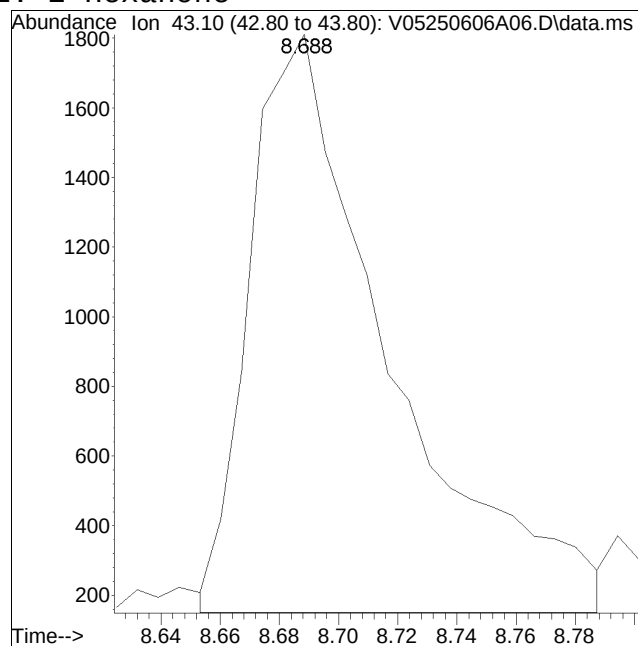
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A06.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 4:38 pm Instrument : V0A105
Sample : I8260STD2.0PPB Quant Date : 6/7/2025 1:48 pm

Compound #72: 2-Hexanone



Original Peak Response = 5346

M4 = Poor automated baseline construction.

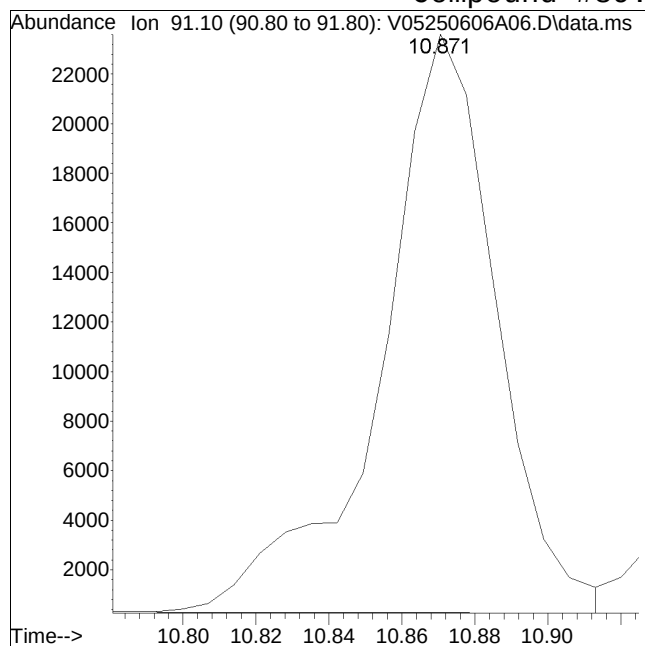


Manual Peak Response = 5402 M4

Manual Integration Report

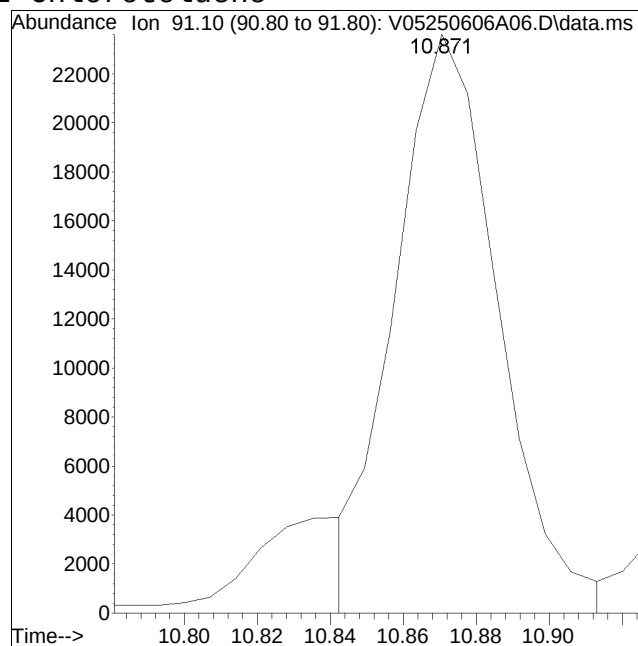
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A06.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 4:38 pm Instrument : V0A105
Sample : I8260STD2.0PPB Quant Date : 6/7/2025 1:48 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 51302

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



Manual Peak Response = 46311 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A08.D
 Acq On : 6 Jun 2025 5:29 pm
 Operator : VOA105:PID
 Sample : I8260STD10PPB
 Misc : WG2076082, ICAL (Sig #1); WG, ICAL (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 13:48:53 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.506	96	274650	10.000	ug/L	0.00
Standard Area 1 = 274650			Recovery	=	100.00%	
59) Chlorobenzene-d5	8.985	117	202809	10.000	ug/L	0.00
Standard Area 1 = 202809			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	11.797	152	111529	10.000	ug/L	0.00
Standard Area 1 = 111529			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.732	113	71838	10.044	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	100.44%	
43) 1,2-Dichloroethane-d4	5.238	65	87367	10.541	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	105.41%	
60) Toluene-d8	7.165	98	268504	10.000	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	100.00%	
83) 4-Bromofluorobenzene	10.531	95	102963	10.047	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	100.47%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.431	85	75782	9.311	ug/L	100
3) Chloromethane	1.602	50	102537	9.734	ug/L	100
4) Vinyl chloride	1.650	62	92504	9.881	ug/L	100
5) Bromomethane	1.925	94	29461	8.817	ug/L	100
6) Chloroethane	2.021	64	44661	9.909	ug/L	100
7) Trichlorofluoromethane	2.145	101	86544	9.905	ug/L	100
8) Ethyl ether	2.419	74	31614	10.457	ug/L	100
10) 1,1-Dichloroethene	2.591	96	52533	9.215	ug/L	100
11) Carbon disulfide	2.611	76	116744	9.054	ug/L	100
12) Freon-113	2.618	101	51746	9.485	ug/L	100
13) Iodomethane	2.721	142	65422	9.443	ug/L	100
14) Acrolein	2.900	56	7248	11.034	ug/L	100
15) Methylene chloride	3.112	84	73636	9.938	ug/L	100
17) Acetone	3.174	43	15556	7.266	ug/L	100
18) trans-1,2-Dichloroethene	3.250	96	73322	10.216	ug/L	100
19) Methyl acetate	3.277	43	30920	10.380	ug/L	100
20) Methyl tert-butyl ether	3.346	73	172550	10.508	ug/L	100
21) tert-Butyl alcohol	3.462	59	22837	56.742	ug/L	100
22) Diisopropyl ether	3.682	45	272372	10.159	ug/L	100
23) 1,1-Dichloroethane	3.806	63	154297	10.222	ug/L	100
24) Halothane	3.861	117	53379	9.965	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A08.D
 Acq On : 6 Jun 2025 5:29 pm
 Operator : VOA105:PID
 Sample : I8260STD10PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 13:48:53 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	3.874	53	20835	10.675	ug/L	100
26) Ethyl tert-butyl ether	4.012	59	229685	10.411	ug/L	100
27) Vinyl acetate	4.046	43	61736M6	11.902	ug/L	
28) cis-1,2-Dichloroethene	4.307	96	80913	10.191	ug/L	100
29) 2,2-Dichloropropane	4.396	77	111549	10.067	ug/L	100
30) Bromochloromethane	4.492	128	35541	10.609	ug/L	100
31) Cyclohexane	4.471	56	161545	9.636	ug/L	100
32) Chloroform	4.561	83	128401	10.223	ug/L	100
33) Ethyl acetate	4.677	43	52037	10.730	ug/L	100
34) Carbon tetrachloride	4.671	117	96677	9.925	ug/L	100
35) Tetrahydrofuran	4.712	42	18677M6	11.114	ug/L	
37) 1,1,1-Trichloroethane	4.739	97	109542	9.965	ug/L	100
39) 2-Butanone	4.856	43	21901	10.581	ug/L	100
40) 1,1-Dichloropropene	4.856	75	94232	10.050	ug/L	100
41) Benzene	5.097	78	306126	10.518	ug/L	100
42) tert-Amyl methyl ether	5.203	73	162727	10.273	ug/L	100
44) 1,2-Dichloroethane	5.309	62	95591	10.503	ug/L	100
47) Methyl cyclohexane	5.655	83	119244	9.810	ug/L	100
48) Trichloroethene	5.683	95	74491	9.789	ug/L	100
50) Dibromomethane	6.120	93	38052	10.412	ug/L	100
51) 1,2-Dichloropropane	6.212	63	85106	10.435	ug/L	100
53) 2-Chloroethyl vinyl ether	6.911	63	39719	10.770	ug/L	100
54) Bromodichloromethane	6.297	83	96114	10.240	ug/L	100
57) 1,4-Dioxane	6.508	88	21146	556.099	ug/L	100
58) cis-1,3-Dichloropropene	6.967	75	116223	10.580	ug/L	100
61) Toluene	7.221	92	176887	10.233	ug/L	100
62) 4-Methyl-2-pentanone	7.666	58	18631	10.403	ug/L	100
63) Tetrachloroethene	7.658	166	78075	10.461	ug/L	100
65) trans-1,3-Dichloropropene	7.715	75	94802	10.899	ug/L	100
67) Ethyl methacrylate	7.905	69	65463	10.634	ug/L	100
68) 1,1,2-Trichloroethane	7.898	83	43462	10.442	ug/L	100
69) Chlorodibromomethane	8.103	129	64096	10.225	ug/L	100
70) 1,3-Dichloropropane	8.209	76	94369	10.614	ug/L	100
71) 1,2-Dibromoethane	8.364	107	51969	10.667	ug/L	100
72) 2-Hexanone	8.667	43	31880	9.960	ug/L	100
73) Chlorobenzene	9.006	112	197802	10.307	ug/L	100
74) Ethylbenzene	9.041	91	343057	10.299	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.091	131	67597	10.250	ug/L	100
76) p/m Xylene	9.232	106	272828	21.347	ug/L	100
77) o Xylene	9.775	106	261739	21.021	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A08.D
 Acq On : 6 Jun 2025 5:29 pm
 Operator : VOA105:PID
 Sample : I8260STD10PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 13:48:53 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	9.846	104	428108	21.142	ug/L	100
80)	Bromoform	9.874	173	37618	10.404	ug/L	100
82)	Isopropylbenzene	10.178	105	345284	9.969	ug/L	100
84)	Bromobenzene	10.644	156	77758	10.257	ug/L	100
85)	n-Propylbenzene	10.694	91	394700	10.067	ug/L	100
86)	1,4-Dichlorobutane	10.722	55	109880	10.181	ug/L	100
87)	1,1,2,2-Tetrachloroethane	10.807	83	58510	10.304	ug/L	100
88)	4-Ethyltoluene	10.828	105	339016	10.296	ug/L	100
89)	2-Chlorotoluene	10.871	91	230056M6	10.048	ug/L	
90)	1,3,5-Trimethylbenzene	10.934	105	291274	10.269	ug/L	100
91)	1,2,3-Trichloropropane	10.941	75	46509	10.395	ug/L	100
92)	trans-1,4-Dichloro-2-b...	11.005	53	20995	10.820	ug/L	100
93)	4-Chlorotoluene	11.062	91	242288	10.088	ug/L	100
94)	tert-Butylbenzene	11.288	119	240339	10.124	ug/L	100
97)	1,2,4-Trimethylbenzene	11.373	105	288974	10.339	ug/L	100
98)	sec-Butylbenzene	11.486	105	347687	10.054	ug/L	100
99)	p-Isopropyltoluene	11.649	119	304281	10.280	ug/L	100
100)	1,3-Dichlorobenzene	11.712	146	152942	10.239	ug/L	100
101)	1,4-Dichlorobenzene	11.812	146	156722	10.309	ug/L	100
102)	p-Diethylbenzene	12.038	119	178811	10.301	ug/L	100
103)	n-Butylbenzene	12.094	91	244983	10.088	ug/L	100
104)	1,2-Dichlorobenzene	12.243	146	139345	10.324	ug/L	100
105)	1,2,4,5-Tetramethylben...	12.844	119	267151	10.211	ug/L	100
106)	1,2-Dibromo-3-chloropr...	13.042	155	8939	10.510	ug/L	100
107)	1,3,5-Trichlorobenzene	13.071	180	104319	10.387	ug/L	100
108)	Hexachlorobutadiene	13.651	225	36818	10.163	ug/L	100
109)	1,2,4-Trichlorobenzene	13.679	180	90505	10.515	ug/L	100
110)	Naphthalene	13.969	128	194978	10.638	ug/L	100
111)	1,2,3-Trichlorobenzene	14.139	180	76982	10.633	ug/L	100

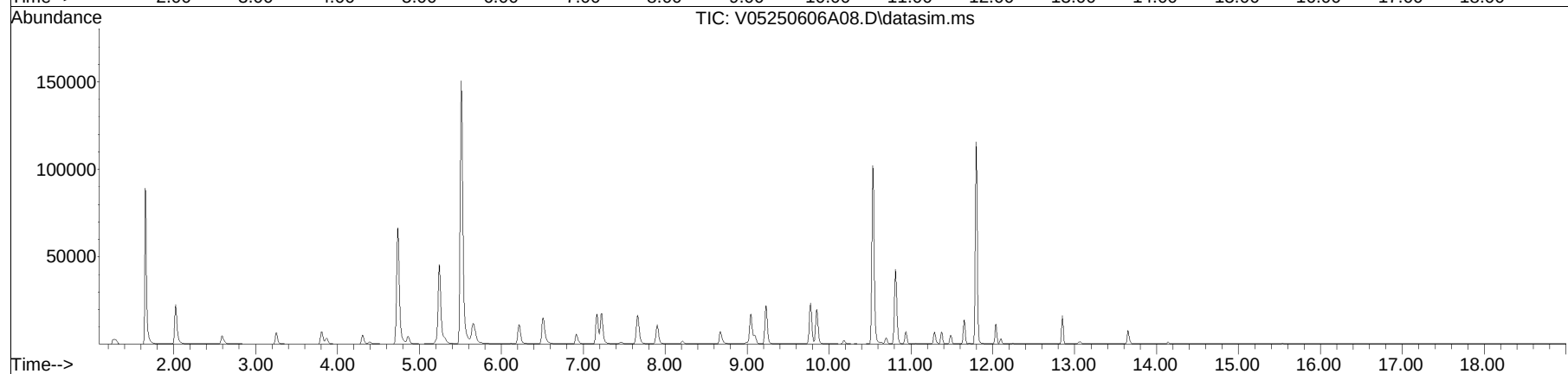
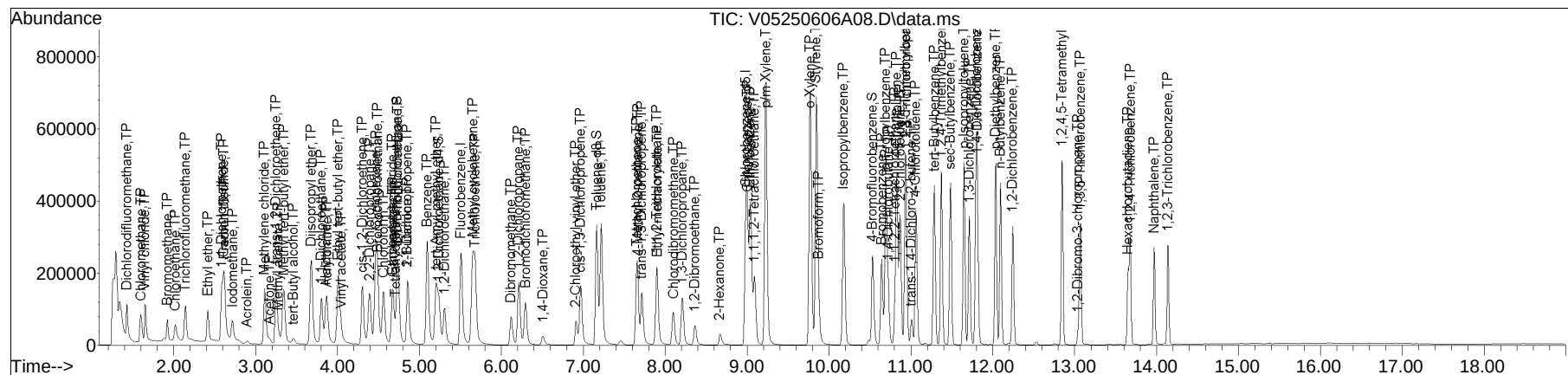
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A08.D
 Acq On : 6 Jun 2025 5:29 pm
 Operator : VOA105:PID
 Sample : I8260STD10PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 13:48:53 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

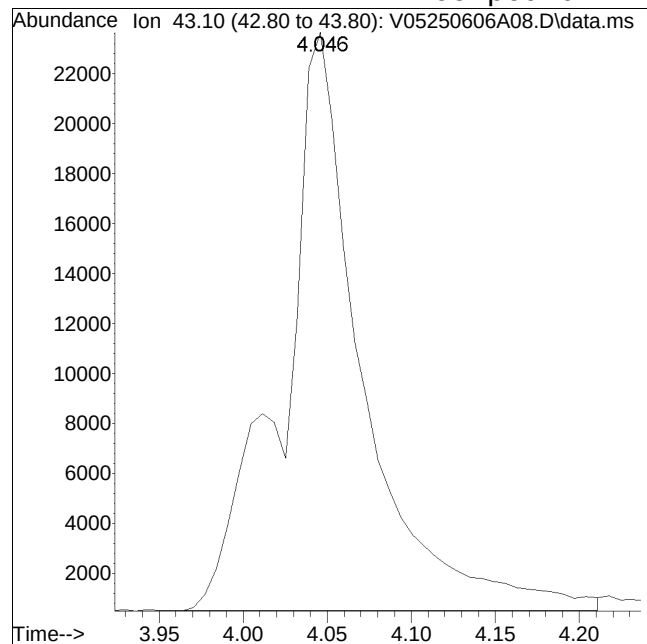
Sub List : 8260-Curve - Megamix plus Diox\VO5250606A08.D•



Manual Integration Report

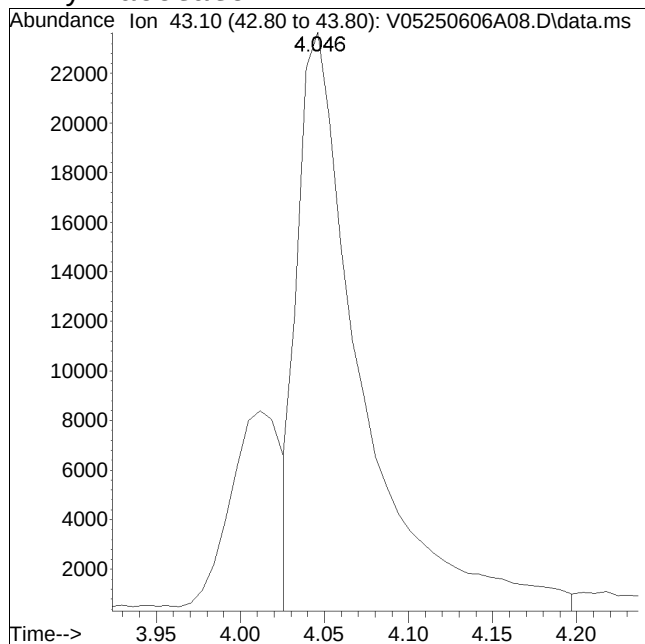
Data Path : K:\VOA105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A08.D Operator : VOA105:PID
Date Inj'd : 6/6/2025 5:29 pm Instrument : VOA105
Sample : I8260STD10PPB Quant Date : 6/7/2025 1:48 pm

Compound #27: Vinyl acetate



Original Peak Response = 76734

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

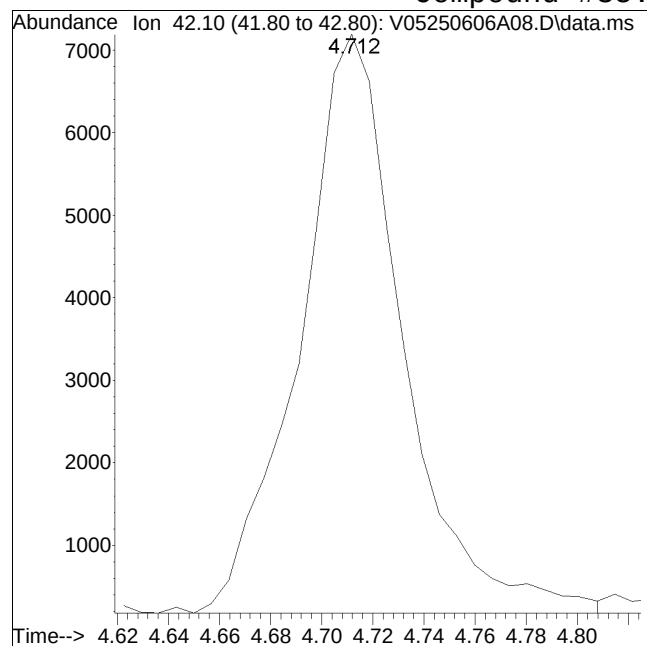


Manual Peak Response = 61736 M6

Manual Integration Report

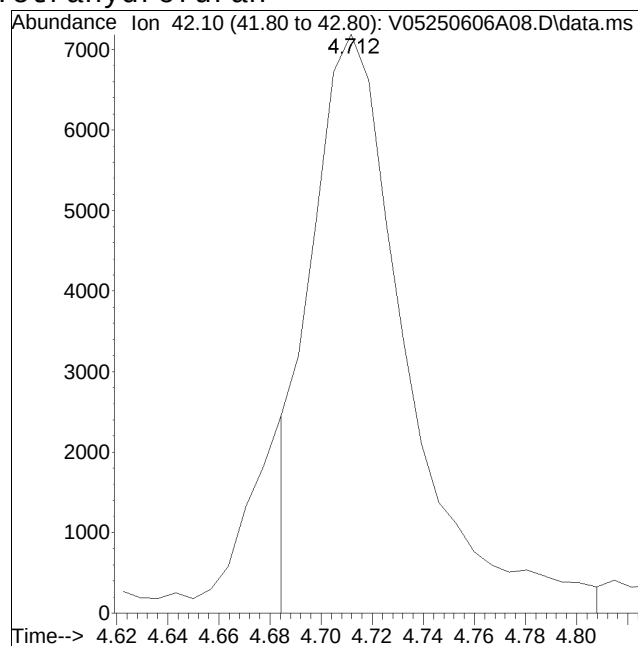
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Data File : V05250606A08.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 5:29 pm Instrument : V0A105
Sample : I8260STD10PPB Quant Date : 6/7/2025 1:48 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 19645

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

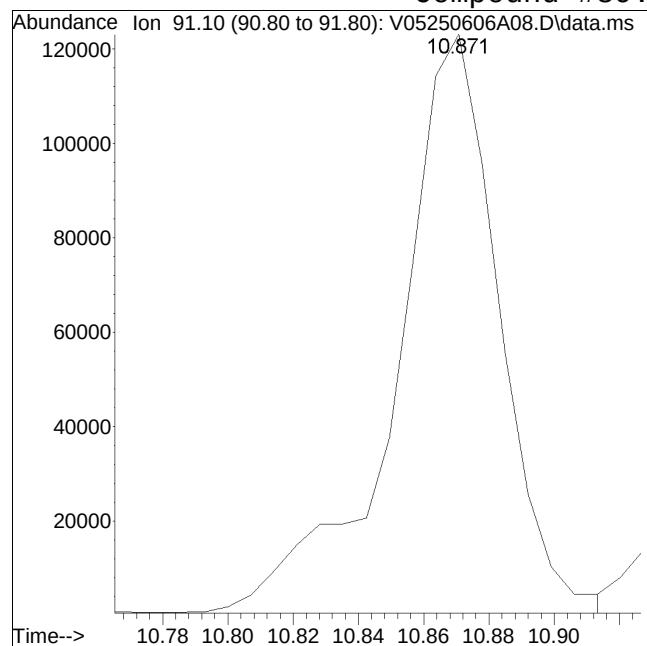


Manual Peak Response = 18677 M6

Manual Integration Report

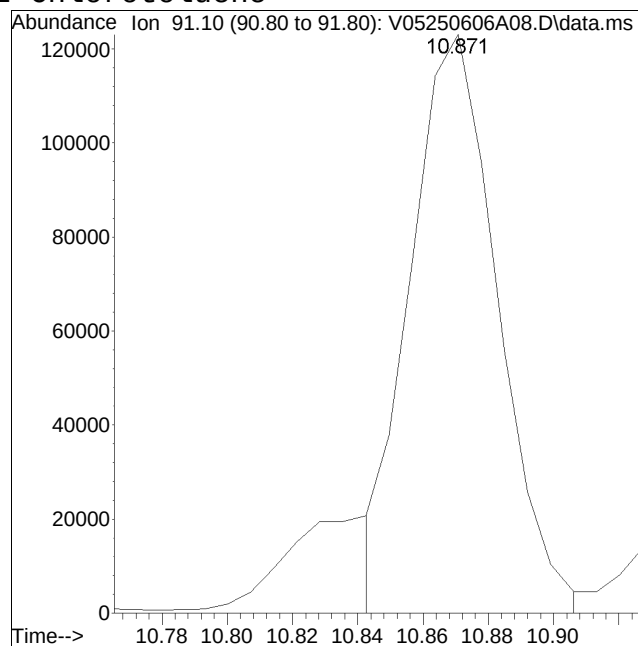
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A08.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 5:29 pm Instrument : V0A105
Sample : I8260STD10PPB Quant Date : 6/7/2025 1:48 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 266318

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



Manual Peak Response = 230056 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A09.D
 Acq On : 6 Jun 2025 5:55 pm
 Operator : VOA105:PID
 Sample : I8260STD30PPB
 Misc : WG2076082, ICAL (Sig #1); WG, ICAL (Sig #2)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 13:49:00 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.506	96	278205	10.000	ug/L	0.00
Standard Area 1 = 274650			Recovery	=	101.29%	
59) Chlorobenzene-d5	8.985	117	203793	10.000	ug/L	0.00
Standard Area 1 = 202809			Recovery	=	100.49%	
79) 1,4-Dichlorobenzene-d4	11.797	152	109053	10.000	ug/L	0.00
Standard Area 1 = 111529			Recovery	=	97.78%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.732	113	70571	9.741	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.41%	
43) 1,2-Dichloroethane-d4	5.238	65	80284	9.563	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	95.63%	
60) Toluene-d8	7.164	98	271543	10.065	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.65%	
83) 4-Bromofluorobenzene	10.531	95	100767	10.056	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.56%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.431	85	258994	31.414	ug/L	100
3) Chloromethane	1.595	50	322756	30.249	ug/L	99
4) Vinyl chloride	1.650	62	295633	31.175	ug/L	100
5) Bromomethane	1.925	94	98683	29.156	ug/L	100
6) Chloroethane	2.021	64	140020	30.669	ug/L	97
7) Trichlorofluoromethane	2.144	101	289794	32.743	ug/L	100
8) Ethyl ether	2.419	74	92431	30.183	ug/L	99
10) 1,1-Dichloroethene	2.584	96	167274	28.967	ug/L	99
11) Carbon disulfide	2.611	76	369327	28.277	ug/L	99
12) Freon-113	2.618	101	181076	32.767	ug/L	90
13) Iodomethane	2.714	142	229818	32.749	ug/L	99
14) Acrolein	2.899	56	19257	28.941	ug/L	96
15) Methylene chloride	3.112	84	216996	28.912	ug/L	99
17) Acetone	3.167	43	40130	18.506	ug/L	100
18) trans-1,2-Dichloroethene	3.249	96	220338	30.307	ug/L	100
19) Methyl acetate	3.270	43	93214	30.893	ug/L	98
20) Methyl tert-butyl ether	3.339	73	507235	30.496	ug/L	100
21) tert-Butyl alcohol	3.455	59	64424	158.027	ug/L	99
22) Diisopropyl ether	3.682	45	832435	30.653	ug/L	100
23) 1,1-Dichloroethane	3.805	63	460119	30.093	ug/L	100
24) Halothane	3.860	117	167864	30.937	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A09.D
 Acq On : 6 Jun 2025 5:55 pm
 Operator : VOA105:PID
 Sample : I8260STD30PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 13:49:00 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	3.867	53	58884	29.784	ug/L	97
26) Ethyl tert-butyl ether	4.011	59	695054	31.102	ug/L	96
27) Vinyl acetate	4.039	43	147770M6	28.125	ug/L	
28) cis-1,2-Dichloroethene	4.300	96	239642	29.796	ug/L	98
29) 2,2-Dichloropropane	4.389	77	341622	30.436	ug/L	99
30) Bromochloromethane	4.485	128	103435	30.480	ug/L	100
31) Cyclohexane	4.471	56	538688	31.722	ug/L	99
32) Chloroform	4.560	83	377678	29.686	ug/L	99
33) Ethyl acetate	4.670	43	150652	30.668	ug/L	99
34) Carbon tetrachloride	4.670	117	314293	31.853	ug/L	99
35) Tetrahydrofuran	4.705	42	51387M6	30.189	ug/L	
37) 1,1,1-Trichloroethane	4.739	97	343154	30.817	ug/L	99
39) 2-Butanone	4.849	43	64512	30.770	ug/L	96
40) 1,1-Dichloropropene	4.856	75	300877	31.678	ug/L	99
41) Benzene	5.097	78	923631	31.329	ug/L	100
42) tert-Amyl methyl ether	5.203	73	494456	30.817	ug/L	100
44) 1,2-Dichloroethane	5.302	62	277812	30.133	ug/L	100
47) Methyl cyclohexane	5.654	83	408819	33.205	ug/L	100
48) Trichloroethene	5.683	95	224176	29.084	ug/L	99
50) Dibromomethane	6.113	93	111860	30.215	ug/L	99
51) 1,2-Dichloropropane	6.212	63	253158	30.642	ug/L	100
53) 2-Chloroethyl vinyl ether	6.910	63	121925	32.637	ug/L	98
54) Bromodichloromethane	6.297	83	280938	29.548	ug/L	99
57) 1,4-Dioxane	6.508	88	23376	606.888	ug/L	99
58) cis-1,3-Dichloropropene	6.967	75	351299	31.570	ug/L	99
61) Toluene	7.221	92	532561	30.661	ug/L	100
62) 4-Methyl-2-pentanone	7.665	58	56103	31.174	ug/L	95
63) Tetrachloroethene	7.658	166	249026	33.205	ug/L	100
65) trans-1,3-Dichloropropene	7.715	75	288978	33.062	ug/L	96
67) Ethyl methacrylate	7.905	69	188262	30.433	ug/L	98
68) 1,1,2-Trichloroethane	7.898	83	130524	31.208	ug/L	99
69) Chlorodibromomethane	8.096	129	197249	31.313	ug/L	100
70) 1,3-Dichloropropane	8.209	76	283198	31.698	ug/L	100
71) 1,2-Dibromoethane	8.364	107	156831	32.034	ug/L	100
72) 2-Hexanone	8.667	43	89026	27.679	ug/L	97
73) Chlorobenzene	9.006	112	587648	30.474	ug/L	99
74) Ethylbenzene	9.041	91	1024870	30.618	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.091	131	207099	31.251	ug/L	99
76) p/m Xylene	9.232	106	794346	61.853	ug/L	98
77) o Xylene	9.775	106	763499	61.022	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A09.D
 Acq On : 6 Jun 2025 5:55 pm
 Operator : VOA105:PID
 Sample : I8260STD30PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 13:49:00 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	9.846	104	1247008	61.287	ug/L	100
80)	Bromoform	9.874	173	113449	32.090	ug/L	100
82)	Isopropylbenzene	10.177	105	1042596	30.786	ug/L	100
84)	Bromobenzene	10.644	156	226949	30.616	ug/L	99
85)	n-Propylbenzene	10.694	91	1194147	31.150	ug/L	100
86)	1,4-Dichlorobutane	10.722	55	317992	30.132	ug/L	99
87)	1,1,2,2-Tetrachloroethane	10.807	83	171826	30.948	ug/L	98
88)	4-Ethyltoluene	10.828	105	1003543	31.169	ug/L	99
89)	2-Chlorotoluene	10.871	91	698796M6	31.214	ug/L	
90)	1,3,5-Trimethylbenzene	10.934	105	858184	30.942	ug/L	100
91)	1,2,3-Trichloropropane	10.941	75	136096	31.107	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.005	53	61603	32.470	ug/L	96
93)	4-Chlorotoluene	11.062	91	710075	30.238	ug/L	100
94)	tert-Butylbenzene	11.288	119	727068	31.321	ug/L	100
97)	1,2,4-Trimethylbenzene	11.373	105	839378	30.714	ug/L	100
98)	sec-Butylbenzene	11.486	105	1071671	31.694	ug/L	100
99)	p-Isopropyltoluene	11.649	119	915118	31.619	ug/L	100
100)	1,3-Dichlorobenzene	11.712	146	451441	30.910	ug/L	99
101)	1,4-Dichlorobenzene	11.811	146	451698	30.387	ug/L	100
102)	p-Diethylbenzene	12.038	119	538167	31.707	ug/L	99
103)	n-Butylbenzene	12.094	91	751230	31.638	ug/L	99
104)	1,2-Dichlorobenzene	12.243	146	404808	30.673	ug/L	100
105)	1,2,4,5-Tetramethylben...	12.844	119	805052	31.469	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.042	155	26414	31.761	ug/L	99
107)	1,3,5-Trichlorobenzene	13.070	180	308640	31.429	ug/L	99
108)	Hexachlorobutadiene	13.650	225	113150	31.943	ug/L	99
109)	1,2,4-Trichlorobenzene	13.679	180	266511	31.668	ug/L	99
110)	Naphthalene	13.969	128	558913	31.186	ug/L	100
111)	1,2,3-Trichlorobenzene	14.138	180	220800	31.190	ug/L	99

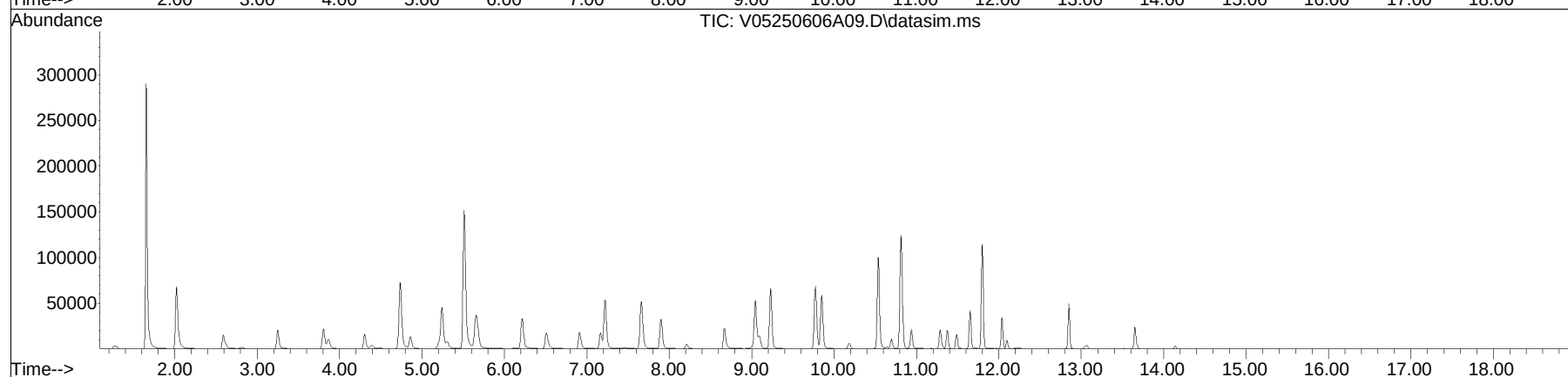
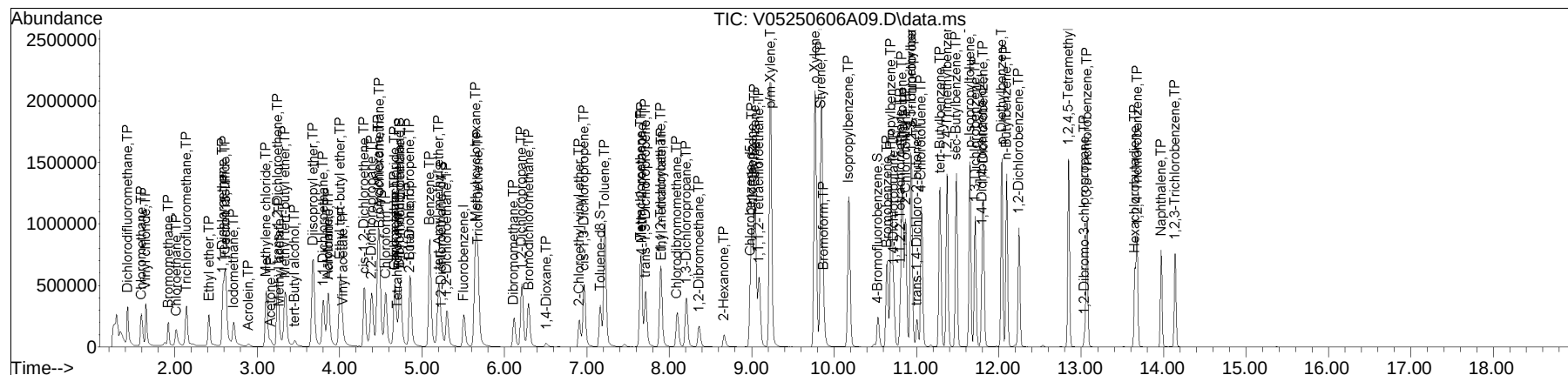
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A09.D
 Acq On : 6 Jun 2025 5:55 pm
 Operator : VOA105:PID
 Sample : I8260STD30PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 13:49:00 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

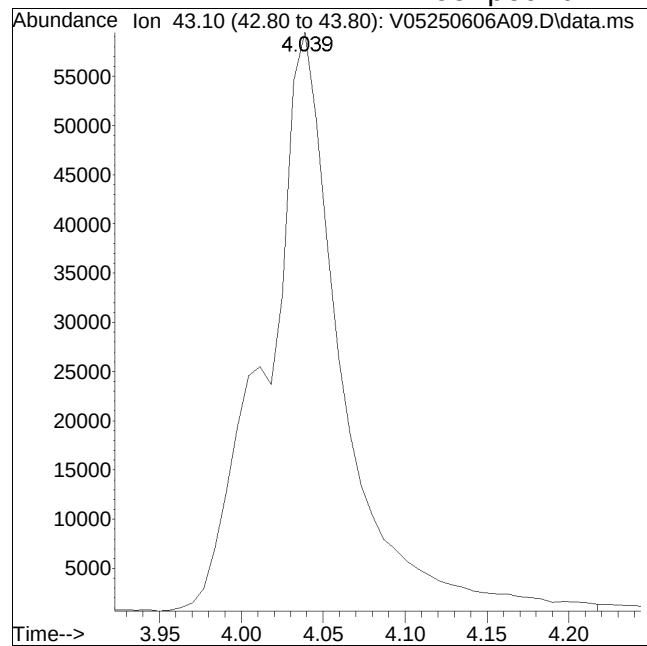
Sub List : 8260-Curve - Megamix plus Diox\V05250606A08.D•



Manual Integration Report

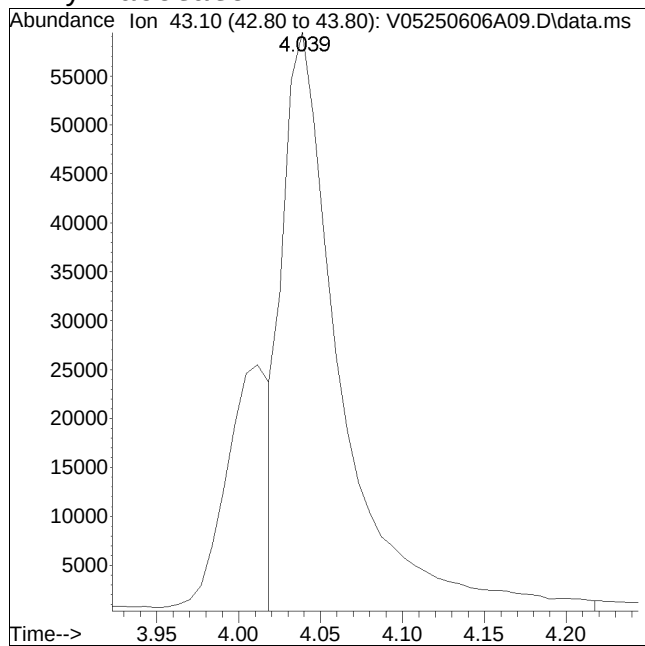
Data Path : K:\VOA105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A09.D Operator : VOA105:PID
Date Inj'd : 6/6/2025 5:55 pm Instrument : VOA105
Sample : I8260STD30PPB Quant Date : 6/7/2025 1:48 pm

Compound #27: Vinyl acetate



Original Peak Response = 189956

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

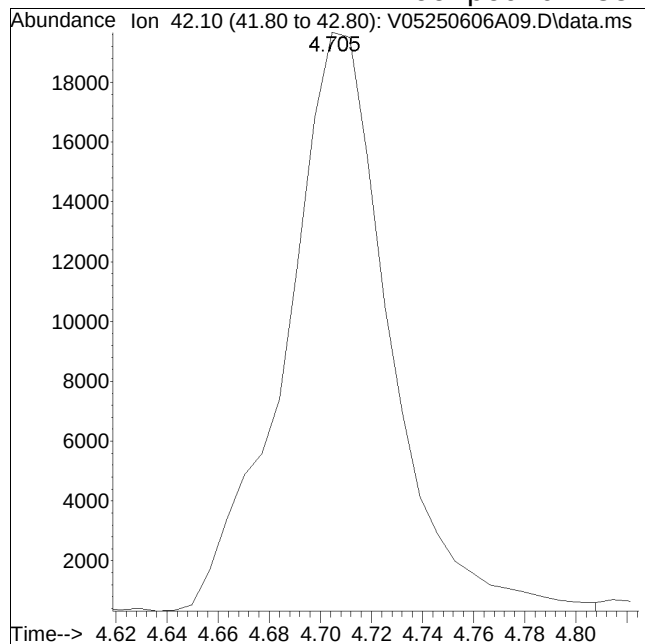


Manual Peak Response = 147770 M6

Manual Integration Report

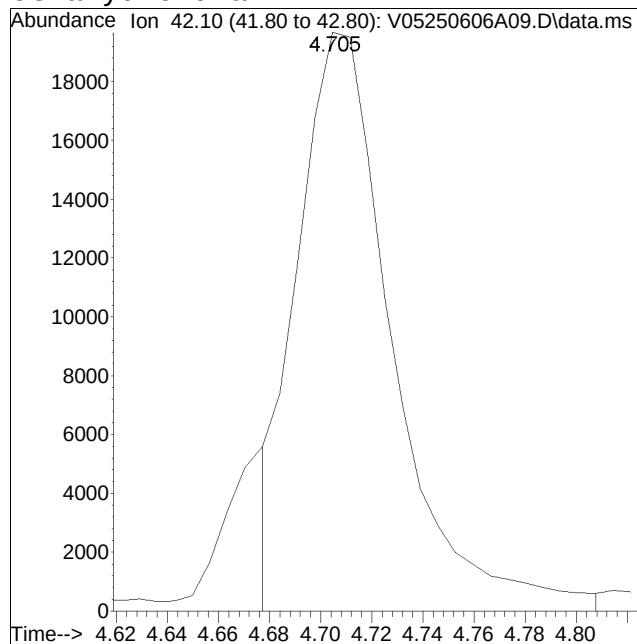
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A09.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 5:55 pm Instrument : V0A105
Sample : I8260STD30PPB Quant Date : 6/7/2025 1:48 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 54817

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

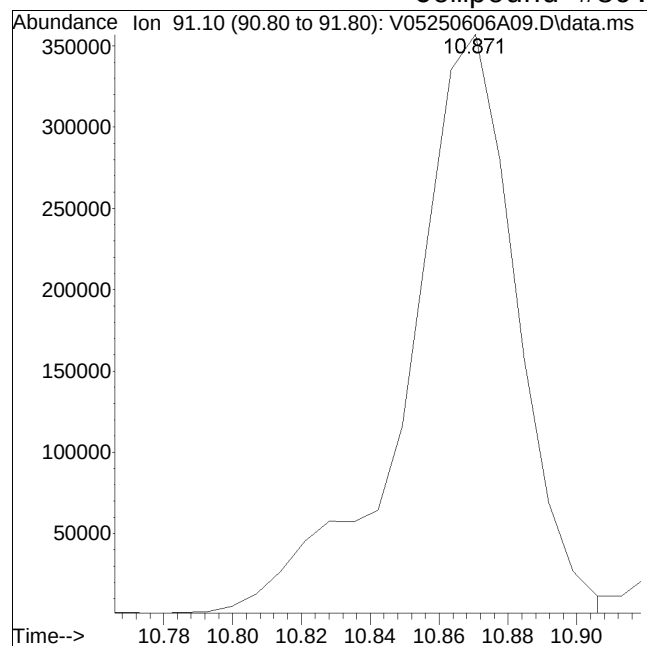


Manual Peak Response = 51387 M6

Manual Integration Report

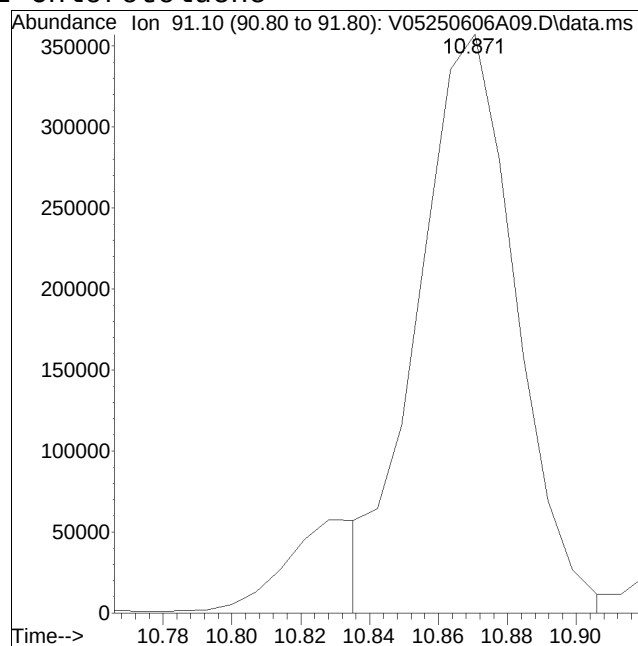
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A09.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 5:55 pm Instrument : V0A105
Sample : I8260STD30PPB Quant Date : 6/7/2025 1:48 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 778989

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



Manual Peak Response = 698796 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A11.D
 Acq On : 6 Jun 2025 6:46 pm
 Operator : VOA105:PID
 Sample : I8260STD120PPB
 Misc : WG2076082, ICAL (Sig #1); WG, ICAL (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 07 13:49:14 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.514	96	281489	10.000	ug/L	0.00
Standard Area 1 = 274650			Recovery	=	102.49%	
59) Chlorobenzene-d5	8.985	117	206651	10.000	ug/L	0.00
Standard Area 1 = 202809			Recovery	=	101.89%	
79) 1,4-Dichlorobenzene-d4	11.797	152	108312	10.000	ug/L	0.00
Standard Area 1 = 111529			Recovery	=	97.12%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.732	113	68285	9.316	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	93.16%	
43) 1,2-Dichloroethane-d4	5.238	65	78697	9.264	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	92.64%	
60) Toluene-d8	7.165	98	278089	10.165	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	101.65%	
83) 4-Bromofluorobenzene	10.531	95	100781	10.126	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	101.26%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.431	85	1029465	123.411	ug/L	99
3) Chloromethane	1.595	50	1340118	124.130	ug/L	99
4) Vinyl chloride	1.650	62	1205879	125.680	ug/L	100
5) Bromomethane	1.925	94	459571	134.195	ug/L	99
6) Chloroethane	2.014	64	518868	112.323	ug/L	98
7) Trichlorofluoromethane	2.145	101	1068766	119.348	ug/L	100
8) Ethyl ether	2.412	74	358633	115.745	ug/L	98
10) 1,1-Dichloroethene	2.584	96	658847	112.761	ug/L	100
11) Carbon disulfide	2.611	76	1700861	128.704	ug/L	98
12) Freon-113	2.618	101	694346	124.182	ug/L	91
13) Iodomethane	2.714	142	1032317	145.390	ug/L	99
14) Acrolein	2.893	56	71042	105.521	ug/L	100
15) Methylene chloride	3.112	84	847122	111.550	ug/L	99
17) Acetone	3.160	43	148110	67.503	ug/L	98
18) trans-1,2-Dichloroethene	3.250	96	868657	118.090	ug/L	100
19) Methyl acetate	3.263	43	390964	128.062	ug/L	96
20) Methyl tert-butyl ether	3.339	73	1989823	118.238	ug/L	99
21) tert-Butyl alcohol	3.456	59	238433	578.034	ug/L	99
22) Diisopropyl ether	3.675	45	3269368	118.983	ug/L	99
23) 1,1-Dichloroethane	3.799	63	1796418	116.118	ug/L	100
24) Halothane	3.861	117	665288	121.183	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A11.D
 Acq On : 6 Jun 2025 6:46 pm
 Operator : VOA105:PID
 Sample : I8260STD120PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 07 13:49:14 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	3.861	53	228548	114.251	ug/L	98
26) Ethyl tert-butyl ether	4.012	59	2729015	120.691	ug/L	95
27) Vinyl acetate	4.032	43	588780M6	110.756	ug/L	
28) cis-1,2-Dichloroethene	4.300	96	942415	115.808	ug/L	98
29) 2,2-Dichloropropane	4.389	77	1322082	116.415	ug/L	100
30) Bromochloromethane	4.492	128	383124	111.580	ug/L	99
31) Cyclohexane	4.471	56	2050770	119.354	ug/L	99
32) Chloroform	4.561	83	1472531	114.394	ug/L	99
33) Ethyl acetate	4.671	43	585902	117.879	ug/L	99
34) Carbon tetrachloride	4.671	117	1235236	123.727	ug/L	99
35) Tetrahydrofuran	4.705	42	185366M6	107.627	ug/L	
37) 1,1,1-Trichloroethane	4.739	97	1337393	118.702	ug/L	99
39) 2-Butanone	4.849	43	250051	117.874	ug/L	98
40) 1,1-Dichloropropene	4.856	75	1181591	122.952	ug/L	100
41) Benzene	5.097	78	3639849	122.022	ug/L	99
42) tert-Amyl methyl ether	5.203	73	1969537	121.319	ug/L	100
44) 1,2-Dichloroethane	5.302	62	1069632	114.664	ug/L	99
47) Methyl cyclohexane	5.655	83	1602501	128.638	ug/L	99
48) Trichloroethene	5.683	95	893281	114.540	ug/L	100
50) Dibromomethane	6.113	93	439386	117.301	ug/L	99
51) 1,2-Dichloropropane	6.212	63	997517	119.331	ug/L	100
53) 2-Chloroethyl vinyl ether	6.911	63	485699	128.496	ug/L	98
54) Bromodichloromethane	6.290	83	1133045	117.777	ug/L	100
57) 1,4-Dioxane	6.508	88	42461	1089.513	ug/L	100
58) cis-1,3-Dichloropropene	6.967	75	1404700	124.761	ug/L	98
61) Toluene	7.221	92	2142830	121.664	ug/L	99
62) 4-Methyl-2-pentanone	7.666	58	217414	119.137	ug/L	94
63) Tetrachloroethene	7.658	166	978371	128.652	ug/L	99
65) trans-1,3-Dichloropropene	7.715	75	1145320	129.224	ug/L	96
67) Ethyl methacrylate	7.898	69	725442	115.649	ug/L	97
68) 1,1,2-Trichloroethane	7.891	83	509858	120.218	ug/L	100
69) Chlorodibromomethane	8.096	129	794707	124.414	ug/L	100
70) 1,3-Dichloropropane	8.209	76	1099889	121.406	ug/L	100
71) 1,2-Dibromoethane	8.364	107	618419	124.571	ug/L	100
72) 2-Hexanone	8.660	43	346243	106.161	ug/L	97
73) Chlorobenzene	9.006	112	2342156	119.780	ug/L	99
74) Ethylbenzene	9.041	91	4033302	118.828	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.091	131	837328	124.605	ug/L	99
76) p/m Xylene	9.232	106	3029681	232.648	ug/L	97
77) o Xylene	9.775	106	2927750	230.760	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A11.D
 Acq On : 6 Jun 2025 6:46 pm
 Operator : VOA105:PID
 Sample : I8260STD120PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 07 13:49:14 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	9.853	104	4777277	231.544	ug/L	99
80)	Bromoform	9.881	173	448079	127.612	ug/L	100
82)	Isopropylbenzene	10.185	105	4052197	120.472	ug/L	100
84)	Bromobenzene	10.644	156	897955	121.964	ug/L	100
85)	n-Propylbenzene	10.694	91	4673141	122.735	ug/L	100
86)	1,4-Dichlorobutane	10.722	55	1235512	117.874	ug/L	100
87)	1,1,2,2-Tetrachloroethane	10.814	83	668569	121.240	ug/L	99
88)	4-Ethyltoluene	10.828	105	3876736	121.230	ug/L	100
89)	2-Chlorotoluene	10.871	91	2646056M6	119.003	ug/L	
90)	1,3,5-Trimethylbenzene	10.941	105	3321591	120.579	ug/L	99
91)	1,2,3-Trichloropropane	10.949	75	526195	121.095	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.005	53	229010	121.533	ug/L	88
93)	4-Chlorotoluene	11.069	91	2812248	120.575	ug/L	99
94)	tert-Butylbenzene	11.288	119	2826229	122.583	ug/L	99
97)	1,2,4-Trimethylbenzene	11.373	105	3291666	121.270	ug/L	99
98)	sec-Butylbenzene	11.486	105	4148634	123.532	ug/L	100
99)	p-Isopropyltoluene	11.649	119	3541835	123.213	ug/L	100
100)	1,3-Dichlorobenzene	11.712	146	1759765	121.313	ug/L	99
101)	1,4-Dichlorobenzene	11.812	146	1767997	119.750	ug/L	100
102)	p-Diethylbenzene	12.038	119	2097030	124.397	ug/L	99
103)	n-Butylbenzene	12.094	91	2921904	123.898	ug/L	100
104)	1,2-Dichlorobenzene	12.243	146	1572054	119.933	ug/L	99
105)	1,2,4,5-Tetramethylben...	12.851	119	3169527	124.741	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.042	155	103579	125.397	ug/L	98
107)	1,3,5-Trichlorobenzene	13.071	180	1200308	123.066	ug/L	99
108)	Hexachlorobutadiene	13.651	225	448553	127.496	ug/L	99
109)	1,2,4-Trichlorobenzene	13.679	180	1022919	122.379	ug/L	99
110)	Naphthalene	13.969	128	2092305	117.545	ug/L	100
111)	1,2,3-Trichlorobenzene	14.139	180	842923	119.886	ug/L	99

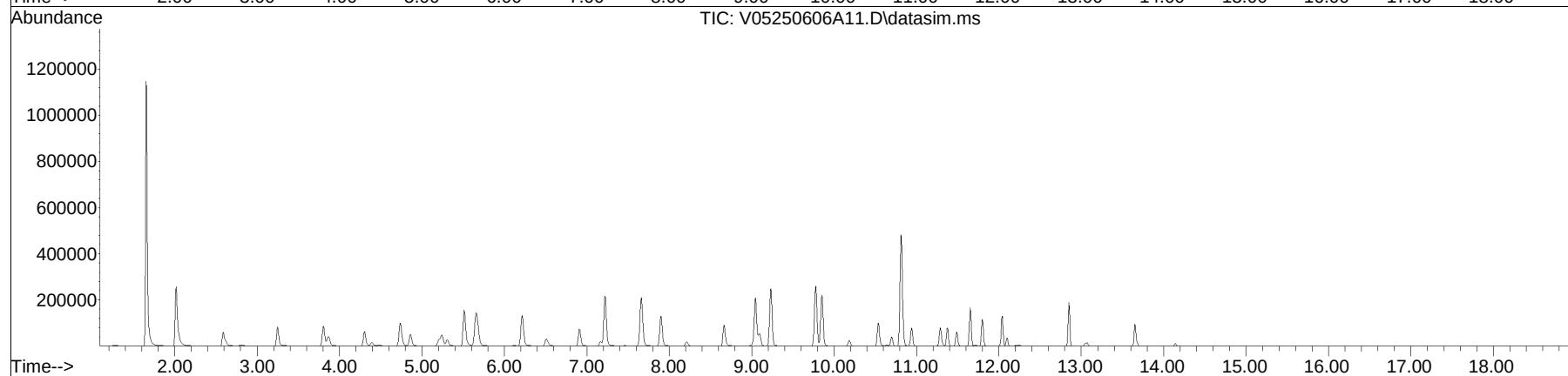
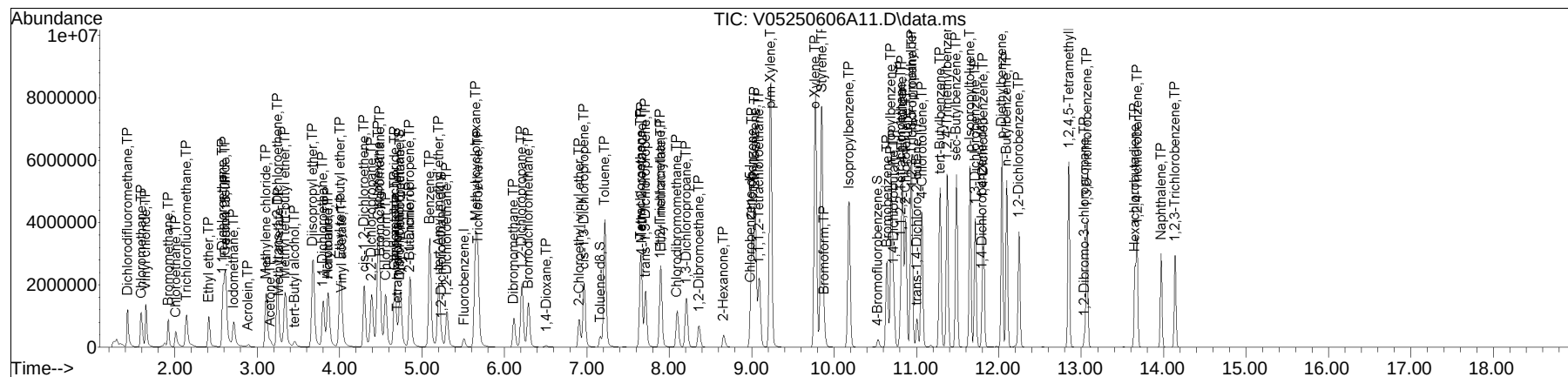
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A11.D
 Acq On : 6 Jun 2025 6:46 pm
 Operator : VOA105:PID
 Sample : I8260STD120PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 07 13:49:14 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

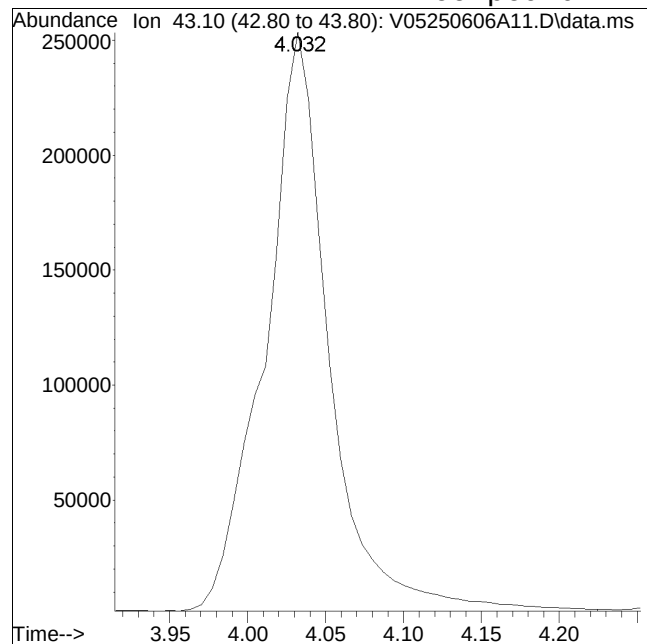
Sub List : 8260-Curve - Megamix plus Diox\VO5250606A08.D•



Manual Integration Report

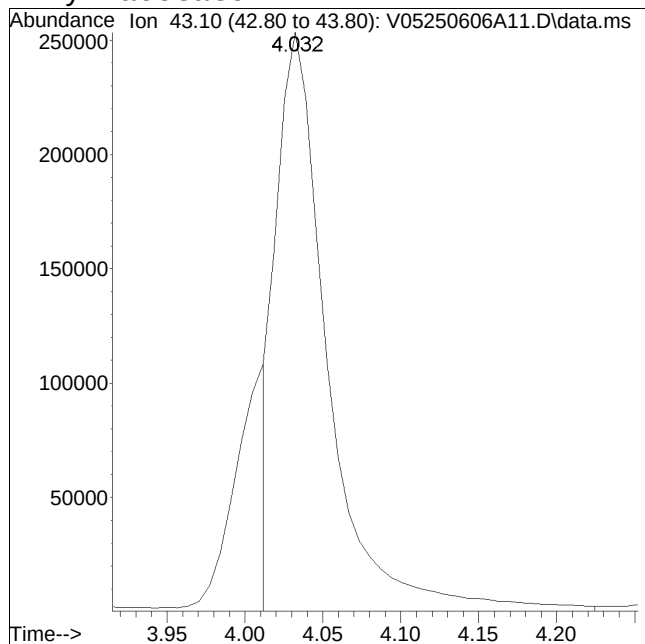
Data Path : K:\VOA105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A11.D Operator : VOA105:PID
Date Inj'd : 6/6/2025 6:46 pm Instrument : VOA105
Sample : I8260STD120PPB Quant Date : 6/7/2025 1:49 pm

Compound #27: Vinyl acetate



Original Peak Response = 718762

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

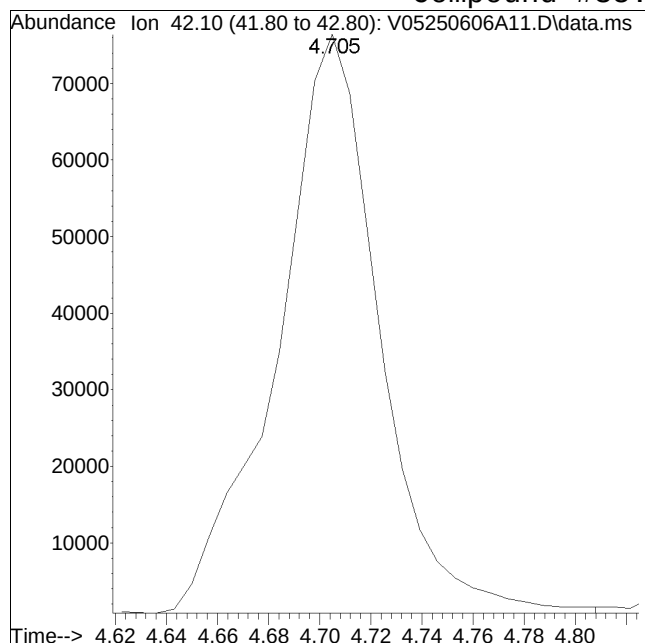


Manual Peak Response = 588780 M6

Manual Integration Report

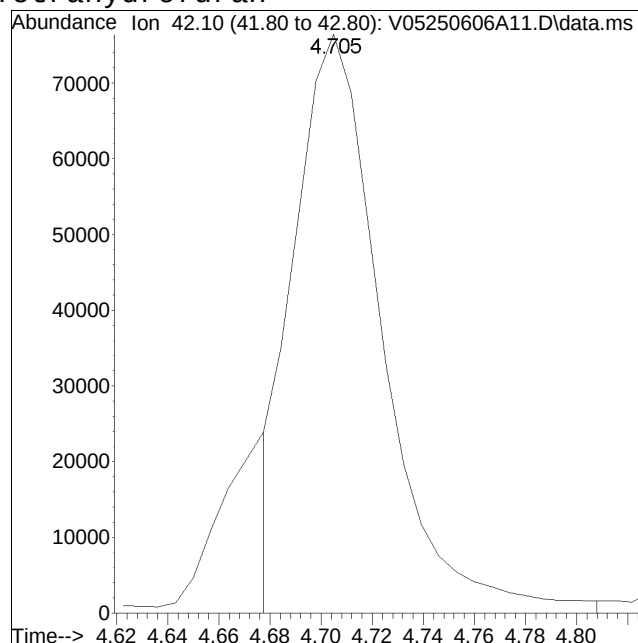
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A11.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 6:46 pm Instrument : V0A105
Sample : I8260STD120PPB Quant Date : 6/7/2025 1:49 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 208662

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

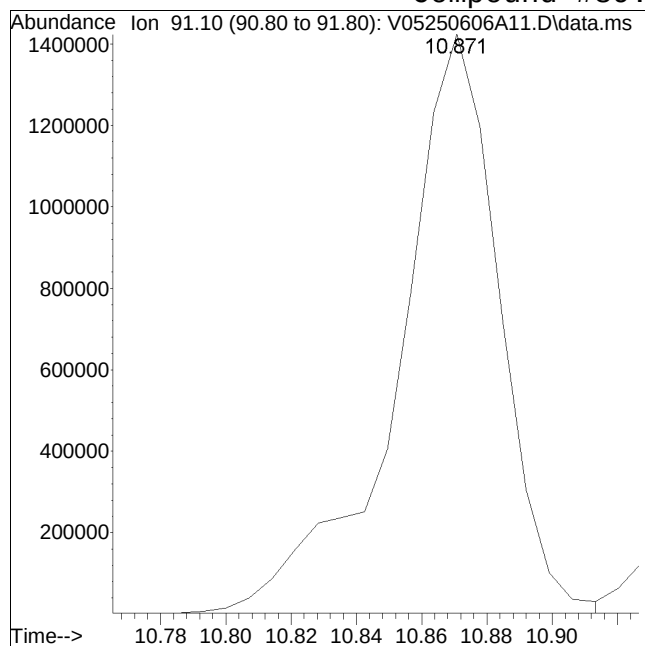


Manual Peak Response = 185366 M6

Manual Integration Report

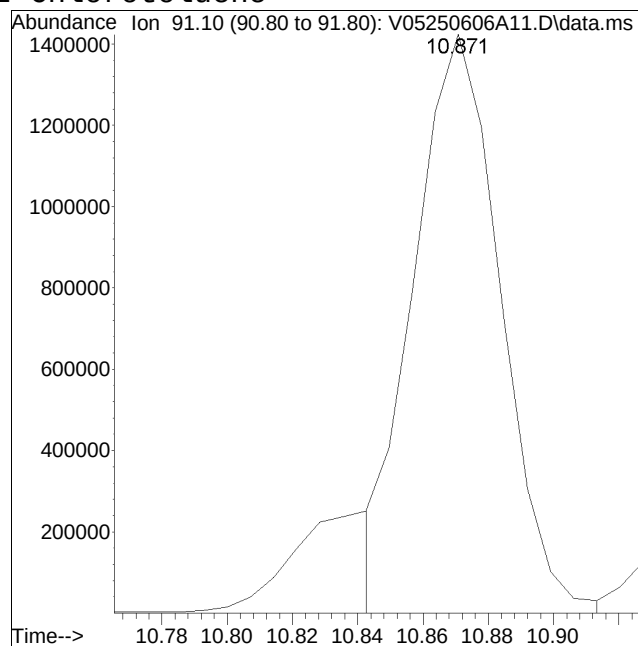
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A11.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 6:46 pm Instrument : V0A105
Sample : I8260STD120PPB Quant Date : 6/7/2025 1:49 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 3059500

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



Manual Peak Response = 2646056 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A12.D
 Acq On : 6 Jun 2025 7:12 pm
 Operator : VOA105:PID
 Sample : I8260STD200PPB
 Misc : WG2076082, ICAL (Sig #1); WG, ICAL (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 07 13:49:21 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.513	96	282580	10.000	ug/L	0.00
Standard Area 1 = 274650			Recovery	=	102.89%	
59) Chlorobenzene-d5	8.985	117	211824	10.000	ug/L	0.00
Standard Area 1 = 202809			Recovery	=	104.45%	
79) 1,4-Dichlorobenzene-d4	11.797	152	107019	10.000	ug/L	0.00
Standard Area 1 = 111529			Recovery	=	95.96%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.732	113	68405	9.296	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	92.96%	
43) 1,2-Dichloroethane-d4	5.238	65	81021	9.501	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	95.01%	
60) Toluene-d8	7.164	98	281631	10.043	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	100.43%	
83) 4-Bromofluorobenzene	10.538	95	102991	10.473	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	104.73%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.430	85	1702749	203.335	ug/L	99
3) Chloromethane	1.595	50	2247949	207.415	ug/L	99
4) Vinyl chloride	1.650	62	1964243	203.929	ug/L	100
5) Bromomethane	1.925	94	789314	229.591	ug/L	98
6) Chloroethane	2.007	64	748300	161.364	ug/L	98
7) Trichlorofluoromethane	2.144	101	1718547	191.167	ug/L	100
8) Ethyl ether	2.412	74	602027	193.547	ug/L	98
10) 1,1-Dichloroethene	2.590	96	1093224	186.382	ug/L	99
11) Carbon disulfide	2.611	76	3159408	238.149	ug/L	98
12) Freon-113	2.618	101	1146102	204.186	ug/L	# 77
13) Iodomethane	2.714	142	1711483	240.112	ug/L	99
14) Acrolein	2.892	56	123554	182.810	ug/L	97
15) Methylene chloride	3.112	84	1417066	185.881	ug/L	98
17) Acetone	3.160	43	256885	116.626	ug/L	98
18) trans-1,2-Dichloroethene	3.249	96	1427494	193.311	ug/L	100
19) Methyl acetate	3.263	43	615679	200.890	ug/L	96
20) Methyl tert-butyl ether	3.339	73	3323481	196.723	ug/L	99
21) tert-Butyl alcohol	3.455	59	412811	996.915	ug/L	97
22) Diisopropyl ether	3.682	45	5442013	197.288	ug/L	99
23) 1,1-Dichloroethane	3.798	63	2957048	190.402	ug/L	100
24) Halothane	3.860	117	1092775	198.281	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A12.D
 Acq On : 6 Jun 2025 7:12 pm
 Operator : VOA105:PID
 Sample : I8260STD200PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 07 13:49:21 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	3.860	53	398149	198.266	ug/L	99
26) Ethyl tert-butyl ether	4.011	59	4591919	202.295	ug/L	96
27) Vinyl acetate	4.032	43	991149M6	185.726	ug/L	
28) cis-1,2-Dichloroethene	4.300	96	1560991	191.081	ug/L	99
29) 2,2-Dichloropropane	4.389	77	2168007	190.165	ug/L	100
30) Bromochloromethane	4.492	128	624377	181.140	ug/L	99
31) Cyclohexane	4.471	56	3445734	199.766	ug/L	99
32) Chloroform	4.560	83	2442832	189.040	ug/L	100
33) Ethyl acetate	4.670	43	1018064	204.036	ug/L	99
34) Carbon tetrachloride	4.670	117	2049079	204.453	ug/L	99
35) Tetrahydrofuran	4.705	42	316493M6	183.053	ug/L	
37) 1,1,1-Trichloroethane	4.739	97	2209629	195.361	ug/L	99
39) 2-Butanone	4.849	43	439519	206.389	ug/L	100
40) 1,1-Dichloropropene	4.856	75	1952241	202.359	ug/L	100
41) Benzene	5.097	78	6034185	201.508	ug/L	99
42) tert-Amyl methyl ether	5.203	73	3337767	204.805	ug/L	99
44) 1,2-Dichloroethane	5.302	62	1787887	190.921	ug/L	100
47) Methyl cyclohexane	5.654	83	2736828	218.845	ug/L	99
48) Trichloroethene	5.683	95	1476282	188.565	ug/L	99
50) Dibromomethane	6.113	93	744837	198.078	ug/L	99
51) 1,2-Dichloropropane	6.212	63	1665620	198.485	ug/L	99
53) 2-Chloroethyl vinyl ether	6.910	63	835702	220.238	ug/L	99
54) Bromodichloromethane	6.296	83	1900749	196.816	ug/L	100
57) 1,4-Dioxane	6.508	88	74974	1916.341	ug/L	100
58) cis-1,3-Dichloropropene	6.967	75	2359346	208.741	ug/L	97
61) Toluene	7.221	92	3574963	198.020	ug/L	99
62) 4-Methyl-2-pentanone	7.665	58	374976	200.459	ug/L	93
63) Tetrachloroethene	7.658	166	1637052	210.009	ug/L	99
65) trans-1,3-Dichloropropene	7.715	75	1928328	212.256	ug/L	97
67) Ethyl methacrylate	7.905	69	1240574	192.940	ug/L	98
68) 1,1,2-Trichloroethane	7.898	83	865637	199.122	ug/L	99
69) Chlorodibromomethane	8.103	129	1348405	205.941	ug/L	100
70) 1,3-Dichloropropane	8.208	76	1859176	200.205	ug/L	100
71) 1,2-Dibromoethane	8.364	107	1047192	205.790	ug/L	100
72) 2-Hexanone	8.660	43	603809	180.612	ug/L	98
73) Chlorobenzene	9.006	112	3927295	195.940	ug/L	100
74) Ethylbenzene	9.048	91	6756279	194.191	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.098	131	1391283	201.984	ug/L	99
76) p/m Xylene	9.232	106	4954367	371.153	ug/L	97
77) o Xylene	9.782	106	4795592	368.750	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A12.D
 Acq On : 6 Jun 2025 7:12 pm
 Operator : VOA105:PID
 Sample : I8260STD200PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 07 13:49:21 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	9.852	104	7766854	367.248	ug/L	98
80)	Bromoform	9.881	173	754312	217.422	ug/L	100
82)	Isopropylbenzene	10.184	105	7264088	218.571	ug/L	97
84)	Bromobenzene	10.644	156	1521824	209.198	ug/L	100
85)	n-Propylbenzene	10.701	91	7793386	207.158	ug/L	100
86)	1,4-Dichlorobutane	10.722	55	2108305	203.572	ug/L	100
87)	1,1,2,2-Tetrachloroethane	10.814	83	1145479	210.234	ug/L	99
88)	4-Ethyltoluene	10.835	105	6385724	202.102	ug/L	100
89)	2-Chlorotoluene	10.870	91	4449621M6	202.534	ug/L	
90)	1,3,5-Trimethylbenzene	10.941	105	5450084	200.238	ug/L	98
91)	1,2,3-Trichloropropane	10.948	75	891393	207.617	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.012	53	394973	212.141	ug/L	88
93)	4-Chlorotoluene	11.068	91	4648413	201.709	ug/L	99
94)	tert-Butylbenzene	11.288	119	4740064	208.076	ug/L	99
97)	1,2,4-Trimethylbenzene	11.373	105	5369735	200.220	ug/L	99
98)	sec-Butylbenzene	11.486	105	6920429	208.556	ug/L	100
99)	p-Isopropyltoluene	11.656	119	5834252	205.413	ug/L	99
100)	1,3-Dichlorobenzene	11.719	146	2890435	201.666	ug/L	99
101)	1,4-Dichlorobenzene	11.818	146	2872935	196.941	ug/L	100
102)	p-Diethylbenzene	12.038	119	3468398	208.233	ug/L	98
103)	n-Butylbenzene	12.101	91	4877359	209.315	ug/L	99
104)	1,2-Dichlorobenzene	12.250	146	2583715	199.495	ug/L	99
105)	1,2,4,5-Tetramethylben...	12.851	119	5160782	205.563	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.042	155	175854	215.469	ug/L	99
107)	1,3,5-Trichlorobenzene	13.070	180	1947568	202.094	ug/L	99
108)	Hexachlorobutadiene	13.650	225	761531	219.072	ug/L	99
109)	1,2,4-Trichlorobenzene	13.679	180	1669119	202.101	ug/L	99
110)	Naphthalene	13.969	128	3488721	198.363	ug/L	100
111)	1,2,3-Trichlorobenzene	14.138	180	1390472	200.152	ug/L	99

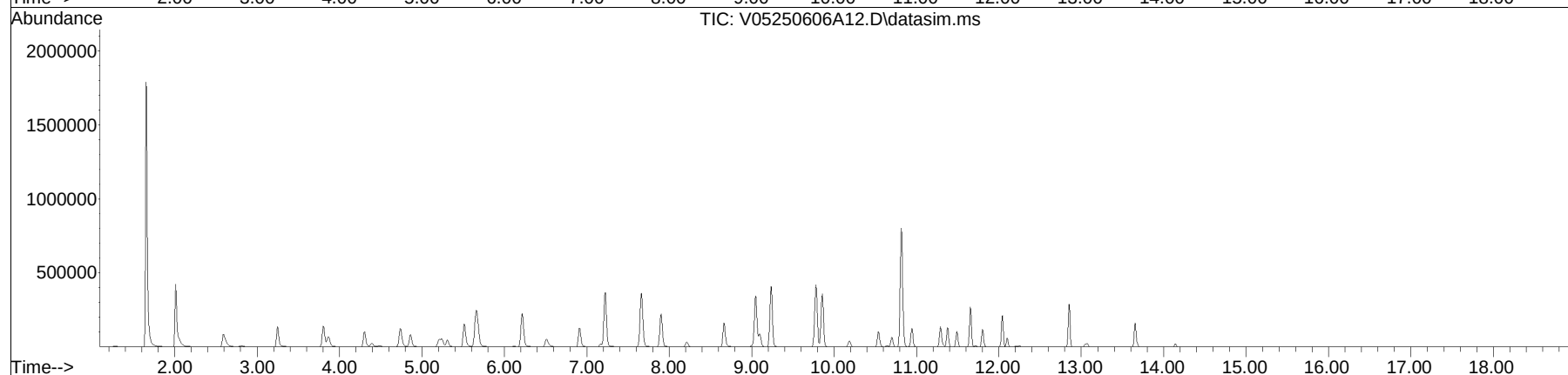
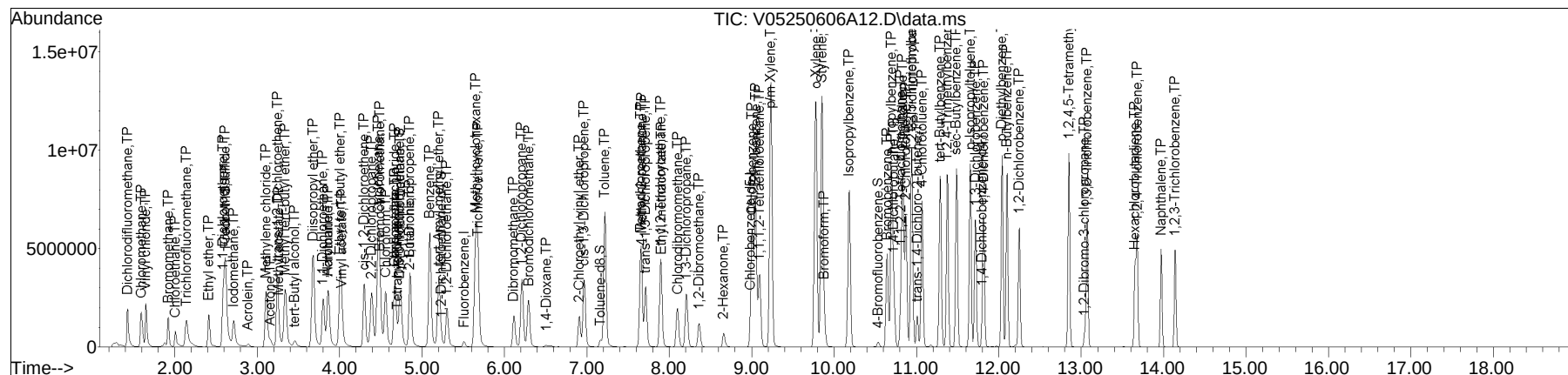
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A12.D
 Acq On : 6 Jun 2025 7:12 pm
 Operator : VOA105:PID
 Sample : I8260STD200PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 07 13:49:21 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:48:08 2025
 Response via : Initial Calibration

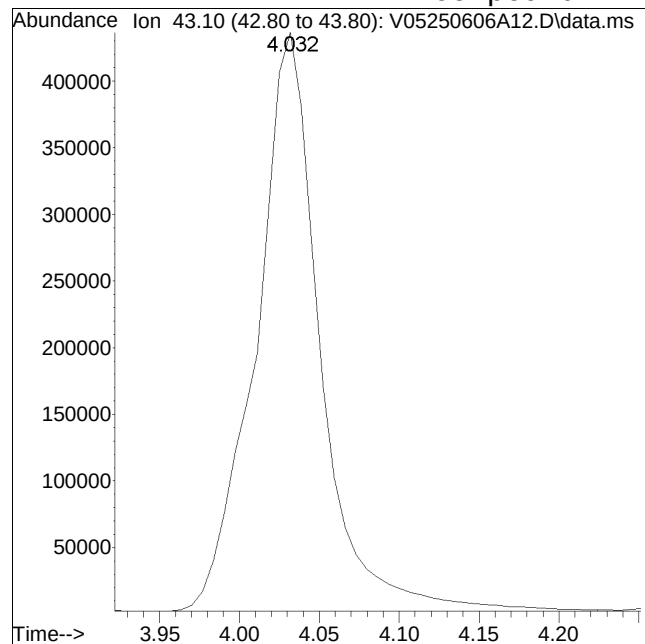
Sub List : 8260-Curve - Megamix plus Diox\VO5250606A08.D•



Manual Integration Report

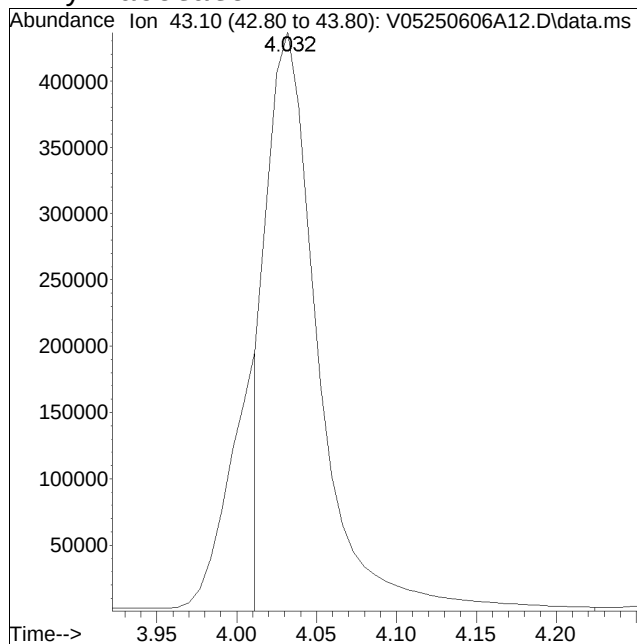
Data Path : K:\VOA105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A12.D Operator : VOA105:PID
Date Inj'd : 6/6/2025 7:12 pm Instrument : VOA105
Sample : I8260STD200PPB Quant Date : 6/7/2025 1:49 pm

Compound #27: Vinyl acetate



Original Peak Response = 1211719

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

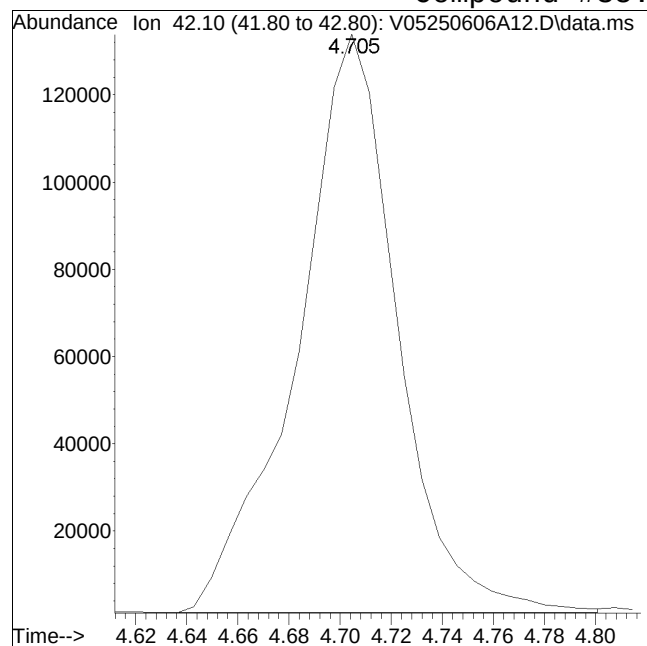


Manual Peak Response = 991149 M6

Manual Integration Report

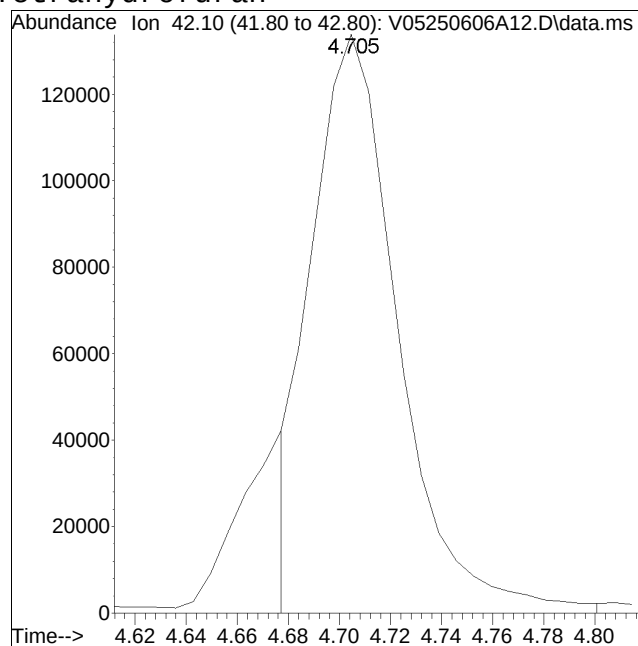
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A12.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 7:12 pm Instrument : V0A105
Sample : I8260STD200PPB Quant Date : 6/7/2025 1:49 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 358912

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

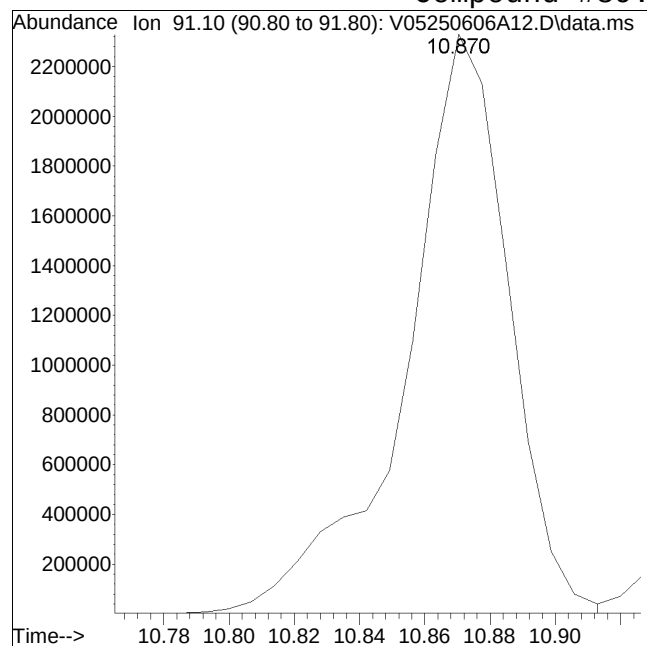


Manual Peak Response = 316493 M6

Manual Integration Report

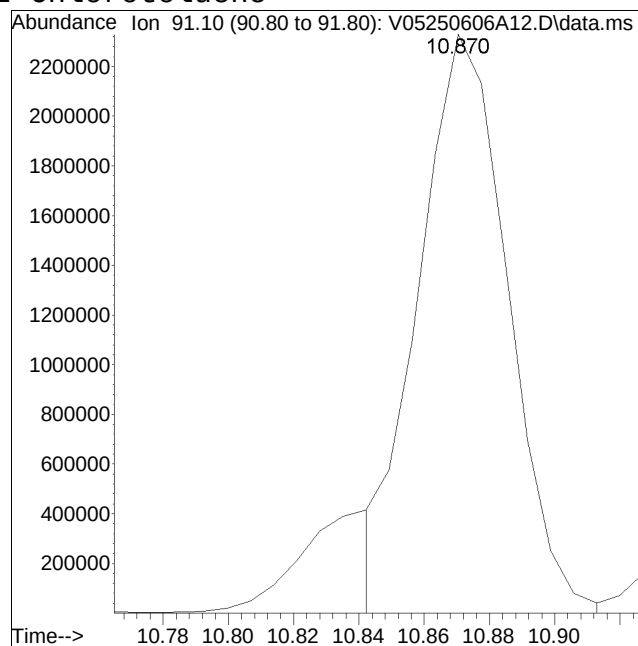
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A12.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 7:12 pm Instrument : V0A105
Sample : I8260STD200PPB Quant Date : 6/7/2025 1:49 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 5075393

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



Manual Peak Response = 4449621 M6

Evaluate Continuing Calibration Report

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A17.D
 Acq On : 6 Jun 2025 9:19 pm
 Operator : VOA105:PID
 Sample : C8260STD10PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 07 14:02:02 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 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	99	0.00
2 TP	Dichlorodifluoromethane	0.295	0.289	2.0	104	0.00
3 TP	Chloromethane	0.382	0.433	-13.4	115	0.00
4 TP	Vinyl chloride	0.339	0.356	-5.0	105	0.00
5 TP	Bromomethane	0.121	0.156	-28.9#	145	0.00
6 TP	Chloroethane	0.165	0.178	-7.9	109	0.00
7 TP	Trichlorofluoromethane	0.316	0.341	-7.9	108	0.00
8 TP	Ethyl ether	0.110	0.104	5.5	90	0.00
10 TP	1,1-Dichloroethene	0.210	0.187	11.0	97	0.00
11 TP	Carbon disulfide	0.473	0.551	-16.5	129	0.00
12 TP	Freon-113	0.197	0.236	-19.8	125	0.00
13 TP	Iodomethane	0.266	0.294	-10.5	123	0.00
14 TP	Acrolein	0.025	0.030	-20.0	114	0.00
15 TP	Methylene chloride	0.272	0.254	6.6	94	0.00
17 TP	Acetone	* 10.000	7.832	21.7#	76	0.00
18 TP	trans-1,2-Dichloroethene	0.262	0.262	0.0	97	0.00
19 TP	Methyl acetate	0.108	0.105	2.8	93	0.00
20 TP	Methyl tert-butyl ether	0.598	0.492	17.7	78	0.00
21 TP	tert-Butyl alcohol	0.015	0.012	20.0	75	0.00
22 TP	Diisopropyl ether	0.974	0.859	11.8	86	0.00
23 TP	1,1-Dichloroethane	0.551	0.550	0.2	97	0.00
24 TP	Halothane	0.195	0.215	-10.3	110	0.00
25 TP	Acrylonitrile	0.072	0.066	8.3	87	0.00
26 TP	Ethyl tert-butyl ether	0.800	0.720	10.0	86	0.00
27 TP	Vinyl acetate	0.202	0.271	-34.2#	120	0.00
28 TP	cis-1,2-Dichloroethene	0.291	0.282	3.1	95	0.00
29 TP	2,2-Dichloropropane	0.404	0.380	5.9	93	0.00
30 TP	Bromochloromethane	0.123	0.123	0.0	95	0.00
31 TP	Cyclohexane	0.607	0.639	-5.3	108	0.00
32 TP	Chloroform	0.460	0.457	0.7	97	0.00
33 TP	Ethyl acetate	0.177	0.151	14.7	79	0.00
34 TP	Carbon tetrachloride	0.352	0.341	3.1	96	0.00
35 TP	Tetrahydrofuran	0.062	0.051	17.7	74	0.00
36 S	Dibromofluoromethane	0.262	0.272	-3.8	104	0.00
37 TP	1,1,1-Trichloroethane	0.400	0.401	-0.3	100	0.00
39 TP	2-Butanone	0.076	0.059	22.4#	73	0.00
40 TP	1,1-Dichloropropene	0.339	0.355	-4.7	103	0.00
41 TP	Benzene	1.055	1.072	-1.6	96	0.00
42 TP	tert-Amyl methyl ether	0.574	0.484	15.7	81	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A17.D
 Acq On : 6 Jun 2025 9:19 pm
 Operator : VOA105:PID
 Sample : C8260STD10PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 07 14:02:02 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 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)
43 S	1,2-Dichloroethane-d4	0.304	0.315	-3.6	99	0.00
44 TP	1,2-Dichloroethane	0.333	0.323	3.0	92	0.00
47 TP	Methyl cyclohexane	0.434	0.461	-6.2	106	0.00
48 TP	Trichloroethene	0.279	0.252	9.7	93	0.00
50 TP	Dibromomethane	0.133	0.127	4.5	91	0.00
51 TP	1,2-Dichloropropane	0.297	0.286	3.7	92	0.00
53 TP	2-Chloroethyl vinyl ether	0.132	0.114	13.6	78	0.00
54 TP	Bromodichloromethane	0.342	0.320	6.4	91	0.00
57 TP	1,4-Dioxane	0.00140	0.00112#	20.0#	72	0.00
58 TP	cis-1,3-Dichloropropene	0.397	0.377	5.0	89	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
60 S	Toluene-d8	1.322	1.336	-1.1	100	0.00
61 TP	Toluene	0.850	0.849	0.1	96	0.00
62 TP	4-Methyl-2-pentanone	0.089	0.070	21.3#	76	0.00
63 TP	Tetrachloroethene	0.363	0.370	-1.9	95	0.00
65 TP	trans-1,3-Dichloropropene	0.424	0.413	2.6	88	0.00
67 TP	Ethyl methacrylate	0.305	0.275	9.8	85	0.00
68 TP	1,1,2-Trichloroethane	0.205	0.189#	7.8	88	0.00
69 TP	Chlorodibromomethane	0.307	0.279	9.1	88	0.00
70 TP	1,3-Dichloropropane	0.437	0.412	5.7	88	0.00
71 TP	1,2-Dibromoethane	0.239	0.226	5.4	87	0.00
72 TP	2-Hexanone	0.145	0.121	16.6	76	0.00
73 TP	Chlorobenzene	0.946	0.933	1.4	95	0.00
74 TP	Ethylbenzene	1.642	1.644	-0.1	96	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.323	0.302	6.5	90	0.00
76 TP	p/m Xylene	0.631	0.652	-3.3	96	0.00
77 TP	o Xylene	0.616	0.621	-0.8	95	0.00
78 TP	Styrene	1.000	1.012	-1.2	95	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
80 TP	Bromoform	0.320	0.279	12.8	83	0.00
82 TP	Isopropylbenzene	3.057	2.937	3.9	96	0.00
83 S	4-Bromofluorobenzene	0.918	0.909	1.0	99	0.00
84 TP	Bromobenzene	0.676	0.646	4.4	93	0.00
85 TP	n-Propylbenzene	3.484	3.420	1.8	97	0.00
86 TP	1,4-Dichlorobutane	0.968	0.856	11.6	88	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.508	0.428	15.7	82	0.00
88 TP	4-Ethyltoluene	2.930	3.063	-4.5	102	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A17.D
 Acq On : 6 Jun 2025 9:19 pm
 Operator : VOA105:PID
 Sample : C8260STD10PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 07 14:02:02 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 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)
89 TP	2-Chlorotoluene	2.049	2.066	-0.8	101	0.00
90 TP	1,3,5-Trimethylbenzene	2.530	2.484	1.8	96	0.00
91 TP	1,2,3-Trichloropropane	0.400	0.356	11.0	86	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.174	0.158	9.2	85	0.00
93 TP	4-Chlorotoluene	2.148	2.085	2.9	97	0.00
94 TP	tert-Butylbenzene	2.108	2.051	2.7	96	0.00
97 TP	1,2,4-Trimethylbenzene	2.491	2.500	-0.4	97	0.00
98 TP	sec-Butylbenzene	3.065	2.972	3.0	96	0.00
99 TP	p-Isopropyltoluene	2.624	2.584	1.5	95	0.00
100 TP	1,3-Dichlorobenzene	1.332	1.306	2.0	96	0.00
101 TP	1,4-Dichlorobenzene	1.360	1.313	3.5	94	0.00
102 TP	p-Diethylbenzene	1.536	1.529	0.5	96	0.00
103 TP	n-Butylbenzene	2.150	2.178	-1.3	100	0.00
104 TP	1,2-Dichlorobenzene	1.204	1.164	3.3	94	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.317	2.278	1.7	96	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.076	0.068	10.5	85	0.00
107 TP	1,3,5-Trichlorobenzene	0.892	0.874	2.0	94	0.00
108 TP	Hexachlorobutadiene	0.320	0.308	3.8	94	0.00
109 TP	1,2,4-Trichlorobenzene	0.765	0.727	5.0	90	0.00
110 TP	Naphthalene	1.641	1.484	9.6	86	0.00
111 TP	1,2,3-Trichlorobenzene	0.645	0.605	6.2	88	0.00

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A17.D
 Acq On : 6 Jun 2025 9:19 pm
 Operator : VOA105:PID
 Sample : C8260STD10PPB
 Misc : WG2076082, ICAL (Sig #1); WG, ICAL (Sig #2)
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 07 14:02:02 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.506	96	273252	10.000	ug/L	0.00
Standard Area 1 = 274650			Recovery =	99.49%		
59) Chlorobenzene-d5	8.984	117	201109	10.000	ug/L	0.00
Standard Area 1 = 202809			Recovery =	99.16%		
79) 1,4-Dichlorobenzene-d4	11.797	152	112377	10.000	ug/L	0.00
Standard Area 1 = 111529			Recovery =	100.76%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.732	113	74362	10.369	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.69%		
43) 1,2-Dichloroethane-d4	5.238	65	86193	10.367	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.67%		
60) Toluene-d8	7.164	98	268745	10.108	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.08%		
83) 4-Bromofluorobenzene	10.531	95	102171	9.899	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.99%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.430	85	78963	9.804	ug/L	100
3) Chloromethane	1.595	50	118244	11.324	ug/L	100
4) Vinyl chloride	1.650	62	97147	10.481	ug/L	99
5) Bromomethane	1.924	94	42624	12.931	ug/L	100
6) Chloroethane	2.021	64	48587	10.791	ug/L	99
7) Trichlorofluoromethane	2.144	101	93057	10.784	ug/L	99
8) Ethyl ether	2.412	74	28349	9.394	ug/L	98
10) 1,1-Dichloroethene	2.590	96	51031	8.911	ug/L	98
11) Carbon disulfide	2.618	76	150686	11.652	ug/L	99
12) Freon-113	2.618	101	64514	12.007	ug/L	96
13) Iodomethane	2.721	142	80444	11.069	ug/L	99
14) Acrolein	2.899	56	8293	12.387	ug/L	90
15) Methylene chloride	3.112	84	69282	9.312	ug/L	99
17) Acetone	3.174	43	11829	7.832	ug/L	100
18) trans-1,2-Dichloroethene	3.249	96	71466	9.993	ug/L	100
19) Methyl acetate	3.277	43	28760	9.786	ug/L	98
20) Methyl tert-butyl ether	3.338	73	134465	8.226	ug/L	98
21) tert-Butyl alcohol	3.455	59	17024	42.350	ug/L #	90
22) Diisopropyl ether	3.675	45	234836	8.826	ug/L	100
23) 1,1-Dichloroethane	3.805	63	150196	9.971	ug/L	99
24) Halothane	3.860	117	58833	11.062	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A17.D
 Acq On : 6 Jun 2025 9:19 pm
 Operator : VOA105:PID
 Sample : C8260STD10PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 07 14:02:02 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25)	Acrylonitrile	3.874	53	18063	9.223	ug/L	94
26)	Ethyl tert-butyl ether	4.011	59	196690	9.003	ug/L	93
27)	Vinyl acetate	4.039	43	74176M6	13.463	ug/L	
28)	cis-1,2-Dichloroethene	4.306	96	77004	9.700	ug/L	98
29)	2,2-Dichloropropane	4.389	77	103969	9.407	ug/L	99
30)	Bromochloromethane	4.492	128	33689	10.052	ug/L	98
31)	Cyclohexane	4.471	56	174654	10.532	ug/L	100
32)	Chloroform	4.560	83	124951	9.950	ug/L	99
33)	Ethyl acetate	4.677	43	41146	8.504	ug/L	99
34)	Carbon tetrachloride	4.670	117	93269	9.687	ug/L	99
35)	Tetrahydrofuran	4.711	42	13902M6	8.163	ug/L	
37)	1,1,1-Trichloroethane	4.739	97	109621	10.033	ug/L	99
39)	2-Butanone	4.855	43	15991	7.741	ug/L #	87
40)	1,1-Dichloropropene	4.855	75	97069	10.469	ug/L	100
41)	Benzene	5.097	78	292932	10.159	ug/L	100
42)	tert-Amyl methyl ether	5.202	73	132227	8.424	ug/L	99
44)	1,2-Dichloroethane	5.308	62	88324	9.719	ug/L	99
47)	Methyl cyclohexane	5.654	83	125878	10.608	ug/L	100
48)	Trichloroethene	5.682	95	68969	9.061	ug/L	97
50)	Dibromomethane	6.120	93	34661	9.513	ug/L	99
51)	1,2-Dichloropropane	6.211	63	78214	9.646	ug/L	99
53)	2-Chloroethyl vinyl ether	6.910	63	31133	8.609	ug/L	95
54)	Bromodichloromethane	6.296	83	87455	9.349	ug/L	99
57)	1,4-Dioxane	6.508	88	15327	400.895	ug/L #	94
58)	cis-1,3-Dichloropropene	6.973	75	102949	9.493	ug/L	99
61)	Toluene	7.220	92	170678	9.987	ug/L	99
62)	4-Methyl-2-pentanone	7.672	58	14115	7.929	ug/L	96
63)	Tetrachloroethene	7.658	166	74455	10.197	ug/L	99
65)	trans-1,3-Dichloropropene	7.714	75	83027	9.747	ug/L	100
67)	Ethyl methacrylate	7.905	69	55381	9.032	ug/L	99
68)	1,1,2-Trichloroethane	7.898	83	38035	9.229	ug/L	99
69)	Chlorodibromomethane	8.102	129	56086	9.073	ug/L	100
70)	1,3-Dichloropropane	8.208	76	82952	9.437	ug/L	100
71)	1,2-Dibromoethane	8.363	107	45364	9.456	ug/L	100
72)	2-Hexanone	8.674	43	24238	8.318	ug/L	96
73)	Chlorobenzene	9.005	112	187636	9.867	ug/L	99
74)	Ethylbenzene	9.041	91	330633	10.014	ug/L	100
75)	1,1,1,2-Tetrachloroethane	9.090	131	60809	9.372	ug/L	99
76)	p/m Xylene	9.231	106	262070	20.667	ug/L	99
77)	o Xylene	9.775	106	249916	20.189	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A17.D
 Acq On : 6 Jun 2025 9:19 pm
 Operator : VOA105:PID
 Sample : C8260STD10PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 07 14:02:02 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250606AICAL\V05250606A08.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	9.845	104	406952	20.231	ug/L	99
80)	Bromoform	9.873	173	31308	8.704	ug/L	97
82)	Isopropylbenzene	10.184	105	330043	9.607	ug/L	99
84)	Bromobenzene	10.644	156	72543	9.550	ug/L	99
85)	n-Propylbenzene	10.693	91	384351	9.816	ug/L	99
86)	1,4-Dichlorobutane	10.722	55	96179	8.843	ug/L	100
87)	1,1,2,2-Tetrachloroethane	10.806	83	48087	8.421	ug/L	99
88)	4-Ethyltoluene	10.828	105	344197	10.452	ug/L	99
89)	2-Chlorotoluene	10.870	91	232159M6	10.084	ug/L	
90)	1,3,5-Trimethylbenzene	10.934	105	279122	9.817	ug/L	99
91)	1,2,3-Trichloropropane	10.948	75	39953M4	8.889	ug/L	
92)	trans-1,4-Dichloro-2-b...	11.004	53	17793	9.079	ug/L	97
93)	4-Chlorotoluene	11.061	91	234289	9.705	ug/L	100
94)	tert-Butylbenzene	11.287	119	230446	9.728	ug/L	100
97)	1,2,4-Trimethylbenzene	11.372	105	280913	10.035	ug/L	99
98)	sec-Butylbenzene	11.485	105	333998	9.697	ug/L	100
99)	p-Isopropyltoluene	11.648	119	290341	9.848	ug/L	100
100)	1,3-Dichlorobenzene	11.712	146	146784	9.803	ug/L	99
101)	1,4-Dichlorobenzene	11.811	146	147515	9.652	ug/L	99
102)	p-Diethylbenzene	12.037	119	171781	9.954	ug/L	99
103)	n-Butylbenzene	12.094	91	244777	10.129	ug/L	99
104)	1,2-Dichlorobenzene	12.242	146	130780	9.663	ug/L	99
105)	1,2,4,5-Tetramethylben...	12.844	119	255960	9.832	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.042	155	7589	8.923	ug/L	96
107)	1,3,5-Trichlorobenzene	13.070	180	98264	9.799	ug/L	99
108)	Hexachlorobutadiene	13.650	225	34612	9.628	ug/L	99
109)	1,2,4-Trichlorobenzene	13.678	180	81683	9.507	ug/L	99
110)	Naphthalene	13.968	128	166814	9.048	ug/L	100
111)	1,2,3-Trichlorobenzene	14.138	180	67950	9.368	ug/L	99

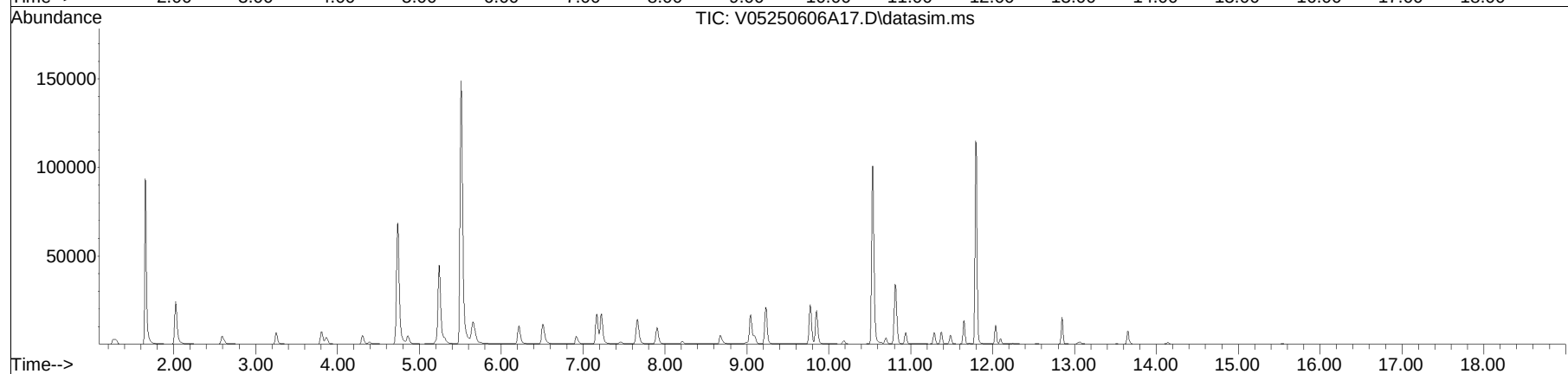
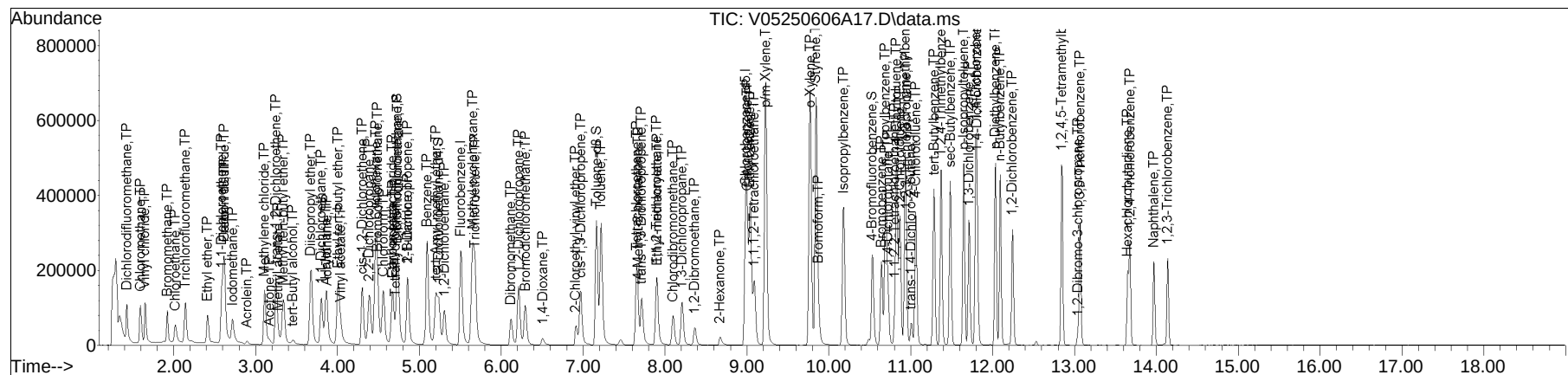
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250606AICAL\
 Data File : V05250606A17.D
 Acq On : 6 Jun 2025 9:19 pm
 Operator : VOA105:PID
 Sample : C8260STD10PPB
 Misc : WG2076082,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 07 14:02:02 2025
 Quant Method : K:\VOA105\2025\250606AICAL\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

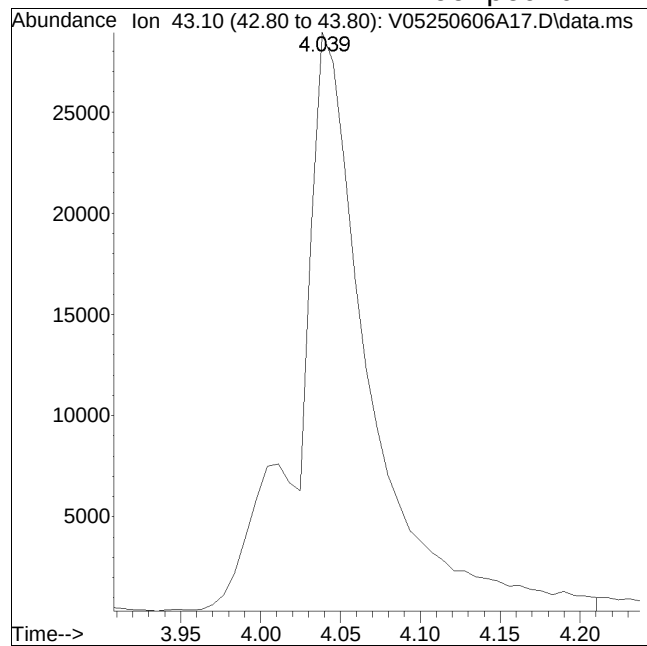
Sub List : 8260-Curve - Megamix plus Diox\VO5250606A08.D•



Manual Integration Report

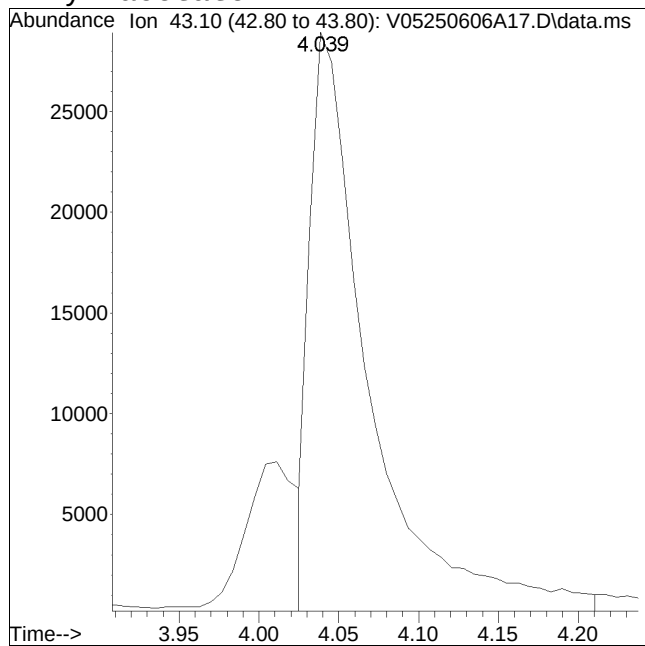
Data Path : K:\VOA105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A17.D Operator : VOA105:PID
Date Inj'd : 6/6/2025 9:19 pm Instrument : VOA105
Sample : C8260STD10PPB Quant Date : 6/7/2025 2:00 pm

Compound #27: Vinyl acetate



Original Peak Response = 88675

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

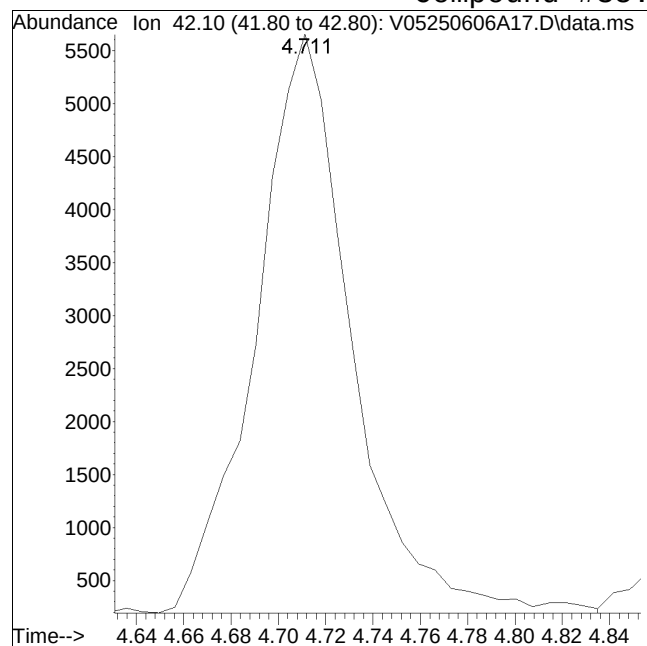


Manual Peak Response = 74176 M6

Manual Integration Report

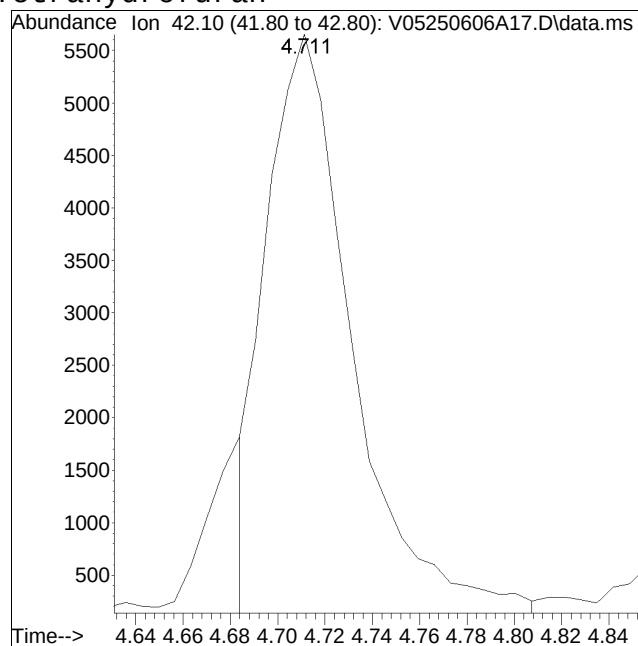
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A17.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 9:19 pm Instrument : V0A105
Sample : C8260STD10PPB Quant Date : 6/7/2025 2:00 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 15356

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

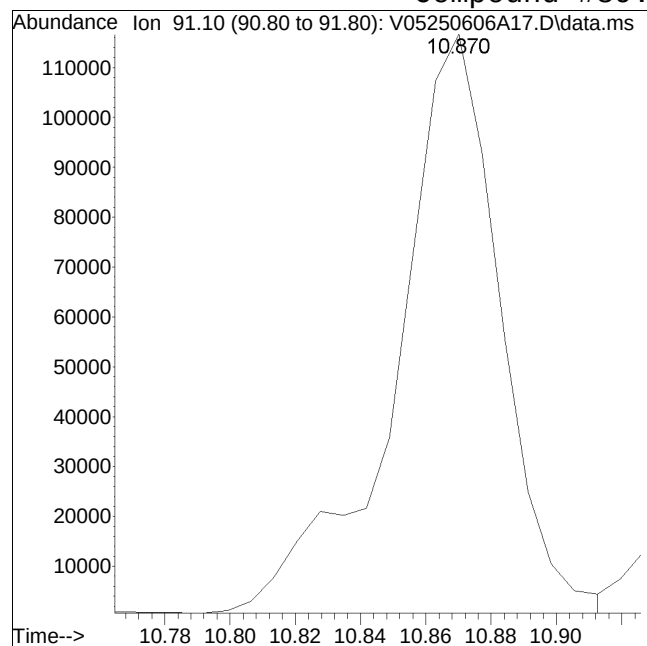


Manual Peak Response = 13902 M6

Manual Integration Report

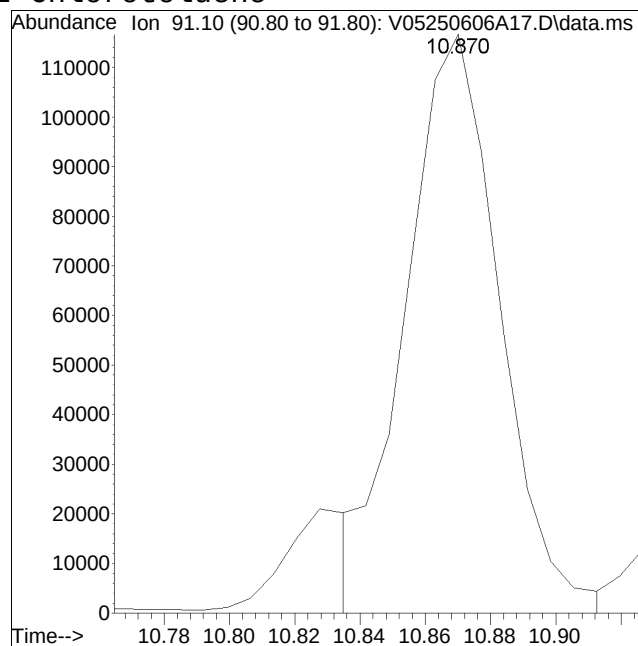
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A17.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 9:19 pm Instrument : V0A105
Sample : C8260STD10PPB Quant Date : 6/7/2025 2:00 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 256578

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

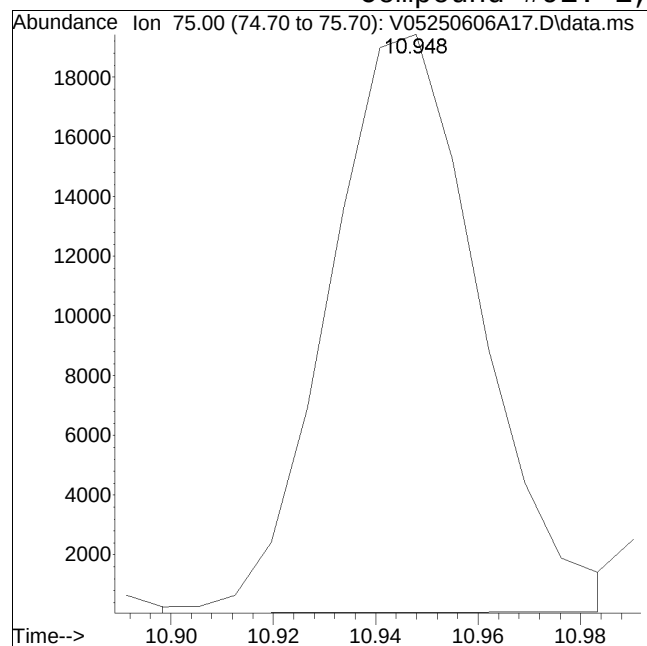


Manual Peak Response = 232159 M6

Manual Integration Report

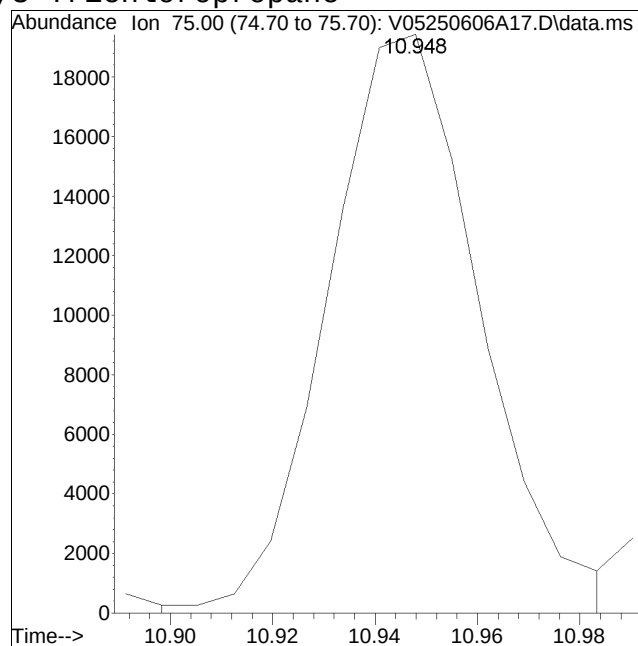
Data Path : K:\V0A105\2025\250606AICALQMethod : V105_250606A_8260.m
Data File : V05250606A17.D Operator : V0A105:PID
Date Inj'd : 6/6/2025 9:19 pm Instrument : V0A105
Sample : C8260STD10PPB Quant Date : 6/7/2025 2:00 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 39594

M4 = Poor automated baseline construction.



Manual Peak Response = 39953 M4

Method Path : K:\VOA105\2025\250606AICAL\
Method File : V105_250606A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Sat Jun 07 13:58:51 2025

COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
17 TP Acetone	L	ug/L	10.0	10.833	8.3	2.00	1.835	-8.3

Calibration Correlation Report

COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
17 TP Acetone	Linear	0.999284	0.000000	0.0444891	0.00844485

Response Factor Report VOA 108

Method Path : K:\VOA108\2025\250611AICAL\
Method File : V108_250611A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jun 11 15:00:39 2025
Response Via : Initial Calibration

Calibration Files

L11 =V08250611A04.d L1 =V08250611A06.d L2 =V08250611A08.d L3 =V08250611A10.d L4 =V08250611A11.d
L6 =V08250611A12.d L8 =V08250611A13.d L10 =V08250611A14.d

Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD

1) I	Fluorobenzene	-----ISTD-----									
2) TP	Dichlorodifluo...	0.170	0.268	0.277	0.249	0.268	0.272	0.248	0.250	14.80	
3) TP	Chloromethane	0.230	0.287	0.274	0.257	0.261	0.266	0.247	0.260	7.12	
4) TP	Vinyl chloride	0.337 0.254	0.348	0.358	0.303	0.312	0.306	0.267	0.311	11.89	
5) TP	Bromomethane	0.152	0.226	0.230	0.224	0.241	0.250	0.246	0.224	14.89	
6) TP	Chloroethane	0.206	0.277	0.252	0.226	0.224	0.217	0.165	0.224	15.62	
7) TP	Trichlorofluor...	0.588	0.785	0.830	0.724	0.751	0.746	0.683	0.730	10.62	
8) TP	Ethyl ether	0.210	0.210	0.199	0.194	0.188	0.186	0.169	0.194	7.54	
10) TP	1,1-Dichloroet...	0.284	0.373	0.322	0.334	0.356	0.358	0.334	0.337	8.63	
11) TP	Carbon disulfide	0.808	1.151	0.878	0.948	1.126	1.135	1.063	1.015	13.57	
12) TP	Freon-113	0.244	0.357	0.268	0.304	0.384	0.391	0.370	0.331	17.78	
14) TP	Acrolein		0.017	0.027	0.025	0.024	0.025	0.024	0.024	14.85	
15) TP	Methylene chlo...	0.402	0.289	0.280	0.251	0.250	0.255	0.241	0.281	19.91	
17) TP	Acetone		0.067	0.052	0.045	0.047	0.047	0.043	0.050	17.77	
18) TP	trans-1,2-Dich...	0.207	0.264	0.253	0.251	0.263	0.269	0.258	0.252	8.39	
19) TP	Methyl acetate		0.140	0.119	0.117	0.121	0.121	0.113	0.122	7.59	
20) TP	Methyl tert-bu...	0.539	0.604	0.617	0.618	0.639	0.642	0.606	0.609	5.63	
21) TP	tert-Butyl alc...		0.013	0.012	0.012	0.012	0.012	0.011	0.012	5.96	
22) TP	Diisopropyl ether	0.647	0.784	0.836	0.863	0.890	0.898	0.849	0.824	10.53	
23) TP	1,1-Dichloroet...	0.374	0.507	0.489	0.464	0.472	0.467	0.443	0.459	9.30	
24) TP	Halothane	0.156	0.216	0.225	0.210	0.217	0.222	0.214	0.209	11.41	
25) TP	Acrylonitrile		0.059	0.065	0.055	0.056	0.056	0.051	0.057	8.21	
26) TP	Ethyl tert-but...	0.497	0.594	0.618	0.667	0.711	0.730	0.713	0.647	12.90	
27) TP	Vinyl acetate	0.336	0.413	0.456	0.509	0.540	0.537	0.527	0.474	16.20	
28) TP	cis-1,2-Dichlo...	0.239	0.292	0.305	0.299	0.297	0.301	0.286	0.289	7.82	
29) TP	2,2-Dichloropr...	0.274	0.335	0.345	0.353	0.371	0.378	0.361	0.346	10.07	
30) TP	Bromochloromet...	0.160	0.170	0.163	0.161	0.168	0.173	0.173	0.167	3.22	
31) TP	Cyclohexane	0.248	0.352	0.394	0.383	0.416	0.420	0.406	0.374	16.07	
32) TP	Chloroform	0.553	0.572	0.521	0.504	0.492	0.490	0.470	0.515	7.10	
33) TP	Ethyl acetate	0.188	0.170	0.188	0.187	0.191	0.190	0.173	0.184	4.67	
34) TP	Carbon tetrach...	0.357 0.281	0.477	0.427	0.430	0.456	0.472	0.452	0.419	16.05	

Response Factor Report VOA 108

Method Path : K:\VOA108\2025\250611AICAL\
 Method File : V108_250611A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Jun 11 15:00:39 2025
 Response Via : Initial Calibration

Calibration Files

L11 =V08250611A04.d L1 =V08250611A06.d L2 =V08250611A08.d L3 =V08250611A10.d L4 =V08250611A11.d
 L6 =V08250611A12.d L8 =V08250611A13.d L10 =V08250611A14.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
35)	TP Tetrahydrofuran		0.060	0.061	0.060	0.055	0.057	0.052	0.058	6.10	
36)	S Dibromofluorom...	0.331	0.342	0.339	0.313	0.317	0.315	0.310	0.309	0.322	4.10
37)	TP 1,1,1-Trichlor...		0.311	0.446	0.460	0.435	0.452	0.458	0.436	0.428	12.33
39)	TP 2-Butanone		0.087	0.073	0.070	0.077	0.073	0.071	0.075		8.40
40)	TP 1,1-Dichloropr...		0.245	0.326	0.333	0.330	0.345	0.347	0.329	0.322	10.83
41)	TP Benzene	0.939	0.898	1.046	1.071	1.048	1.057	1.036	1.041	1.017	6.14
42)	TP tert-Amyl meth...		0.446	0.512	0.567	0.592	0.622	0.643	0.627	0.573	12.45
43)	S 1,2-Dichloroet...	0.316	0.313	0.311	0.306	0.296	0.304	0.300	0.316	0.308	2.41
44)	TP 1,2-Dichloroet...	0.356	0.306	0.324	0.323	0.300	0.308	0.307	0.295	0.315	6.19
47)	TP Methyl cyclohe...		0.308	0.355	0.352	0.409	0.426	0.436	0.381		13.26
48)	TP Trichloroethene	0.289	0.218	0.251	0.276	0.270	0.292	0.317	0.330	0.280	12.75
50)	TP Dibromomethane		0.148	0.156	0.163	0.154	0.156	0.161	0.155	0.156	3.18
51)	TP 1,2-Dichloropr...		0.203	0.238	0.250	0.255	0.253	0.254	0.239	0.242	7.69
53)	TP 2-Chloroethyl ...		0.094	0.108	0.117	0.126	0.129	0.116	0.115		11.06
54)	TP Bromodichlorom...		0.324	0.341	0.363	0.366	0.380	0.382	0.367	0.360	5.79
57)	TP 1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	6.33
58)	TP cis-1,3-Dichlo...	0.264	0.295	0.330	0.376	0.395	0.415	0.426	0.401	0.363	16.42
59)	I Chlorobenzene-d5	-----ISTD-----									
60)	S Toluene-d8	1.253	1.276	1.268	1.287	1.266	1.174	1.177	1.076	1.222	6.02
61)	TP Toluene		0.609	0.780	0.816	0.771	0.770	0.837	0.759	0.763	9.64
62)	TP 4-Methyl-2-pen...		0.040	0.054	0.066	0.071	0.071	0.072	0.064	0.063	18.89
63)	TP Tetrachloroethene	0.369	0.281	0.335	0.376	0.361	0.363	0.401	0.385	0.359	10.26
65)	TP trans-1,3-Dich...	0.322	0.279	0.343	0.419	0.420	0.416	0.435	0.401	0.379	15.07
67)	TP Ethyl methacry...		0.210	0.289	0.313	0.303	0.322	0.288	0.288		13.94
68)	TP 1,1,2-Trichlor...		0.228	0.214	0.228	0.218	0.203	0.216	0.196	0.215	5.62
69)	TP Chlorodibromom...		0.317	0.311	0.365	0.373	0.366	0.393	0.359	0.355	8.46
70)	TP 1,3-Dichloropr...		0.368	0.431	0.454	0.434	0.402	0.419	0.368	0.411	8.11
71)	TP 1,2-Dibromoethane		0.194	0.236	0.264	0.242	0.231	0.245	0.222	0.233	9.29
72)	TP 2-Hexanone		0.109	0.130	0.142	0.137	0.143	0.125	0.131		9.69
73)	TP Chlorobenzene		0.869	0.907	0.980	0.947	0.960	1.051	0.960	0.954	6.01
74)	TP Ethylbenzene		1.093	1.387	1.610	1.540	1.670	1.777	1.629	1.529	14.83

Response Factor Report VOA 108

Method Path : K:\VOA108\2025\250611AICAL\
 Method File : V108_250611A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Jun 11 15:00:39 2025
 Response Via : Initial Calibration

Calibration Files

L11 =V08250611A04.d L1 =V08250611A06.d L2 =V08250611A08.d L3 =V08250611A10.d L4 =V08250611A11.d
 L6 =V08250611A12.d L8 =V08250611A13.d L10 =V08250611A14.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
75)	TP 1,1,1,2-Tetrac...	0.251	0.322	0.375	0.375	0.397	0.425	0.396	0.363	16.12	
76)	TP p/m Xylene	0.409	0.557	0.637	0.642	0.725	0.795	0.787	*Q	0.9986	
77)	TP o Xylene	0.462	0.553	0.624	0.645	0.744	0.809	0.789	0.661	19.36	
78)	TP Styrene	0.654	0.842	1.029	1.110	1.258	1.365	1.269	*Q	0.9971	
79)	I 1,4-Dichlorobenzene-d4	-----ISTD-----									
80)	TP Bromoform	0.277	0.307	0.362	0.378	0.438	0.472	0.429	0.380	18.76	
82)	TP Isopropylbenzene	2.080	2.461	2.715	2.577	2.828	3.060	2.783	2.644	11.83	
83)	S 4-Bromofluorob...	0.707	0.748	0.724	0.628	0.662	0.643	0.617	0.682	7.34	
84)	TP Bromobenzene	0.773	0.722	0.745	0.657	0.724	0.778	0.720	0.731	5.56	
85)	TP n-Propylbenzene	2.404	2.877	3.260	2.956	3.296	3.654	3.250	3.100	12.83	
86)	TP 1,4-Dichlorobu...	0.695	0.658	0.707	0.629	0.655	0.674	0.594	0.659	5.88	
87)	TP 1,1,2,2-Tetrac...	0.470	0.570	0.553	0.480	0.476	0.493	0.408	0.500	10.93	
88)	TP 4-Ethyltoluene	1.972	2.394	2.696	2.523	2.717	2.971	2.732	2.572	12.45	
89)	TP 2-Chlorotoluene	1.574	1.756	1.907	1.791	1.860	1.933	1.775	1.800	6.66	
90)	TP 1,3,5-Trimethy...	1.691	2.020	2.355	2.265	2.562	2.829	2.643	2.338	16.66	
91)	TP 1,2,3-Trichlor...	0.425	0.403	0.430	0.391	0.419	0.433	0.398	0.414	4.05	
92)	TP trans-1,4-Dich...		0.131	0.127	0.115	0.121	0.123	0.106	0.120	7.34	
93)	TP 4-Chlorotoluene	1.512	1.741	1.916	1.805	1.888	2.075	1.889	1.832	9.54	
94)	TP tert-Butylbenzene	1.539	1.817	1.998	1.930	2.141	2.317	2.121	1.981	12.76	
97)	TP 1,2,4-Trimethy...	1.630	2.051	2.351	2.263	2.518	2.694	2.508	2.288	15.55	
98)	TP sec-Butylbenzene	2.074	2.717	3.075	2.844	3.194	3.399	3.069	2.910	14.80	
99)	TP p-Isopropyltol...	1.514	2.183	2.641	2.552	2.841	3.081	2.836	*L	0.9976	
100)	TP 1,3-Dichlorobe...	1.313	1.391	1.470	1.443	1.542	1.627	1.545	1.476	7.16	
101)	TP 1,4-Dichlorobe...	1.426	1.440	1.484	1.448	1.515	1.652	1.556	1.503	5.32	
102)	TP p-Diethylbenzene		1.250	1.514	1.470	1.671	1.822	1.726	1.575	13.10	
103)	TP n-Butylbenzene	1.540	2.027	2.256	2.135	2.393	2.515	2.286	2.165	14.71	
104)	TP 1,2-Dichlorobe...	1.141	1.345	1.406	1.326	1.385	1.496	1.392	1.356	8.05	
105)	TP 1,2,4,5-Tetram...		1.862	2.450	2.472	2.801	3.129	2.855	2.595	16.97	
106)	TP 1,2-Dibromo-3-...	0.042	0.066	0.086	0.083	0.085	0.086	0.075	*L	0.9958	
107)	TP 1,3,5-Trichlor...	0.840	0.939	1.025	0.961	1.069	1.169	1.144	1.021	11.49	
108)	TP Hexachlorobuta...	0.355	0.380	0.439	0.379	0.472	0.526	0.557	0.444	17.60	

Response Factor Report VOA 108

Method Path : K:\VOA108\2025\250611AICAL\
Method File : V108_250611A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jun 11 15:00:39 2025
Response Via : Initial Calibration

Calibration Files

L11 =V08250611A04.d L1 =V08250611A06.d L2 =V08250611A08.d L3 =V08250611A10.d L4 =V08250611A11.d
L6 =V08250611A12.d L8 =V08250611A13.d L10 =V08250611A14.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
109) TP 1,2,4-Trichlor...	0.784	0.753	0.896	0.817	0.916	1.010	1.053	0.890	12.72	
110) TP Naphthalene	1.316	1.399	1.757	1.673	1.829	1.954	1.762	1.670	13.85	
111) TP 1,2,3-Trichlor...	0.753	0.763	0.799	0.736	0.814	0.881	0.845	0.799	6.55	

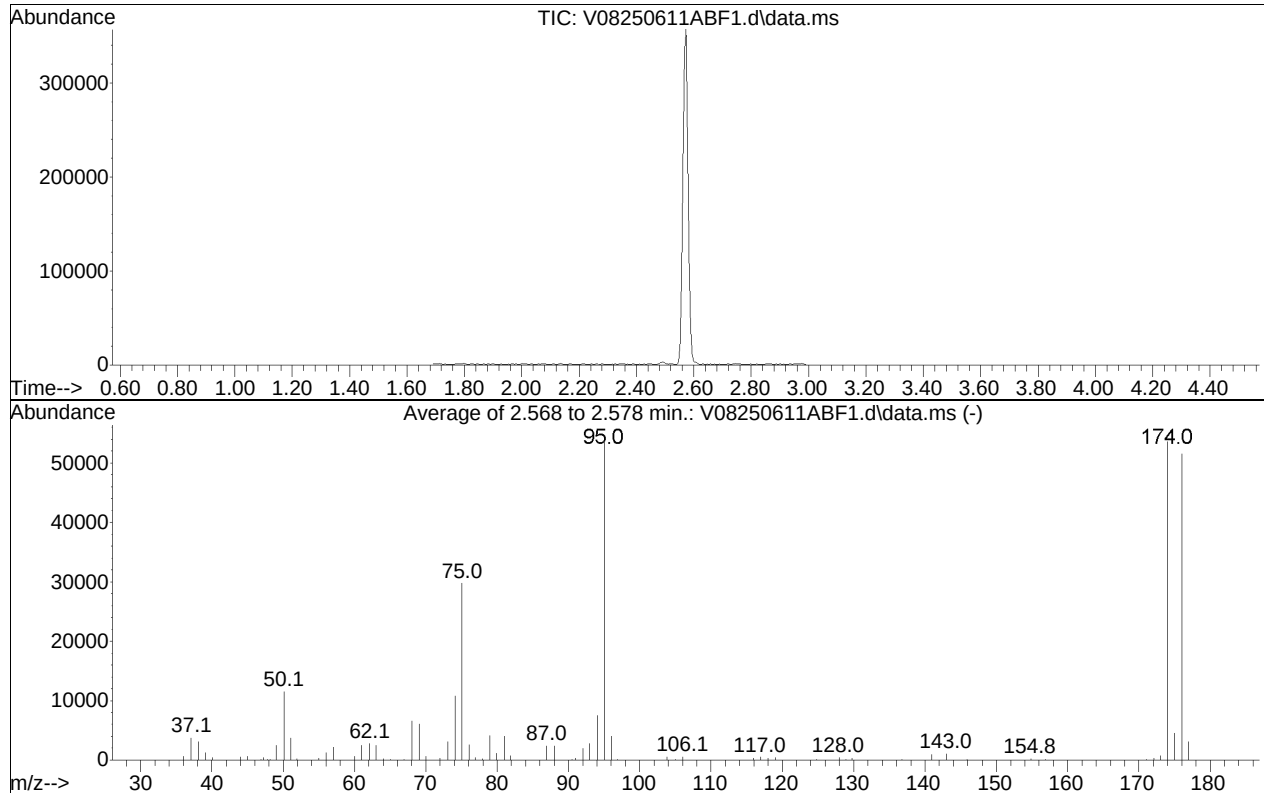
(#) = Out of Range

BFB

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611ABF1.d
 Acq On : 11 Jun 2025 2:40 am
 Operator : VOA108:TMS
 Sample : WG2077605-1
 Misc : WG2077605
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Jun 11 11:20:39 2025



AutoFind: Scans 168, 169, 170; Background Corrected with Scan 161

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.4	11514	PASS
75	95	30	60	55.4	29768	PASS
95	95	100	100	100.0	53752	PASS
96	95	5	9	7.5	4015	PASS
173	174	0.00	2	1.4	745	PASS
174	95	50	100	99.7	53595	PASS
175	174	5	9	8.4	4523	PASS
176	174	95	101	96.2	51568	PASS
177	176	5	9	6.1	3137	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A04.d
 Acq On : 11 Jun 2025 4:08 am
 Operator : VOA108:PID
 Sample : I8260STD0.19PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 11 11:02:42 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	269718	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery =	95.74%		
59) Chlorobenzene-d5	9.410	117	206509	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery =	97.44%		
79) 1,4-Dichlorobenzene-d4	12.130	152	116865	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery =	94.48%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	89269	10.274	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.74%		
43) 1,2-Dichloroethane-d4	5.612	65	85288	10.277	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.77%		
60) Toluene-d8	7.576	98	258719	10.251	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.51%		
83) 4-Bromofluorobenzene	10.909	95	82656	10.374	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.74%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	1.870	62	1728	0.206	ug/L	70
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.	d	
7) Trichlorofluoromethane	0.000		0	N.D.	d	
8) Ethyl ether	0.000		0	N.D.	d	
10) 1,1-Dichloroethene	0.000		0	N.D.	d	
11) Carbon disulfide	0.000		0	N.D.	d	
12) Freon-113	0.000		0	N.D.	d	
14) Acrolein	0.000		0	N.D.	d	
15) Methylene chloride	0.000		0	N.D.	d	
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.	d	
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	0.000		0	N.D.	d	
21) tert-Butyl alcohol	0.000		0	N.D.	d	
22) Diisopropyl ether	0.000		0	N.D.	d	
23) 1,1-Dichloroethane	0.000		0	N.D.	d	
24) Halothane	0.000		0	N.D.	d	
25) Acrylonitrile	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A04.d
 Acq On : 11 Jun 2025 4:08 am
 Operator : VOA108:PID
 Sample : I8260STD0.19PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 11 11:02:42 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	0.000		0	N.D.	d	
27) Vinyl acetate	0.000		0	N.D.	d	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	d	
29) 2,2-Dichloropropane	0.000		0	N.D.	d	
30) Bromochloromethane	0.000		0	N.D.	d	
31) Cyclohexane	0.000		0	N.D.	d	
32) Chloroform	0.000		0	N.D.	d	
33) Ethyl acetate	0.000		0	N.D.	d	
34) Carbon tetrachloride	5.056	117	1830M4	0.162	ug/L	
35) Tetrahydrofuran	0.000		0	N.D.	d	
37) 1,1,1-Trichloroethane	0.000		0	N.D.	d	
39) 2-Butanone	0.000		0	N.D.	d	
40) 1,1-Dichloropropene	0.000		0	N.D.	d	
41) Benzene	5.489	78	4814	0.176	ug/L #	81
42) tert-Amyl methyl ether	0.000		0	N.D.	d	
44) 1,2-Dichloroethane	5.701	62	1826	0.215	ug/L #	74
47) Methyl cyclohexane	0.000		0	N.D.	d	
48) Trichloroethene	6.084	95	1480	0.196	ug/L #	79
50) Dibromomethane	0.000		0	N.D.	d	
51) 1,2-Dichloropropane	0.000		0	N.D.	d	
53) 2-Chloroethyl vinyl ether	0.000		0	N.D.	d	
54) Bromodichloromethane	0.000		0	N.D.	d	
57) 1,4-Dioxane	0.000		0	N.D.	d	
58) cis-1,3-Dichloropropene	7.384	75	1352	0.138	ug/L #	27
61) Toluene	0.000		0	N.D.	d	
62) 4-Methyl-2-pentanone	0.000		0	N.D.	d	
63) Tetrachloroethene	8.082	166	1449	0.196	ug/L	81
65) trans-1,3-Dichloropropene	8.123	75	1263M1	0.161	ug/L	
67) Ethyl methacrylate	0.000		0	N.D.	d	
68) 1,1,2-Trichloroethane	0.000		0	N.D.	d	
69) Chlorodibromomethane	0.000		0	N.D.	d	
70) 1,3-Dichloropropane	0.000		0	N.D.	d	
71) 1,2-Dibromoethane	0.000		0	N.D.	d	
72) 2-Hexanone	0.000		0	N.D.	d	
73) Chlorobenzene	0.000		0	N.D.	d	
74) Ethylbenzene	0.000		0	N.D.	d	
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	d	
76) p/m Xylene	0.000		0	N.D.	d	
77) o Xylene	0.000		0	N.D.	d	
78) Styrene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A04.d
 Acq On : 11 Jun 2025 4:08 am
 Operator : VOA108:PID
 Sample : I8260STD0.19PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 11 11:02:42 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
80)	Bromoform	0.000		0	N.D.	d		
82)	Isopropylbenzene	0.000		0	N.D.	d		
84)	Bromobenzene	0.000		0	N.D.	d		
85)	n-Propylbenzene	0.000		0	N.D.	d		
86)	1,4-Dichlorobutane	0.000		0	N.D.	d		
87)	1,1,2,2-Tetrachloroethane	11.156	83	1043	0.178	ug/L	#	93
88)	4-Ethyltoluene	0.000		0	N.D.	d		
89)	2-Chlorotoluene	0.000		0	N.D.	d		
90)	1,3,5-Trimethylbenzene	0.000		0	N.D.	d		
91)	1,2,3-Trichloropropane	0.000		0	N.D.	d		
92)	trans-1,4-Dichloro-2-b...	0.000		0	N.D.	d		
93)	4-Chlorotoluene	0.000		0	N.D.	d		
94)	tert-Butylbenzene	0.000		0	N.D.	d		
97)	1,2,4-Trimethylbenzene	0.000		0	N.D.	d		
98)	sec-Butylbenzene	0.000		0	N.D.	d		
99)	p-Isopropyltoluene	0.000		0	N.D.	d		
100)	1,3-Dichlorobenzene	0.000		0	N.D.	d		
101)	1,4-Dichlorobenzene	0.000		0	N.D.	d		
102)	p-Diethylbenzene	0.000		0	N.D.	d		
103)	n-Butylbenzene	0.000		0	N.D.	d		
104)	1,2-Dichlorobenzene	0.000		0	N.D.	d		
105)	1,2,4,5-Tetramethylben...	0.000		0	N.D.	d		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.	d		
107)	1,3,5-Trichlorobenzene	0.000		0	N.D.	d		
108)	Hexachlorobutadiene	0.000		0	N.D.	d		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.	d		
110)	Naphthalene	0.000		0	N.D.	d		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.	d		

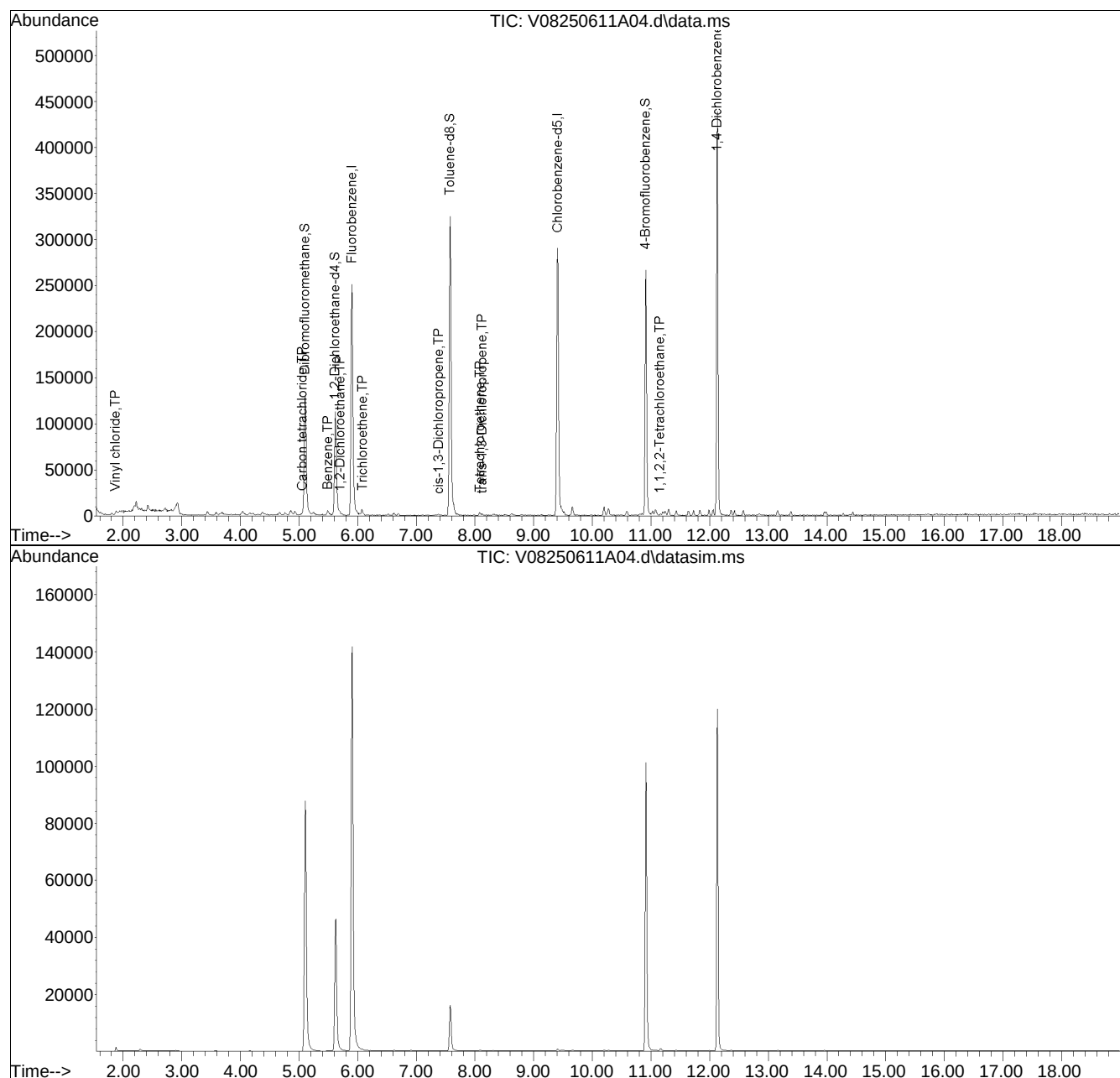
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A04.d
 Acq On : 11 Jun 2025 4:08 am
 Operator : VOA108:PID
 Sample : I8260STD0.19PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 11 11:02:42 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

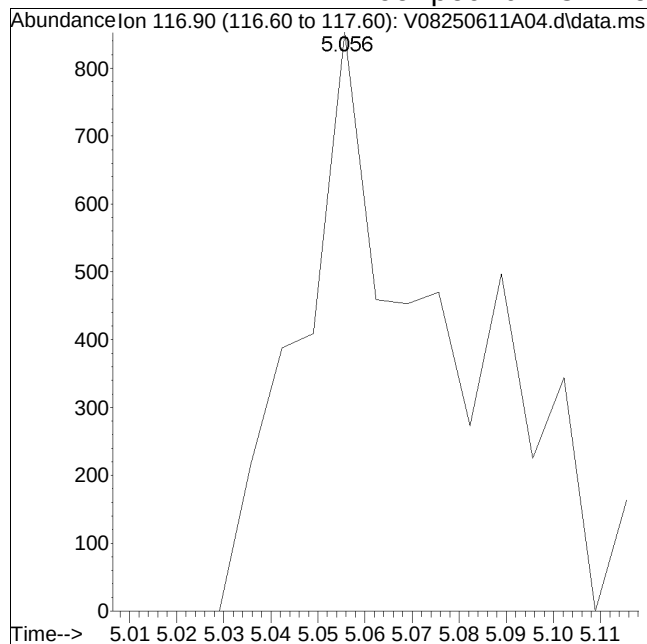
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

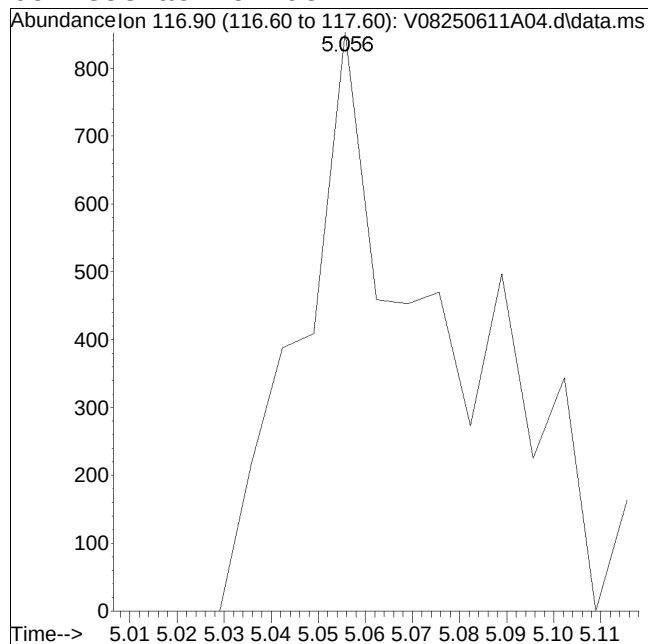
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A04.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 4:08 am Instrument : V0A 108
Sample : I8260STD0.19PPB Quant Date : 6/11/2025 11:02 am

Compound #34: Carbon tetrachloride



Original Peak Response = 1830

M4 = Poor automated baseline construction.

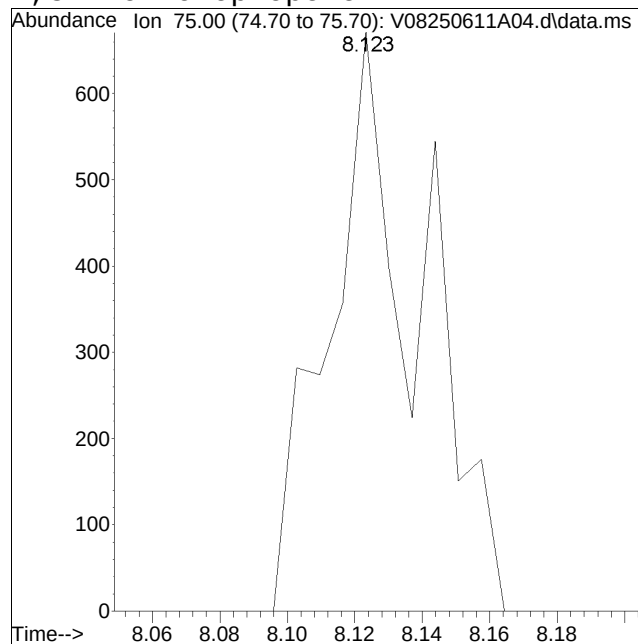
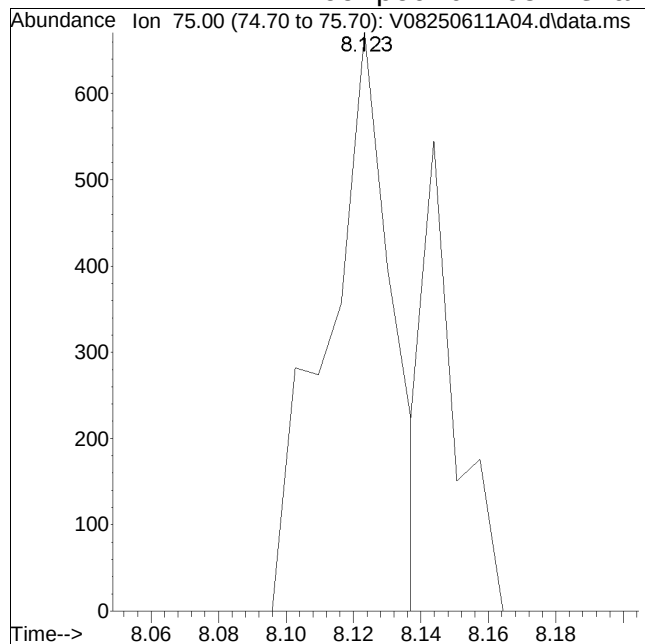


Manual Peak Response = 1830 M4

Manual Integration Report

Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A04.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 4:08 am Instrument : V0A 108
Sample : I8260STD0.19PPB Quant Date : 6/11/2025 11:02 am

Compound #65: trans-1,3-Dichloropropene



Original Peak Response = 905

Manual Peak Response = 1263 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A06.d
 Acq On : 11 Jun 2025 4:52 am
 Operator : VOA108:PID
 Sample : I8260STD0.5PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 11 11:02:52 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	263146	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	93.40%	
59) Chlorobenzene-d5	9.409	117	195805	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	92.39%	
79) 1,4-Dichlorobenzene-d4	12.130	152	105178	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	85.03%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	90078	10.626	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	106.26%	
43) 1,2-Dichloroethane-d4	5.611	65	82289	10.163	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	101.63%	
60) Toluene-d8	7.575	98	249883	10.442	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	104.42%	
83) 4-Bromofluorobenzene	10.909	95	78720	10.978	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	109.78%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	2241	0.340	ug/L	91
3) Chloromethane	1.796	50	3026	0.442	ug/L	94
4) Vinyl chloride	1.870	62	3338	0.409	ug/L	96
5) Bromomethane	2.169	94	2001	0.339	ug/L #	76
6) Chloroethane	2.295	64	2716	0.461	ug/L	81
7) Trichlorofluoromethane	2.422	101	7738	0.403	ug/L #	80
8) Ethyl ether	2.708	74	2763	0.542	ug/L #	78
10) 1,1-Dichloroethene	2.887	96	3742	0.422	ug/L	97
11) Carbon disulfide	2.927	76	10629	0.398	ug/L	95
12) Freon-113	2.927	101	3213	0.369	ug/L	98
14) Acrolein	3.206	56	170	0.290	ug/L	95
15) Methylene chloride	3.439	84	5286	0.715	ug/L	94
17) Acetone	3.479	43	1742	1.069	ug/L	98
18) trans-1,2-Dichloroethene	3.585	96	2717	0.409	ug/L	89
19) Methyl acetate	3.585	43	1476M6	0.466	ug/L	
20) Methyl tert-butyl ether	3.679	73	7094	0.442	ug/L #	85
21) tert-Butyl alcohol	3.778	59	669	2.133	ug/L #	50
22) Diisopropyl ether	4.038	45	8512	0.393	ug/L #	90
23) 1,1-Dichloroethane	4.151	63	4916	0.407	ug/L	96
24) Halothane	4.211	117	2050	0.373	ug/L #	78
25) Acrylonitrile	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A06.d
 Acq On : 11 Jun 2025 4:52 am
 Operator : VOA108:PID
 Sample : I8260STD0.5PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 11 11:02:52 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.384	59	6545	0.384	ug/L	91
27) Vinyl acetate	4.397	43	4418	0.354	ug/L #	84
28) cis-1,2-Dichloroethene	4.663	96	3149	0.415	ug/L	85
29) 2,2-Dichloropropane	4.769	77	3607M6	0.397	ug/L	
30) Bromochloromethane	4.856	128	2110	0.481	ug/L	89
31) Cyclohexane	4.856	56	3269	0.332	ug/L	88
32) Chloroform	4.929	83	7277	0.537	ug/L	92
33) Ethyl acetate	5.055	43	2476	0.512	ug/L #	83
34) Carbon tetrachloride	5.049	117	3697	0.335	ug/L	98
35) Tetrahydrofuran	0.000		0	N.D.	d	
37) 1,1,1-Trichloroethane	5.128	97	4086	0.363	ug/L	93
39) 2-Butanone	0.000		0	N.D.	d	
40) 1,1-Dichloropropene	5.255	75	3227	0.380	ug/L	92
41) Benzene	5.488	78	11819	0.442	ug/L	97
42) tert-Amyl methyl ether	5.598	73	5865	0.389	ug/L	92
44) 1,2-Dichloroethane	5.687	62	4031	0.486	ug/L	97
47) Methyl cyclohexane	6.077	83	2980	0.316	ug/L	100
48) Trichloroethene	6.077	95	2863	0.388	ug/L #	92
50) Dibromomethane	6.508	93	1946	0.474	ug/L	92
51) 1,2-Dichloropropane	6.617	63	2667	0.419	ug/L #	89
53) 2-Chloroethyl vinyl ether	7.315	63	814	0.288	ug/L #	66
54) Bromodichloromethane	6.693	83	4261	0.449	ug/L #	98
57) 1,4-Dioxane	6.891	88	3240	89.554	ug/L #	93
58) cis-1,3-Dichloropropene	7.384	75	3877	0.406	ug/L #	79
61) Toluene	7.637	92	5959	0.399	ug/L	98
62) 4-Methyl-2-pentanone	8.095	58	389	0.318	ug/L #	62
63) Tetrachloroethene	8.088	166	2753	0.392	ug/L	91
65) trans-1,3-Dichloropropene	8.130	75	2728	0.367	ug/L #	72
67) Ethyl methacrylate	8.314	69	1420	0.271	ug/L #	77
68) 1,1,2-Trichloroethane	8.307	83	2237	0.532	ug/L	84
69) Chlorodibromomethane	8.513	129	3105	0.447	ug/L	86
70) 1,3-Dichloropropane	8.615	76	3604	0.448	ug/L	95
71) 1,2-Dibromoethane	8.780	107	1899	0.416	ug/L #	73
72) 2-Hexanone	0.000		0	N.D.	d	
73) Chlorobenzene	9.430	112	8506	0.456	ug/L	98
74) Ethylbenzene	9.471	91	10701M6	0.357	ug/L	
75) 1,1,1,2-Tetrachloroethane	9.512	131	2458	0.346	ug/L #	76
76) p/m Xylene	9.655	106	8013	0.629	ug/L	96
77) o Xylene	10.196	106	9037	0.698	ug/L	86
78) Styrene	10.264	104	12800	0.608	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A06.d
 Acq On : 11 Jun 2025 4:52 am
 Operator : VOA108:PID
 Sample : I8260STD0.5PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 11 11:02:52 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.299	173	1456	0.364	ug/L	95
82)	Isopropylbenzene	10.586	105	10941	0.394	ug/L	100
84)	Bromobenzene	11.025	156	4064	0.528	ug/L #	79
85)	n-Propylbenzene	11.073	91	12642	0.388	ug/L	100
86)	1,4-Dichlorobutane	11.087	55	3654	0.527	ug/L	92
87)	1,1,2,2-Tetrachloroethane	11.156	83	2996	0.569	ug/L	94
88)	4-Ethyltoluene	11.197	105	10371	0.383	ug/L	94
89)	2-Chlorotoluene	11.238	91	8280M6	0.426	ug/L	
90)	1,3,5-Trimethylbenzene	11.300	105	8891	0.362	ug/L #	85
91)	1,2,3-Trichloropropane	11.306	75	2235	0.513	ug/L #	83
92)	trans-1,4-Dichloro-2-b...	11.361	53	412	0.343	ug/L #	82
93)	4-Chlorotoluene	11.423	91	7952	0.413	ug/L	94
94)	tert-Butylbenzene	11.636	119	8094	0.389	ug/L	94
97)	1,2,4-Trimethylbenzene	11.718	105	8571	0.356	ug/L	97
98)	sec-Butylbenzene	11.835	105	10907	0.356	ug/L	100
99)	p-Isopropyltoluene	11.986	119	7962	0.300	ug/L #	89
100)	1,3-Dichlorobenzene	12.054	146	6907	0.445	ug/L	98
101)	1,4-Dichlorobenzene	12.143	146	7499	0.474	ug/L #	78
102)	p-Diethylbenzene	12.363	119	4943	0.317	ug/L	98
103)	n-Butylbenzene	12.418	91	8098	0.356	ug/L #	95
104)	1,2-Dichlorobenzene	12.569	146	6002	0.421	ug/L	97
105)	1,2,4,5-Tetramethylben...	13.159	119	8230	0.320	ug/L	97
106)	1,2-Dibromo-3-chloropr...	13.351	155	220M6	0.280	ug/L	
107)	1,3,5-Trichlorobenzene	13.385	180	4418	0.411	ug/L	92
108)	Hexachlorobutadiene	13.961	225	1867	0.400	ug/L	93
109)	1,2,4-Trichlorobenzene	13.982	180	4124	0.441	ug/L #	85
110)	Naphthalene	14.270	128	6921	0.394	ug/L	100
111)	1,2,3-Trichlorobenzene	14.441	180	3958	0.471	ug/L #	86

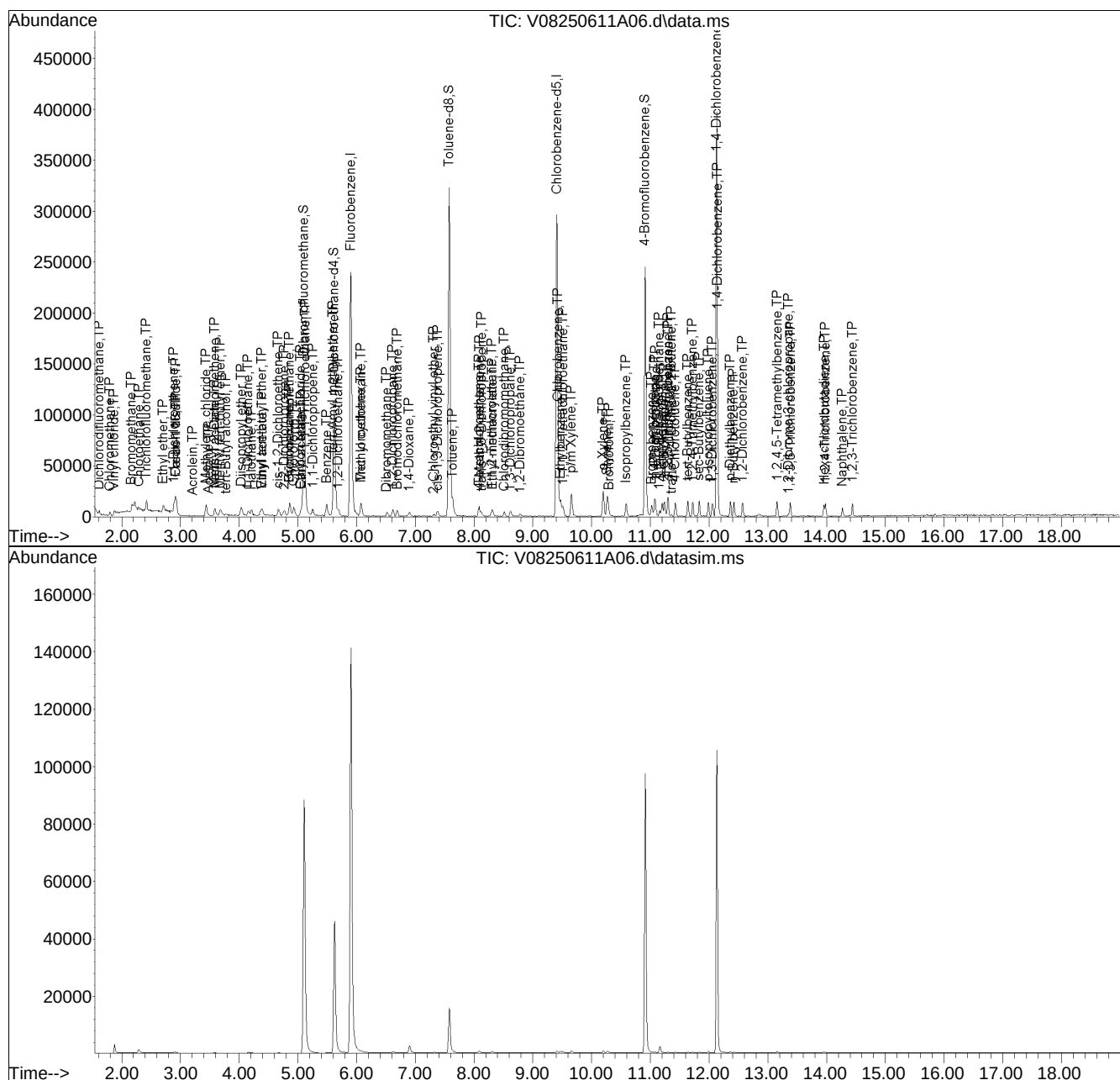
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A06.d
 Acq On : 11 Jun 2025 4:52 am
 Operator : VOA108:PID
 Sample : I8260STD0.5PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 11 11:02:52 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

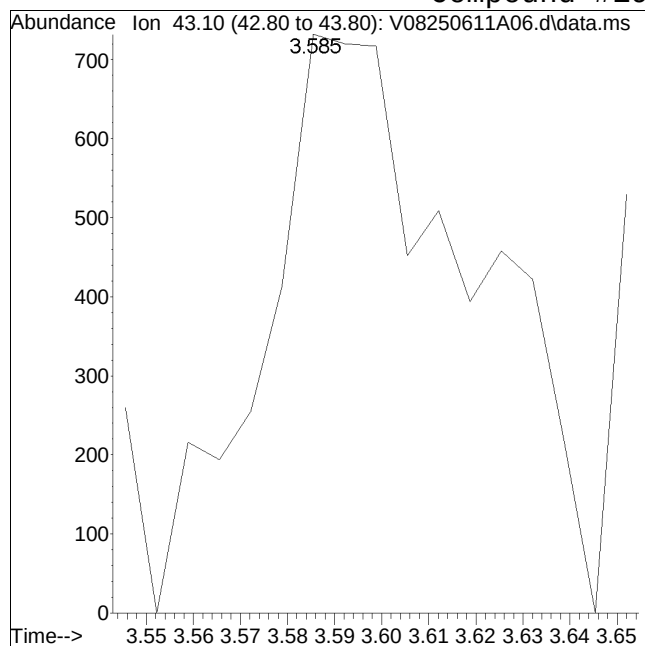
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

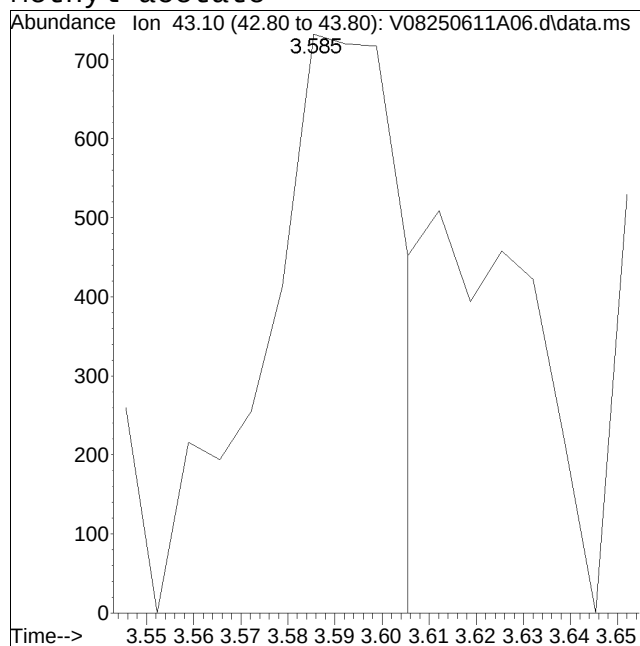
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A06.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 4:52 am Instrument : V0A 108
Sample : I8260STD0.5PPB Quant Date : 6/11/2025 11:02 am

Compound #19: Methyl acetate



Original Peak Response = 2275

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

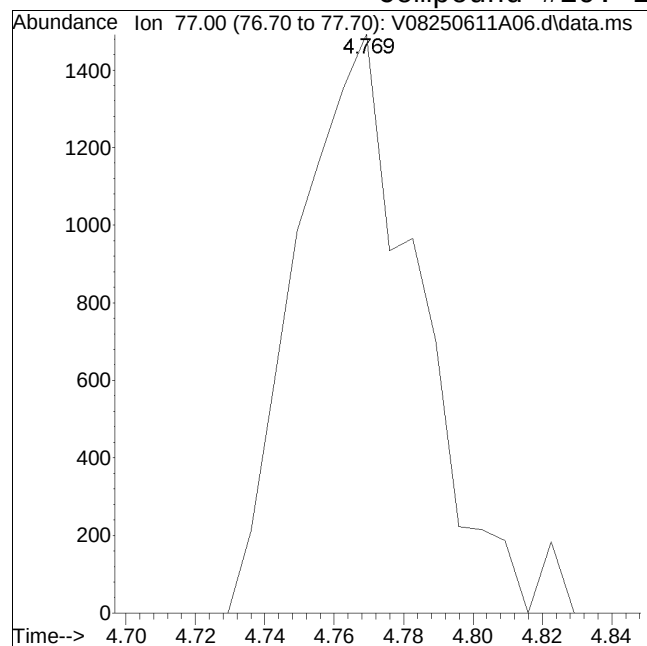


Manual Peak Response = 1476 M6

Manual Integration Report

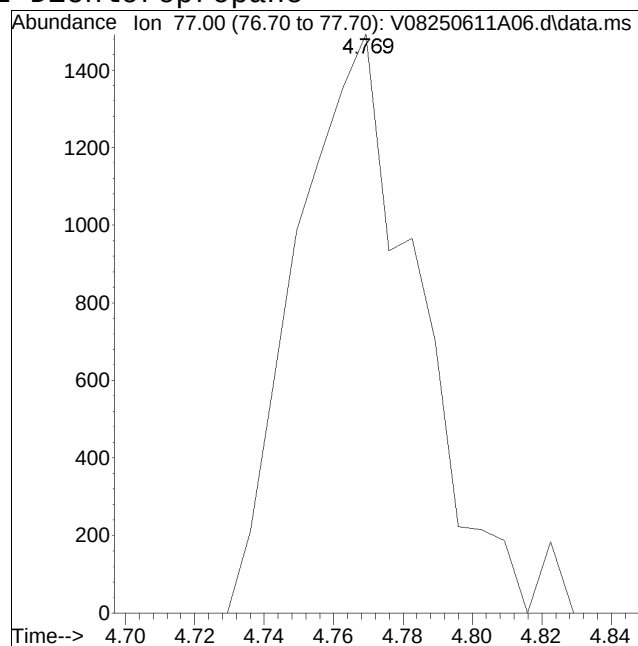
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A06.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 4:52 am Instrument : V0A 108
Sample : I8260STD0.5PPB Quant Date : 6/11/2025 11:02 am

Compound #29: 2,2-Dichloropropane



Original Peak Response = 3680

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

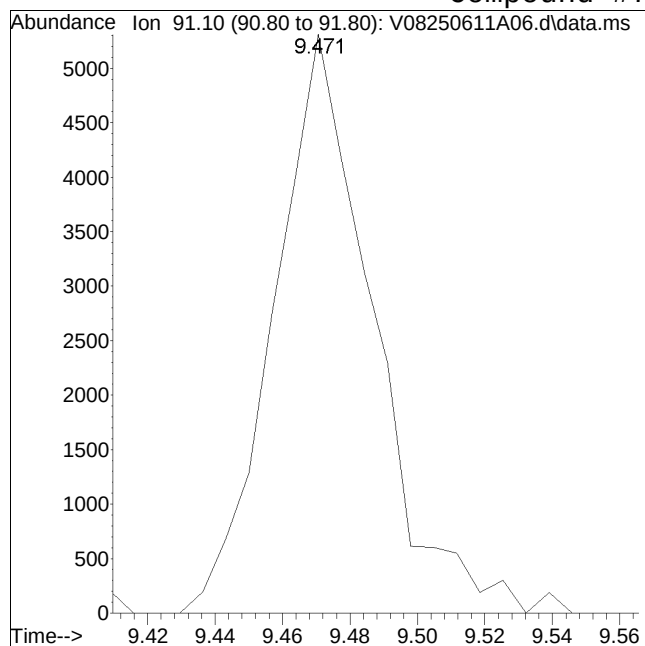


Manual Peak Response = 3607 M6

Manual Integration Report

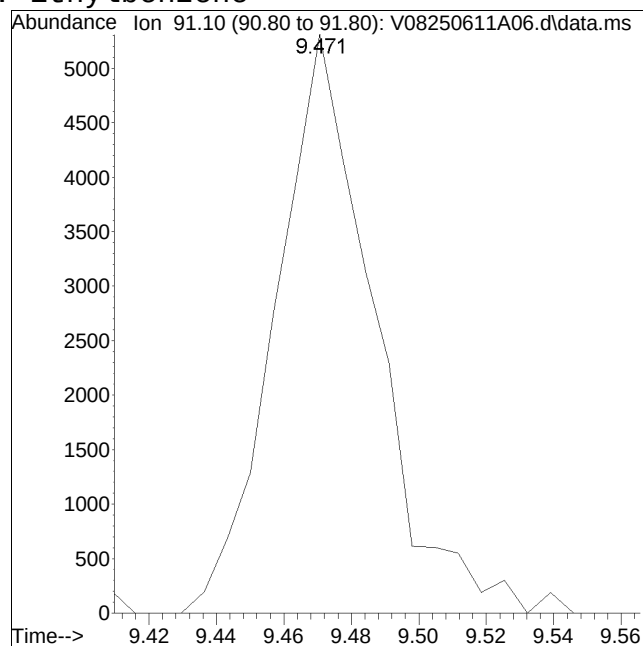
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A06.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 4:52 am Instrument : V0A 108
Sample : I8260STD0.5PPB Quant Date : 6/11/2025 11:02 am

Compound #74: Ethylbenzene



Original Peak Response = 10780

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

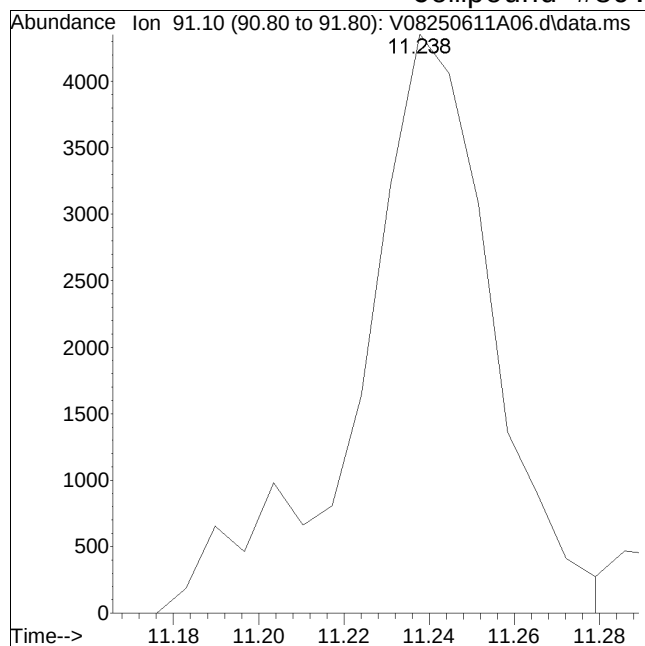


Manual Peak Response = 10701 M6

Manual Integration Report

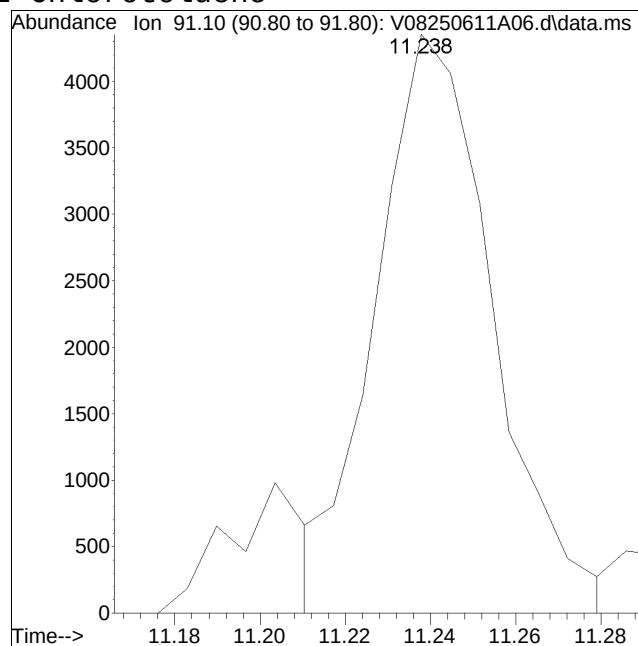
Data Path : K:\VOA108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A06.d Operator : VOA108:PID
Date Inj'd : 6/11/2025 4:52 am Instrument : VOA 108
Sample : I8260STD0.5PPB Quant Date : 6/11/2025 11:02 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 9491

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

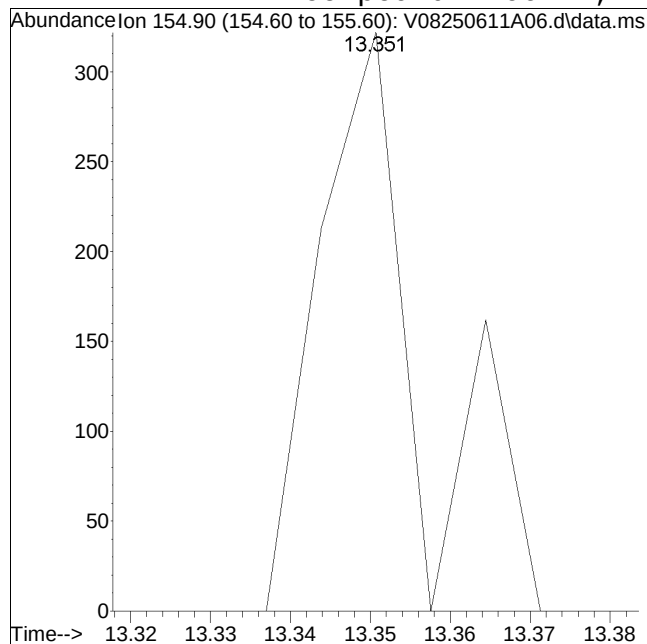


Manual Peak Response = 8280 M6

Manual Integration Report

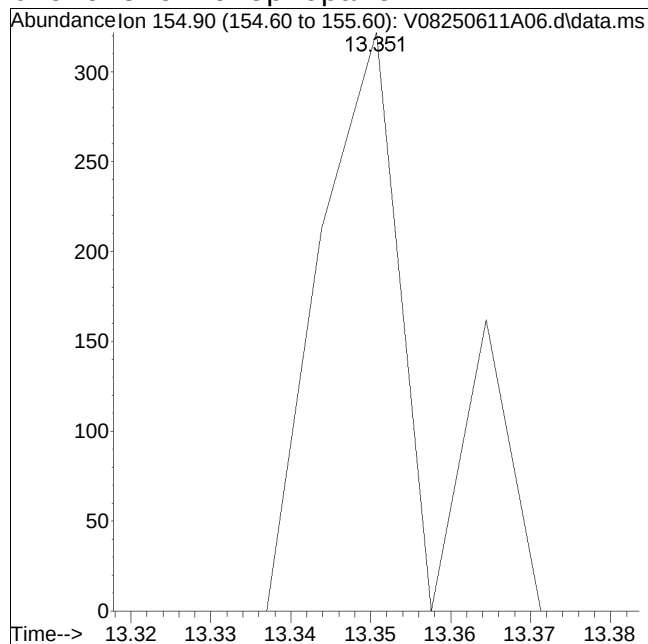
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A06.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 4:52 am Instrument : V0A 108
Sample : I8260STD0.5PPB Quant Date : 6/11/2025 11:02 am

Compound #106: 1,2-Dibromo-3-chloropropane



Original Peak Response = 287

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



Manual Peak Response = 220 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A08.d
 Acq On : 11 Jun 2025 5:36 am
 Operator : VOA108:PID
 Sample : I8260STD2PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 11 11:02:58 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	272892	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	96.86%	
59) Chlorobenzene-d5	9.409	117	211197	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	99.66%	
79) 1,4-Dichlorobenzene-d4	12.130	152	122245	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	98.83%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	92481	10.520	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	105.20%	
43) 1,2-Dichloroethane-d4	5.619	65	84872	10.108	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	101.08%	
60) Toluene-d8	7.576	98	267790	10.375	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	103.75%	
83) 4-Bromofluorobenzene	10.909	95	88466	10.615	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	106.15%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	14651	2.144	ug/L	98
3) Chloromethane	1.797	50	15674	2.206	ug/L	99
4) Vinyl chloride	1.877	62	18985	2.240	ug/L	94
5) Bromomethane	2.176	94	12320	2.015	ug/L	97
6) Chloroethane	2.282	64	15093	2.471	ug/L	91
7) Trichlorofluoromethane	2.422	101	42830	2.151	ug/L	95
8) Ethyl ether	2.715	74	11483	2.172	ug/L	94
10) 1,1-Dichloroethene	2.894	96	20345	2.210	ug/L	96
11) Carbon disulfide	2.927	76	62838	2.268	ug/L	97
12) Freon-113	2.934	101	19468	2.155	ug/L	92
14) Acrolein	3.200	56	926	1.521	ug/L #	70
15) Methylene chloride	3.439	84	15761	2.055	ug/L	91
17) Acetone	3.473	43	3668	2.171	ug/L #	78
18) trans-1,2-Dichloroethene	3.592	96	14398	2.092	ug/L	97
19) Methyl acetate	3.592	43	7636	2.324	ug/L	95
20) Methyl tert-butyl ether	3.679	73	32973	1.983	ug/L	97
21) tert-Butyl alcohol	3.779	59	3647	11.211	ug/L #	87
22) Diisopropyl ether	4.031	45	42814	1.904	ug/L	99
23) 1,1-Dichloroethane	4.158	63	27646	2.206	ug/L	98
24) Halothane	4.211	117	11796	2.072	ug/L	100
25) Acrylonitrile	4.204	53	3224	2.076	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A08.d
 Acq On : 11 Jun 2025 5:36 am
 Operator : VOA108:PID
 Sample : I8260STD2PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 11 11:02:58 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.377	59	32395	1.834	ug/L	96
27) Vinyl acetate	4.390	43	22567	1.744	ug/L	97
28) cis-1,2-Dichloroethene	4.663	96	15964	2.027	ug/L	94
29) 2,2-Dichloropropane	4.763	77	18299	1.941	ug/L	91
30) Bromochloromethane	4.863	128	9304	2.044	ug/L	96
31) Cyclohexane	4.863	56	19187	1.879	ug/L	100
32) Chloroform	4.929	83	31225	2.224	ug/L	97
33) Ethyl acetate	5.036	43	9300	1.854	ug/L #	89
34) Carbon tetrachloride	5.062	117	26020	2.276	ug/L	91
35) Tetrahydrofuran	5.089	42	3299	2.101	ug/L	93
37) 1,1,1-Trichloroethane	5.122	97	24322	2.082	ug/L	96
39) 2-Butanone	5.235	43	4742	2.315	ug/L #	79
40) 1,1-Dichloropropene	5.248	75	17798	2.023	ug/L	97
41) Benzene	5.489	78	57088	2.057	ug/L	99
42) tert-Amyl methyl ether	5.605	73	27941	1.788	ug/L	97
44) 1,2-Dichloroethane	5.687	62	17710	2.059	ug/L	97
47) Methyl cyclohexane	6.064	83	16788	1.714	ug/L	95
48) Trichloroethene	6.084	95	13672	1.788	ug/L	95
50) Dibromomethane	6.515	93	8512	1.999	ug/L	94
51) 1,2-Dichloropropane	6.611	63	12985	1.968	ug/L	92
53) 2-Chloroethyl vinyl ether	7.309	63	5129	1.748	ug/L	93
54) Bromodichloromethane	6.686	83	18622	1.894	ug/L	99
57) 1,4-Dioxane	6.898	88	15365	409.525	ug/L	98
58) cis-1,3-Dichloropropene	7.377	75	18031	1.822	ug/L	91
61) Toluene	7.637	92	32941	2.045	ug/L	90
62) 4-Methyl-2-pentanone	8.068	58	2290	1.734	ug/L #	83
63) Tetrachloroethene	8.082	166	14139	1.866	ug/L	93
65) trans-1,3-Dichloropropene	8.116	75	14476	1.808	ug/L	100
67) Ethyl methacrylate	8.308	69	8891	1.576	ug/L	83
68) 1,1,2-Trichloroethane	8.294	83	9027	1.991	ug/L	97
69) Chlorodibromomethane	8.506	129	13123	1.751	ug/L	95
70) 1,3-Dichloropropane	8.616	76	18190	2.096	ug/L	99
71) 1,2-Dibromoethane	8.780	107	9962	2.021	ug/L	99
72) 2-Hexanone	9.081	43	4624	1.670	ug/L #	86
73) Chlorobenzene	9.423	112	38319	1.903	ug/L	95
74) Ethylbenzene	9.464	91	58568	1.813	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.519	131	13621	1.776	ug/L	94
76) p/m Xylene	9.656	106	47018	3.424	ug/L	98
77) o Xylene	10.196	106	46693	3.346	ug/L	96
78) Styrene	10.265	104	71168	3.134	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A08.d
 Acq On : 11 Jun 2025 5:36 am
 Operator : VOA108:PID
 Sample : I8260STD2PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 11 11:02:58 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.292	173	7494	1.612	ug/L	89
82)	Isopropylbenzene	10.587	105	60173	1.862	ug/L	97
84)	Bromobenzene	11.026	156	17658	1.976	ug/L	99
85)	n-Propylbenzene	11.074	91	70339	1.856	ug/L	99
86)	1,4-Dichlorobutane	11.087	55	16076	1.996	ug/L	97
87)	1,1,2,2-Tetrachloroethane	11.156	83	13515	2.210	ug/L	97
88)	4-Ethyltoluene	11.197	105	58525	1.861	ug/L	97
89)	2-Chlorotoluene	11.238	91	42924M6	1.901	ug/L	
90)	1,3,5-Trimethylbenzene	11.300	105	49395	1.728	ug/L	99
91)	1,2,3-Trichloropropane	11.300	75	9842	1.945	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.348	53	3192	2.286	ug/L #	74
93)	4-Chlorotoluene	11.424	91	42575	1.901	ug/L	95
94)	tert-Butylbenzene	11.643	119	44431	1.835	ug/L	98
97)	1,2,4-Trimethylbenzene	11.718	105	50150	1.793	ug/L	97
98)	sec-Butylbenzene	11.828	105	66427	1.867	ug/L	99
99)	p-Isopropyltoluene	11.986	119	53360	1.732	ug/L	99
100)	1,3-Dichlorobenzene	12.055	146	33999	1.884	ug/L	99
101)	1,4-Dichlorobenzene	12.151	146	35214	1.917	ug/L	94
102)	p-Diethylbenzene	12.363	119	30566	1.684	ug/L	99
103)	n-Butylbenzene	12.418	91	49557	1.873	ug/L	99
104)	1,2-Dichlorobenzene	12.569	146	32883	1.984	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.152	119	45517	1.521	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.344	155	1605	1.760	ug/L	83
107)	1,3,5-Trichlorobenzene	13.385	180	22946	1.839	ug/L	97
108)	Hexachlorobutadiene	13.955	225	9296	1.713	ug/L	96
109)	1,2,4-Trichlorobenzene	13.975	180	18418	1.693	ug/L	95
110)	Naphthalene	14.270	128	34192	1.675	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	18657	1.911	ug/L	94

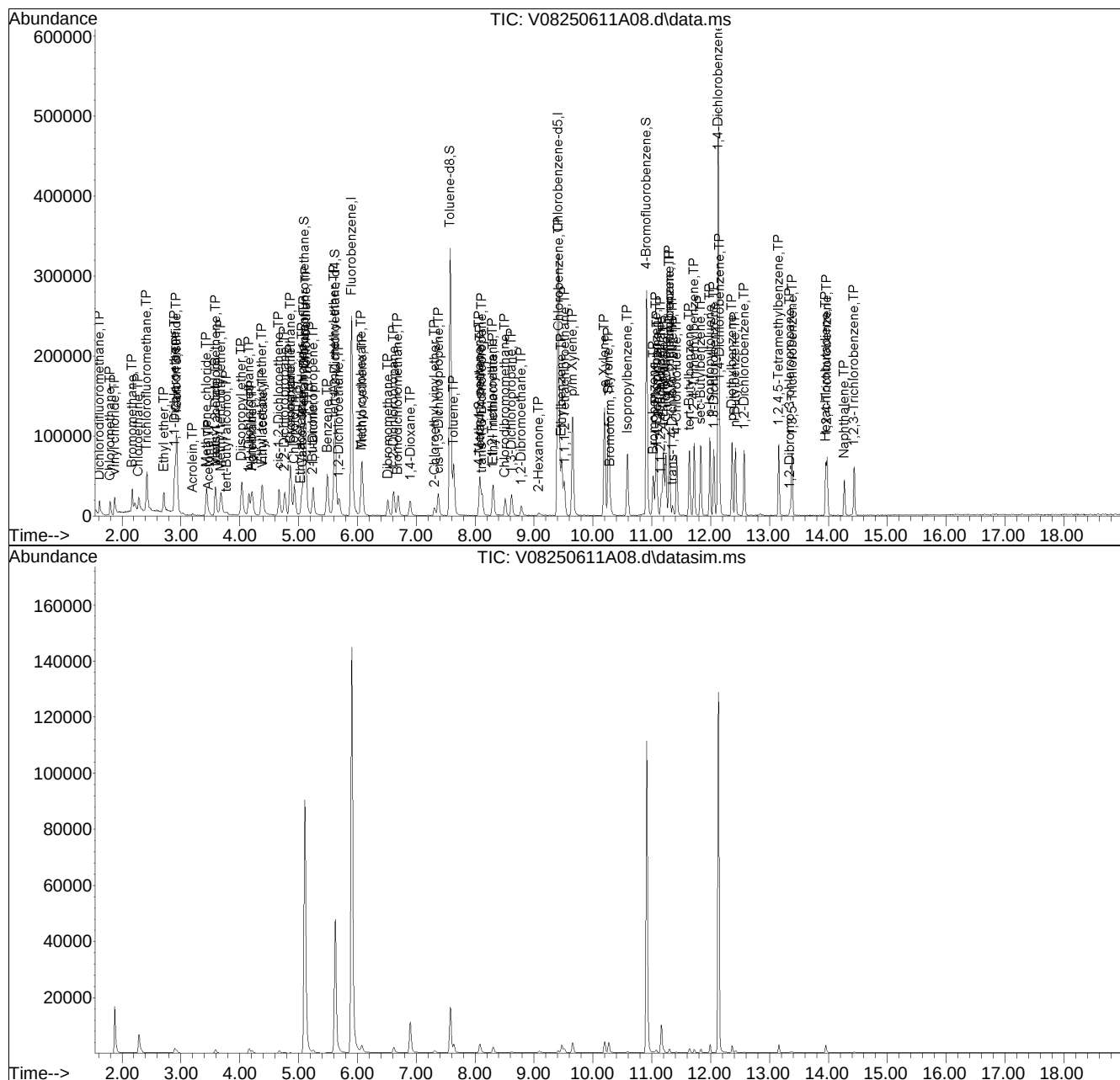
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
Data File : V08250611A08.d
Acq On : 11 Jun 2025 5:36 am
Operator : VOA108:PID
Sample : I8260STD2PPB
Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 11 11:02:58 2025
Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 11 11:02:18 2025
Response via : Initial Calibration

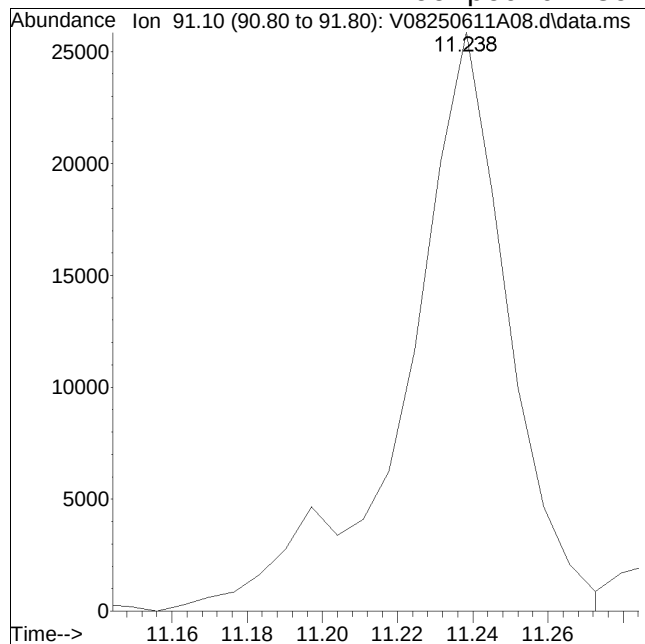
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

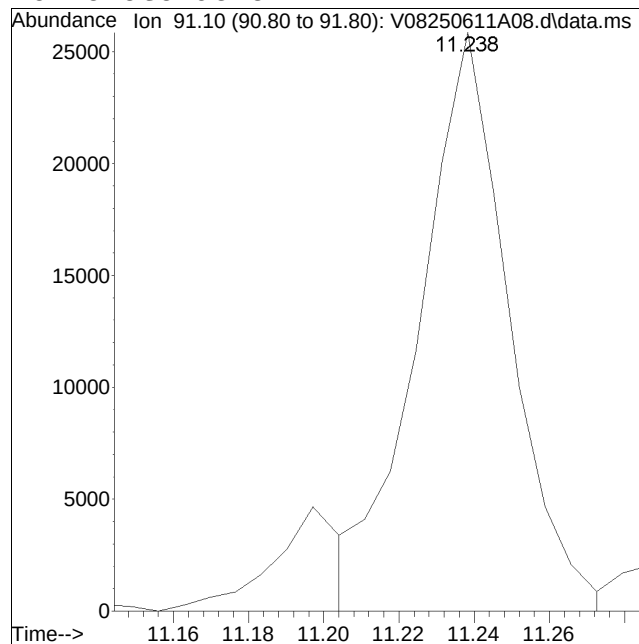
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Data File : V08250611A08.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 5:36 am Instrument : V0A 108
Sample : I8260STD2PPB Quant Date : 6/11/2025 11:02 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 48780

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



Manual Peak Response = 42924 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A10.d
 Acq On : 11 Jun 2025 6:21 am
 Operator : VOA108:PID
 Sample : I8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 11 11:03:05 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	281729	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	100.00%	
59) Chlorobenzene-d5	9.409	117	211926	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	12.130	152	123694	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	88318	9.731	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.31%	
43) 1,2-Dichloroethane-d4	5.619	65	86269	9.952	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.52%	
60) Toluene-d8	7.575	98	272793	10.532	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	105.32%	
83) 4-Bromofluorobenzene	10.916	95	89530	10.617	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	106.17%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	77988	11.054	ug/L	100
3) Chloromethane	1.797	50	77333	10.544	ug/L	100
4) Vinyl chloride	1.876	62	100910	11.535	ug/L	100
5) Bromomethane	2.176	94	64768	10.258	ug/L	100
6) Chloroethane	2.282	64	70948	11.253	ug/L	100
7) Trichlorofluoromethane	2.422	101	233820	11.376	ug/L	100
8) Ethyl ether	2.708	74	55996	10.258	ug/L	100
10) 1,1-Dichloroethene	2.894	96	90679	9.542	ug/L	100
11) Carbon disulfide	2.927	76	247258	8.643	ug/L	100
12) Freon-113	2.934	101	75554	8.100	ug/L	100
14) Acrolein	3.206	56	7655	12.181	ug/L	100
15) Methylene chloride	3.439	84	78971	9.972	ug/L	100
17) Acetone	3.472	43	14735	8.448	ug/L	100
18) trans-1,2-Dichloroethene	3.586	96	71180	10.017	ug/L	100
19) Methyl acetate	3.592	43	33465	9.864	ug/L	100
20) Methyl tert-butyl ether	3.685	73	173815	10.126	ug/L	100
21) tert-Butyl alcohol	3.765	59	17465	52.004	ug/L	100
22) Diisopropyl ether	4.038	45	235429	10.142	ug/L	100
23) 1,1-Dichloroethane	4.157	63	137652	10.640	ug/L	100
24) Halothane	4.211	117	63289	10.769	ug/L	100
25) Acrylonitrile	4.197	53	18241	11.378	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A10.d
 Acq On : 11 Jun 2025 6:21 am
 Operator : VOA108:PID
 Sample : I8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 11 11:03:05 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.377	59	174135	9.550	ug/L	100
27) Vinyl acetate	4.384	43	128539	9.625	ug/L	100
28) cis-1,2-Dichloroethene	4.670	96	85917	10.568	ug/L	100
29) 2,2-Dichloropropane	4.763	77	97147	9.979	ug/L	100
30) Bromochloromethane	4.856	128	45919	9.772	ug/L	100
31) Cyclohexane	4.856	56	110917	10.520	ug/L	100
32) Chloroform	4.929	83	146667	10.117	ug/L	100
33) Ethyl acetate	5.035	43	52865	10.206	ug/L	100
34) Carbon tetrachloride	5.055	117	120303	10.193	ug/L	100
35) Tetrahydrofuran	5.082	42	17217M6	10.620	ug/L	
37) 1,1,1-Trichloroethane	5.122	97	129551	10.740	ug/L	100
39) 2-Butanone	5.222	43	20447	9.670	ug/L	100
40) 1,1-Dichloropropene	5.248	75	93771	10.327	ug/L	100
41) Benzene	5.489	78	301716	10.531	ug/L	100
42) tert-Amyl methyl ether	5.591	73	159785	9.904	ug/L	100
44) 1,2-Dichloroethane	5.687	62	90985	10.249	ug/L	100
47) Methyl cyclohexane	6.070	83	99895	9.879	ug/L	100
48) Trichloroethene	6.077	95	77818	9.858	ug/L	100
50) Dibromomethane	6.515	93	45998	10.462	ug/L	100
51) 1,2-Dichloropropane	6.611	63	70415	10.338	ug/L	100
53) 2-Chloroethyl vinyl ether	7.302	63	30553	10.087	ug/L	100
54) Bromodichloromethane	6.686	83	102132	10.063	ug/L	100
57) 1,4-Dioxane	6.891	88	20746	535.601	ug/L	100
58) cis-1,3-Dichloropropene	7.370	75	105840	10.358	ug/L	100
61) Toluene	7.630	92	172830	10.690	ug/L	100
62) 4-Methyl-2-pentanone	8.068	58	14032	10.589	ug/L	100
63) Tetrachloroethene	8.075	166	79652	10.473	ug/L	100
65) trans-1,3-Dichloropropene	8.116	75	88725	11.041	ug/L	100
67) Ethyl methacrylate	8.308	69	61154	10.800	ug/L	100
68) 1,1,2-Trichloroethane	8.294	83	48323	10.622	ug/L	100
69) Chlorodibromomethane	8.506	129	77358	10.289	ug/L	100
70) 1,3-Dichloropropane	8.616	76	96320	11.062	ug/L	100
71) 1,2-Dibromoethane	8.780	107	55853	11.291	ug/L	100
72) 2-Hexanone	9.067	43	27451	9.878	ug/L	100
73) Chlorobenzene	9.423	112	207705	10.278	ug/L	100
74) Ethylbenzene	9.471	91	341207	10.527	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.512	131	79560	10.339	ug/L	100
76) p/m Xylene	9.656	106	269786	19.580	ug/L	100
77) o Xylene	10.196	106	264653	18.899	ug/L	100
78) Styrene	10.265	104	436138	19.138	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A10.d
 Acq On : 11 Jun 2025 6:21 am
 Operator : VOA108:PID
 Sample : I8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 11 11:03:05 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.285	173	44809	9.524	ug/L	100
82)	Isopropylbenzene	10.586	105	335812	10.270	ug/L	100
84)	Bromobenzene	11.025	156	92107	10.184	ug/L	100
85)	n-Propylbenzene	11.067	91	403254	10.518	ug/L	100
86)	1,4-Dichlorobutane	11.087	55	87492	10.738	ug/L	100
87)	1,1,2,2-Tetrachloroethane	11.163	83	68374	11.051	ug/L	100
88)	4-Ethyltoluene	11.197	105	333517	10.483	ug/L	100
89)	2-Chlorotoluene	11.238	91	235906M6	10.328	ug/L	100
90)	1,3,5-Trimethylbenzene	11.293	105	291258	10.072	ug/L	100
91)	1,2,3-Trichloropropane	11.300	75	53136	10.376	ug/L	100
92)	trans-1,4-Dichloro-2-b...	11.348	53	15659	11.083	ug/L	100
93)	4-Chlorotoluene	11.423	91	236981	10.457	ug/L	100
94)	tert-Butylbenzene	11.636	119	247136	10.088	ug/L	100
97)	1,2,4-Trimethylbenzene	11.718	105	290779	10.275	ug/L	100
98)	sec-Butylbenzene	11.828	105	380362	10.566	ug/L	100
99)	p-Isopropyltoluene	11.986	119	326643	10.475	ug/L	100
100)	1,3-Dichlorobenzene	12.054	146	181807	9.958	ug/L	100
101)	1,4-Dichlorobenzene	12.144	146	183542	9.873	ug/L	100
102)	p-Diethylbenzene	12.363	119	187305	10.199	ug/L	100
103)	n-Butylbenzene	12.418	91	279091	10.424	ug/L	100
104)	1,2-Dichlorobenzene	12.569	146	173880	10.369	ug/L	100
105)	1,2,4,5-Tetramethylben...	13.159	119	303092	10.010	ug/L	100
106)	1,2-Dibromo-3-chloropr...	13.344	155	10602	11.489	ug/L	100
107)	1,3,5-Trichlorobenzene	13.378	180	126757	10.037	ug/L	100
108)	Hexachlorobutadiene	13.955	225	54258	9.879	ug/L	100
109)	1,2,4-Trichlorobenzene	13.975	180	110824	10.068	ug/L	100
110)	Naphthalene	14.270	128	217286	10.519	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	98778	9.998	ug/L	100

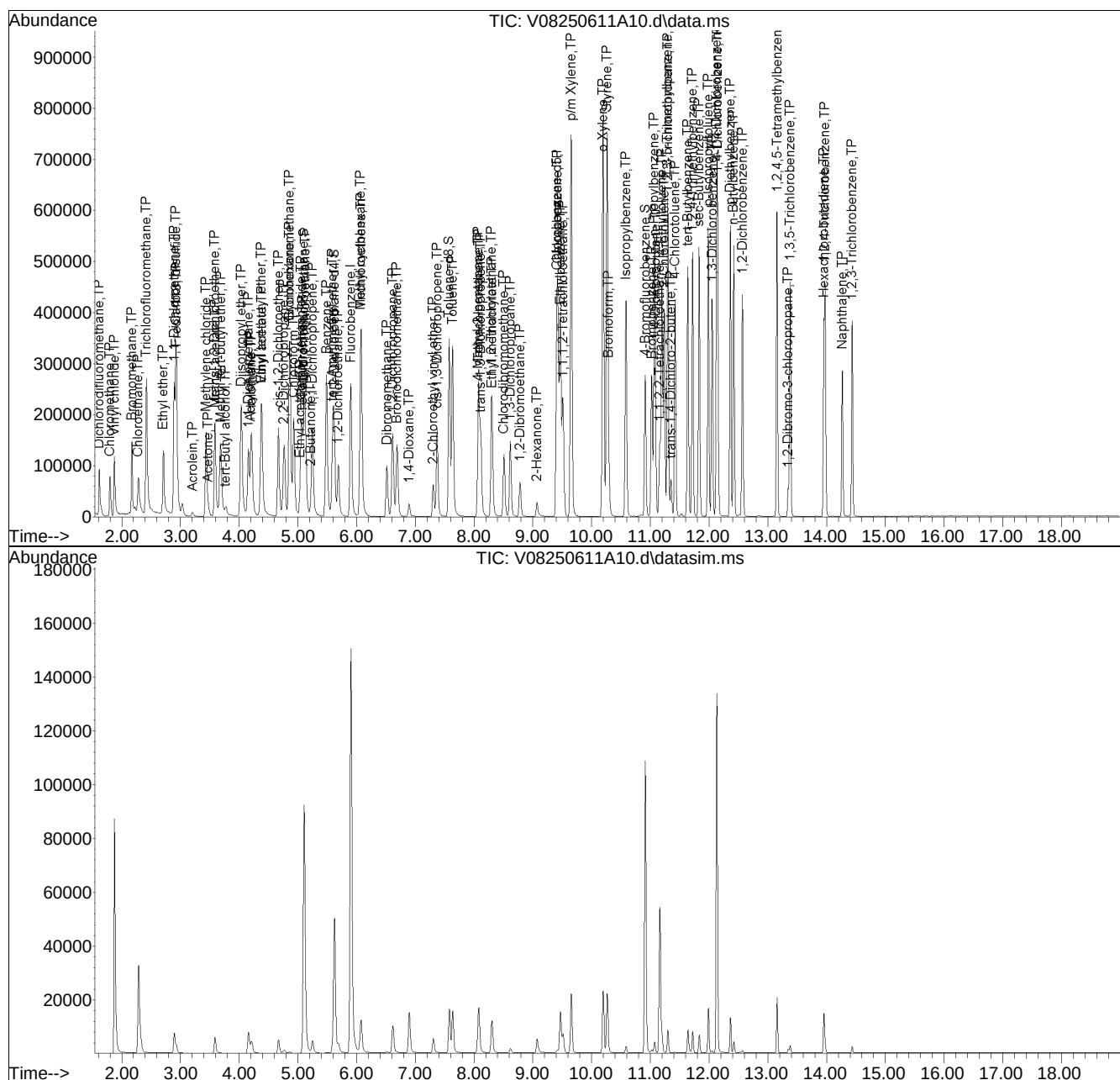
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A10.d
 Acq On : 11 Jun 2025 6:21 am
 Operator : VOA108:PID
 Sample : I8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 11 11:03:05 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

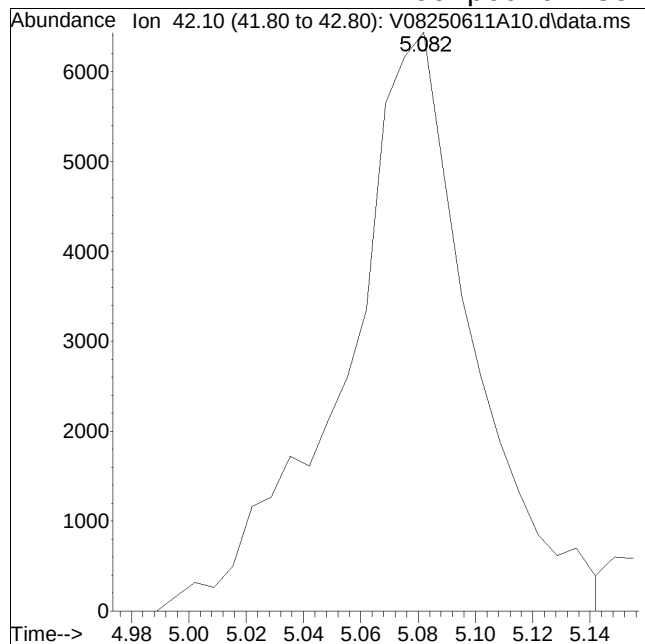
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

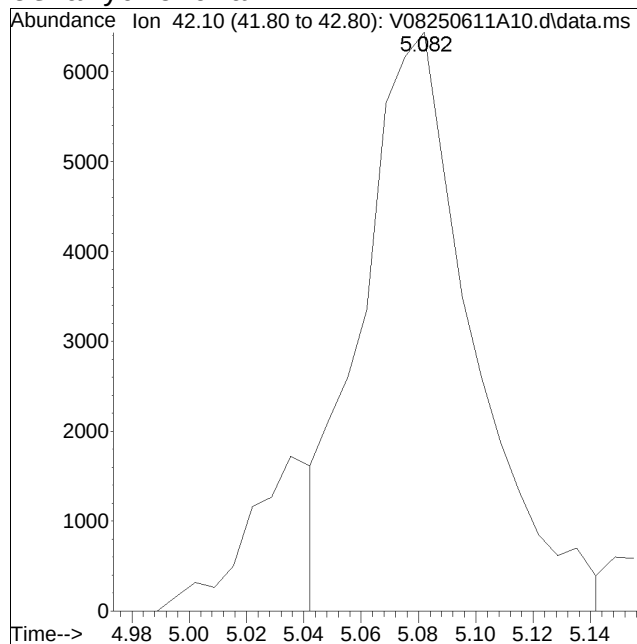
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Data File : V08250611A10.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 6:21 am Instrument : V0A 108
Sample : I8260STD10PPB Quant Date : 6/11/2025 11:03 am

Compound #35: Tetrahydrofuran



Original Peak Response = 20015

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

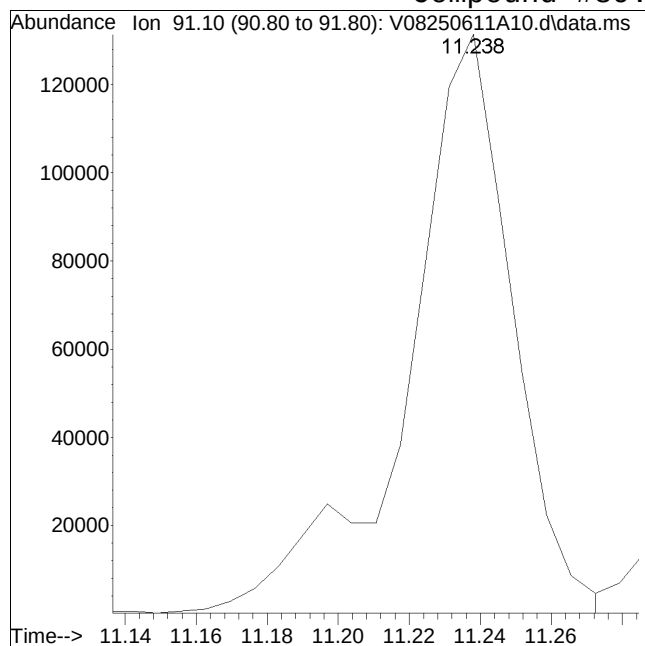


Manual Peak Response = 17217 M6

Manual Integration Report

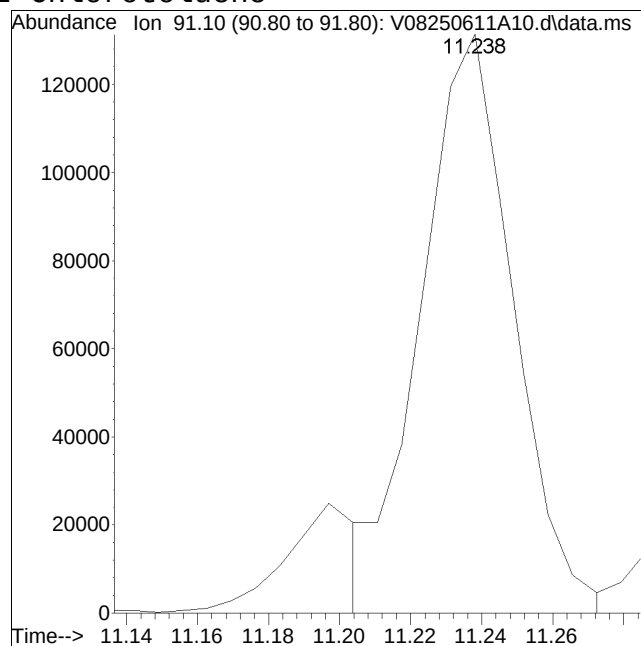
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A10.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 6:21 am Instrument : V0A 108
Sample : I8260STD10PPB Quant Date : 6/11/2025 11:03 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 269433

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



Manual Peak Response = 235906 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A11.d
 Acq On : 11 Jun 2025 6:43 am
 Operator : VOA108:PID
 Sample : I8260STD30PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 11 11:03:12 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	307286	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	109.07%	
59) Chlorobenzene-d5	9.403	117	237122	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	111.89%	
79) 1,4-Dichlorobenzene-d4	12.130	152	157540	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	127.36%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	97313	9.831	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.31%	
43) 1,2-Dichloroethane-d4	5.619	65	90924	9.616	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	96.16%	
60) Toluene-d8	7.576	98	300273	10.362	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	103.62%	
83) 4-Bromofluorobenzene	10.909	95	98981	9.216	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	92.16%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	229984	29.886	ug/L	99
3) Chloromethane	1.797	50	236698	29.589	ug/L	100
4) Vinyl chloride	1.877	62	279109	29.251	ug/L	96
5) Bromomethane	2.176	94	206203	29.944	ug/L	99
6) Chloroethane	2.282	64	208129	30.266	ug/L	99
7) Trichlorofluoromethane	2.422	101	667619	29.780	ug/L	98
8) Ethyl ether	2.708	74	179142	30.089	ug/L	95
10) 1,1-Dichloroethene	2.894	96	308089	29.722	ug/L	93
11) Carbon disulfide	2.928	76	873488	27.993	ug/L	98
12) Freon-113	2.928	101	280165	27.537	ug/L	98
14) Acrolein	3.200	56	23198	33.843	ug/L	94
15) Methylene chloride	3.433	84	231281	26.776	ug/L	97
17) Acetone	3.473	43	41455	21.789	ug/L	98
18) trans-1,2-Dichloroethene	3.586	96	231680	29.892	ug/L	96
19) Methyl acetate	3.586	43	108315	29.271	ug/L	98
20) Methyl tert-butyl ether	3.679	73	569397	30.413	ug/L	96
21) tert-Butyl alcohol	3.772	59	55690	152.031	ug/L #	90
22) Diisopropyl ether	4.032	45	795930	31.435	ug/L	97
23) 1,1-Dichloroethane	4.158	63	427309	30.282	ug/L	99
24) Halothane	4.204	117	193263	30.149	ug/L	99
25) Acrylonitrile	4.191	53	50580	28.926	ug/L #	80

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A11.d
 Acq On : 11 Jun 2025 6:43 am
 Operator : VOA108:PID
 Sample : I8260STD30PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 11 11:03:12 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.371	59	615291	30.937	ug/L	98
27) Vinyl acetate	4.384	43	469537	32.234	ug/L	99
28) cis-1,2-Dichloroethene	4.663	96	276067	31.133	ug/L	98
29) 2,2-Dichloropropane	4.770	77	325826	30.686	ug/L	98
30) Bromochloromethane	4.856	128	148270	28.930	ug/L	97
31) Cyclohexane	4.863	56	353301	30.721	ug/L	98
32) Chloroform	4.929	83	464225	29.358	ug/L	99
33) Ethyl acetate	5.029	43	172730	30.575	ug/L	97
34) Carbon tetrachloride	5.062	117	396292	30.784	ug/L	99
35) Tetrahydrofuran	5.076	42	55011M6	31.111	ug/L	
37) 1,1,1-Trichloroethane	5.122	97	401134	30.489	ug/L	99
39) 2-Butanone	5.209	43	64576	28.001	ug/L	99
40) 1,1-Dichloropropene	5.242	75	304613	30.756	ug/L	98
41) Benzene	5.482	78	965790	30.905	ug/L	99
42) tert-Amyl methyl ether	5.598	73	545394	30.993	ug/L	97
44) 1,2-Dichloroethane	5.687	62	276968	28.603	ug/L	98
47) Methyl cyclohexane	6.071	83	324868	29.455	ug/L	98
48) Trichloroethene	6.077	95	248711	28.886	ug/L	96
50) Dibromomethane	6.508	93	141764	29.562	ug/L	98
51) 1,2-Dichloropropane	6.611	63	235086	31.645	ug/L	96
53) 2-Chloroethyl vinyl ether	7.302	63	108139	32.732	ug/L	96
54) Bromodichloromethane	6.686	83	337024	30.444	ug/L	99
57) 1,4-Dioxane	6.892	88	26163	619.275	ug/L	95
58) cis-1,3-Dichloropropene	7.364	75	364574	32.713	ug/L	98
61) Toluene	7.631	92	548215	30.305	ug/L	98
62) 4-Methyl-2-pentanone	8.062	58	50391	33.985	ug/L	89
63) Tetrachloroethene	8.075	166	256786	30.177	ug/L	98
65) trans-1,3-Dichloropropene	8.110	75	298777	33.229	ug/L	91
67) Ethyl methacrylate	8.301	69	222782	35.165	ug/L	93
68) 1,1,2-Trichloroethane	8.294	83	154871	30.424	ug/L	99
69) Chlorodibromomethane	8.506	129	265557	31.566	ug/L	99
70) 1,3-Dichloropropane	8.616	76	308953	31.712	ug/L	100
71) 1,2-Dibromoethane	8.780	107	172409	31.151	ug/L	98
72) 2-Hexanone	9.061	43	100807	32.419	ug/L	98
73) Chlorobenzene	9.423	112	673770	29.799	ug/L	97
74) Ethylbenzene	9.464	91	1095235	30.200	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.512	131	266911	30.999	ug/L	99
76) p/m Xylene	9.649	106	912764	59.205	ug/L	98
77) o Xylene	10.197	106	917686	58.569	ug/L	98
78) Styrene	10.265	104	1579199	61.933	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A11.d
 Acq On : 11 Jun 2025 6:43 am
 Operator : VOA108:PID
 Sample : I8260STD30PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 11 11:03:12 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.286	173	178639	29.812	ug/L	98
82)	Isopropylbenzene	10.587	105	1218160	29.250	ug/L	98
84)	Bromobenzene	11.019	156	310468	26.953	ug/L	99
85)	n-Propylbenzene	11.067	91	1397055	28.610	ug/L	99
86)	1,4-Dichlorobutane	11.081	55	297163	28.636	ug/L	99
87)	1,1,2,2-Tetrachloroethane	11.156	83	227070	28.816	ug/L	96
88)	4-Ethyltoluene	11.197	105	1192617	29.432	ug/L	100
89)	2-Chlorotoluene	11.238	91	846560M6	29.099	ug/L	
90)	1,3,5-Trimethylbenzene	11.293	105	1070446	29.065	ug/L	100
91)	1,2,3-Trichloropropane	11.293	75	184582	28.300	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.348	53	54217	30.129	ug/L	97
93)	4-Chlorotoluene	11.424	91	853191	29.558	ug/L	99
94)	tert-Butylbenzene	11.636	119	912299	29.239	ug/L	99
97)	1,2,4-Trimethylbenzene	11.719	105	1069639	29.677	ug/L	100
98)	sec-Butylbenzene	11.828	105	1344242	29.320	ug/L	97
99)	p-Isopropyltoluene	11.986	119	1206111	30.370	ug/L	99
100)	1,3-Dichlorobenzene	12.048	146	682109	29.335	ug/L	100
101)	1,4-Dichlorobenzene	12.144	146	684368	28.903	ug/L	98
102)	p-Diethylbenzene	12.364	119	694671	29.700	ug/L	98
103)	n-Butylbenzene	12.418	91	1009136	29.592	ug/L	100
104)	1,2-Dichlorobenzene	12.569	146	626527	29.334	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.159	119	1168335	30.297	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.345	155	39139	33.300	ug/L	99
107)	1,3,5-Trichlorobenzene	13.379	180	454058	28.230	ug/L	97
108)	Hexachlorobutadiene	13.955	225	178906	25.575	ug/L	97
109)	1,2,4-Trichlorobenzene	13.976	180	386173	27.545	ug/L	99
110)	Naphthalene	14.264	128	790459	30.047	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	348060	27.662	ug/L	98

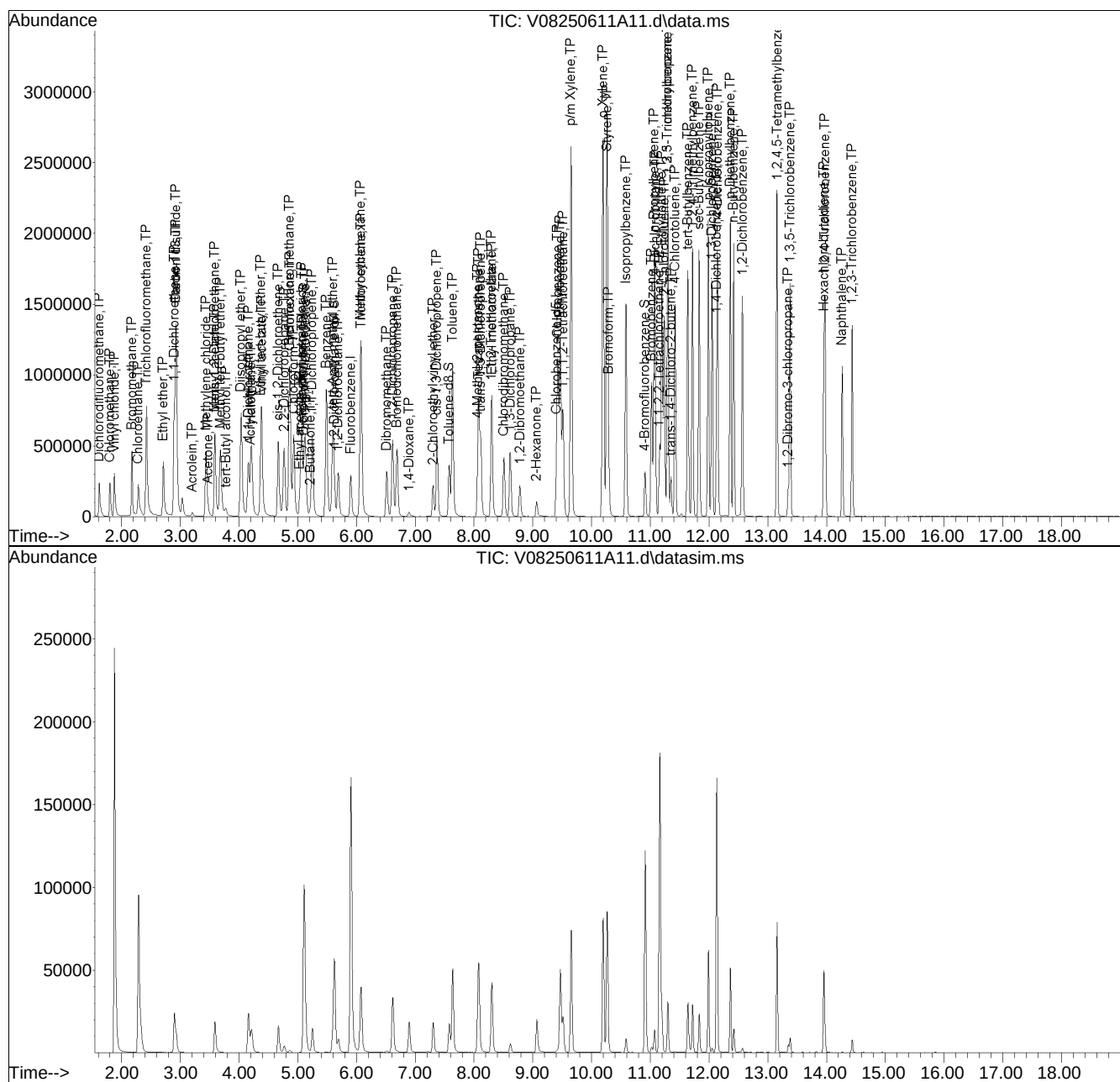
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A11.d
 Acq On : 11 Jun 2025 6:43 am
 Operator : VOA108:PID
 Sample : I8260STD30PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 11 11:03:12 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

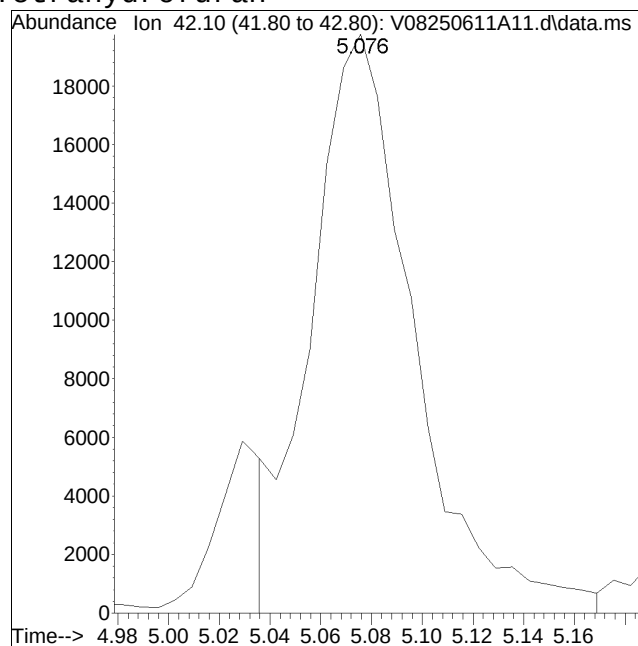
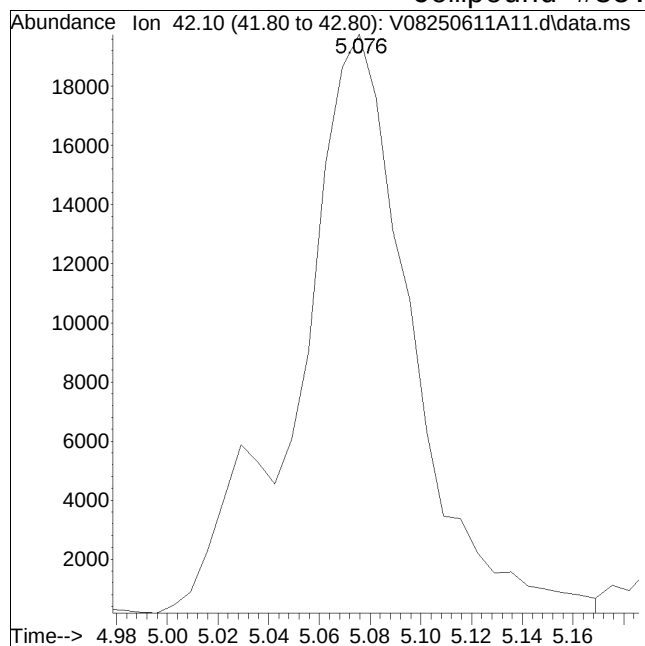
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A11.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 6:43 am Instrument : V0A 108
Sample : I8260STD30PPB Quant Date : 6/11/2025 11:03 am

Compound #35: Tetrahydrofuran

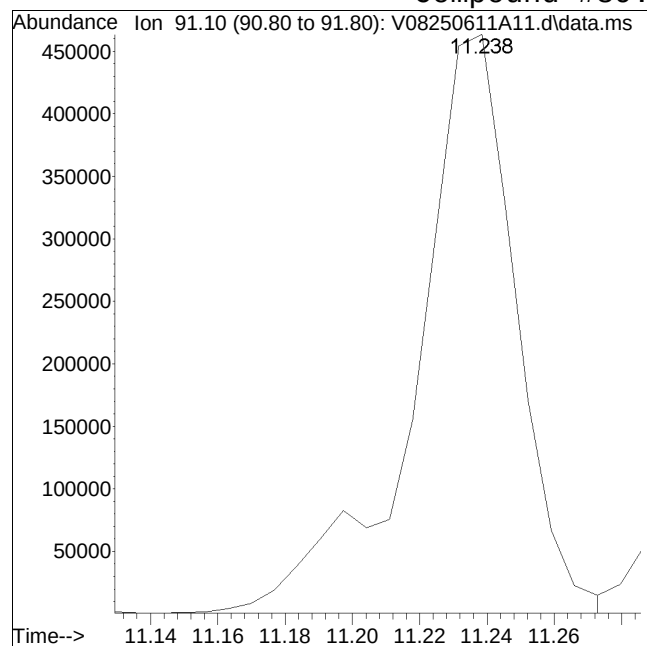


M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

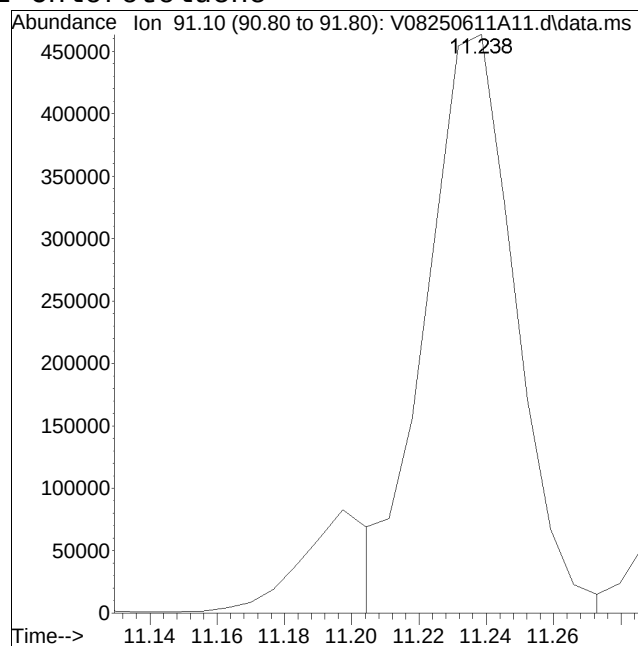
Data Path : K:\VOA108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A11.d Operator : VOA108:PID
Date Inj'd : 6/11/2025 6:43 am Instrument : VOA 108
Sample : I8260STD30PPB Quant Date : 6/11/2025 11:03 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 958009

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



Manual Peak Response = 846560 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A12.d
 Acq On : 11 Jun 2025 7:05 am
 Operator : VOA108:PID
 Sample : I8260STD80PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 11 11:03:19 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	326391	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	115.85%	
59) Chlorobenzene-d5	9.409	117	275644	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	130.07%	
79) 1,4-Dichlorobenzene-d4	12.130	152	177861	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	143.79%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	102823	9.779	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	97.79%	
43) 1,2-Dichloroethane-d4	5.619	65	99089	9.867	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	98.67%	
60) Toluene-d8	7.576	98	323579	9.605	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	96.05%	
83) 4-Bromofluorobenzene	10.909	95	117792	9.714	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	97.14%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	699601	85.591	ug/L	100
3) Chloromethane	1.797	50	681157	80.166	ug/L	99
4) Vinyl chloride	1.876	62	813380	80.253	ug/L	99
5) Bromomethane	2.176	94	628374	85.908	ug/L	99
6) Chloroethane	2.282	64	583823	79.930	ug/L	99
7) Trichlorofluoromethane	2.422	101	1960415	82.329	ug/L	98
8) Ethyl ether	2.708	74	491470	77.715	ug/L	96
10) 1,1-Dichloroethene	2.894	96	929658	84.437	ug/L	96
11) Carbon disulfide	2.927	76	2939290	88.684	ug/L	98
12) Freon-113	2.927	101	1001651	92.687	ug/L	96
14) Acrolein	3.200	56	63798	87.625	ug/L	91
15) Methylene chloride	3.433	84	653625	71.243	ug/L	96
17) Acetone	3.466	43	122133	60.437	ug/L	100
18) trans-1,2-Dichloroethene	3.586	96	687886	83.559	ug/L	96
19) Methyl acetate	3.586	43	314775	80.086	ug/L	98
20) Methyl tert-butyl ether	3.679	73	1667788	83.867	ug/L	97
21) tert-Butyl alcohol	3.772	59	159152	409.046	ug/L	# 91
22) Diisopropyl ether	4.031	45	2324852	86.444	ug/L	97
23) 1,1-Dichloroethane	4.151	63	1232739	82.248	ug/L	99
24) Halothane	4.204	117	567648	83.370	ug/L	98
25) Acrylonitrile	4.191	53	146980	79.136	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A12.d
 Acq On : 11 Jun 2025 7:05 am
 Operator : VOA108:PID
 Sample : I8260STD80PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 11 11:03:19 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.377	59	1857767	87.940	ug/L	98
27) Vinyl acetate	4.384	43	1410161	91.141	ug/L	100
28) cis-1,2-Dichloroethene	4.663	96	775020	82.285	ug/L	99
29) 2,2-Dichloropropane	4.763	77	969767	85.985	ug/L	98
30) Bromochloromethane	4.849	128	437665	80.397	ug/L	95
31) Cyclohexane	4.862	56	1087434	89.023	ug/L	90
32) Chloroform	4.922	83	1285754	76.552	ug/L	97
33) Ethyl acetate	5.029	43	499491	83.239	ug/L	98
34) Carbon tetrachloride	5.062	117	1191680	87.151	ug/L	98
35) Tetrahydrofuran	5.075	42	144667M6	77.026	ug/L	
37) 1,1,1-Trichloroethane	5.122	97	1180491	84.474	ug/L	97
39) 2-Butanone	5.208	43	201243	82.153	ug/L	91
40) 1,1-Dichloropropene	5.242	75	901117	85.657	ug/L	99
41) Benzene	5.482	78	2759377	83.131	ug/L	99
42) tert-Amyl methyl ether	5.598	73	1624975	86.937	ug/L	94
44) 1,2-Dichloroethane	5.687	62	805343	78.301	ug/L	99
47) Methyl cyclohexane	6.063	83	1069202	91.268	ug/L	98
48) Trichloroethene	6.077	95	763164	83.448	ug/L	95
50) Dibromomethane	6.508	93	407717	80.045	ug/L	95
51) 1,2-Dichloropropane	6.611	63	661901	83.883	ug/L	99
53) 2-Chloroethyl vinyl ether	7.295	63	329671	93.946	ug/L	95
54) Bromodichloromethane	6.686	83	991411	84.313	ug/L	99
57) 1,4-Dioxane	6.891	88	35597	793.257	ug/L	98
58) cis-1,3-Dichloropropene	7.363	75	1082992	91.487	ug/L	99
61) Toluene	7.630	92	1697977	80.747	ug/L	98
62) 4-Methyl-2-pentanone	8.061	58	156724	90.928	ug/L	87
63) Tetrachloroethene	8.075	166	800747	80.951	ug/L	97
65) trans-1,3-Dichloropropene	8.109	75	916905	87.723	ug/L	91
67) Ethyl methacrylate	8.301	69	669056	90.847	ug/L	94
68) 1,1,2-Trichloroethane	8.294	83	448428	75.781	ug/L	98
69) Chlorodibromomethane	8.506	129	806849	82.505	ug/L	99
70) 1,3-Dichloropropane	8.616	76	886489	78.275	ug/L	99
71) 1,2-Dibromoethane	8.780	107	509235	79.151	ug/L	98
72) 2-Hexanone	9.060	43	302965	83.816	ug/L	94
73) Chlorobenzene	9.423	112	2117820	80.574	ug/L	98
74) Ethylbenzene	9.464	91	3683559	87.375	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.512	131	874421	87.364	ug/L	98
76) p/m Xylene	9.649	106	3198980	178.498	ug/L	99
77) o Xylene	10.196	106	3280032	180.085	ug/L	96
78) Styrene	10.265	104	5549863	187.238	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A12.d
 Acq On : 11 Jun 2025 7:05 am
 Operator : VOA108:PID
 Sample : I8260STD80PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 11 11:03:19 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.285	173	622717	92.050	ug/L	97
82)	Isopropylbenzene	10.586	105	4023233	85.568	ug/L	99
84)	Bromobenzene	11.019	156	1029768	79.185	ug/L	100
85)	n-Propylbenzene	11.067	91	4690147	85.076	ug/L	96
86)	1,4-Dichlorobutane	11.080	55	931857	79.537	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.156	83	676796	76.075	ug/L	97
88)	4-Ethyltoluene	11.197	105	3865979	84.506	ug/L	99
89)	2-Chlorotoluene	11.238	91	2647253M6	80.598	ug/L	
90)	1,3,5-Trimethylbenzene	11.300	105	3644747	87.658	ug/L	99
91)	1,2,3-Trichloropropane	11.293	75	595625	80.888	ug/L	98
92)	trans-1,4-Dichloro-2-b...	11.348	53	171898	84.611	ug/L	95
93)	4-Chlorotoluene	11.423	91	2686134	82.427	ug/L	99
94)	tert-Butylbenzene	11.636	119	3046893	86.496	ug/L	99
97)	1,2,4-Trimethylbenzene	11.718	105	3582872	88.048	ug/L	100
98)	sec-Butylbenzene	11.828	105	4544022	87.788	ug/L	98
99)	p-Isopropyltoluene	11.986	119	4041734	90.143	ug/L	99
100)	1,3-Dichlorobenzene	12.048	146	2194295	83.587	ug/L	99
101)	1,4-Dichlorobenzene	12.144	146	2156177	80.658	ug/L	99
102)	p-Diethylbenzene	12.363	119	2377410	90.030	ug/L	99
103)	n-Butylbenzene	12.418	91	3404613	88.432	ug/L	100
104)	1,2-Dichlorobenzene	12.569	146	1970035	81.697	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.152	119	3986084	91.556	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.344	155	121359	91.457	ug/L	98
107)	1,3,5-Trichlorobenzene	13.378	180	1521487	83.789	ug/L	98
108)	Hexachlorobutadiene	13.955	225	672217	85.117	ug/L	97
109)	1,2,4-Trichlorobenzene	13.975	180	1303243	82.337	ug/L	100
110)	Naphthalene	14.263	128	2602856	87.635	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	1158494	81.552	ug/L	100

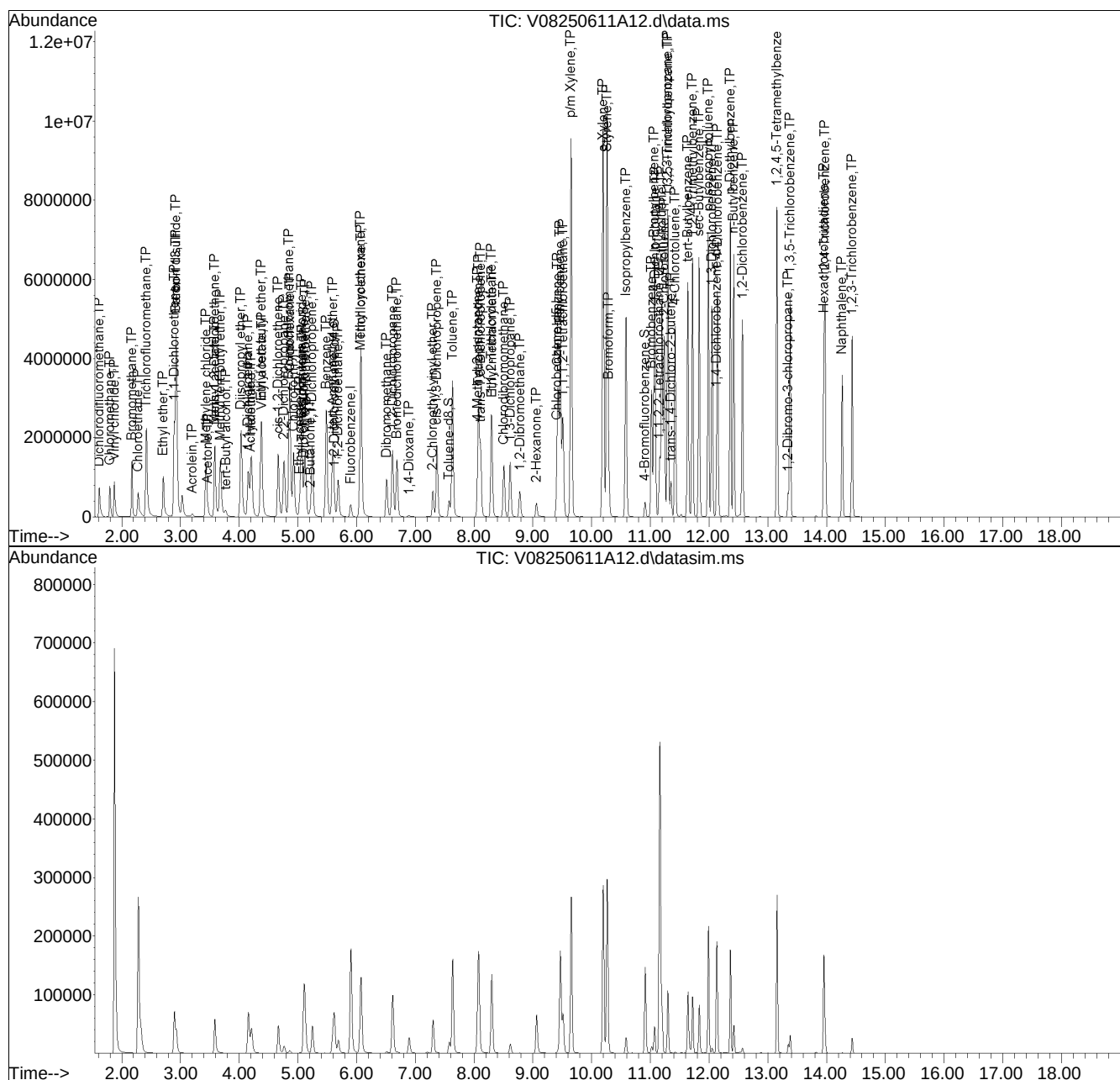
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A12.d
 Acq On : 11 Jun 2025 7:05 am
 Operator : VOA108:PID
 Sample : I8260STD80PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 11 11:03:19 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

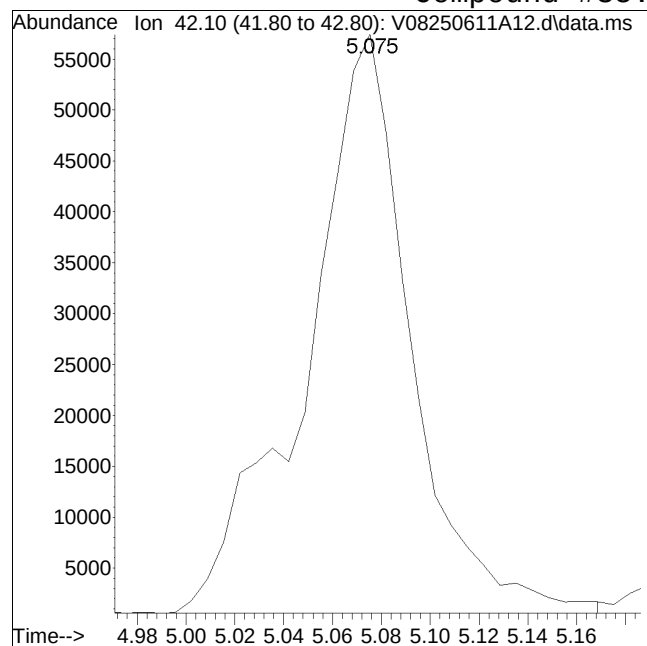
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

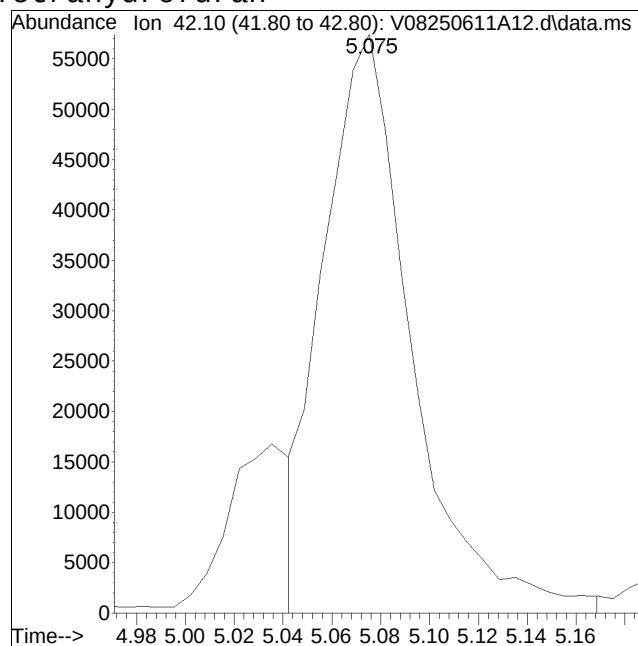
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A12.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 7:05 am Instrument : V0A 108
Sample : I8260STD80PPB Quant Date : 6/11/2025 11:03 am

Compound #35: Tetrahydrofuran



Original Peak Response = 168465

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

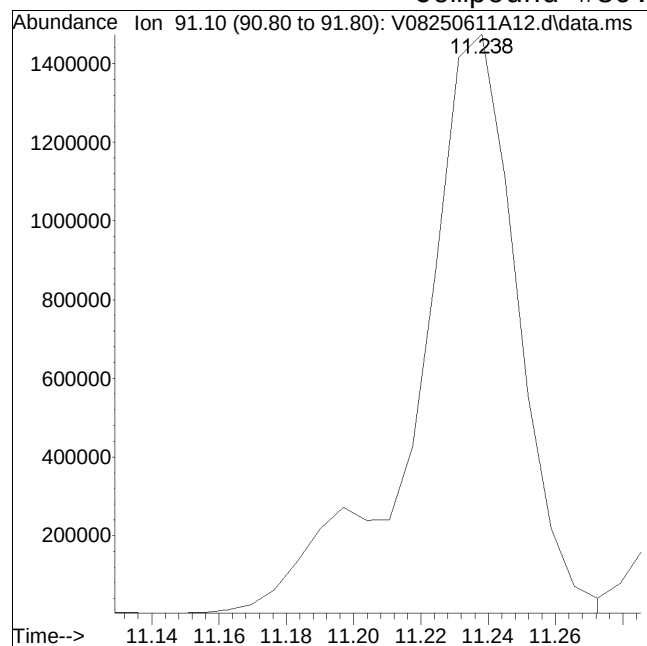


Manual Peak Response = 144667 M6

Manual Integration Report

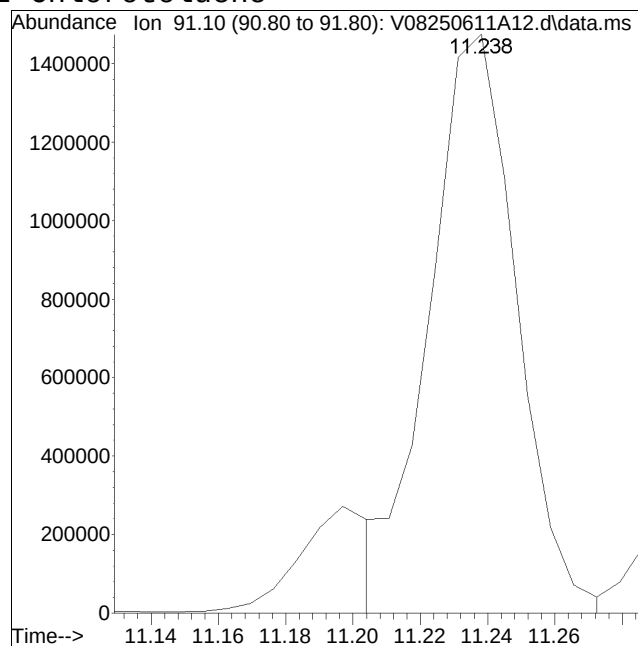
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A12.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 7:05 am Instrument : V0A 108
Sample : I8260STD80PPB Quant Date : 6/11/2025 11:03 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 3021496

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



Manual Peak Response = 2647253 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A13.d
 Acq On : 11 Jun 2025 7:27 am
 Operator : VOA108:PID
 Sample : I8260STD120PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 11 11:03:26 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	335794	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	119.19%	
59) Chlorobenzene-d5	9.402	117	278829	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	131.57%	
79) 1,4-Dichlorobenzene-d4	12.130	152	179789	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	145.35%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	104216	9.634	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	96.34%	
43) 1,2-Dichloroethane-d4	5.618	65	100849	9.761	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.61%	
60) Toluene-d8	7.575	98	328141	9.629	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	96.29%	
83) 4-Bromofluorobenzene	10.909	95	115664	9.436	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	94.36%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	1097796	130.546	ug/L	99
3) Chloromethane	1.796	50	1071141	122.533	ug/L	100
4) Vinyl chloride	1.870	62	1231098	118.066	ug/L	98
5) Bromomethane	2.169	94	1008769	134.052	ug/L	99
6) Chloroethane	2.275	64	874319	116.350	ug/L	98
7) Trichlorofluoromethane	2.415	101	3005826	122.698	ug/L	99
8) Ethyl ether	2.708	74	748227	115.003	ug/L	95
10) 1,1-Dichloroethene	2.894	96	1441717	127.279	ug/L	95
11) Carbon disulfide	2.927	76	4573286	134.121	ug/L	98
12) Freon-113	2.927	101	1576767	141.820	ug/L	98
14) Acrolein	3.200	56	102187	136.421	ug/L	95
15) Methylene chloride	3.433	84	1026778	108.781	ug/L	97
17) Acetone	3.466	43	188871	90.845	ug/L	99
18) trans-1,2-Dichloroethene	3.585	96	1085423	128.156	ug/L	96
19) Methyl acetate	3.585	43	485715	120.117	ug/L	98
20) Methyl tert-butyl ether	3.679	73	2588668	126.529	ug/L	97
21) tert-Butyl alcohol	3.765	59	244900	611.806	ug/L	# 89
22) Diisopropyl ether	4.031	45	3620217	130.840	ug/L	97
23) 1,1-Dichloroethane	4.151	63	1881664	122.028	ug/L	99
24) Halothane	4.204	117	895850	127.888	ug/L	100
25) Acrylonitrile	4.191	53	224087	117.272	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A13.d
 Acq On : 11 Jun 2025 7:27 am
 Operator : VOA108:PID
 Sample : I8260STD120PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 11 11:03:26 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.370	59	2940606	135.300	ug/L	99
27) Vinyl acetate	4.377	43	2162683	135.863	ug/L	100
28) cis-1,2-Dichloroethene	4.663	96	1212517	125.130	ug/L	99
29) 2,2-Dichloropropane	4.763	77	1524930	131.423	ug/L	97
30) Bromochloromethane	4.856	128	695806	124.237	ug/L	94
31) Cyclohexane	4.856	56	1694257	134.817	ug/L	95
32) Chloroform	4.922	83	1975134	114.303	ug/L	98
33) Ethyl acetate	5.029	43	763703	123.705	ug/L	98
34) Carbon tetrachloride	5.062	117	1900214	135.077	ug/L	99
35) Tetrahydrofuran	5.069	42	228076M6	118.036	ug/L	
37) 1,1,1-Trichloroethane	5.122	97	1845689	128.376	ug/L	97
39) 2-Butanone	5.208	43	294466	116.843	ug/L	# 58
40) 1,1-Dichloropropene	5.241	75	1398603	129.223	ug/L	99
41) Benzene	5.481	78	4173816	122.222	ug/L	99
42) tert-Amyl methyl ether	5.591	73	2589570	134.663	ug/L	92
44) 1,2-Dichloroethane	5.687	62	1238357	117.030	ug/L	98
47) Methyl cyclohexane	6.070	83	1715297	142.318	ug/L	97
48) Trichloroethene	6.077	95	1276031	135.620	ug/L	96
50) Dibromomethane	6.508	93	647725	123.604	ug/L	97
51) 1,2-Dichloropropane	6.610	63	1023453	126.071	ug/L	98
53) 2-Chloroethyl vinyl ether	7.295	63	519291	143.838	ug/L	95
54) Bromodichloromethane	6.686	83	1537802	127.118	ug/L	100
57) 1,4-Dioxane	6.891	88	58105	1258.576	ug/L	98
58) cis-1,3-Dichloropropene	7.363	75	1714569	140.785	ug/L	98
61) Toluene	7.630	92	2800235	131.643	ug/L	98
62) 4-Methyl-2-pentanone	8.061	58	241353	138.428	ug/L	88
63) Tetrachloroethene	8.075	166	1342096	134.129	ug/L	98
65) trans-1,3-Dichloropropene	8.109	75	1455556	137.666	ug/L	93
67) Ethyl methacrylate	8.301	69	1077472	144.632	ug/L	94
68) 1,1,2-Trichloroethane	8.294	83	722218	120.655	ug/L	98
69) Chlorodibromomethane	8.506	129	1314645	132.894	ug/L	99
70) 1,3-Dichloropropane	8.615	76	1400863	122.280	ug/L	99
71) 1,2-Dibromoethane	8.780	107	820119	126.017	ug/L	100
72) 2-Hexanone	9.060	43	479817	131.226	ug/L	95
73) Chlorobenzene	9.423	112	3516911	132.276	ug/L	97
74) Ethylbenzene	9.464	91	5946876	139.450	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.512	131	1423081	140.556	ug/L	99
76) p/m Xylene	9.649	106	5316993	293.291	ug/L	99
77) o Xylene	10.196	106	5411872	293.737	ug/L	97
78) Styrene	10.264	104	9133212	304.611	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A13.d
 Acq On : 11 Jun 2025 7:27 am
 Operator : VOA108:PID
 Sample : I8260STD120PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 11 11:03:26 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.292	173	1017952	148.860	ug/L	97
82)	Isopropylbenzene	10.579	105	6601985	138.909	ug/L	99
84)	Bromobenzene	11.018	156	1679102	127.732	ug/L	100
85)	n-Propylbenzene	11.066	91	7882932	141.458	ug/L	97
86)	1,4-Dichlorobutane	11.080	55	1453593	122.739	ug/L	97
87)	1,1,2,2-Tetrachloroethane	11.162	83	1063480	118.258	ug/L	96
88)	4-Ethyltoluene	11.197	105	6408951	138.591	ug/L	99
89)	2-Chlorotoluene	11.238	91	4169907M6	125.595	ug/L	
90)	1,3,5-Trimethylbenzene	11.300	105	6103603	145.220	ug/L	99
91)	1,2,3-Trichloropropane	11.293	75	934983	125.613	ug/L	96
92)	trans-1,4-Dichloro-2-b...	11.348	53	264619	128.853	ug/L #	91
93)	4-Chlorotoluene	11.423	91	4475816	135.873	ug/L	100
94)	tert-Butylbenzene	11.636	119	4998608	140.381	ug/L	100
97)	1,2,4-Trimethylbenzene	11.718	105	5811349	141.281	ug/L	100
98)	sec-Butylbenzene	11.828	105	7333465	140.160	ug/L	97
99)	p-Isopropyltoluene	11.986	119	6646496	146.647	ug/L	98
100)	1,3-Dichlorobenzene	12.054	146	3511121	132.315	ug/L	99
101)	1,4-Dichlorobenzene	12.143	146	3563339	131.867	ug/L	98
102)	p-Diethylbenzene	12.363	119	3930411	147.245	ug/L	99
103)	n-Butylbenzene	12.418	91	5426822	139.445	ug/L	98
104)	1,2-Dichlorobenzene	12.569	146	3228395	132.446	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.159	119	6750651	153.392	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.344	155	184995	137.919	ug/L	95
107)	1,3,5-Trichlorobenzene	13.378	180	2522893	137.446	ug/L	97
108)	Hexachlorobutadiene	13.954	225	1135679	142.259	ug/L	97
109)	1,2,4-Trichlorobenzene	13.975	180	2178778	136.176	ug/L	98
110)	Naphthalene	14.263	128	4215587	140.412	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	1900754	132.369	ug/L	99

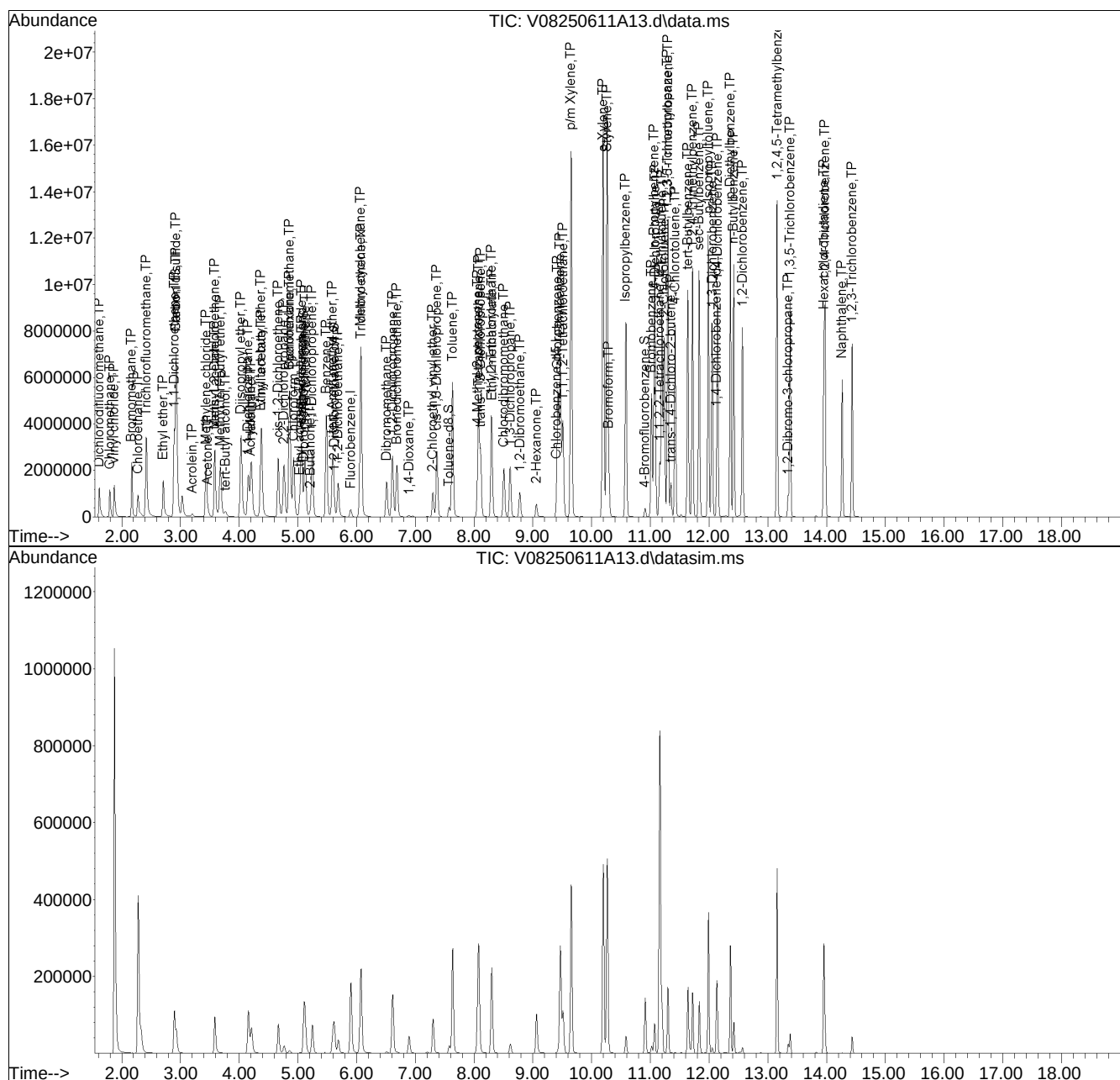
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A13.d
 Acq On : 11 Jun 2025 7:27 am
 Operator : VOA108:PID
 Sample : I8260STD120PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 11 11:03:26 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

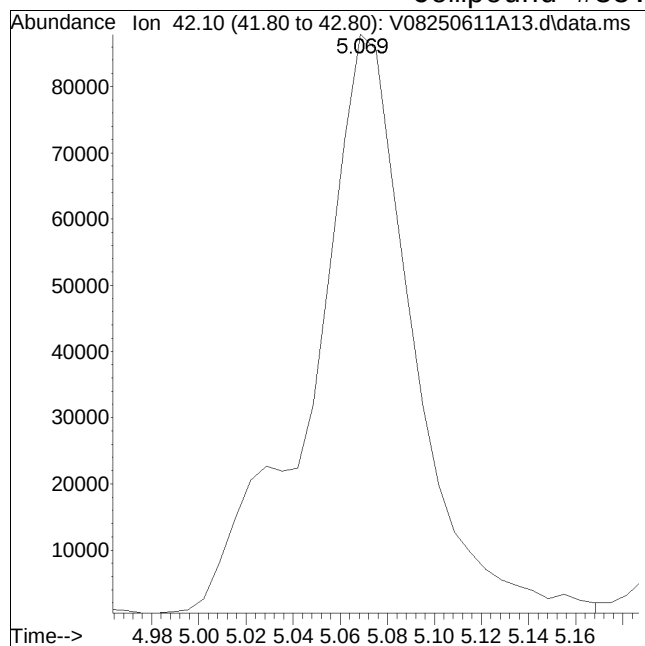
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

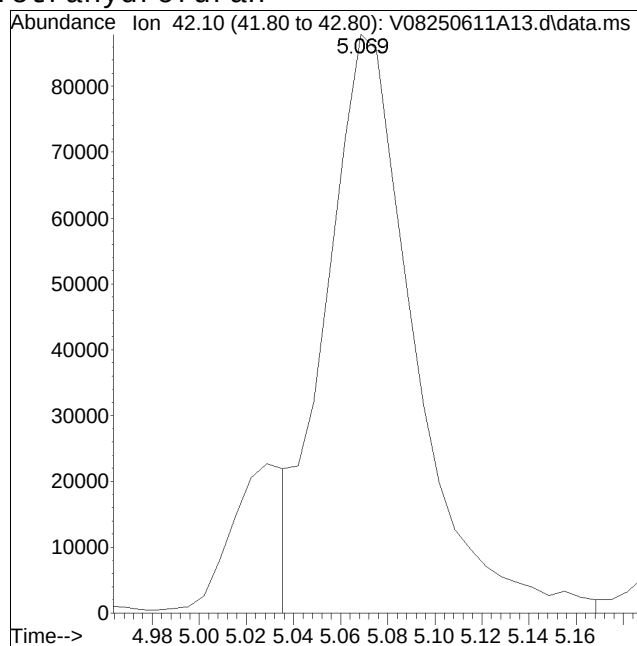
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A13.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 7:27 am Instrument : V0A 108
Sample : I8260STD120PPB Quant Date : 6/11/2025 11:03 am

Compound #35: Tetrahydrofuran



Original Peak Response = 259487

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

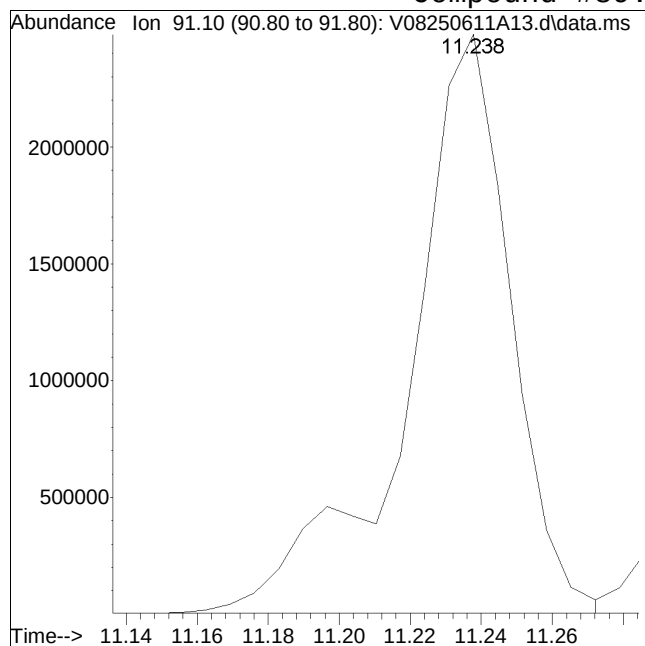


Manual Peak Response = 228076 M6

Manual Integration Report

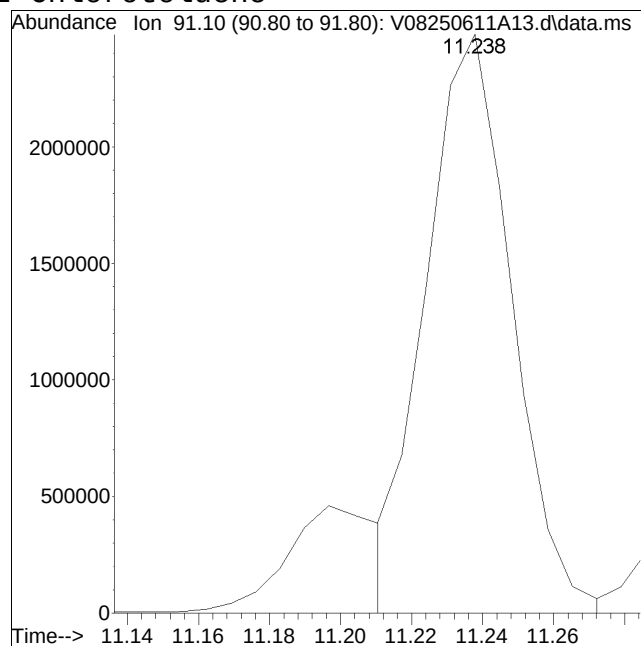
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A13.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 7:27 am Instrument : V0A 108
Sample : I8260STD120PPB Quant Date : 6/11/2025 11:03 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 4954386

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



Manual Peak Response = 4169907 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A14.d
 Acq On : 11 Jun 2025 7:49 am
 Operator : VOA108:PID
 Sample : I8260STD200PPB
 Misc : WG2077605,ICAL22328 (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 11 14:32:21 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.893	96	367975	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	130.61%	
59) Chlorobenzene-d5	9.403	117	325806	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	153.74%	
79) 1,4-Dichlorobenzene-d4	12.130	152	215713	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	174.39%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	113832	9.603	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	96.03%	
43) 1,2-Dichloroethane-d4	5.612	65	116130	10.257	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	102.57%	
60) Toluene-d8	7.576	98	350509	8.803	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	88.03%	
83) 4-Bromofluorobenzene	10.909	95	133093	9.050	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	90.50%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	1821994	197.717	ug/L	100
3) Chloromethane	1.797	50	1819109	189.898	ug/L	100
4) Vinyl chloride	1.870	62	1968419	172.268	ug/L	97
5) Bromomethane	2.169	94	1812879	219.838	ug/L	99
6) Chloroethane	2.269	64	1217005	147.789	ug/L	100
7) Trichlorofluoromethane	2.416	101	5027180	187.263	ug/L	97
8) Ethyl ether	2.708	74	1243013	174.343	ug/L	95
10) 1,1-Dichloroethene	2.894	96	2459654	198.155	ug/L	94
11) Carbon disulfide	2.921	76	7824521	209.402	ug/L	98
12) Freon-113	2.928	101	2721479	223.372	ug/L	99
14) Acrolein	3.200	56	177608	216.373	ug/L	93
15) Methylene chloride	3.433	84	1772119	171.326	ug/L	98
17) Acetone	3.466	43	315555	138.506	ug/L	99
18) trans-1,2-Dichloroethene	3.586	96	1902275	204.960	ug/L	95
19) Methyl acetate	3.586	43	835217	188.485	ug/L	99
20) Methyl tert-butyl ether	3.679	73	4458728	198.875	ug/L	96
21) tert-Butyl alcohol	3.766	59	407911	929.919	ug/L	# 86
22) Diisopropyl ether	4.032	45	6245862	205.994	ug/L	98
23) 1,1-Dichloroethane	4.151	63	3260848	192.976	ug/L	99
24) Halothane	4.205	117	1577289	205.475	ug/L	99
25) Acrylonitrile	4.191	53	374174	178.693	ug/L	85

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A14.d
 Acq On : 11 Jun 2025 7:49 am
 Operator : VOA108:PID
 Sample : I8260STD200PPB
 Misc : WG2077605,ICAL22328 (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 11 14:32:21 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.371	59	5246645	220.291	ug/L	99
27) Vinyl acetate	4.377	43	3876113	222.209	ug/L	99
28) cis-1,2-Dichloroethene	4.663	96	2104923	198.228	ug/L	98
29) 2,2-Dichloropropane	4.763	77	2658885	209.111	ug/L	97
30) Bromochloromethane	4.856	128	1269912	206.915	ug/L	91
31) Cyclohexane	4.856	56	2986961	216.896	ug/L	94
32) Chloroform	4.923	83	3460576	182.753	ug/L	97
33) Ethyl acetate	5.029	43	1269768	187.690	ug/L	98
34) Carbon tetrachloride	5.056	117	3325078	215.693	ug/L	98
35) Tetrahydrofuran	5.069	42	382855M6	180.810	ug/L	
37) 1,1,1-Trichloroethane	5.122	97	3207205	203.566	ug/L	97
39) 2-Butanone	5.202	43	519958	188.273	ug/L	# 59
40) 1,1-Dichloropropene	5.242	75	2424000	204.378	ug/L	99
41) Benzene	5.482	78	7661085	204.720	ug/L	99
42) tert-Amyl methyl ether	5.592	73	4616153	219.057	ug/L	92
44) 1,2-Dichloroethane	5.681	62	2168384	187.000	ug/L	98
47) Methyl cyclohexane	6.071	83	3210617	243.089	ug/L	95
48) Trichloroethene	6.071	95	2426599	235.351	ug/L	95
50) Dibromomethane	6.509	93	1137796	198.135	ug/L	94
51) 1,2-Dichloropropane	6.611	63	1760776	197.928	ug/L	99
53) 2-Chloroethyl vinyl ether	7.295	63	852766	215.550	ug/L	97
54) Bromodichloromethane	6.686	83	2703626	203.943	ug/L	99
57) 1,4-Dioxane	6.885	88	94802	1873.863	ug/L	99
58) cis-1,3-Dichloropropene	7.364	75	2952452	221.228	ug/L	97
61) Toluene	7.631	92	4943018	198.872	ug/L	96
62) 4-Methyl-2-pentanone	8.062	58	413842	203.135	ug/L	87
63) Tetrachloroethene	8.075	166	2505979	214.336	ug/L	98
65) trans-1,3-Dichloropropene	8.110	75	2611837	211.409	ug/L	99
67) Ethyl methacrylate	8.294	69	1873735	215.252	ug/L	97
68) 1,1,2-Trichloroethane	8.294	83	1274546	182.227	ug/L	97
69) Chlorodibromomethane	8.507	129	2336232	202.112	ug/L	100
70) 1,3-Dichloropropane	8.616	76	2396775	179.047	ug/L	99
71) 1,2-Dibromoethane	8.773	107	1447066	190.291	ug/L	99
72) 2-Hexanone	9.054	43	816511	191.110	ug/L	95
73) Chlorobenzene	9.423	112	6256221	201.377	ug/L	97
74) Ethylbenzene	9.464	91	10615254	213.029	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.512	131	2578912	217.990	ug/L	98
76) p/m Xylene	9.656	106	10262529	484.468	ug/L	87
77) o Xylene	10.197	106	10286272	477.802	ug/L	82
78) Styrene	10.265	104	16537415	472.029	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A14.d
 Acq On : 11 Jun 2025 7:49 am
 Operator : VOA108:PID
 Sample : I8260STD200PPB
 Misc : WG2077605,ICAL22328 (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 11 14:32:21 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.292	173	1852508	225.786	ug/L	97
82)	Isopropylbenzene	10.580	105	12007027	210.560	ug/L	99
84)	Bromobenzene	11.019	156	3104489	196.834	ug/L	99
85)	n-Propylbenzene	11.067	91	14020730	209.699	ug/L	95
86)	1,4-Dichlorobutane	11.081	55	2562333	180.327	ug/L	95
87)	1,1,2,2-Tetrachloroethane	11.163	83	1758068	162.939	ug/L	98
88)	4-Ethyltoluene	11.197	105	11784778	212.401	ug/L	98
89)	2-Chlorotoluene	11.239	91	7659152M6	192.270	ug/L	
90)	1,3,5-Trimethylbenzene	11.300	105	11402875	226.121	ug/L	100
91)	1,2,3-Trichloropropane	11.293	75	1718809	192.461	ug/L	95
92)	trans-1,4-Dichloro-2-b...	11.348	53	456895	185.429	ug/L #	91
93)	4-Chlorotoluene	11.424	91	8147735	206.150	ug/L	98
94)	tert-Butylbenzene	11.636	119	9149282	214.157	ug/L	99
97)	1,2,4-Trimethylbenzene	11.719	105	10821693	219.275	ug/L	99
98)	sec-Butylbenzene	11.829	105	13238611	210.884	ug/L	96
99)	p-Isopropyltoluene	11.986	119	12234991	224.994	ug/L	97
100)	1,3-Dichlorobenzene	12.055	146	6665848	209.365	ug/L	100
101)	1,4-Dichlorobenzene	12.144	146	6712459	207.036	ug/L	98
102)	p-Diethylbenzene	12.364	119	7446280	232.503	ug/L	98
103)	n-Butylbenzene	12.418	91	9861456	211.196	ug/L	97
104)	1,2-Dichlorobenzene	12.569	146	6004623	205.317	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.152	119	12318495	233.293	ug/L	97
106)	1,2-Dibromo-3-chloropr...	13.345	155	324428	201.590	ug/L	95
107)	1,3,5-Trichlorobenzene	13.379	180	4934792	224.073	ug/L	96
108)	Hexachlorobutadiene	13.955	225	2402848	250.864	ug/L	98
109)	1,2,4-Trichlorobenzene	13.976	180	4543261	236.669	ug/L	99
110)	Naphthalene	14.264	128	7603445	211.078	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	3645029	211.567	ug/L	100

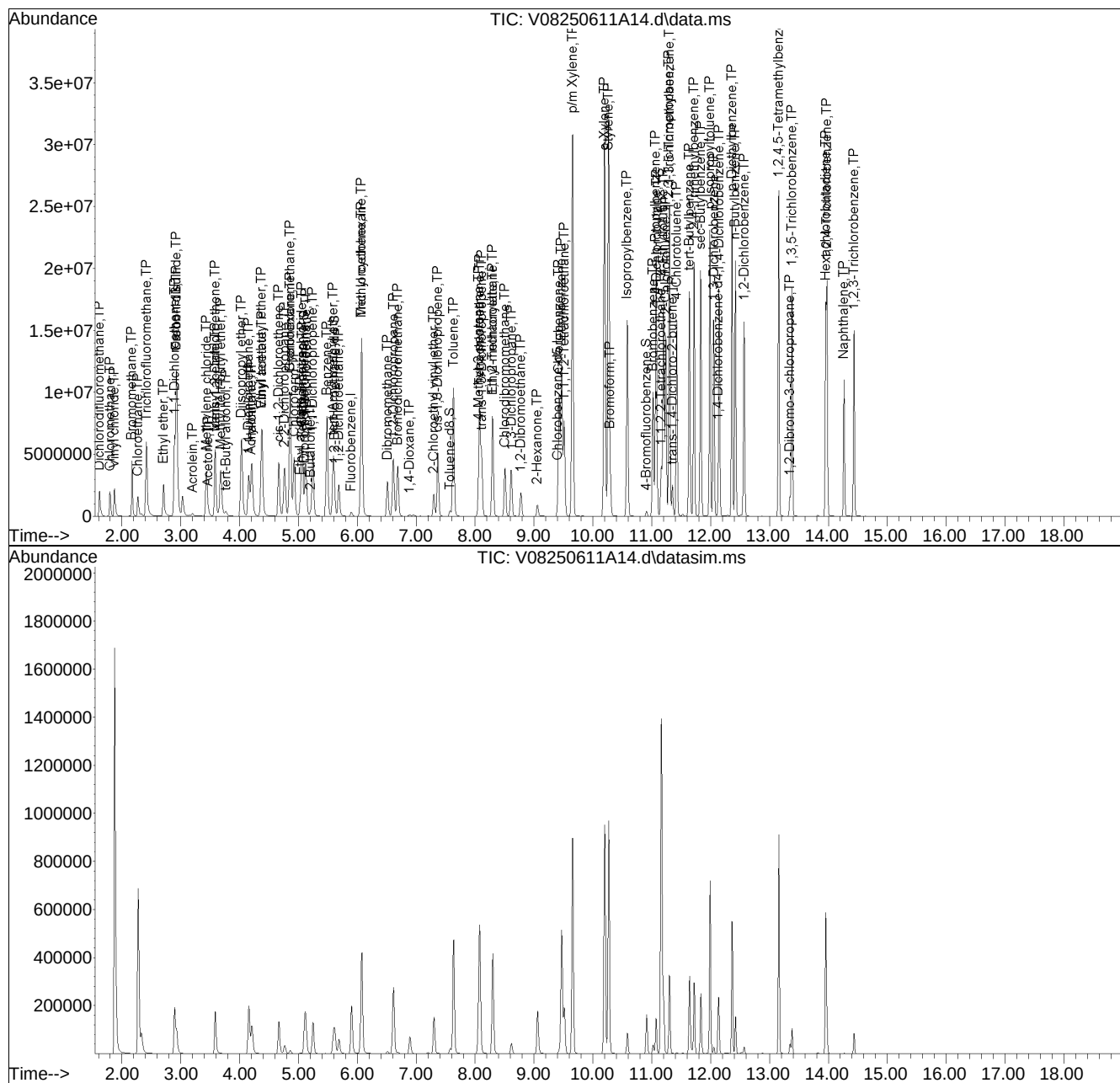
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : K:\VOA108\2025\250611AICAL\  
Data File  : V08250611A14.d  
Acq On     : 11 Jun 2025    7:49 am  
Operator   : VOA108:PID  
Sample     : I8260STD200PPB  
Misc       : WG2077605,ICAL22328 (Sig #1); WG,ICAL22328 (Sig #2)  
ALS Vial   : 14    Sample Multiplier: 1
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Quant Time: Jun 11 14:32:21 2025
Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 11 11:02:18 2025
Response via : Initial Calibration

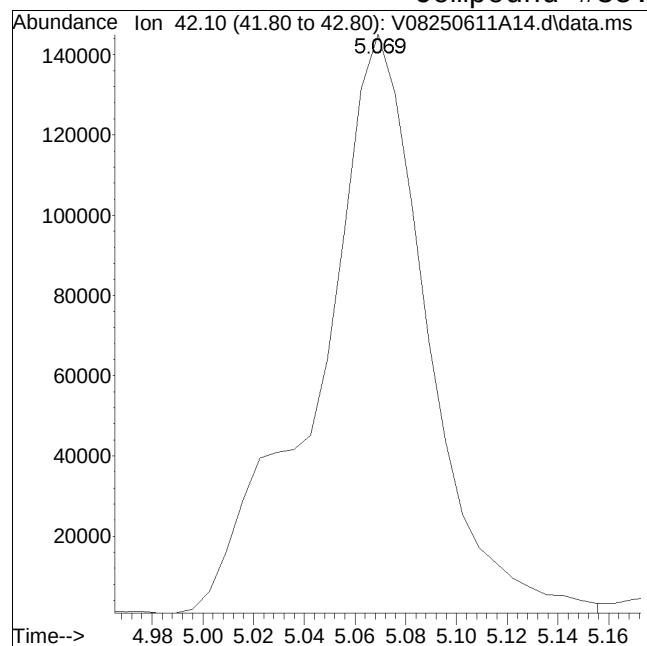
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

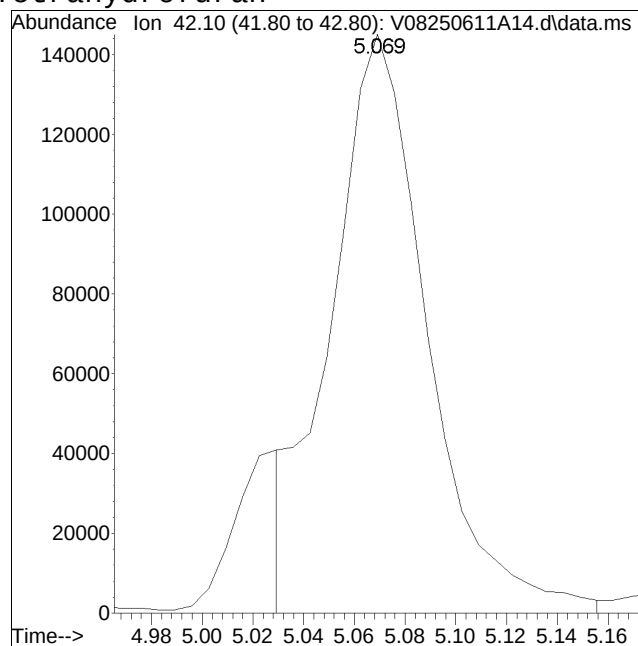
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A14.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 7:49 am Instrument : V0A 108
Sample : I8260STD200PPB Quant Date : 6/11/2025 11:03 am

Compound #35: Tetrahydrofuran



Original Peak Response = 427815

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

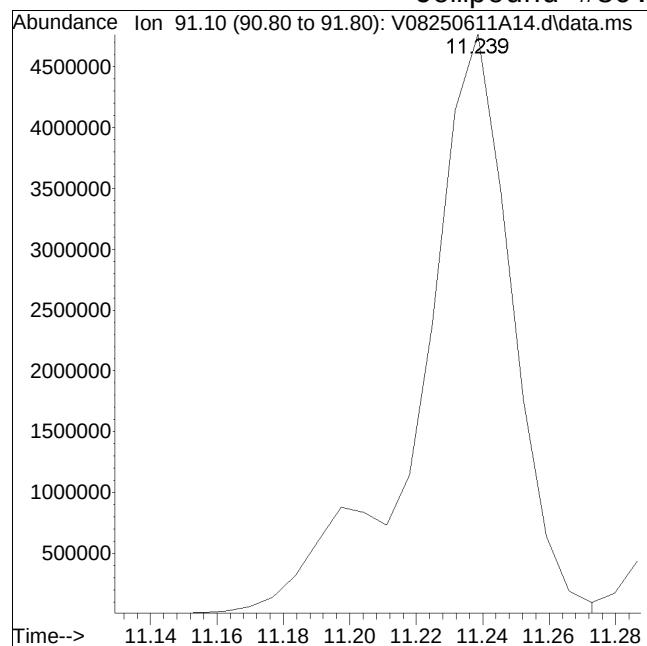


Manual Peak Response = 382855 M6

Manual Integration Report

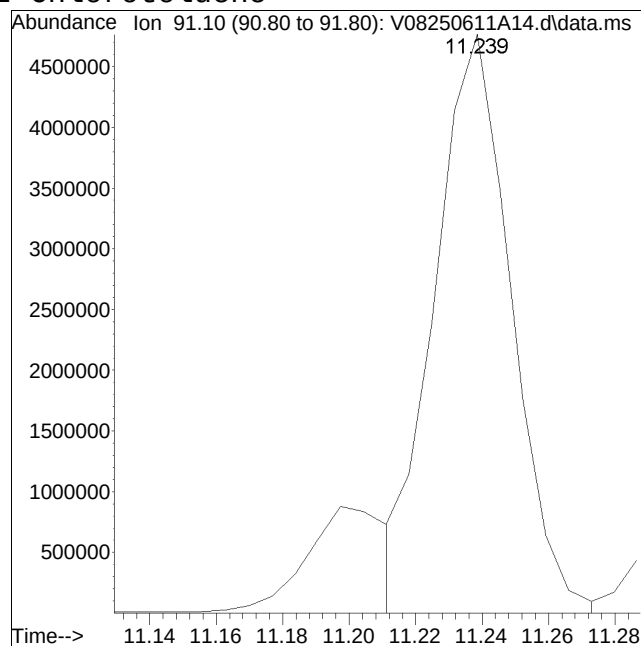
Data Path : K:\VOA108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A14.d Operator : VOA108:PID
Date Inj'd : 6/11/2025 7:49 am Instrument : VOA 108
Sample : I8260STD200PPB Quant Date : 6/11/2025 11:03 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 9081549

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



Manual Peak Response = 7659152 M6

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A19.d
 Acq On : 11 Jun 2025 9:38 am
 Operator : VOA108:PID
 Sample : C8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 11 15:03:01 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 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	109	0.00
2 TP	Dichlorodifluoromethane	0.250	0.300	-20.0	118	0.00
3 TP	Chloromethane	0.260	0.301	-15.8	120	0.00
4 TP	Vinyl chloride	0.311	0.333	-7.1	101	0.00
5 TP	Bromomethane	0.224	0.211	5.8	100	0.00
6 TP	Chloroethane	0.224	0.235	-4.9	102	0.00
7 TP	Trichlorofluoromethane	0.730	0.831	-13.8	109	0.00
8 TP	Ethyl ether	0.194	0.175	9.8	96	0.00
10 TP	1,1-Dichloroethene	0.337	0.340	-0.9	115	0.00
11 TP	Carbon disulfide	1.015	0.896	11.7	111	0.00
12 TP	Freon-113	0.331	0.417	-26.0#	169	0.00
14 TP	Acrolein	0.024	0.020	16.7	82	-0.01
15 TP	Methylene chloride	0.281	0.241	14.2	94	0.00
17 TP	Acetone	0.050	0.042	16.0	87	0.00
18 TP	trans-1,2-Dichloroethene	0.252	0.248	1.6	107	0.00
19 TP	Methyl acetate	0.122	0.110	9.8	101	0.00
20 TP	Methyl tert-butyl ether	0.609	0.500	17.9	88	0.00
21 TP	tert-Butyl alcohol	0.012	0.011	8.3	99	0.00
22 TP	Diisopropyl ether	0.824	0.803	2.5	105	0.00
23 TP	1,1-Dichloroethane	0.459	0.468	-2.0	104	0.00
24 TP	Halothane	0.209	0.220	-5.3	106	0.00
25 TP	Acrylonitrile	0.057	0.050	12.3	83	0.00
26 TP	Ethyl tert-butyl ether	0.647	0.621	4.0	109	0.00
27 TP	Vinyl acetate	0.474	0.370	21.9#	88	0.00
28 TP	cis-1,2-Dichloroethene	0.289	0.285	1.4	102	0.00
29 TP	2,2-Dichloropropane	0.346	0.338	2.3	107	0.00
30 TP	Bromochloromethane	0.167	0.145	13.2	97	0.00
31 TP	Cyclohexane	0.374	0.404	-8.0	112	0.00
32 TP	Chloroform	0.515	0.479	7.0	100	0.00
33 TP	Ethyl acetate	0.184	0.169	8.2	98	0.00
34 TP	Carbon tetrachloride	0.419	0.405	3.3	103	0.00
35 TP	Tetrahydrofuran	0.058	0.052	10.3	93	0.00
36 S	Dibromofluoromethane	0.322	0.323	-0.3	112	0.00
37 TP	1,1,1-Trichloroethane	0.428	0.441	-3.0	105	0.00
39 TP	2-Butanone	0.075	0.071	5.3	106	0.00
40 TP	1,1-Dichloropropene	0.322	0.356	-10.6	116	0.00
41 TP	Benzene	1.017	1.004	1.3	102	0.00
42 TP	tert-Amyl methyl ether	0.573	0.509	11.2	98	0.00
43 S	1,2-Dichloroethane-d4	0.308	0.291	5.5	103	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A19.d
 Acq On : 11 Jun 2025 9:38 am
 Operator : VOA108:PID
 Sample : C8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 11 15:03:01 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 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)
44 TP	1,2-Dichloroethane	0.315	0.295	6.3	100	0.00
47 TP	Methyl cyclohexane	0.381	0.357	6.3	110	0.00
48 TP	Trichloroethene	0.280	0.260	7.1	102	0.00
50 TP	Dibromomethane	0.156	0.147	5.8	98	0.00
51 TP	1,2-Dichloropropane	0.242	0.235	2.9	102	0.00
53 TP	2-Chloroethyl vinyl ether	0.115	0.100	13.0	100	0.00
54 TP	Bromodichloromethane	0.360	0.330	8.3	99	0.00
57 TP	1,4-Dioxane	0.00137	0.00139#	-1.5	103	0.00
58 TP	cis-1,3-Dichloropropene	0.363	0.341	6.1	99	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	110	0.00
60 S	Toluene-d8	1.222	1.292	-5.7	111	0.00
61 TP	Toluene	0.763	0.764	-0.1	103	0.00
62 TP	4-Methyl-2-pentanone	0.063	0.059	6.3	99	0.00
63 TP	Tetrachloroethene	0.359	0.358	0.3	105	0.00
65 TP	trans-1,3-Dichloropropene	0.379	0.370	2.4	97	0.00
67 TP	Ethyl methacrylate	0.288	0.267	7.3	102	0.00
68 TP	1,1,2-Trichloroethane	0.215	0.212	1.4	102	0.00
69 TP	Chlorodibromomethane	0.355	0.323	9.0	97	0.00
70 TP	1,3-Dichloropropane	0.411	0.410	0.2	99	0.00
71 TP	1,2-Dibromoethane	0.233	0.232	0.4	97	0.00
72 TP	2-Hexanone	0.131	0.108	17.6	92	0.00
73 TP	Chlorobenzene	0.954	0.941	1.4	106	0.00
74 TP	Ethylbenzene	1.529	1.541	-0.8	105	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.363	0.333	8.3	98	0.00
76 TP	p/m Xylene	* 20.000	18.242	8.8	106	0.00
77 TP	o Xylene	0.661	0.592	10.4	105	0.00
78 TP	Styrene	* 20.000	16.238	18.8	102	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00
80 TP	Bromoform	0.380	0.296	22.1#	91	0.00
82 TP	Isopropylbenzene	2.644	2.594	1.9	107	0.00
83 S	4-Bromofluorobenzene	0.682	0.680	0.3	105	0.00
84 TP	Bromobenzene	0.731	0.679	7.1	102	0.00
85 TP	n-Propylbenzene	3.100	3.056	1.4	105	0.00
86 TP	1,4-Dichlorobutane	0.659	0.640	2.9	101	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.500	0.447	10.6	90	0.00
88 TP	4-Ethyltoluene	2.572	2.641	-2.7	110	0.00
89 TP	2-Chlorotoluene	1.800	1.711	4.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A19.d
 Acq On : 11 Jun 2025 9:38 am
 Operator : VOA108:PID
 Sample : C8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 11 15:03:01 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 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)
90 TP	1,3,5-Trimethylbenzene	2.338	2.150	8.0	102	0.00
91 TP	1,2,3-Trichloropropane	0.414	0.361	12.8	94	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.120	0.113	5.8	100	0.00
93 TP	4-Chlorotoluene	1.832	1.788	2.4	104	0.00
94 TP	tert-Butylbenzene	1.981	1.948	1.7	109	0.00
97 TP	1,2,4-Trimethylbenzene	2.288	2.236	2.3	106	0.00
98 TP	sec-Butylbenzene	2.910	2.902	0.3	106	0.00
99 TP	p-Isopropyltoluene	* 10.000	8.953	10.5	106	0.00
100 TP	1,3-Dichlorobenzene	1.476	1.396	5.4	106	0.00
101 TP	1,4-Dichlorobenzene	1.503	1.394	7.3	105	0.00
102 TP	p-Diethylbenzene	1.575	1.450	7.9	107	0.00
103 TP	n-Butylbenzene	2.165	2.285	-5.5	113	0.00
104 TP	1,2-Dichlorobenzene	1.356	1.300	4.1	104	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.595	2.413	7.0	110	0.00
106 TP	1,2-Dibromo-3-chloropropane	* 10.000	8.939	10.6	92	0.00
107 TP	1,3,5-Trichlorobenzene	1.021	0.963	5.7	105	0.00
108 TP	Hexachlorobutadiene	0.444	0.408	8.1	104	0.00
109 TP	1,2,4-Trichlorobenzene	0.890	0.827	7.1	103	0.00
110 TP	Naphthalene	1.670	1.592	4.7	101	0.00
111 TP	1,2,3-Trichlorobenzene	0.799	0.721	9.8	101	0.00

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A19.d
 Acq On : 11 Jun 2025 9:38 am
 Operator : VOA108:PID
 Sample : C8260STD10PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 11 15:03:01 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.892	96	306842	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	108.91%	
59) Chlorobenzene-d5	9.403	117	233533	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	110.20%	
79) 1,4-Dichlorobenzene-d4	12.130	152	138409	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	111.90%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	99242	10.040	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.40%	
43) 1,2-Dichloroethane-d4	5.619	65	89262	9.454	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	94.54%	
60) Toluene-d8	7.576	98	301752	10.573	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	105.73%	
83) 4-Bromofluorobenzene	10.909	95	94086	9.971	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.71%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	92021	11.975	ug/L	99
3) Chloromethane	1.797	50	92490	11.579	ug/L	98
4) Vinyl chloride	1.870	62	102098	10.715	ug/L	96
5) Bromomethane	2.169	94	64610	9.396	ug/L	100
6) Chloroethane	2.282	64	72139	10.506	ug/L	100
7) Trichlorofluoromethane	2.422	101	254898	11.387	ug/L	97
8) Ethyl ether	2.708	74	53793	9.048	ug/L	97
10) 1,1-Dichloroethene	2.894	96	104267	10.074	ug/L	94
11) Carbon disulfide	2.921	76	274812	8.820	ug/L	96
12) Freon-113	2.927	101	127800	12.579	ug/L	99
14) Acrolein	3.193	56	6255	8.540	ug/L	98
15) Methylene chloride	3.433	84	73882	8.566	ug/L	93
17) Acetone	3.473	43	12880	8.367	ug/L	98
18) trans-1,2-Dichloroethene	3.586	96	75951	9.814	ug/L	97
19) Methyl acetate	3.592	43	33763	9.034	ug/L	97
20) Methyl tert-butyl ether	3.679	73	153411	8.206	ug/L	96
21) tert-Butyl alcohol	3.765	59	17309	46.190	ug/L #	83
22) Diisopropyl ether	4.031	45	246479	9.749	ug/L	99
23) 1,1-Dichloroethane	4.158	63	143650	10.195	ug/L	98
24) Halothane	4.204	117	67383	10.527	ug/L	100
25) Acrylonitrile	4.197	53	15206	8.709	ug/L #	72

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A19.d
 Acq On : 11 Jun 2025 9:38 am
 Operator : VOA108:PID
 Sample : C8260STD10PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 11 15:03:01 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.370	59	190485	9.591	ug/L	90
27) Vinyl acetate	4.384	43	113599	7.810	ug/L	97
28) cis-1,2-Dichloroethene	4.663	96	87574	9.890	ug/L	100
29) 2,2-Dichloropropane	4.763	77	103767	9.787	ug/L	98
30) Bromochloromethane	4.849	128	44420	8.680	ug/L	95
31) Cyclohexane	4.863	56	123903	10.790	ug/L	93
32) Chloroform	4.929	83	147051	9.313	ug/L	98
33) Ethyl acetate	5.029	43	51895	9.199	ug/L	97
34) Carbon tetrachloride	5.062	117	124188	9.661	ug/L	88
35) Tetrahydrofuran	5.075	42	16088M6	9.112	ug/L	
37) 1,1,1-Trichloroethane	5.122	97	135398	10.306	ug/L	98
39) 2-Butanone	5.215	43	21740	9.440	ug/L	98
40) 1,1-Dichloropropene	5.242	75	109137	11.035	ug/L	97
41) Benzene	5.482	78	308049	9.872	ug/L	100
42) tert-Amyl methyl ether	5.591	73	156055	8.881	ug/L	98
44) 1,2-Dichloroethane	5.687	62	90599	9.370	ug/L	99
47) Methyl cyclohexane	6.063	83	109583	9.374	ug/L	98
48) Trichloroethene	6.070	95	79680	9.268	ug/L	96
50) Dibromomethane	6.508	93	45061	9.410	ug/L	98
51) 1,2-Dichloropropane	6.611	63	72053	9.713	ug/L	99
53) 2-Chloroethyl vinyl ether	7.302	63	30633	8.672	ug/L	96
54) Bromodichloromethane	6.686	83	101324	9.166	ug/L	100
57) 1,4-Dioxane	6.898	88	21374	506.652	ug/L	96
58) cis-1,3-Dichloropropene	7.363	75	104605	9.400	ug/L	98
61) Toluene	7.630	92	178327	10.009	ug/L	99
62) 4-Methyl-2-pentanone	8.061	58	13888	9.510	ug/L	95
63) Tetrachloroethene	8.075	166	83497	9.963	ug/L	97
65) trans-1,3-Dichloropropene	8.109	75	86431	9.760	ug/L	97
67) Ethyl methacrylate	8.301	69	62397	9.292	ug/L	99
68) 1,1,2-Trichloroethane	8.301	83	49395	9.853	ug/L	97
69) Chlorodibromomethane	8.506	129	75369	9.097	ug/L	97
70) 1,3-Dichloropropane	8.616	76	95716	9.975	ug/L	99
71) 1,2-Dibromoethane	8.773	107	54140	9.932	ug/L	100
72) 2-Hexanone	9.067	43	25250	8.245	ug/L	93
73) Chlorobenzene	9.423	112	219688	9.865	ug/L	97
74) Ethylbenzene	9.464	91	359845	10.075	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.505	131	77760	9.170	ug/L	100
76) p/m Xylene	9.649	106	285530	18.242	ug/L	100
77) o Xylene	10.189	106	276625	17.926	ug/L	97
78) Styrene	10.258	104	446666	16.238	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A19.d
 Acq On : 11 Jun 2025 9:38 am
 Operator : VOA108:PID
 Sample : C8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 11 15:03:01 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

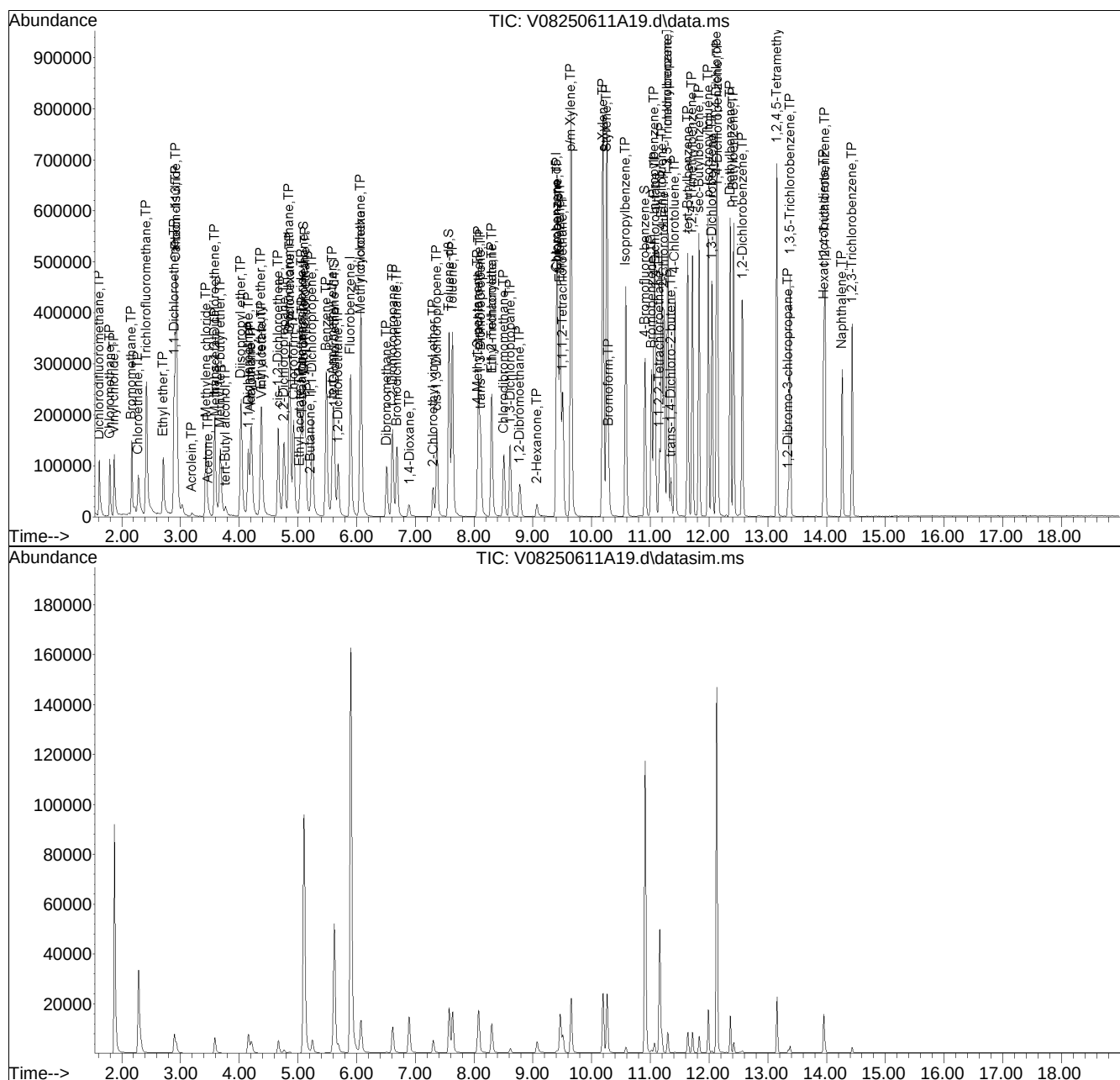
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.292	173	40902	7.769	ug/L	93
82)	Isopropylbenzene	10.580	105	359016	9.812	ug/L	98
84)	Bromobenzene	11.019	156	93926	9.281	ug/L	99
85)	n-Propylbenzene	11.067	91	423006	9.860	ug/L	98
86)	1,4-Dichlorobutane	11.080	55	88641	9.722	ug/L	95
87)	1,1,2,2-Tetrachloroethane	11.156	83	61829	8.931	ug/L	99
88)	4-Ethyltoluene	11.197	105	365535	10.268	ug/L	100
89)	2-Chlorotoluene	11.231	91	236873M6	9.510	ug/L	
90)	1,3,5-Trimethylbenzene	11.293	105	297608	9.198	ug/L	100
91)	1,2,3-Trichloropropane	11.293	75	49932M1	8.714	ug/L	
92)	trans-1,4-Dichloro-2-b...	11.348	53	15678	9.423	ug/L	93
93)	4-Chlorotoluene	11.417	91	247429	9.757	ug/L	98
94)	tert-Butylbenzene	11.636	119	269630	9.836	ug/L	97
97)	1,2,4-Trimethylbenzene	11.711	105	309442	9.772	ug/L	98
98)	sec-Butylbenzene	11.828	105	401728	9.973	ug/L	99
99)	p-Isopropyltoluene	11.986	119	344727	8.953	ug/L	99
100)	1,3-Dichlorobenzene	12.048	146	193209	9.458	ug/L	99
101)	1,4-Dichlorobenzene	12.144	146	192951	9.275	ug/L	99
102)	p-Diethylbenzene	12.363	119	200644	9.201	ug/L	99
103)	n-Butylbenzene	12.418	91	316278	10.557	ug/L	99
104)	1,2-Dichlorobenzene	12.569	146	179982	9.591	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.152	119	333965	9.298	ug/L	100
106)	1,2-Dibromo-3-chloropr...	13.344	155	9772	8.939	ug/L	98
107)	1,3,5-Trichlorobenzene	13.378	180	133346	9.437	ug/L	98
108)	Hexachlorobutadiene	13.955	225	56463	9.187	ug/L	98
109)	1,2,4-Trichlorobenzene	13.975	180	114454	9.292	ug/L	97
110)	Naphthalene	14.263	128	220300	9.531	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	99748	9.023	ug/L	99

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

(QT Reviewed)

Quant Time: Jun 11 15:03:01 2025
Quant Method : K:\V0A108\2025\250611AICAL\V108_250611A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 11 15:00:39 2025
Response via : Initial Calibration

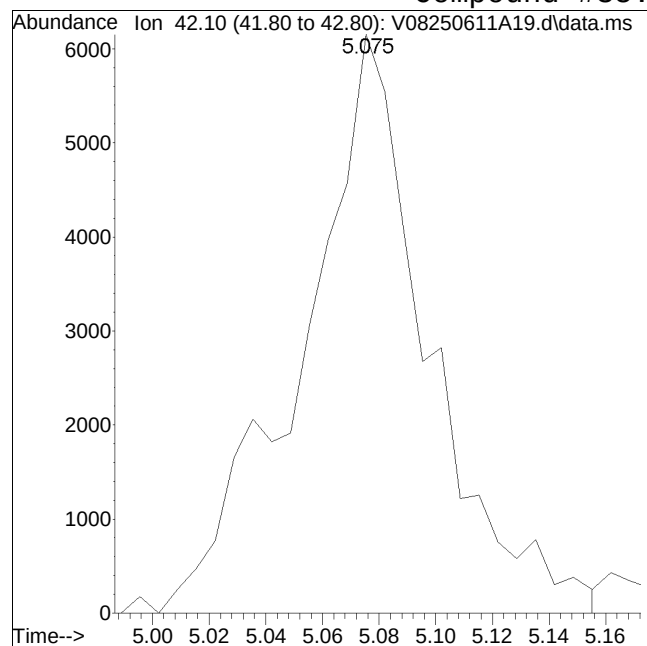
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

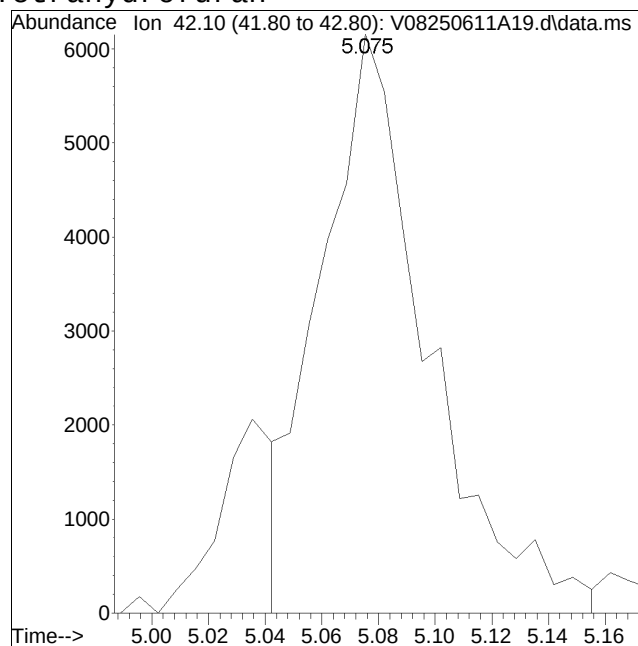
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A19.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 9:38 am Instrument : V0A 108
Sample : C8260STD10PPB Quant Date : 6/11/2025 3:01 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 18897

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

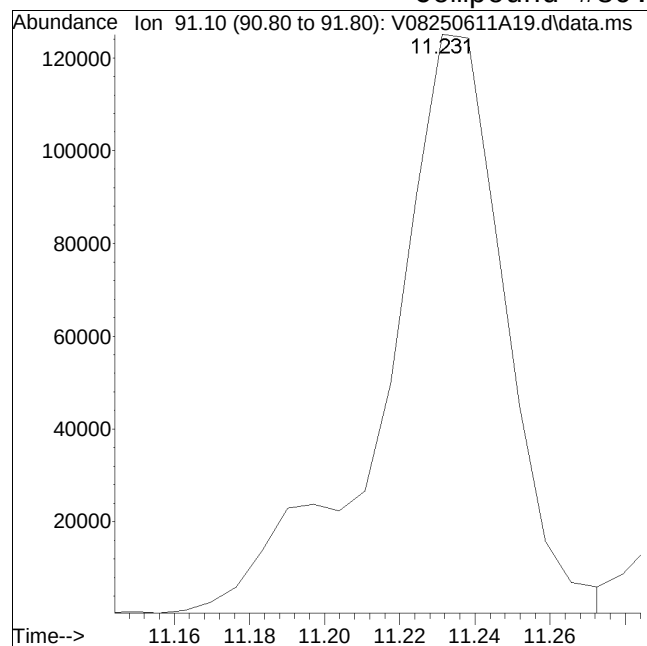


Manual Peak Response = 16088 M6

Manual Integration Report

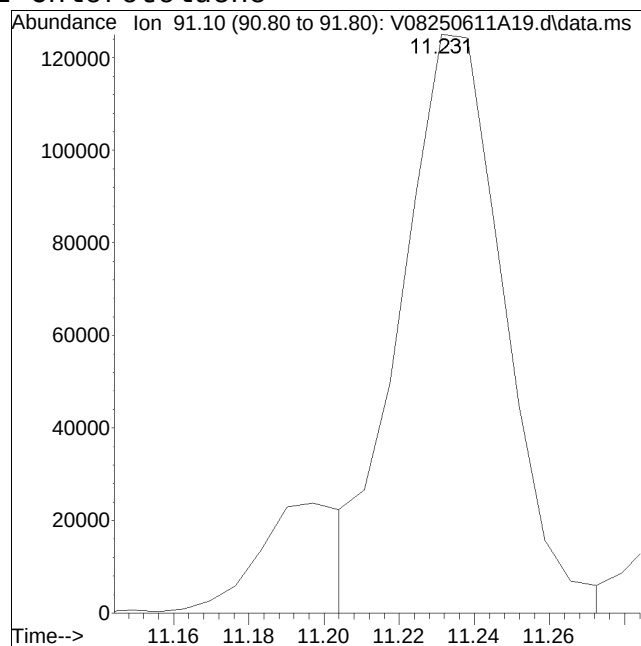
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A19.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 9:38 am Instrument : V0A 108
Sample : C8260STD10PPB Quant Date : 6/11/2025 3:01 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 272529

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

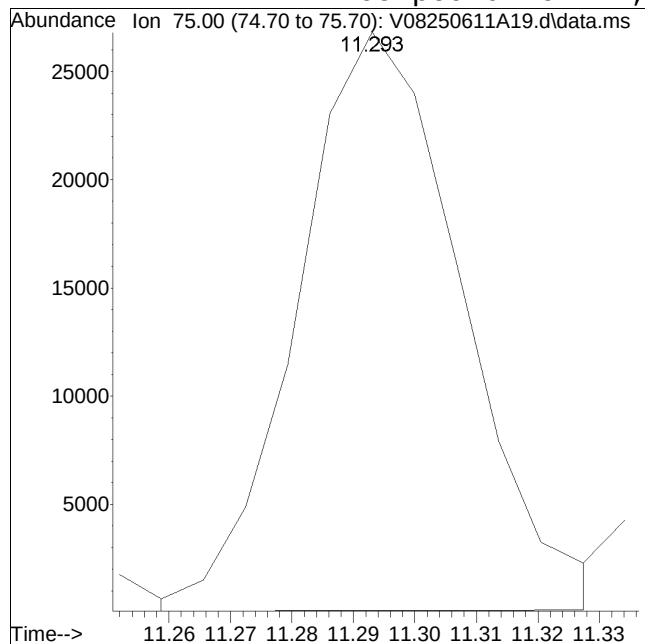


Manual Peak Response = 236873 M6

Manual Integration Report

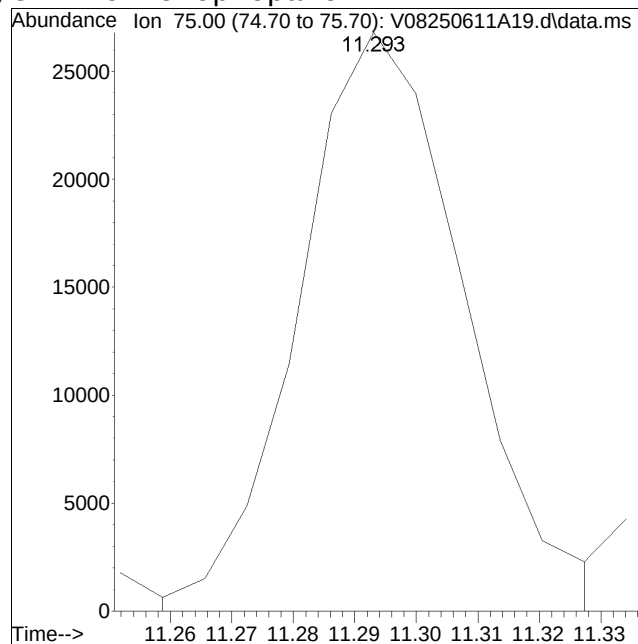
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A19.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 9:38 am Instrument : V0A 108
Sample : C8260STD10PPB Quant Date : 6/11/2025 3:01 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 49543

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



Manual Peak Response = 49932 M1

Method Path : K:\VOA108\2025\250611AICAL\
Method File : V108_250611A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jun 11 15:00:39 2025

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
76	TP p/m Xylene	Q	ug/L	20.0	18.965	-5.2	1.00	1.150	15.0
78	TP Styrene	Q	ug/L	20.0	17.410	-13.0	1.00	1.298	29.8
99	TP p-Isopropyltoluene	L	ug/L	10.0	9.473	-5.3	0.50	0.598	19.6
106	TP 1,2-Dibromo-3-chloropropane	L	ug/L	10.0	10.808	8.1	0.50	0.461	-7.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
76	TP p/m Xylene	Quadratic	0.998611	0.002886	0.685773	-0.03795
78	TP Styrene	Quadratic	0.997080	0.001728	1.23346	-0.0947519
99	TP p-Isopropyltoluene	Linear	0.997570	0.000000	2.89042	-0.0972698
106	TP 1,2-Dibromo-3-chloropropane	Linear	0.995794	0.000000	0.0808152	-0.00163456

Continuing Calibration

Calibration Verification Summary

Form 7

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA105
 Lab File ID : V05250624A01
 Sample No : WG2083406-2
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/24/25 07:34
 Init. Calib. Date(s) : 06/06/25 06/06/25
 Init. Calib. Times : 15:21 19:12

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	122	0
Dichlorodifluoromethane	0.295	0.265	-	10.2	20	117	0
Chloromethane	0.382	0.323	-	15.4	20	105	0
Vinyl chloride	0.339	0.289	-	14.7	20	104	0
Bromomethane	0.121	0.117	-	3.3	20	133	0
Chloroethane	0.165	0.176	-	-6.7	20	132	0
Trichlorofluoromethane	0.316	0.377	-	-19.3	20	146	0
Ethyl ether	0.11	0.101	-	8.2	20	107	0
1,1-Dichloroethene	0.21	0.199	-	5.2	20	127	0
Carbon disulfide	0.473	0.632	-	-33.6*	20	181	0
Freon-113	0.197	0.221	-	-12.2	20	143	0
Acrolein	0.025	0.032	-	-28*	20	146	0
Methylene chloride	0.272	0.254	-	6.6	20	115	0
Acetone	10	8.884	-	11.2	20	103	0
trans-1,2-Dichloroethene	0.262	0.247	-	5.7	20	113	0
Methyl acetate	0.108	0.115	-	-6.5	20	125	0
Methyl tert-butyl ether	0.598	0.485	-	18.9	20	94	0
tert-Butyl alcohol	0.015	0.011	-	26.7*	20	82	0
Diisopropyl ether	0.974	0.837	-	14.1	20	103	0
1,1-Dichloroethane	0.551	0.511	-	7.3	20	111	0
Halothane	0.195	0.199	-	-2.1	20	125	0
Acrylonitrile	0.072	0.062	-	13.9	20	100	0
Ethyl tert-butyl ether	0.8	0.637	-	20.4*	20	93	0
Vinyl acetate	0.202	0.397	-	-96.5*	20	215	0
cis-1,2-Dichloroethene	0.291	0.276	-	5.2	20	114	0
2,2-Dichloropropane	0.404	0.356	-	11.9	20	107	0
Bromochloromethane	0.123	0.136	-	-10.6	20	128	0
Cyclohexane	0.607	0.551	-	9.2	20	114	0
Chloroform	0.46	0.448	-	2.6	20	117	0
Ethyl acetate	0.177	0.158	-	10.7	20	102	0
Carbon tetrachloride	0.352	0.364	-	-3.4	20	126	0
Tetrahydrofuran	0.062	0.055	-	11.3	20	99	0
Dibromofluoromethane	0.262	0.279	-	-6.5	20	130	0
1,1,1-Trichloroethane	0.4	0.4	-	0	20	122	0
2-Butanone	0.076	0.071	-	6.6	20	109	0
1,1-Dichloropropene	0.339	0.309	-	8.8	20	110	0
Benzene	1.055	1.025	-	2.8	20	112	0
tert-Amyl methyl ether	0.574	0.434	-	24.4*	20	89	0
1,2-Dichloroethane-d4	0.304	0.326	-	-7.2	20	125	0
1,2-Dichloroethane	0.333	0.331	-	0.6	20	116	0
Methyl cyclohexane	0.434	0.431	-	0.7	20	121	0
Trichloroethene	0.279	0.266	-	4.7	20	119	0
Dibromomethane	0.133	0.137	-	-3	20	120	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA105
 Lab File ID : V05250624A01
 Sample No : WG2083406-2
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/24/25 07:34
 Init. Calib. Date(s) : 06/06/25 06/06/25
 Init. Calib. Times : 15:21 19:12

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.297	0.274	-	7.7	20	108	0
Bromodichloromethane	0.342	0.327	-	4.4	20	114	0
1,4-Dioxane	0.0014	0.00139*	-	0.7	20	110	0
cis-1,3-Dichloropropene	0.397	0.345	-	13.1	20	99	0
Chlorobenzene-d5	1	1	-	0	20	132	0
Toluene-d8	1.322	1.255	-	5.1	20	125	0
Toluene	0.85	0.758	-	10.8	20	115	0
4-Methyl-2-pentanone	0.089	0.065	-	27*	20	94	0
Tetrachloroethene	0.363	0.379	-	-4.4	20	130	0
trans-1,3-Dichloropropene	0.424	0.35	-	17.5	20	99	0
Ethyl methacrylate	0.305	0.229	-	24.9*	20	94	0
1,1,2-Trichloroethane	0.205	0.193*	-	5.9	20	119	0
Chlorodibromomethane	0.307	0.292	-	4.9	20	122	0
1,3-Dichloropropane	0.437	0.391	-	10.5	20	111	0
1,2-Dibromoethane	0.239	0.226	-	5.4	20	116	0
2-Hexanone	0.145	0.107	-	26.2*	20	90	0
Chlorobenzene	0.946	0.891	-	5.8	20	120	0
Ethylbenzene	1.642	1.484	-	9.6	20	116	0
1,1,1,2-Tetrachloroethane	0.323	0.309	-	4.3	20	123	0
p/m Xylene	0.631	0.596	-	5.5	20	117	0
o Xylene	0.616	0.57	-	7.5	20	117	0
Styrene	1	0.95	-	5	20	119	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	151	0
Bromoform	0.32	0.268	-	16.2	20	120	0
Isopropylbenzene	3.057	2.469	-	19.2	20	121	0
4-Bromofluorobenzene	0.918	0.802	-	12.6	20	131	0
Bromobenzene	0.676	0.61	-	9.8	20	132	0
n-Propylbenzene	3.484	2.946	-	15.4	20	126	0
1,4-Dichlorobutane	0.968	0.731	-	24.5*	20	112	0
1,1,2,2-Tetrachloroethane	0.508	0.424	-	16.5	20	122	0
4-Ethyltoluene	2.93	2.541	-	13.3	20	126	0
2-Chlorotoluene	2.049	1.795	-	12.4	20	132	0
1,3,5-Trimethylbenzene	2.53	2.153	-	14.9	20	125	0
1,2,3-Trichloropropane	0.4	0.334	-	16.5	20	121	0
trans-1,4-Dichloro-2-buten	0.174	0.13	-	25.3*	20	104	0
4-Chlorotoluene	2.148	1.778	-	17.2	20	124	0
tert-Butylbenzene	2.108	1.87	-	11.3	20	131	0
1,2,4-Trimethylbenzene	2.491	2.074	-	16.7	20	121	0
sec-Butylbenzene	3.065	2.736	-	10.7	20	133	0
p-Isopropyltoluene	2.624	2.422	-	7.7	20	134	0
1,3-Dichlorobenzene	1.332	1.286	-	3.5	20	142	0
1,4-Dichlorobenzene	1.36	1.294	-	4.9	20	139	0
p-Diethylbenzene	1.536	1.397	-	9	20	132	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA105
 Lab File ID : V05250624A01
 Sample No : WG2083406-2
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/24/25 07:34
 Init. Calib. Date(s) : 06/06/25 06/06/25
 Init. Calib. Times : 15:21 19:12

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.15	1.956	-	9	20	135	0
1,2-Dichlorobenzene	1.204	1.146	-	4.8	20	139	0
1,2,4,5-Tetramethylbenzene	2.317	1.909	-	17.6	20	120	0
1,2-Dibromo-3-chloropropan	0.076	0.063	-	17.1	20	119	0
1,3,5-Trichlorobenzene	0.892	0.872	-	2.2	20	141	0
Hexachlorobutadiene	0.32	0.337	-	-5.3	20	154	0
1,2,4-Trichlorobenzene	0.765	0.72	-	5.9	20	134	0
Naphthalene	1.641	1.352	-	17.6	20	117	0
1,2,3-Trichlorobenzene	0.645	0.626	-	2.9	20	137	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA108
 Lab File ID : V08250624A01
 Sample No : WG2083759-2
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/24/25 07:36
 Init. Calib. Date(s) : 06/11/25 06/11/25
 Init. Calib. Times : 04:08 07:49

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	94	0
Dichlorodifluoromethane	0.25	0.252	-	-0.8	20	85	0
Chloromethane	0.26	0.235	-	9.6	20	80	0
Vinyl chloride	0.311	0.316	-	-1.6	20	83	0
Bromomethane	0.224	0.137	-	38.8*	20	56	0
Chloroethane	0.224	0.258	-	-15.2	20	96	0
Trichlorofluoromethane	0.73	0.798	-	-9.3	20	90	0
Ethyl ether	0.194	0.217	-	-11.9	20	102	0
1,1-Dichloroethene	0.337	0.38	-	-12.8	20	111	0
Carbon disulfide	1.015	1.279	-	-26*	20	136	0
Freon-113	0.331	0.434	-	-31.1*	20	152	0
Acrolein	0.024	0.026	-	-8.3	20	90	0
Methylene chloride	0.281	0.249	-	11.4	20	83	0
Acetone	0.05	0.054	-	-8	20	96	0
trans-1,2-Dichloroethene	0.252	0.241	-	4.4	20	89	0
Methyl acetate	0.122	0.134	-	-9.8	20	105	0
Methyl tert-butyl ether	0.609	0.595	-	2.3	20	90	0
tert-Butyl alcohol	0.012	0.015	-	-25*	20	117	.01
Diisopropyl ether	0.824	0.801	-	2.8	20	90	0
1,1-Dichloroethane	0.459	0.453	-	1.3	20	87	0
Halothane	0.209	0.201	-	3.8	20	84	0
Acrylonitrile	0.057	0.054	-	5.3	20	78	0
Ethyl tert-butyl ether	0.647	0.629	-	2.8	20	95	0
Vinyl acetate	0.474	0.528	-	-11.4	20	108	0
cis-1,2-Dichloroethene	0.289	0.271	-	6.2	20	83	0
2,2-Dichloropropane	0.346	0.386	-	-11.6	20	105	0
Bromochloromethane	0.167	0.15	-	10.2	20	86	0
Cyclohexane	0.374	0.377	-	-0.8	20	90	0
Chloroform	0.515	0.462	-	10.3	20	83	0
Ethyl acetate	0.184	0.206	-	-12	20	103	0
Carbon tetrachloride	0.419	0.412	-	1.7	20	90	0
Tetrahydrofuran	0.058	0.061	-	-5.2	20	93	0
Dibromofluoromethane	0.322	0.318	-	1.2	20	95	0
1,1,1-Trichloroethane	0.428	0.43	-	-0.5	20	87	0
2-Butanone	0.075	0.077	-	-2.7	20	100	0
1,1-Dichloropropene	0.322	0.308	-	4.3	20	87	0
Benzene	1.017	0.996	-	2.1	20	87	0
tert-Amyl methyl ether	0.573	0.568	-	0.9	20	94	0
1,2-Dichloroethane-d4	0.308	0.307	-	0.3	20	94	0
1,2-Dichloroethane	0.315	0.306	-	2.9	20	89	0
Methyl cyclohexane	0.381	0.362	-	5	20	96	0
Trichloroethene	0.28	0.261	-	6.8	20	88	0
Dibromomethane	0.156	0.159	-	-1.9	20	91	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA108
 Lab File ID : V08250624A01
 Sample No : WG2083759-2
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/24/25 07:36
 Init. Calib. Date(s) : 06/11/25 06/11/25
 Init. Calib. Times : 04:08 07:49

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.242	0.242	-	0	20	91	0
2-Chloroethyl vinyl ether	0.115	0.101	-	12.2	20	88	0
Bromodichloromethane	0.36	0.352	-	2.2	20	91	0
1,4-Dioxane	0.00137	0.00162*	-	-18.2	20	103	0
cis-1,3-Dichloropropene	0.363	0.368	-	-1.4	20	92	0
Chlorobenzene-d5	1	1	-	0	20	100	0
Toluene-d8	1.222	1.251	-	-2.4	20	97	0
Toluene	0.763	0.712	-	6.7	20	87	0
4-Methyl-2-pentanone	0.063	0.063	-	0	20	95	0
Tetrachloroethene	0.359	0.326	-	9.2	20	86	0
trans-1,3-Dichloropropene	0.379	0.398	-	-5	20	95	0
Ethyl methacrylate	0.288	0.267	-	7.3	20	92	0
1,1,2-Trichloroethane	0.215	0.209	-	2.8	20	91	0
Chlorodibromomethane	0.355	0.342	-	3.7	20	93	0
1,3-Dichloropropane	0.411	0.419	-	-1.9	20	92	0
1,2-Dibromoethane	0.233	0.254	-	-9	20	96	0
2-Hexanone	0.131	0.124	-	5.3	20	95	0
Chlorobenzene	0.954	0.874	-	8.4	20	89	0
Ethylbenzene	1.529	1.41	-	7.8	20	87	0
1,1,1,2-Tetrachloroethane	0.363	0.362	-	0.3	20	96	0
p/m Xylene	20	17.345	-	13.3	20	91	0
o Xylene	0.661	0.565	-	14.5	20	90	0
Styrene	20	15.263	-	23.7*	20	87	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	109	0
Bromoform	0.38	0.317	-	16.6	20	96	0
Isopropylbenzene	2.644	2.304	-	12.9	20	93	0
4-Bromofluorobenzene	0.682	0.692	-	-1.5	20	104	0
Bromobenzene	0.731	0.606	-	17.1	20	89	0
n-Propylbenzene	3.1	2.739	-	11.6	20	92	0
1,4-Dichlorobutane	0.659	0.601	-	8.8	20	93	0
1,1,2,2-Tetrachloroethane	0.5	0.508	-	-1.6	20	100	0
4-Ethyltoluene	2.572	2.356	-	8.4	20	96	0
2-Chlorotoluene	1.8	1.576	-	12.4	20	90	0
1,3,5-Trimethylbenzene	2.338	2.054	-	12.1	20	95	0
1,2,3-Trichloropropane	0.414	0.38	-	8.2	20	97	0
trans-1,4-Dichloro-2-buten	0.12	0.123	-	-2.5	20	106	0
4-Chlorotoluene	1.832	1.633	-	10.9	20	93	0
tert-Butylbenzene	1.981	1.799	-	9.2	20	98	0
1,2,4-Trimethylbenzene	2.288	2.031	-	11.2	20	94	0
sec-Butylbenzene	2.91	2.667	-	8.4	20	95	0
p-Isopropyltoluene	10	8.042	-	19.6	20	92	0
1,3-Dichlorobenzene	1.476	1.246	-	15.6	20	93	0
1,4-Dichlorobenzene	1.503	1.308	-	13	20	96	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA108
 Lab File ID : V08250624A01
 Sample No : WG2083759-2
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/24/25 07:36
 Init. Calib. Date(s) : 06/11/25 06/11/25
 Init. Calib. Times : 04:08 07:49

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.575	1.314	-	16.6	20	95	0
n-Butylbenzene	2.165	2.005	-	7.4	20	97	0
1,2-Dichlorobenzene	1.356	1.207	-	11	20	94	0
1,2,4,5-Tetramethylbenzene	2.595	2.089	-	19.5	20	93	0
1,2-Dibromo-3-chloropropan	10	9.982	-	0.2	20	101	0
1,3,5-Trichlorobenzene	1.021	0.896	-	12.2	20	96	0
Hexachlorobutadiene	0.444	0.352	-	20.7*	20	88	0
1,2,4-Trichlorobenzene	0.89	0.736	-	17.3	20	90	0
Naphthalene	1.67	1.533	-	8.2	20	95	0
1,2,3-Trichlorobenzene	0.799	0.659	-	17.5	20	90	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A01.D
 Acq On : 24 Jun 2025 7:34 am
 Operator : VOA105:PID
 Sample : WG2083406-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083406,ICAL22348 (Sig #1); WG,ICAL22348 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 07:57:47 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 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	122	0.00
2 TP	Dichlorodifluoromethane	0.295	0.265	10.2	117	0.00
3 TP	Chloromethane	0.382	0.323	15.4	105	0.00
4 TP	Vinyl chloride	0.339	0.289	14.7	104	0.00
5 TP	Bromomethane	0.121	0.117	3.3	133	0.00
6 TP	Chloroethane	0.165	0.176	-6.7	132	0.00
7 TP	Trichlorofluoromethane	0.316	0.377	-19.3	146	0.00
8 TP	Ethyl ether	0.110	0.101	8.2	107	0.00
10 TP	1,1-Dichloroethene	0.210	0.199	5.2	127	0.00
11 TP	Carbon disulfide	0.473	0.632	-33.6#	181	0.00
12 TP	Freon-113	0.197	0.221	-12.2	143	0.00
14 TP	Acrolein	0.025	0.032	-28.0#	146	0.00
15 TP	Methylene chloride	0.272	0.254	6.6	115	0.00
17 TP	Acetone	* 10.000	8.884	11.2	103	0.00
18 TP	trans-1,2-Dichloroethene	0.262	0.247	5.7	113	0.00
19 TP	Methyl acetate	0.108	0.115	-6.5	125	0.00
20 TP	Methyl tert-butyl ether	0.598	0.485	18.9	94	0.00
21 TP	tert-Butyl alcohol	0.015	0.011	26.7#	82	0.00
22 TP	Diisopropyl ether	0.974	0.837	14.1	103	0.00
23 TP	1,1-Dichloroethane	0.551	0.511	7.3	111	0.00
24 TP	Halothane	0.195	0.199	-2.1	125	0.00
25 TP	Acrylonitrile	0.072	0.062	13.9	100	0.00
26 TP	Ethyl tert-butyl ether	0.800	0.637	20.4#	93	0.00
27 TP	Vinyl acetate	0.202	0.397	-96.5#	215#	0.00
28 TP	cis-1,2-Dichloroethene	0.291	0.276	5.2	114	0.00
29 TP	2,2-Dichloropropane	0.404	0.356	11.9	107	0.00
30 TP	Bromochloromethane	0.123	0.136	-10.6	128	0.00
31 TP	Cyclohexane	0.607	0.551	9.2	114	0.00
32 TP	Chloroform	0.460	0.448	2.6	117	0.00
33 TP	Ethyl acetate	0.177	0.158	10.7	102	0.00
34 TP	Carbon tetrachloride	0.352	0.364	-3.4	126	0.00
35 TP	Tetrahydrofuran	0.062	0.055	11.3	99	0.00
36 S	Dibromofluoromethane	0.262	0.279	-6.5	130	0.00
37 TP	1,1,1-Trichloroethane	0.400	0.400	0.0	122	0.00
39 TP	2-Butanone	0.076	0.071	6.6	109	0.00
40 TP	1,1-Dichloropropene	0.339	0.309	8.8	110	0.00
41 TP	Benzene	1.055	1.025	2.8	112	0.00
42 TP	tert-Amyl methyl ether	0.574	0.434	24.4#	89	0.00
43 S	1,2-Dichloroethane-d4	0.304	0.326	-7.2	125	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A01.D
 Acq On : 24 Jun 2025 7:34 am
 Operator : VOA105:PID
 Sample : WG2083406-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083406,ICAL22348 (Sig #1); WG,ICAL22348 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 07:57:47 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 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)
44 TP	1,2-Dichloroethane	0.333	0.331	0.6	116	0.00
47 TP	Methyl cyclohexane	0.434	0.431	0.7	121	0.00
48 TP	Trichloroethene	0.279	0.266	4.7	119	0.00
50 TP	Dibromomethane	0.133	0.137	-3.0	120	0.00
51 TP	1,2-Dichloropropane	0.297	0.274	7.7	108	0.00
54 TP	Bromodichloromethane	0.342	0.327	4.4	114	0.00
57 TP	1,4-Dioxane	0.00140	0.00139#	0.7	110	0.00
58 TP	cis-1,3-Dichloropropene	0.397	0.345	13.1	99	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	132	0.00
60 S	Toluene-d8	1.322	1.255	5.1	125	0.00
61 TP	Toluene	0.850	0.758	10.8	115	0.00
62 TP	4-Methyl-2-pentanone	0.089	0.065	27.0#	94	0.00
63 TP	Tetrachloroethene	0.363	0.379	-4.4	130	0.00
65 TP	trans-1,3-Dichloropropene	0.424	0.350	17.5	99	0.00
67 TP	Ethyl methacrylate	0.305	0.229	24.9#	94	0.00
68 TP	1,1,2-Trichloroethane	0.205	0.193#	5.9	119	0.00
69 TP	Chlorodibromomethane	0.307	0.292	4.9	122	0.00
70 TP	1,3-Dichloropropane	0.437	0.391	10.5	111	0.00
71 TP	1,2-Dibromoethane	0.239	0.226	5.4	116	0.00
72 TP	2-Hexanone	0.145	0.107	26.2#	90	0.00
73 TP	Chlorobenzene	0.946	0.891	5.8	120	0.00
74 TP	Ethylbenzene	1.642	1.484	9.6	116	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.323	0.309	4.3	123	0.00
76 TP	p/m Xylene	0.631	0.596	5.5	117	0.00
77 TP	o Xylene	0.616	0.570	7.5	117	0.00
78 TP	Styrene	1.000	0.950	5.0	119	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	151	0.00
80 TP	Bromoform	0.320	0.268	16.2	120	0.00
82 TP	Isopropylbenzene	3.057	2.469	19.2	121	0.00
83 S	4-Bromofluorobenzene	0.918	0.802	12.6	131	0.00
84 TP	Bromobenzene	0.676	0.610	9.8	132	0.00
85 TP	n-Propylbenzene	3.484	2.946	15.4	126	0.00
86 TP	1,4-Dichlorobutane	0.968	0.731	24.5#	112	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.508	0.424	16.5	122	0.00
88 TP	4-Ethyltoluene	2.930	2.541	13.3	126	0.00
89 TP	2-Chlorotoluene	2.049	1.795	12.4	132	0.00
90 TP	1,3,5-Trimethylbenzene	2.530	2.153	14.9	125	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A01.D
 Acq On : 24 Jun 2025 7:34 am
 Operator : VOA105:PID
 Sample : WG2083406-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083406, ICAL22348 (Sig #1); WG, ICAL22348 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 07:57:47 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 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)
91 TP	1,2,3-Trichloropropane	0.400	0.334	16.5	121	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.174	0.130	25.3#	104	0.00
93 TP	4-Chlorotoluene	2.148	1.778	17.2	124	0.00
94 TP	tert-Butylbenzene	2.108	1.870	11.3	131	0.00
97 TP	1,2,4-Trimethylbenzene	2.491	2.074	16.7	121	0.00
98 TP	sec-Butylbenzene	3.065	2.736	10.7	133	0.00
99 TP	p-Isopropyltoluene	2.624	2.422	7.7	134	0.00
100 TP	1,3-Dichlorobenzene	1.332	1.286	3.5	142	0.00
101 TP	1,4-Dichlorobenzene	1.360	1.294	4.9	139	0.00
102 TP	p-Diethylbenzene	1.536	1.397	9.0	132	0.00
103 TP	n-Butylbenzene	2.150	1.956	9.0	135	0.00
104 TP	1,2-Dichlorobenzene	1.204	1.146	4.8	139	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.317	1.909	17.6	120	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.076	0.063	17.1	119	0.00
107 TP	1,3,5-Trichlorobenzene	0.892	0.872	2.2	141	0.00
108 TP	Hexachlorobutadiene	0.320	0.337	-5.3	154	0.00
109 TP	1,2,4-Trichlorobenzene	0.765	0.720	5.9	134	0.00
110 TP	Naphthalene	1.641	1.352	17.6	117	0.00
111 TP	1,2,3-Trichlorobenzene	0.645	0.626	2.9	137	0.00

* Evaluation of CC level amount vs concentration.

(#) = Out of Range SPCC's out = 2 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A01.D
 Acq On : 24 Jun 2025 7:34 am
 Operator : VOA105:PID
 Sample : WG2083406-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083406, ICAL22348 (Sig #1); WG, ICAL22348 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 07:57:47 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.513	96	334495	10.000	ug/L	0.00
Standard Area 1 = 334495			Recovery	=	100.00%	
59) Chlorobenzene-d5	8.985	117	267591	10.000	ug/L	0.00
Standard Area 1 = 267591			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	11.797	152	168616	10.000	ug/L	0.00
Standard Area 1 = 168616			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.732	113	93470	10.647	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	106.47%	
43) 1,2-Dichloroethane-d4	5.238	65	108907	10.701	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	107.01%	
60) Toluene-d8	7.165	98	335761	9.491	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	94.91%	
83) 4-Bromofluorobenzene	10.538	95	135285	8.735	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	87.35%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.431	85	88678	8.994	ug/L	99
3) Chloromethane	1.595	50	108061	8.454	ug/L	100
4) Vinyl chloride	1.650	62	96581	8.513	ug/L	100
5) Bromomethane	1.918	94	39087	9.687	ug/L	98
6) Chloroethane	2.014	64	58999	10.705	ug/L	99
7) Trichlorofluoromethane	2.145	101	126051	11.933	ug/L	100
8) Ethyl ether	2.419	74	33793	9.148	ug/L #	91
10) 1,1-Dichloroethene	2.591	96	66508	9.487	ug/L	96
11) Carbon disulfide	2.611	76	211320	13.349	ug/L	99
12) Freon-113	2.618	101	73792	11.219	ug/L #	71
14) Acrolein	2.900	56	10565	12.891	ug/L	94
15) Methylene chloride	3.112	84	84840	9.316	ug/L	97
17) Acetone	3.174	43	16046	8.884	ug/L	94
18) trans-1,2-Dichloroethene	3.250	96	82660	9.442	ug/L	95
19) Methyl acetate	3.277	43	38580	10.724	ug/L	94
20) Methyl tert-butyl ether	3.346	73	162071	8.100	ug/L #	93
21) tert-Butyl alcohol	3.462	59	18700	38.002	ug/L #	75
22) Diisopropyl ether	3.682	45	280059	8.599	ug/L	96
23) 1,1-Dichloroethane	3.806	63	170919	9.269	ug/L	99
24) Halothane	3.861	117	66502	10.215	ug/L	99
25) Acrylonitrile	3.881	53	20866	8.704	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A01.D
 Acq On : 24 Jun 2025 7:34 am
 Operator : VOA105:PID
 Sample : WG2083406-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083406, ICAL22348 (Sig #1); WG, ICAL22348 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 07:57:47 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.012	59	212988	7.964	ug/L	# 77
27) Vinyl acetate	4.039	43	132903M6	19.706	ug/L	
28) cis-1,2-Dichloroethene	4.307	96	92243	9.493	ug/L	94
29) 2,2-Dichloropropane	4.396	77	119068	8.801	ug/L	92
30) Bromochloromethane	4.492	128	45377	11.060	ug/L	94
31) Cyclohexane	4.471	56	184267	9.077	ug/L	99
32) Chloroform	4.561	83	149942	9.754	ug/L	98
33) Ethyl acetate	4.684	43	53006	8.949	ug/L	97
34) Carbon tetrachloride	4.670	117	121590	10.317	ug/L	99
35) Tetrahydrofuran	4.712	42	18446M6	8.848	ug/L	
37) 1,1,1-Trichloroethane	4.739	97	133711	9.997	ug/L	99
39) 2-Butanone	4.863	43	23783	9.405	ug/L	99
40) 1,1-Dichloropropene	4.856	75	103268	9.098	ug/L	98
41) Benzene	5.097	78	342949	9.716	ug/L	99
42) tert-Amyl methyl ether	5.210	73	145097	7.551	ug/L	# 81
44) 1,2-Dichloroethane	5.309	62	110679	9.949	ug/L	100
47) Methyl cyclohexane	5.655	83	144144	9.923	ug/L	99
48) Trichloroethene	5.683	95	88812	9.532	ug/L	96
50) Dibromomethane	6.120	93	45796	10.268	ug/L	97
51) 1,2-Dichloropropane	6.212	63	91783	9.247	ug/L	98
54) Bromodichloromethane	6.297	83	109270	9.542	ug/L	99
57) 1,4-Dioxane	6.508	88	23230	496.359	ug/L	97
58) cis-1,3-Dichloropropene	6.974	75	115356	8.689	ug/L	99
61) Toluene	7.221	92	202802	8.918	ug/L	100
62) 4-Methyl-2-pentanone	7.673	58	17444	7.365	ug/L	93
63) Tetrachloroethene	7.658	166	101471	10.444	ug/L	99
65) trans-1,3-Dichloropropene	7.715	75	93601	8.258	ug/L	92
67) Ethyl methacrylate	7.905	69	61233	7.505	ug/L	87
68) 1,1,2-Trichloroethane	7.898	83	51533	9.398	ug/L	98
69) Chlorodibromomethane	8.103	129	78139	9.501	ug/L	100
70) 1,3-Dichloropropane	8.209	76	104736	8.955	ug/L	99
71) 1,2-Dibromoethane	8.364	107	60459	9.472	ug/L	98
72) 2-Hexanone	8.674	43	28668	7.394	ug/L	# 93
73) Chlorobenzene	9.006	112	238325	9.419	ug/L	97
74) Ethylbenzene	9.041	91	397179	9.041	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.091	131	82815	9.593	ug/L	99
76) p/m Xylene	9.232	106	318703	18.889	ug/L	99
77) o Xylene	9.775	106	305254	18.533	ug/L	99
78) Styrene	9.846	104	508485	18.998	ug/L	98
80) Bromoform	9.874	173	45197	8.375	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A01.D
 Acq On : 24 Jun 2025 7:34 am
 Operator : VOA105:PID
 Sample : WG2083406-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083406, ICAL22348 (Sig #1); WG, ICAL22348 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 07:57:47 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82)	Isopropylbenzene	10.185	105	416383	8.078	ug/L	99
84)	Bromobenzene	10.644	156	102848	9.023	ug/L	99
85)	n-Propylbenzene	10.694	91	496686	8.454	ug/L	98
86)	1,4-Dichlorobutane	10.722	55	123310	7.556	ug/L	98
87)	1,1,2,2-Tetrachloroethane	10.814	83	71416	8.335	ug/L	99
88)	4-Ethyltoluene	10.828	105	428485	8.672	ug/L	98
89)	2-Chlorotoluene	10.871	91	302743M6	8.764	ug/L	
90)	1,3,5-Trimethylbenzene	10.934	105	362977	8.509	ug/L	98
91)	1,2,3-Trichloropropane	10.949	75	56271M1	8.344	ug/L	
92)	trans-1,4-Dichloro-2-b...	11.012	53	21904	7.449	ug/L #	81
93)	4-Chlorotoluene	11.062	91	299810	8.277	ug/L	95
94)	tert-Butylbenzene	11.288	119	315245	8.869	ug/L	97
97)	1,2,4-Trimethylbenzene	11.373	105	349791	8.327	ug/L	98
98)	sec-Butylbenzene	11.486	105	461308	8.926	ug/L	98
99)	p-Isopropyltoluene	11.649	119	408402	9.232	ug/L	99
100)	1,3-Dichlorobenzene	11.712	146	216849	9.652	ug/L	98
101)	1,4-Dichlorobenzene	11.811	146	218241	9.517	ug/L	98
102)	p-Diethylbenzene	12.038	119	235554	9.097	ug/L	97
103)	n-Butylbenzene	12.094	91	329869	9.098	ug/L	99
104)	1,2-Dichlorobenzene	12.243	146	193297	9.518	ug/L	98
105)	1,2,4,5-Tetramethylben...	12.851	119	321910	8.241	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.049	155	10635	8.334	ug/L	99
107)	1,3,5-Trichlorobenzene	13.071	180	147018	9.771	ug/L	98
108)	Hexachlorobutadiene	13.651	225	56830	10.535	ug/L	100
109)	1,2,4-Trichlorobenzene	13.679	180	121448	9.420	ug/L	99
110)	Naphthalene	13.976	128	228036	8.243	ug/L	100
111)	1,2,3-Trichlorobenzene	14.139	180	105575	9.701	ug/L	99

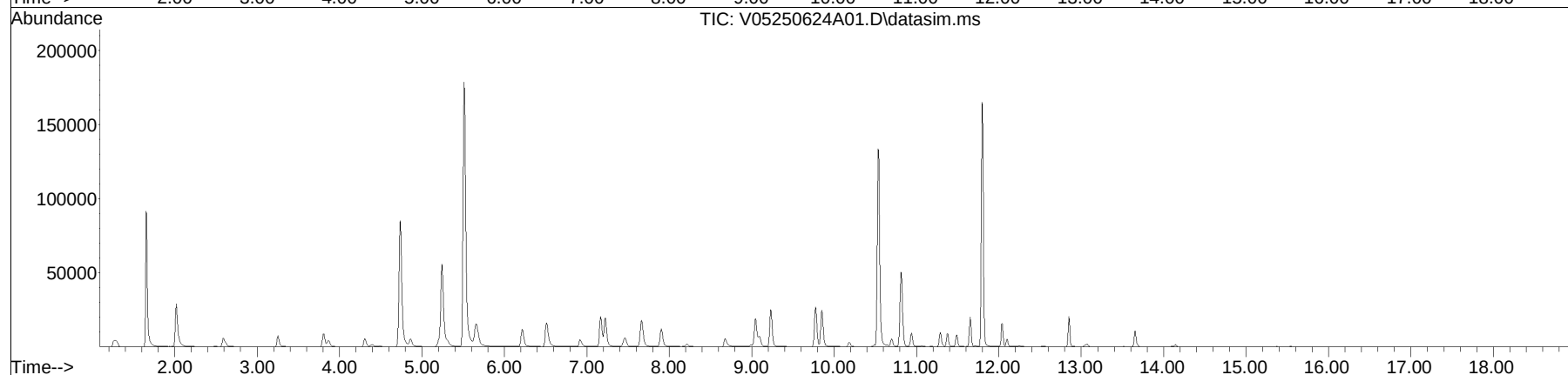
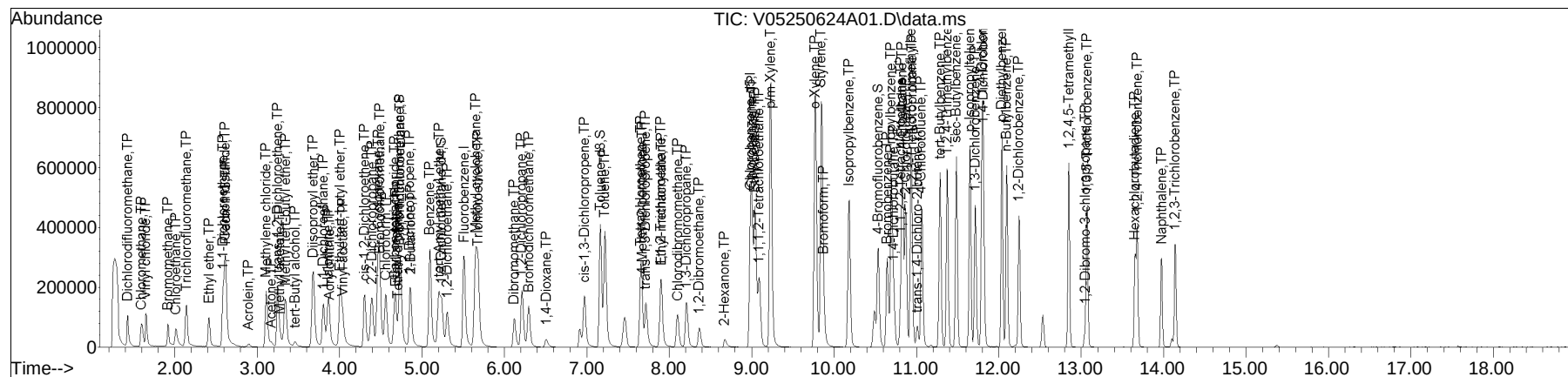
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A01.D
 Acq On : 24 Jun 2025 7:34 am
 Operator : VOA105:PID
 Sample : WG2083406-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083406,ICAL22348 (Sig #1); WG,ICAL22348 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 07:57:47 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

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

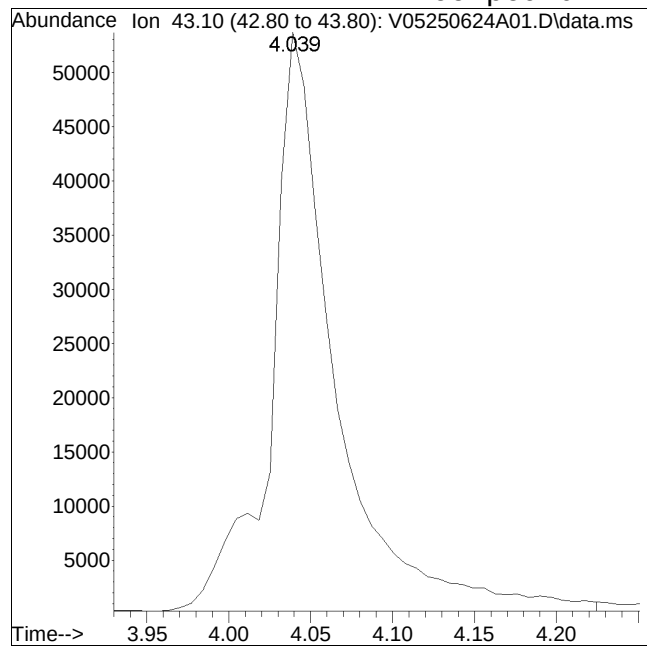


Manual Integration Report

Data Path : K:\VOA105\2025\250624A\
Data File : V05250624A01.D
Date Inj'd : 6/24/2025 7:34 am
Sample : WG2083406-2

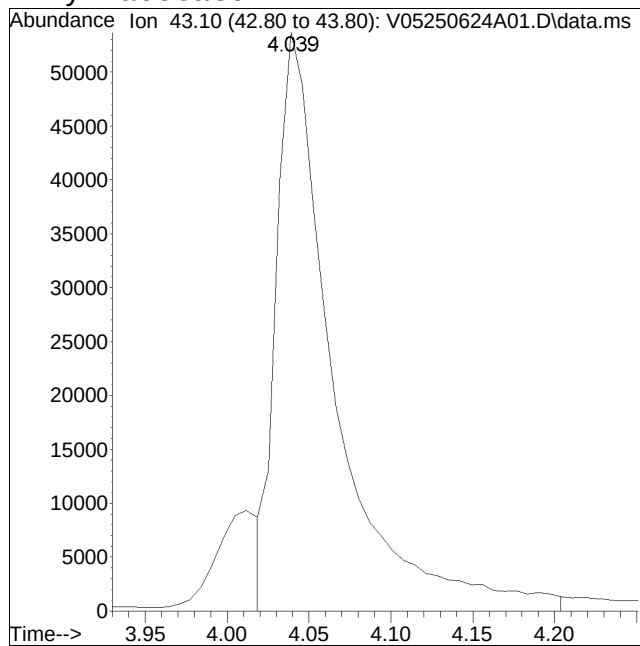
QMethod : V105_250606A_8260.m
Operator : VOA105:PID
Instrument : VOA105
Quant Date : 6/24/2025 7:56 am

Compound #27: Vinyl acetate



Original Peak Response = 146612

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

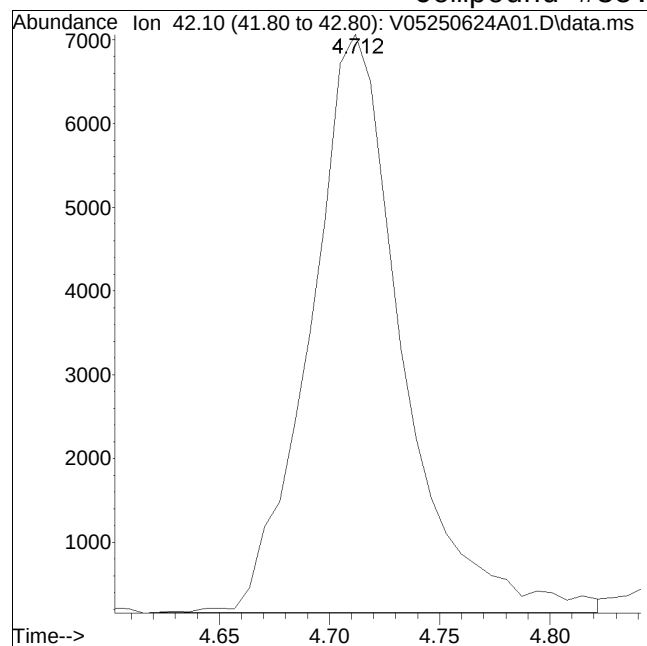


Manual Peak Response = 132903 M6

Manual Integration Report

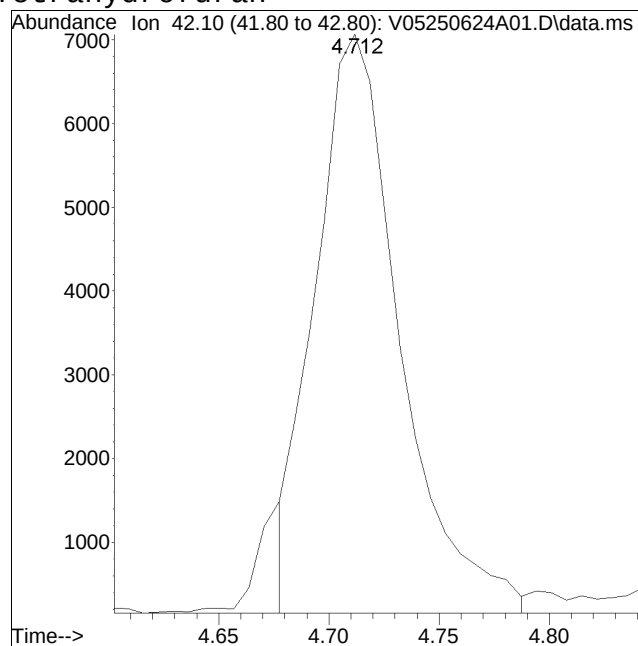
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Data File : V05250624A01.D Operator : V0A105:PID
Date Inj'd : 6/24/2025 7:34 am Instrument : V0A105
Sample : WG2083406-2 Quant Date : 6/24/2025 7:56 am

Compound #35: Tetrahydrofuran



Original Peak Response = 19945

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

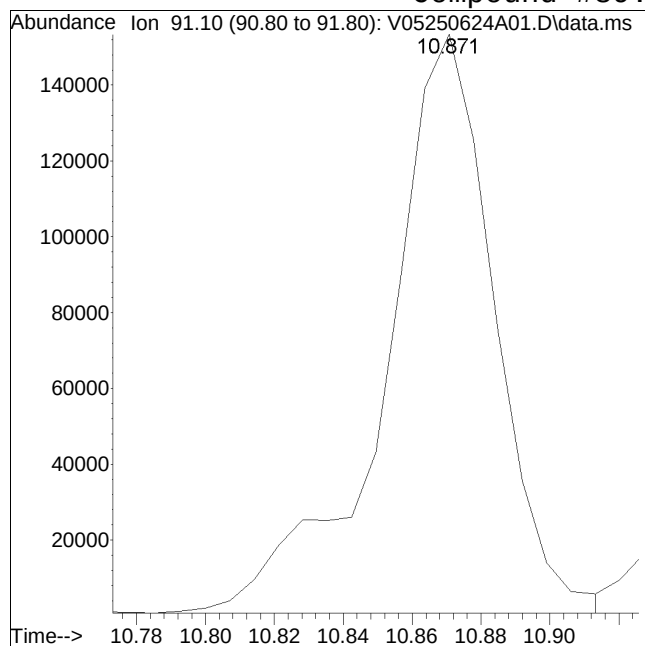


Manual Peak Response = 18446 M6

Manual Integration Report

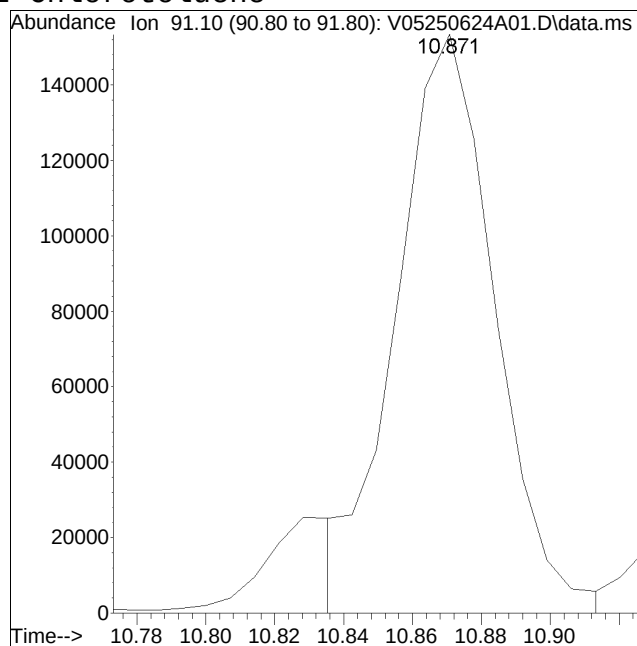
Data Path : K:\V0A105\2025\250624A\ QMethod : V105_250606A_8260.m
Data File : V05250624A01.D Operator : V0A105:PID
Date Inj'd : 6/24/2025 7:34 am Instrument : V0A105
Sample : WG2083406-2 Quant Date : 6/24/2025 7:56 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 333524

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

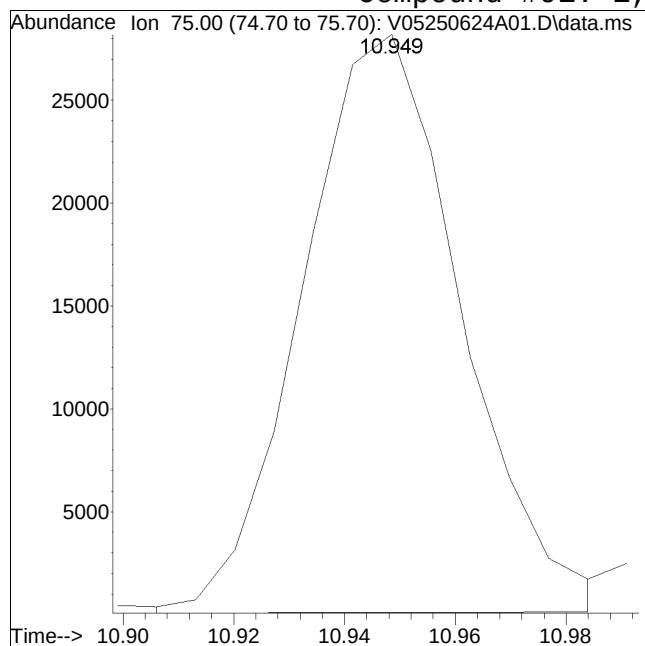


Manual Peak Response = 302743 M6

Manual Integration Report

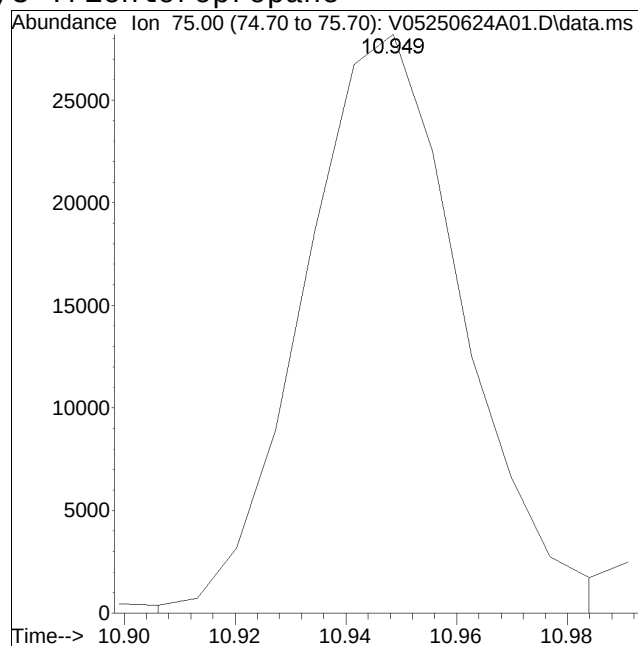
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Data File : V05250624A01.D Operator : V0A105:PID
Date Inj'd : 6/24/2025 7:34 am Instrument : V0A105
Sample : WG2083406-2 Quant Date : 6/24/2025 7:56 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 55795

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



Manual Peak Response = 56271 M1

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A01.d
 Acq On : 24 Jun 2025 7:36 am
 Operator : VOA108:PID
 Sample : WG2083759-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:25:05 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 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	94	0.00
2 TP	Dichlorodifluoromethane	0.250	0.252	-0.8	85	0.00
3 TP	Chloromethane	0.260	0.235	9.6	80	0.00
4 TP	Vinyl chloride	0.311	0.316	-1.6	83	0.00
5 TP	Bromomethane	0.224	0.137	38.8#	56	0.00
6 TP	Chloroethane	0.224	0.258	-15.2	96	0.00
7 TP	Trichlorofluoromethane	0.730	0.798	-9.3	90	0.00
8 TP	Ethyl ether	0.194	0.217	-11.9	102	0.00
10 TP	1,1-Dichloroethene	0.337	0.380	-12.8	111	0.00
11 TP	Carbon disulfide	1.015	1.279	-26.0#	136	0.00
12 TP	Freon-113	0.331	0.434	-31.1#	152	0.00
14 TP	Acrolein	0.024	0.026	-8.3	90	0.00
15 TP	Methylene chloride	0.281	0.249	11.4	83	0.00
17 TP	Acetone	0.050	0.054	-8.0	96	0.00
18 TP	trans-1,2-Dichloroethene	0.252	0.241	4.4	89	0.00
19 TP	Methyl acetate	0.122	0.134	-9.8	105	0.00
20 TP	Methyl tert-butyl ether	0.609	0.595	2.3	90	0.00
21 TP	tert-Butyl alcohol	0.012	0.015	-25.0#	117	0.01
22 TP	Diisopropyl ether	0.824	0.801	2.8	90	0.00
23 TP	1,1-Dichloroethane	0.459	0.453	1.3	87	0.00
24 TP	Halothane	0.209	0.201	3.8	84	0.00
25 TP	Acrylonitrile	0.057	0.054	5.3	78	0.00
26 TP	Ethyl tert-butyl ether	0.647	0.629	2.8	95	0.00
27 TP	Vinyl acetate	0.474	0.528	-11.4	108	0.00
28 TP	cis-1,2-Dichloroethene	0.289	0.271	6.2	83	0.00
29 TP	2,2-Dichloropropane	0.346	0.386	-11.6	105	0.00
30 TP	Bromochloromethane	0.167	0.150	10.2	86	0.00
31 TP	Cyclohexane	0.374	0.377	-0.8	90	0.00
32 TP	Chloroform	0.515	0.462	10.3	83	0.00
33 TP	Ethyl acetate	0.184	0.206	-12.0	103	0.00
34 TP	Carbon tetrachloride	0.419	0.412	1.7	90	0.00
35 TP	Tetrahydrofuran	0.058	0.061	-5.2	93	0.00
36 S	Dibromofluoromethane	0.322	0.318	1.2	95	0.00
37 TP	1,1,1-Trichloroethane	0.428	0.430	-0.5	87	0.00
39 TP	2-Butanone	0.075	0.077	-2.7	100	0.00
40 TP	1,1-Dichloropropene	0.322	0.308	4.3	87	0.00
41 TP	Benzene	1.017	0.996	2.1	87	0.00
42 TP	tert-Amyl methyl ether	0.573	0.568	0.9	94	0.00
43 S	1,2-Dichloroethane-d4	0.308	0.307	0.3	94	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A01.d
 Acq On : 24 Jun 2025 7:36 am
 Operator : VOA108:PID
 Sample : WG2083759-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:25:05 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 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)
44 TP	1,2-Dichloroethane	0.315	0.306	2.9	89	0.00
47 TP	Methyl cyclohexane	0.381	0.362	5.0	96	0.00
48 TP	Trichloroethene	0.280	0.261	6.8	88	0.00
50 TP	Dibromomethane	0.156	0.159	-1.9	91	0.00
51 TP	1,2-Dichloropropane	0.242	0.242	0.0	91	0.00
53 TP	2-Chloroethyl vinyl ether	0.115	0.101	12.2	88	0.00
54 TP	Bromodichloromethane	0.360	0.352	2.2	91	0.00
57 TP	1,4-Dioxane	0.00137	0.00162#	-18.2	103	0.00
58 TP	cis-1,3-Dichloropropene	0.363	0.368	-1.4	92	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
60 S	Toluene-d8	1.222	1.251	-2.4	97	0.00
61 TP	Toluene	0.763	0.712	6.7	87	0.00
62 TP	4-Methyl-2-pentanone	0.063	0.063	0.0	95	0.00
63 TP	Tetrachloroethene	0.359	0.326	9.2	86	0.00
65 TP	trans-1,3-Dichloropropene	0.379	0.398	-5.0	95	0.00
67 TP	Ethyl methacrylate	0.288	0.267	7.3	92	0.00
68 TP	1,1,2-Trichloroethane	0.215	0.209	2.8	91	0.00
69 TP	Chlorodibromomethane	0.355	0.342	3.7	93	0.00
70 TP	1,3-Dichloropropane	0.411	0.419	-1.9	92	0.00
71 TP	1,2-Dibromoethane	0.233	0.254	-9.0	96	0.00
72 TP	2-Hexanone	0.131	0.124	5.3	95	0.00
73 TP	Chlorobenzene	0.954	0.874	8.4	89	0.00
74 TP	Ethylbenzene	1.529	1.410	7.8	87	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.363	0.362	0.3	96	0.00
76 TP	p/m Xylene	* 20.000	17.345	13.3	91	0.00
77 TP	o Xylene	0.661	0.565	14.5	90	0.00
78 TP	Styrene	* 20.000	15.263	23.7#	87	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00
80 TP	Bromoform	0.380	0.317	16.6	96	0.00
82 TP	Isopropylbenzene	2.644	2.304	12.9	93	0.00
83 S	4-Bromofluorobenzene	0.682	0.692	-1.5	104	0.00
84 TP	Bromobenzene	0.731	0.606	17.1	89	0.00
85 TP	n-Propylbenzene	3.100	2.739	11.6	92	0.00
86 TP	1,4-Dichlorobutane	0.659	0.601	8.8	93	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.500	0.508	-1.6	100	0.00
88 TP	4-Ethyltoluene	2.572	2.356	8.4	96	0.00
89 TP	2-Chlorotoluene	1.800	1.576	12.4	90	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A01.d
 Acq On : 24 Jun 2025 7:36 am
 Operator : VOA108:PID
 Sample : WG2083759-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:25:05 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 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)
90 TP	1,3,5-Trimethylbenzene	2.338	2.054	12.1	95	0.00
91 TP	1,2,3-Trichloropropane	0.414	0.380	8.2	97	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.120	0.123	-2.5	106	0.00
93 TP	4-Chlorotoluene	1.832	1.633	10.9	93	0.00
94 TP	tert-Butylbenzene	1.981	1.799	9.2	98	0.00
97 TP	1,2,4-Trimethylbenzene	2.288	2.031	11.2	94	0.00
98 TP	sec-Butylbenzene	2.910	2.667	8.4	95	0.00
99 TP	p-Isopropyltoluene	* 10.000	8.042	19.6	92	0.00
100 TP	1,3-Dichlorobenzene	1.476	1.246	15.6	93	0.00
101 TP	1,4-Dichlorobenzene	1.503	1.308	13.0	96	0.00
102 TP	p-Diethylbenzene	1.575	1.314	16.6	95	0.00
103 TP	n-Butylbenzene	2.165	2.005	7.4	97	0.00
104 TP	1,2-Dichlorobenzene	1.356	1.207	11.0	94	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.595	2.089	19.5	93	0.00
106 TP	1,2-Dibromo-3-chloropropane	* 10.000	9.982	0.2	101	0.00
107 TP	1,3,5-Trichlorobenzene	1.021	0.896	12.2	96	0.00
108 TP	Hexachlorobutadiene	0.444	0.352	20.7#	88	0.00
109 TP	1,2,4-Trichlorobenzene	0.890	0.736	17.3	90	0.00
110 TP	Naphthalene	1.670	1.533	8.2	95	0.00
111 TP	1,2,3-Trichlorobenzene	0.799	0.659	17.5	90	0.00

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A01.d
 Acq On : 24 Jun 2025 7:36 am
 Operator : VOA108:PID
 Sample : WG2083759-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083759, ICAL22356 (Sig #1); WG, ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:25:05 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.906	96	263696	10.000	ug/L	0.00
59) Chlorobenzene-d5	9.410	117	211062	10.000	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	12.130	152	135210	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	5.109	113	83968	9.885	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.85%		
43) 1,2-Dichloroethane-d4	5.619	65	80890	9.969	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.69%		
60) Toluene-d8	7.576	98	264030	10.236	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.36%		
83) 4-Bromofluorobenzene	10.909	95	93544	10.148	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.48%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	66530	10.075	ug/L	99
3) Chloromethane	1.804	50	61899	9.017	ug/L	97
4) Vinyl chloride	1.877	62	83307	10.174	ug/L	95
5) Bromomethane	2.176	94	36098	6.108	ug/L	99
6) Chloroethane	2.282	64	68144	11.548	ug/L	99
7) Trichlorofluoromethane	2.422	101	210486	10.941	ug/L	98
8) Ethyl ether	2.708	74	57269	11.209	ug/L	99
10) 1,1-Dichloroethene	2.901	96	100333	11.280	ug/L	99
11) Carbon disulfide	2.927	76	337389	12.600	ug/L	99
12) Freon-113	2.934	101	114486	13.113	ug/L	97
14) Acrolein	3.207	56	6861	10.900	ug/L	98
15) Methylene chloride	3.440	84	65591	8.849	ug/L	95
17) Acetone	3.479	43	14152	10.698	ug/L	93
18) trans-1,2-Dichloroethene	3.586	96	63522	9.551	ug/L	96
19) Methyl acetate	3.592	43	35262	10.979	ug/L	95
20) Methyl tert-butyl ether	3.686	73	156791	9.759	ug/L	98
21) tert-Butyl alcohol	3.779	59	20378	63.278	ug/L #	95
22) Diisopropyl ether	4.038	45	211244	9.722	ug/L	98
23) 1,1-Dichloroethane	4.158	63	119483	9.867	ug/L	97
24) Halothane	4.211	117	52923	9.621	ug/L	99
25) Acrylonitrile	4.204	53	14312	9.538	ug/L #	74
26) Ethyl tert-butyl ether	4.384	59	165734	9.711	ug/L	94
27) Vinyl acetate	4.391	43	139262	11.141	ug/L	97
28) cis-1,2-Dichloroethene	4.670	96	71498	9.396	ug/L	96
29) 2,2-Dichloropropane	4.763	77	101787	11.171	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A01.d
 Acq On : 24 Jun 2025 7:36 am
 Operator : VOA108:PID
 Sample : WG2083759-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:25:05 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30)	Bromochloromethane	4.856	128	39481	8.977	ug/L	95
31)	Cyclohexane	4.863	56	99350	10.067	ug/L	92
32)	Chloroform	4.929	83	121938	8.986	ug/L	96
33)	Ethyl acetate	5.036	43	54245	11.189	ug/L #	95
34)	Carbon tetrachloride	5.062	117	108537	9.825	ug/L	98
35)	Tetrahydrofuran	5.082	42	15985M6	10.535	ug/L	
37)	1,1,1-Trichloroethane	5.129	97	113321	10.037	ug/L	98
39)	2-Butanone	5.215	43	20420	10.318	ug/L	93
40)	1,1-Dichloropropene	5.248	75	81228	9.557	ug/L	98
41)	Benzene	5.489	78	262657	9.794	ug/L	100
42)	tert-Amyl methyl ether	5.598	73	149785	9.919	ug/L	97
44)	1,2-Dichloroethane	5.694	62	80660	9.707	ug/L	96
47)	Methyl cyclohexane	6.070	83	95557	9.511	ug/L	96
48)	Trichloroethene	6.077	95	68766	9.307	ug/L	97
50)	Dibromomethane	6.515	93	42048	10.218	ug/L	94
51)	1,2-Dichloropropane	6.618	63	63755	10.001	ug/L	97
53)	2-Chloroethyl vinyl ether	7.309	63	26757	8.814	ug/L	94
54)	Bromodichloromethane	6.686	83	92736	9.762	ug/L	98
57)	1,4-Dioxane	6.898	88	21405	590.406	ug/L	99
58)	cis-1,3-Dichloropropene	7.371	75	97030	10.146	ug/L	97
61)	Toluene	7.637	92	150290	9.334	ug/L	97
62)	4-Methyl-2-pentanone	8.068	58	13308	10.084	ug/L	100
63)	Tetrachloroethene	8.082	166	68829	9.087	ug/L	96
65)	trans-1,3-Dichloropropene	8.116	75	83928	10.487	ug/L	91
67)	Ethyl methacrylate	8.301	69	56423	9.297	ug/L	99
68)	1,1,2-Trichloroethane	8.301	83	44091	9.731	ug/L	99
69)	Chlorodibromomethane	8.513	129	72090	9.627	ug/L	99
70)	1,3-Dichloropropane	8.616	76	88438	10.198	ug/L	97
71)	1,2-Dibromoethane	8.780	107	53648	10.890	ug/L	99
72)	2-Hexanone	9.074	43	26193	9.464	ug/L	97
73)	Chlorobenzene	9.430	112	184498	9.167	ug/L	98
74)	Ethylbenzene	9.471	91	297651	9.221	ug/L	100
75)	1,1,1,2-Tetrachloroethane	9.512	131	76490	9.981	ug/L	98
76)	p/m Xylene	9.656	106	244869	17.345	ug/L	99
77)	o Xylene	10.196	106	238653	17.112	ug/L	95
78)	Styrene	10.265	104	378196	15.263	ug/L	99
80)	Bromoform	10.292	173	42852	8.332	ug/L	93
82)	Isopropylbenzene	10.587	105	311525	8.716	ug/L	99
84)	Bromobenzene	11.026	156	81908	8.285	ug/L	100
85)	n-Propylbenzene	11.074	91	370394	8.838	ug/L	99
86)	1,4-Dichlorobutane	11.087	55	81305	9.129	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A01.d
 Acq On : 24 Jun 2025 7:36 am
 Operator : VOA108:PID
 Sample : WG2083759-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083759, ICAL22356 (Sig #1); WG, ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:25:05 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87)	1,1,2,2-Tetrachloroethane	11.163	83	68699	10.158	ug/L	94
88)	4-Ethyltoluene	11.197	105	318603	9.161	ug/L	100
89)	2-Chlorotoluene	11.238	91	213036M6	8.755	ug/L	
90)	1,3,5-Trimethylbenzene	11.300	105	277726	8.786	ug/L	99
91)	1,2,3-Trichloropropane	11.300	75	51344	9.172	ug/L	97
92)	trans-1,4-Dichloro-2-b...	11.355	53	16650	10.244	ug/L	94
93)	4-Chlorotoluene	11.424	91	220734	8.910	ug/L	100
94)	tert-Butylbenzene	11.643	119	243211	9.082	ug/L	95
97)	1,2,4-Trimethylbenzene	11.719	105	274678	8.879	ug/L	100
98)	sec-Butylbenzene	11.828	105	360548	9.163	ug/L	98
99)	p-Isopropyltoluene	11.986	119	301125	8.042	ug/L	99
100)	1,3-Dichlorobenzene	12.055	146	168464	8.442	ug/L	98
101)	1,4-Dichlorobenzene	12.144	146	176871	8.703	ug/L	98
102)	p-Diethylbenzene	12.363	119	177611	8.338	ug/L	100
103)	n-Butylbenzene	12.425	91	271157	9.265	ug/L	99
104)	1,2-Dichlorobenzene	12.569	146	163164	8.901	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.159	119	282424	8.049	ug/L	97
106)	1,2-Dibromo-3-chloropr...	13.351	155	10686	9.982	ug/L	95
107)	1,3,5-Trichlorobenzene	13.379	180	121090	8.772	ug/L	97
108)	Hexachlorobutadiene	13.962	225	47647	7.936	ug/L	98
109)	1,2,4-Trichlorobenzene	13.982	180	99550	8.273	ug/L	100
110)	Naphthalene	14.271	128	207301	9.181	ug/L	100
111)	1,2,3-Trichlorobenzene	14.442	180	89082	8.249	ug/L	98

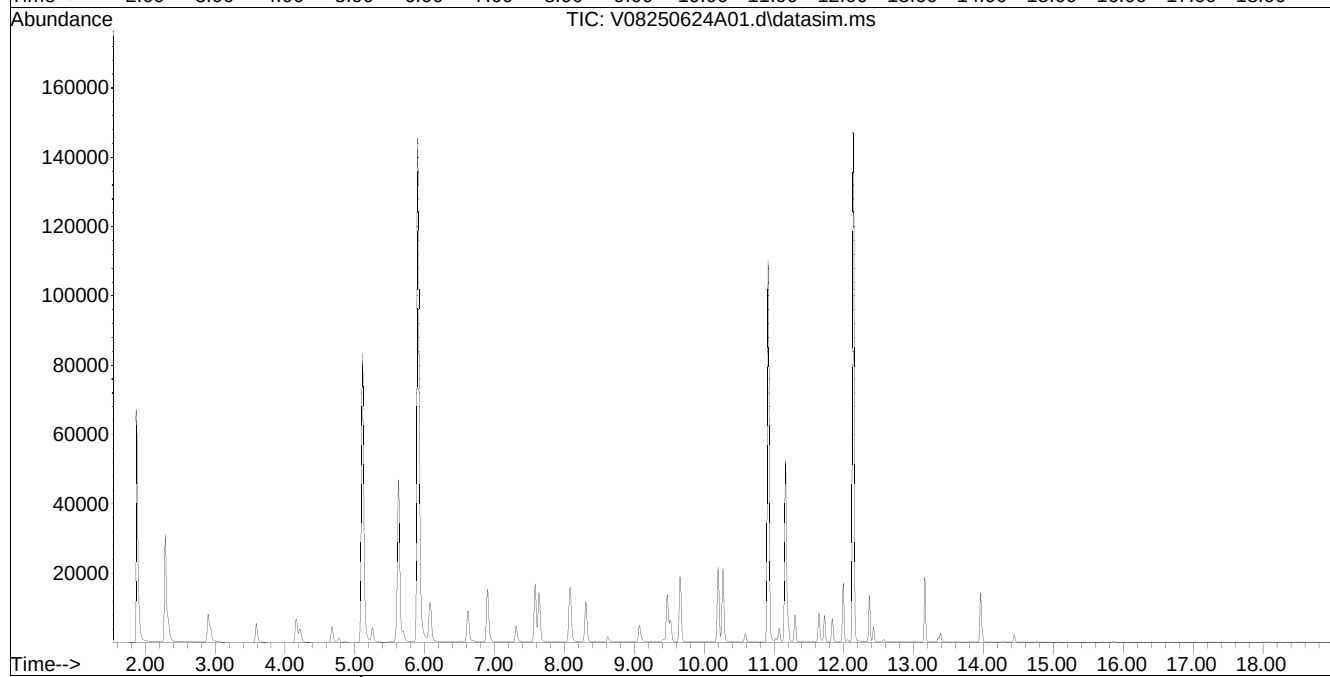
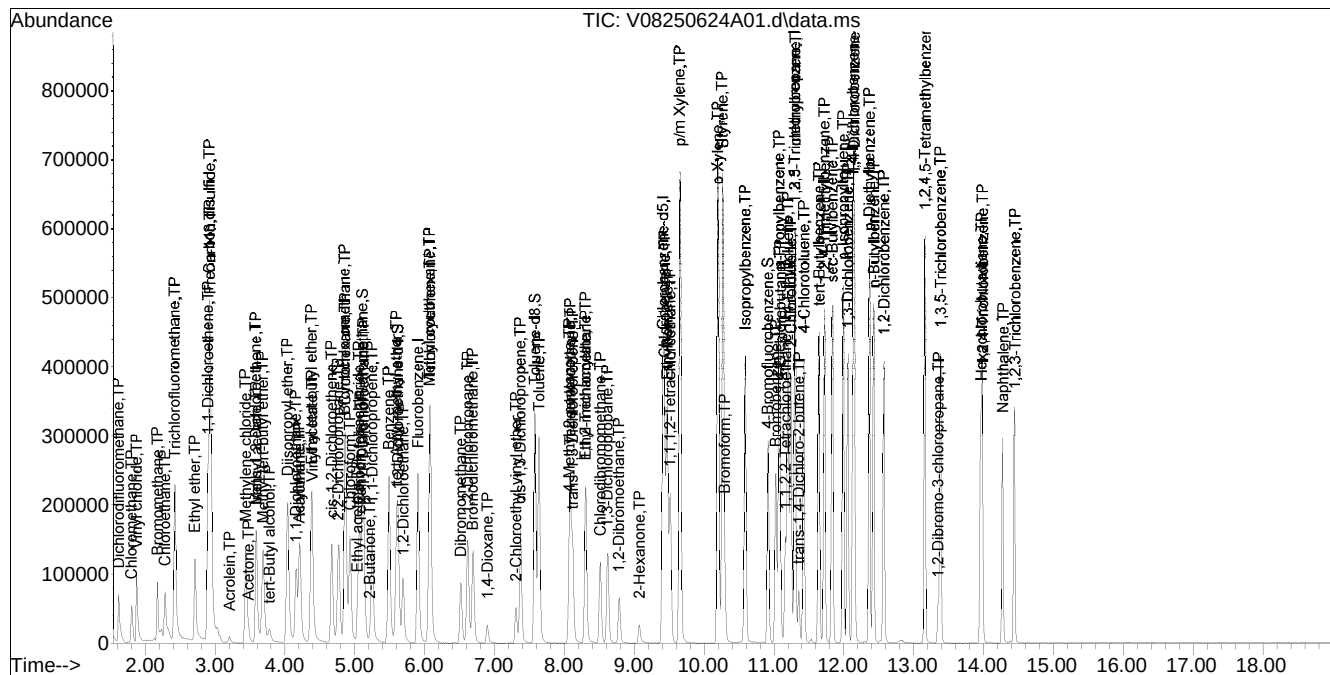
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : K:\VOA108\2025\250624A\  
Data File  : V08250624A01.d  
Acq On     : 24 Jun 2025    7:36 am  
Operator   : VOA108:PID  
Sample     : WG2083759-2 (Sig #1); 8260 CCAL (Sig #2)  
Misc       : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)  
ALS Vial   : 1      Sample Multiplier: 1
```

Quant Time: Jun 24 08:25:05 2025
Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 11 15:00:39 2025
Response via : Initial Calibration

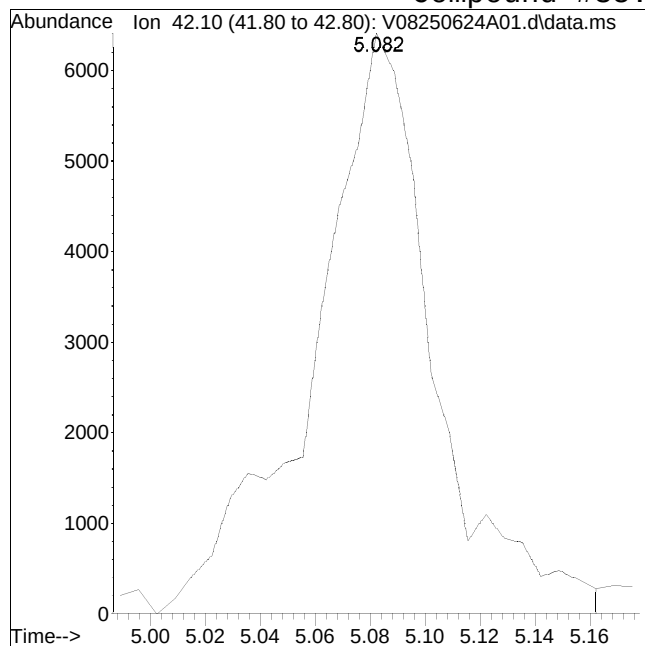
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

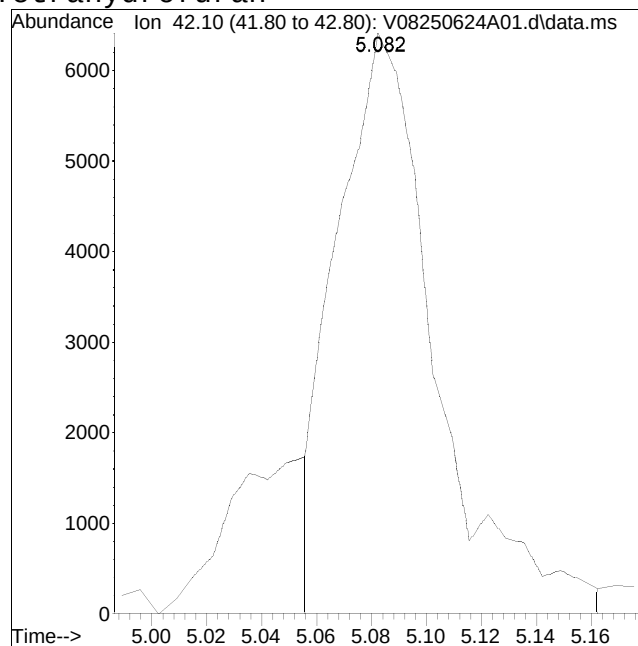
Data Path : K:\V0A108\2025\250624A\ QMethod : V108_250611A_8260.m
Data File : V08250624A01.d Operator : V0A108:PID
Date Inj'd : 6/24/2025 7:36 am Instrument : V0A 108
Sample : WG2083759-2 Quant Date : 6/24/2025 8:24 am

Compound #35: Tetrahydrofuran



Original Peak Response = 19564

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

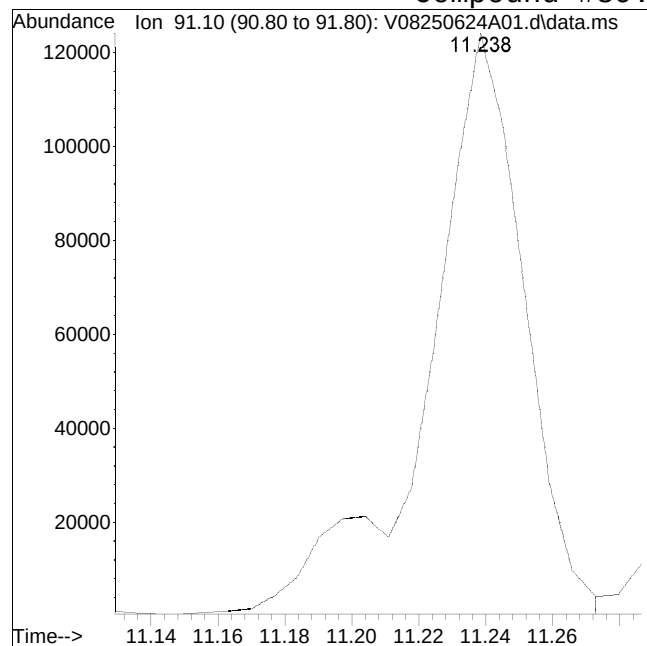


Manual Peak Response = 15985 M6

Manual Integration Report

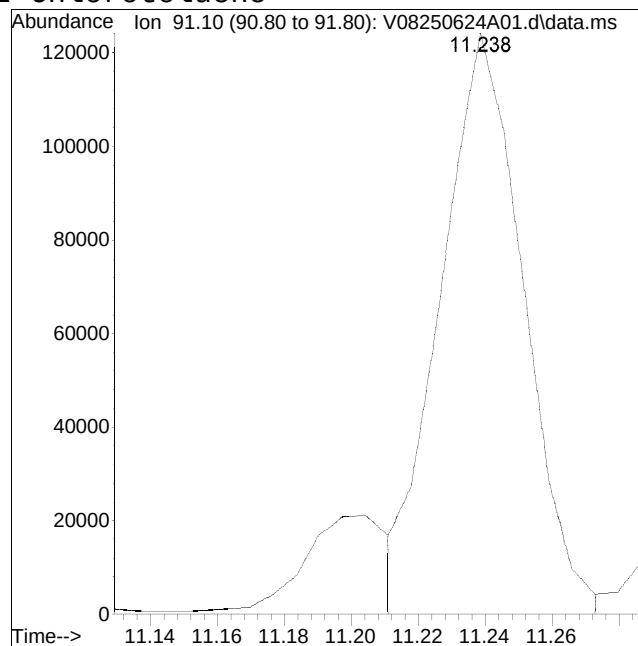
Data Path : K:\VOA108\2025\250624A\ QMethod : V108_250611A_8260.m
Data File : V08250624A01.d Operator : VOA108:PID
Date Inj'd : 6/24/2025 7:36 am Instrument : VOA 108
Sample : WG2083759-2 Quant Date : 6/24/2025 8:24 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 247145

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



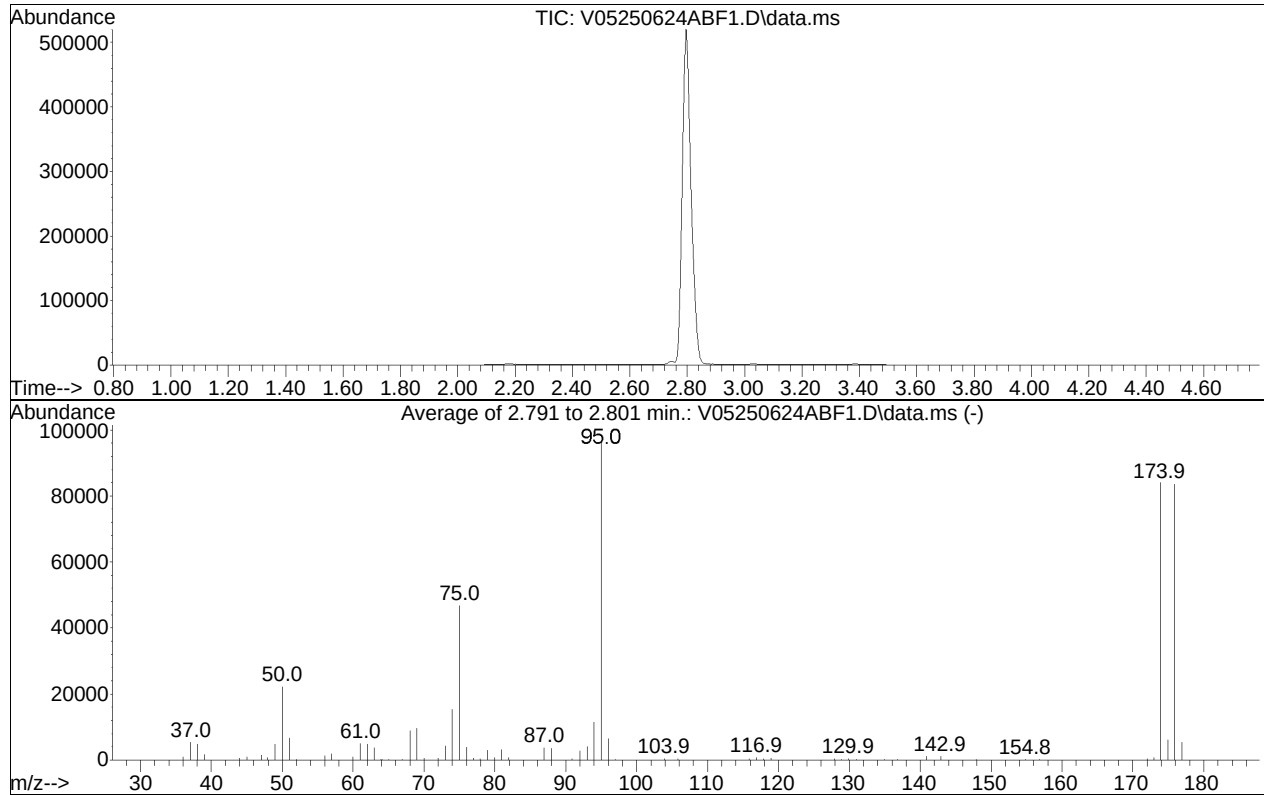
Manual Peak Response = 213036 M6

BFB

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624ABF1.D
 Acq On : 24 Jun 2025 7:20 am
 Operator : VOA105:PID
 Sample : WG2083406-1
 Misc : WG2083406,ICAL22348
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Sat Jun 07 13:58:51 2025



AutoFind: Scans 129, 130, 131; Background Corrected with Scan 120

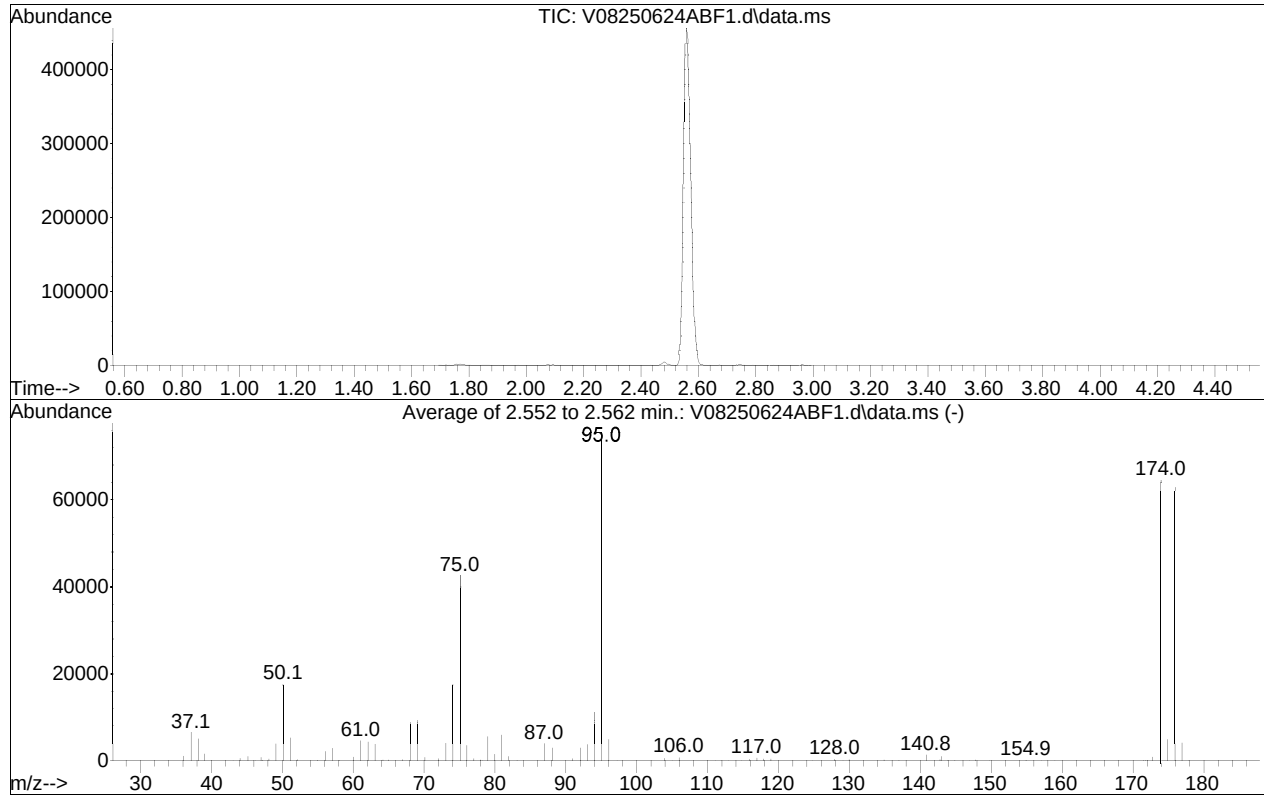
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.0	22248	PASS
75	95	30	60	48.3	46765	PASS
95	95	100	100	100.0	96749	PASS
96	95	5	9	6.6	6429	PASS
173	174	0.00	2	1.0	817	PASS
174	95	50	100	86.9	84123	PASS
175	174	5	9	7.3	6109	PASS
176	174	95	101	99.4	83627	PASS
177	176	5	9	6.4	5336	PASS

BFB

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624ABF1.d
 Acq On : 24 Jun 2025 7:21 am
 Operator : VOA108:PID
 Sample : WG2083759-1
 Misc : WG2083759,ICAL22356
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Jun 11 15:00:39 2025



AutoFind: Scans 165, 166, 167; Background Corrected with Scan 157

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.8	17592	PASS
75	95	30	60	57.7	42613	PASS
95	95	100	100	100.0	73869	PASS
96	95	5	9	6.5	4805	PASS
173	174	0.00	2	1.5	942	PASS
174	95	50	100	87.3	64509	PASS
175	174	5	9	7.5	4866	PASS
176	174	95	101	97.4	62843	PASS
177	176	5	9	6.5	4082	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A05.D
 Acq On : 24 Jun 2025 9:16 am
 Operator : VOA105:PID
 Sample : WG2083406-5,31,10,10 (Sig #1); l2535886-06d,31,0.00010,10,,c (Sig #2)
 Misc : WG2083406,ICAL22348 (Sig #1); WG,ICAL22348 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 09:48:46 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.513	96	292769	10.000	ug/L	0.00
Standard Area 1 = 334495			Recovery =	87.53%		
59) Chlorobenzene-d5	8.985	117	248147	10.000	ug/L	0.00
Standard Area 1 = 267591			Recovery =	92.73%		
79) 1,4-Dichlorobenzene-d4	11.797	152	144321	10.000	ug/L	0.00
Standard Area 1 = 168616			Recovery =	85.59%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.739	113	90796	11.816	ug/L	0.00
Spiked Amount 10.000	Range	70 - 130	Recovery =	118.16%		
43) 1,2-Dichloroethane-d4	5.238	65	95565	10.728	ug/L	0.00
Spiked Amount 10.000	Range	70 - 130	Recovery =	107.28%		
60) Toluene-d8	7.164	98	298699	9.105	ug/L	0.00
Spiked Amount 10.000	Range	70 - 130	Recovery =	91.05%		
83) 4-Bromofluorobenzene	10.538	95	119334	9.002	ug/L	0.00
Spiked Amount 10.000	Range	70 - 130	Recovery =	90.02%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	1.602	50	238	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	1.925	94	745	0.211	ug/L	89
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	2.618	76	206	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.119	84	760	0.095	ug/L	89
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.263	43	132	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	4.574	83	787	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A05.D
 Acq On : 24 Jun 2025 9:16 am
 Operator : VOA105:PID
 Sample : WG2083406-5,31,10,10 (Sig #1); l2535886-06d,31,0.00010,10,,c (Sig #2)
 Misc : WG2083406,ICAL22348 (Sig #1); WG,ICAL22348 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 09:48:46 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34)	Carbon tetrachloride	0.000		0	N.D.		
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	0.000		0	N.D.		
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.		
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.		
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	0.000		0	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	8.696	43	139	N.D.		
73)	Chlorobenzene	0.000		0	N.D.		
74)	Ethylbenzene	8.985	91	363	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	11.804	146	68	N.D.		
101)	1,4-Dichlorobenzene	11.804	146	68	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	13.693	180	66	N.D.		
111)	1,2,3-Trichlorobenzene	14.153	180	324	N.D.		

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A05.D
 Acq On : 24 Jun 2025 9:16 am
 Operator : VOA105:PID
 Sample : WG2083406-5,31,10,10 (Sig #1); l2535886-06d,31,0.00010,10,,c (Sig #2)
 Misc : WG2083406,ICAL22348 (Sig #1); WG,ICAL22348 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 09:48:46 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

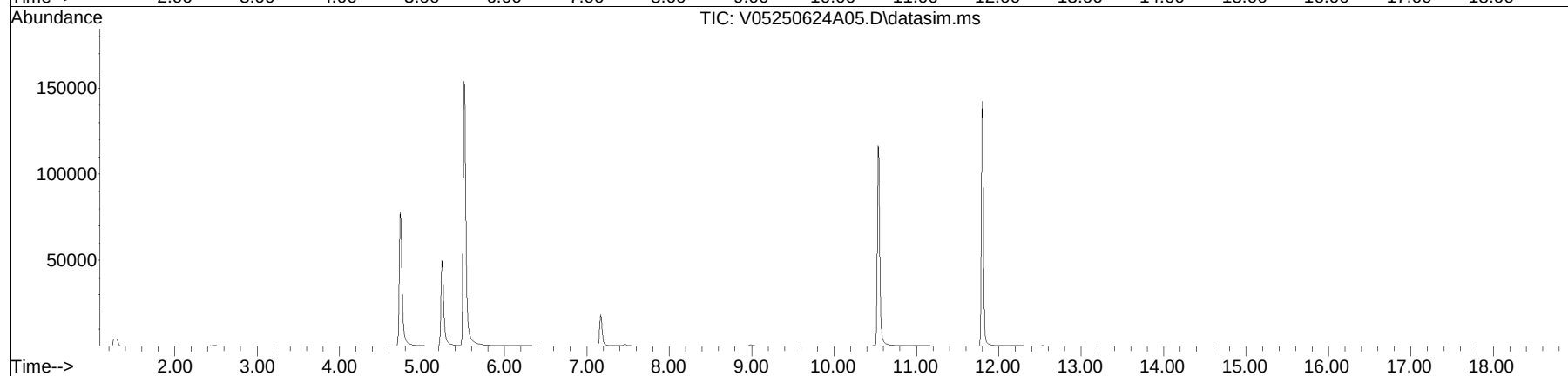
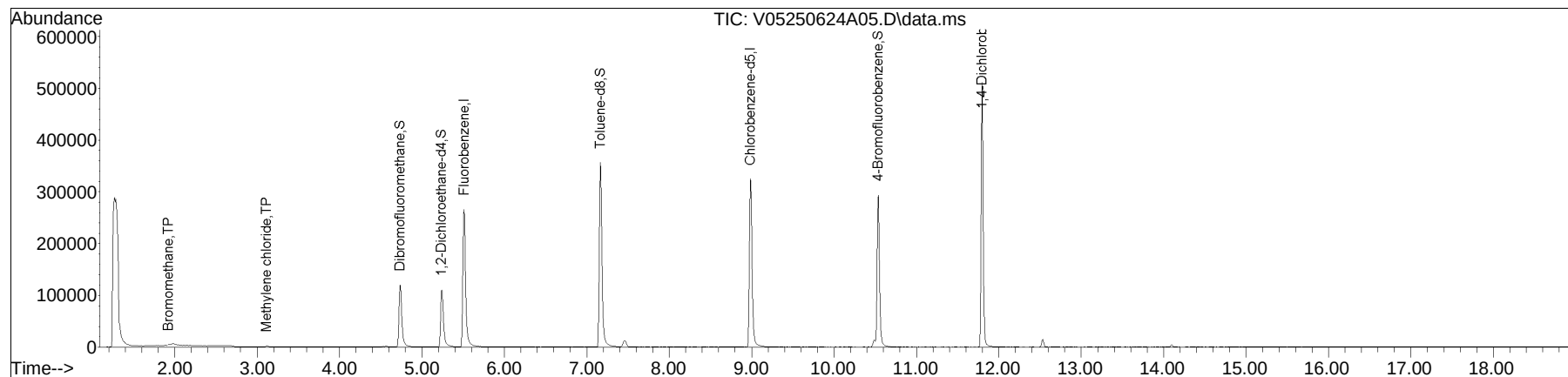
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A05.D
 Acq On : 24 Jun 2025 9:16 am
 Operator : VOA105:PID
 Sample : WG2083406-5,31,10,10 (Sig #1); l2535886-06d,31,0.00010,10,,c (Sig #2)
 Misc : WG2083406,ICAL22348 (Sig #1); WG,ICAL22348 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

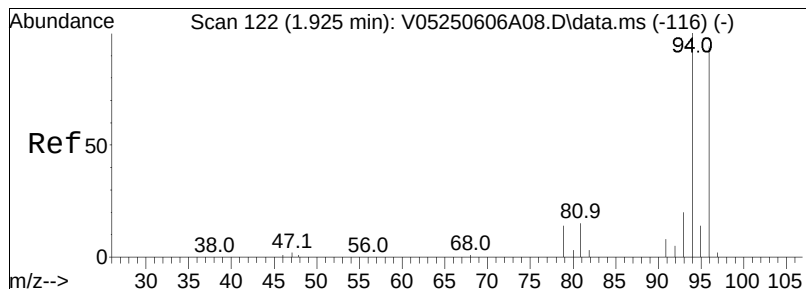
Quant Time: Jun 24 09:48:46 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

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



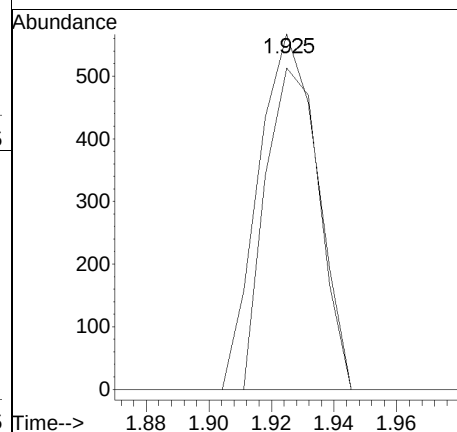
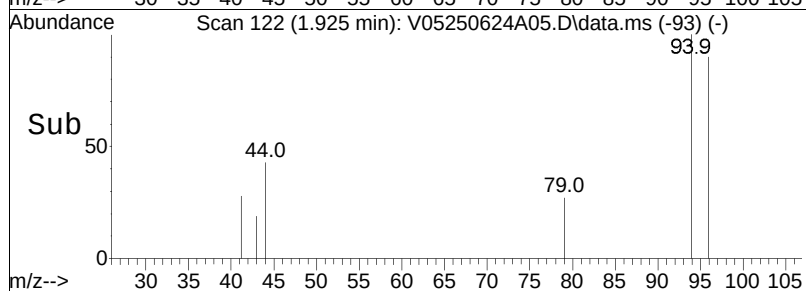
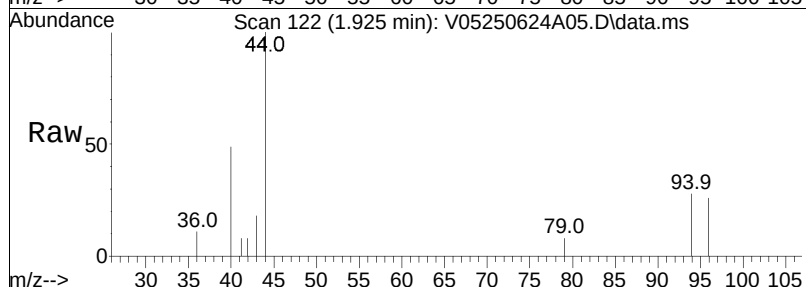
V105_250606A_8260.m Wed Jun 25 15:25:24 2025

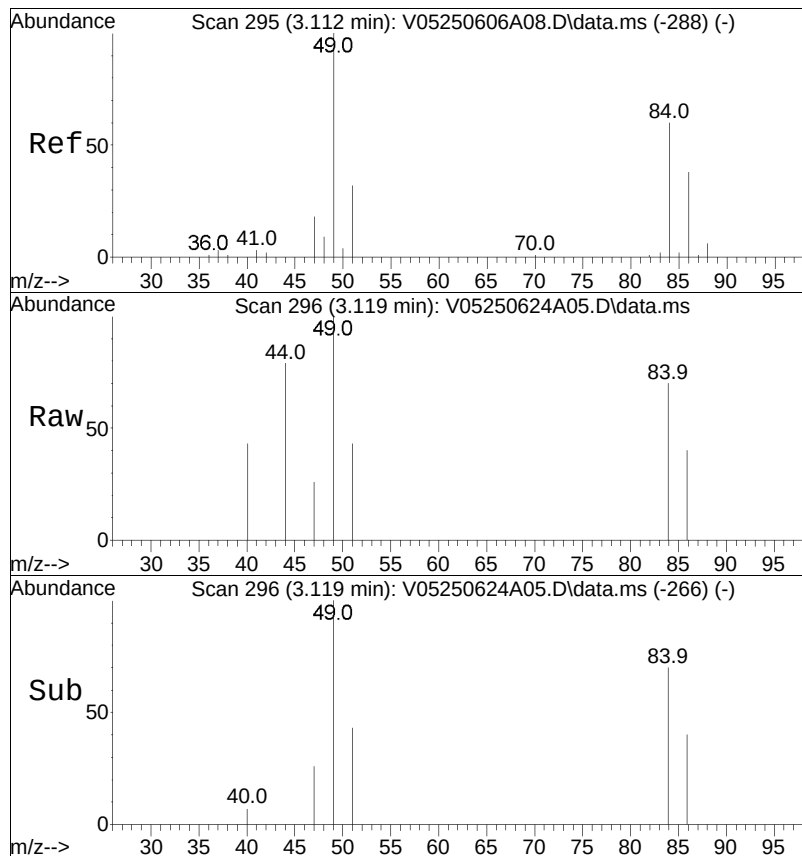
Page: 4



#5
 Bromomethane
 Concen: 0.21 ug/L
 RT: 1.925 min Scan# 122
 Delta R.T. -0.000 min
 Lab File: V05250624A05.D
 Acq: 24 Jun 2025 9:16 am

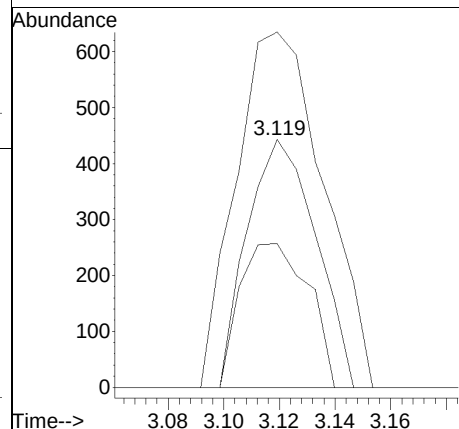
Tgt Ion: 94 Resp: 745
 Ion Ratio Lower Upper
 94 100
 96 82.4 73.0 113.0





#15
Methylene chloride
Concen: 0.10 ug/L
RT: 3.119 min Scan# 296
Delta R.T. 0.007 min
Lab File: V05250624A05.D
Acq: 24 Jun 2025 9:16 am

Tgt Ion:	84	Resp:	760
Ion Ratio	Lower	Upper	
84	100		
86	57.8	41.3	85.9
49	182.6	108.0	224.4



Manual Integration Report

Data Path	: K:\V0A105\2025\250624A\	QMethod	: V105_250606A_8260.m
Data File	: V05250624A05.D	Operator	: V0A105:PID
Date Inj'd	: 6/24/2025 9:16 am	Instrument	: V0A105
Sample	: WG2083406-5,31,10,10	Quant Date	: 6/24/2025 9:48 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A05.d
 Acq On : 24 Jun 2025 9:06 am
 Operator : VOA108:PID
 Sample : WG2083759-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 09:39:31 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250624A\V08250624A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.906	96	236166	10.000	ug/L	0.00
Standard Area 1 = 263696			Recovery =	89.56%		
59) Chlorobenzene-d5	9.416	117	170116	10.000	ug/L	0.00
Standard Area 1 = 211062			Recovery =	80.60%		
79) 1,4-Dichlorobenzene-d4	12.130	152	88335	10.000	ug/L	0.00
Standard Area 1 = 135210			Recovery =	65.33%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.109	113	78638	10.337	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.37%		
43) 1,2-Dichloroethane-d4	5.625	65	77597	10.678	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.78%		
60) Toluene-d8	7.582	98	219877	10.576	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.76%		
83) 4-Bromofluorobenzene	10.916	95	68016	11.294	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.94%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	2.029	62	80	N.D.		
5) Bromomethane	2.222	94	75	N.D.		
6) Chloroethane	2.295	64	65	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	2.894	96	174	N.D.		
11) Carbon disulfide	2.921	76	1345	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.446	84	355	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.612	43	201	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	4.856	128	67	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	4.942	83	892	0.073	ug/L	# 46
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A05.d
 Acq On : 24 Jun 2025 9:06 am
 Operator : VOA108:PID
 Sample : WG2083759-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 09:39:31 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250624A\V08250624A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	0.000		0		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	5.995	95	250		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	0.000		0		N.D.	
73)	Chlorobenzene	9.430	112	70		N.D.	
74)	Ethylbenzene	9.485	91	151		N.D.	
76)	p/m Xylene	0.000		0		N.D.	d
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	d
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	10.607	105	70		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	12.068	146	603		N.D.	
101)	1,4-Dichlorobenzene	12.144	146	711		N.D.	
104)	1,2-Dichlorobenzene	12.583	146	159		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	14.003	180	686	0.087	ug/L	#
111)	1,2,3-Trichlorobenzene	14.455	180	361		N.D.	

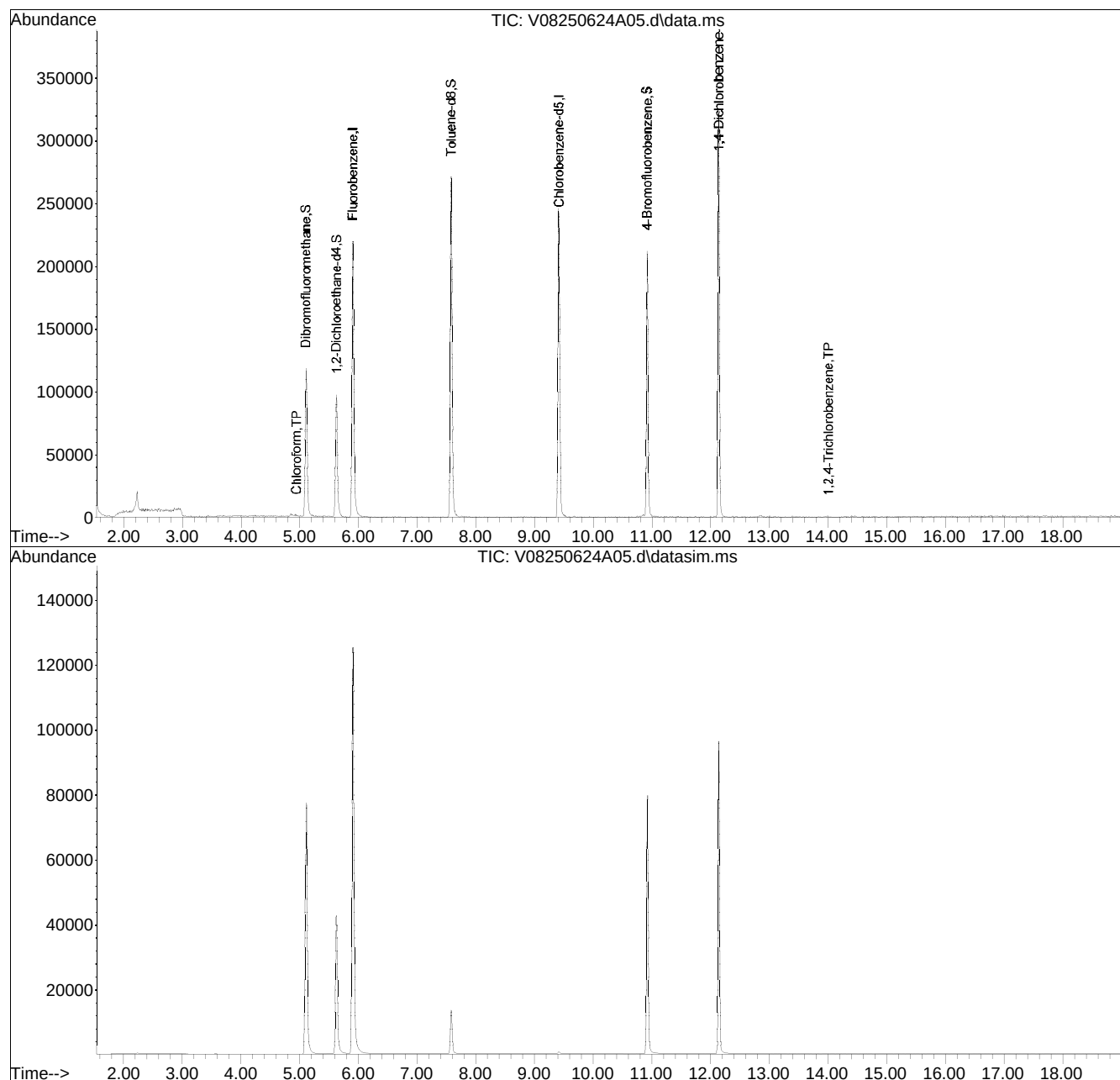
(#) = qualifier out of range (m) = manual integration (+) = signals summed

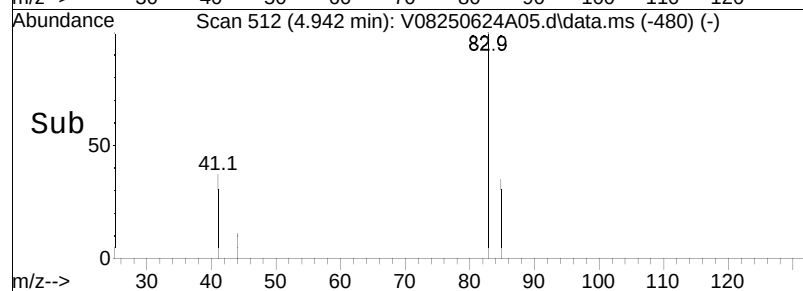
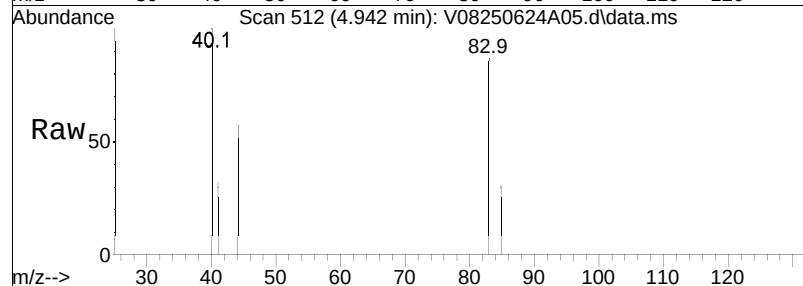
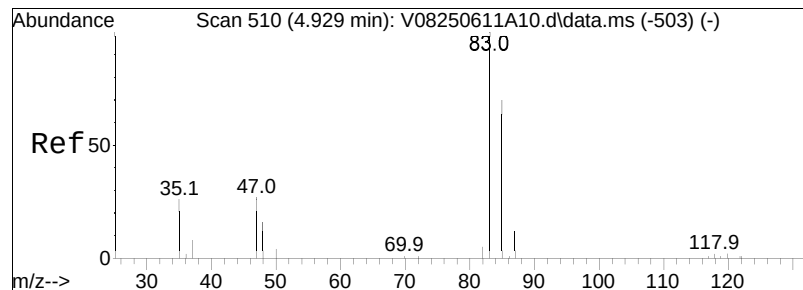
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A05.d
 Acq On : 24 Jun 2025 9:06 am
 Operator : VOA108:PID
 Sample : WG2083759-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 09:39:31 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

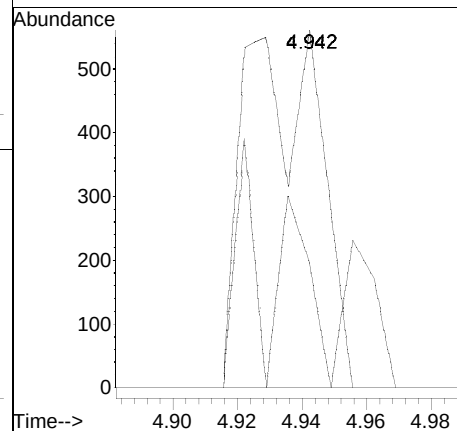
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

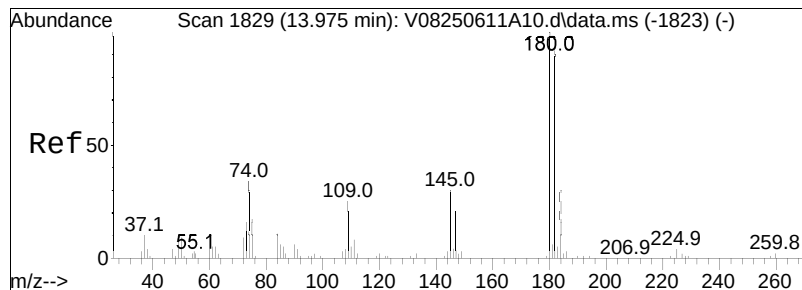




#32
Chloroform
Concen: 0.07 ug/L
RT: 4.942 min Scan# 512
Delta R.T. 0.013 min
Lab File: V08250624A05.d
Acq: 24 Jun 2025 9:06 am

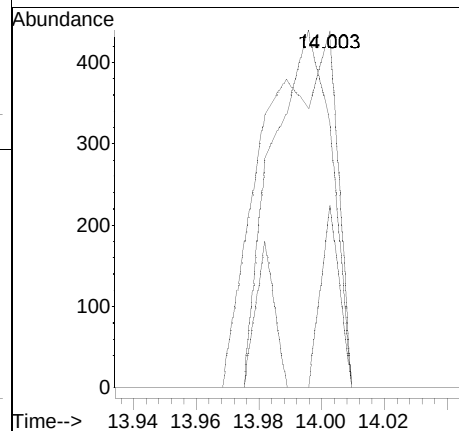
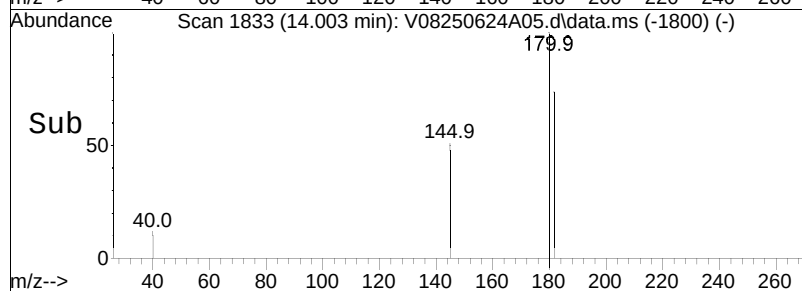
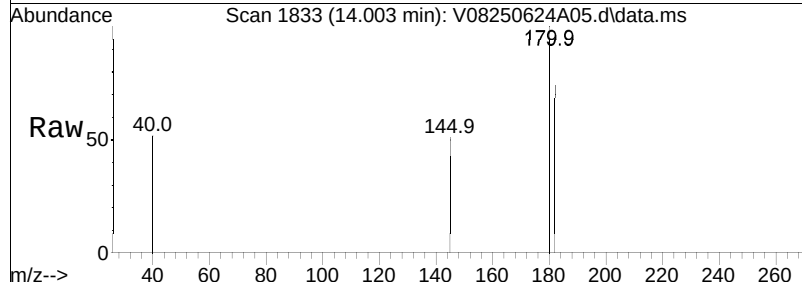
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	892		
85	17.9		42.1	87.3#
47	0.0		17.7	36.7#
48	0.0		9.1	18.9#





#109
 1,2,4-Trichlorobenzene
 Concen: 0.09 ug/L
 RT: 14.003 min Scan# 1833
 Delta R.T. 0.028 min
 Lab File: V08250624A05.d
 Acq: 24 Jun 2025 9:06 am

Tgt Ion	Ratio	Lower	Upper
180	100		
182	83.1	74.1	111.1
145	13.6	27.8	41.8



Manual Integration Report

Data Path	: K:\V0A108\2025\250624A\	QMethod	: V108_250611A_8260.m
Data File	: V08250624A05.d	Operator	: V0A108:PID
Date Inj'd	: 6/24/2025 9:06 am	Instrument	: V0A 108
Sample	: WG2083759-5,31,10,10	Quant Date	: 6/24/2025 9:39 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A01.D
 Acq On : 24 Jun 2025 7:34 am
 Operator : VOA105:PID
 Sample : WG2083406-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083406,ICAL22348 (Sig #1); WG,ICAL22348 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 07:57:47 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.513	96	334495	10.000	ug/L	0.00
Standard Area 1 = 334495			Recovery	=	100.00%	
59) Chlorobenzene-d5	8.985	117	267591	10.000	ug/L	0.00
Standard Area 1 = 267591			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	11.797	152	168616	10.000	ug/L	0.00
Standard Area 1 = 168616			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.732	113	93470	10.647	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	106.47%	
43) 1,2-Dichloroethane-d4	5.238	65	108907	10.701	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	107.01%	
60) Toluene-d8	7.165	98	335761	9.491	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	94.91%	
83) 4-Bromofluorobenzene	10.538	95	135285	8.735	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	87.35%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.431	85	88678	8.994	ug/L	99
3) Chloromethane	1.595	50	108061	8.454	ug/L	100
4) Vinyl chloride	1.650	62	96581	8.513	ug/L	100
5) Bromomethane	1.918	94	39087	9.687	ug/L	98
6) Chloroethane	2.014	64	58999	10.705	ug/L	99
7) Trichlorofluoromethane	2.145	101	126051	11.933	ug/L	100
10) 1,1-Dichloroethene	2.591	96	66508	9.487	ug/L	96
11) Carbon disulfide	2.611	76	211320	13.349	ug/L	99
12) Freon-113	2.618	101	73792	11.219	ug/L	# 71
15) Methylene chloride	3.112	84	84840	9.316	ug/L	97
17) Acetone	3.174	43	16046	8.884	ug/L	94
18) trans-1,2-Dichloroethene	3.250	96	82660	9.442	ug/L	95
19) Methyl acetate	3.277	43	38580	10.724	ug/L	94
20) Methyl tert-butyl ether	3.346	73	162071	8.100	ug/L	# 93
23) 1,1-Dichloroethane	3.806	63	170919	9.269	ug/L	99
28) cis-1,2-Dichloroethene	4.307	96	92243	9.493	ug/L	94
30) Bromochloromethane	4.492	128	45377	11.060	ug/L	94
31) Cyclohexane	4.471	56	184267	9.077	ug/L	99
32) Chloroform	4.561	83	149942	9.754	ug/L	98
34) Carbon tetrachloride	4.670	117	121590	10.317	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A01.D
 Acq On : 24 Jun 2025 7:34 am
 Operator : VOA105:PID
 Sample : WG2083406-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083406,ICAL22348 (Sig #1); WG,ICAL22348 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 07:57:47 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	4.739	97	133711	9.997	ug/L	99
39)	2-Butanone	4.863	43	23783	9.405	ug/L	99
41)	Benzene	5.097	78	342949	9.716	ug/L	99
44)	1,2-Dichloroethane	5.309	62	110679	9.949	ug/L	100
47)	Methyl cyclohexane	5.655	83	144144	9.923	ug/L	99
48)	Trichloroethene	5.683	95	88812	9.532	ug/L	96
51)	1,2-Dichloropropane	6.212	63	91783	9.247	ug/L	98
54)	Bromodichloromethane	6.297	83	109270	9.542	ug/L	99
58)	cis-1,3-Dichloropropene	6.974	75	115356	8.689	ug/L	99
61)	Toluene	7.221	92	202802	8.918	ug/L	100
62)	4-Methyl-2-pentanone	7.673	58	17444	7.365	ug/L	93
63)	Tetrachloroethene	7.658	166	101471	10.444	ug/L	99
65)	trans-1,3-Dichloropropene	7.715	75	93601	8.258	ug/L	92
68)	1,1,2-Trichloroethane	7.898	83	51533	9.398	ug/L	98
69)	Chlorodibromomethane	8.103	129	78139	9.501	ug/L	100
71)	1,2-Dibromoethane	8.364	107	60459	9.472	ug/L	98
72)	2-Hexanone	8.674	43	28668	7.394	ug/L #	93
73)	Chlorobenzene	9.006	112	238325	9.419	ug/L	97
74)	Ethylbenzene	9.041	91	397179	9.041	ug/L	100
76)	p/m Xylene	9.232	106	318703	18.889	ug/L	99
77)	o Xylene	9.775	106	305254	18.533	ug/L	99
78)	Styrene	9.846	104	508485	18.998	ug/L	98
80)	Bromoform	9.874	173	45197	8.375	ug/L	99
82)	Isopropylbenzene	10.185	105	416383	8.078	ug/L	99
87)	1,1,2,2-Tetrachloroethane	10.814	83	71416	8.335	ug/L	99
100)	1,3-Dichlorobenzene	11.712	146	216849	9.652	ug/L	98
101)	1,4-Dichlorobenzene	11.811	146	218241	9.517	ug/L	98
104)	1,2-Dichlorobenzene	12.243	146	193297	9.518	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.049	155	10635	8.334	ug/L	99
109)	1,2,4-Trichlorobenzene	13.679	180	121448	9.420	ug/L	99
111)	1,2,3-Trichlorobenzene	14.139	180	105575	9.701	ug/L	99

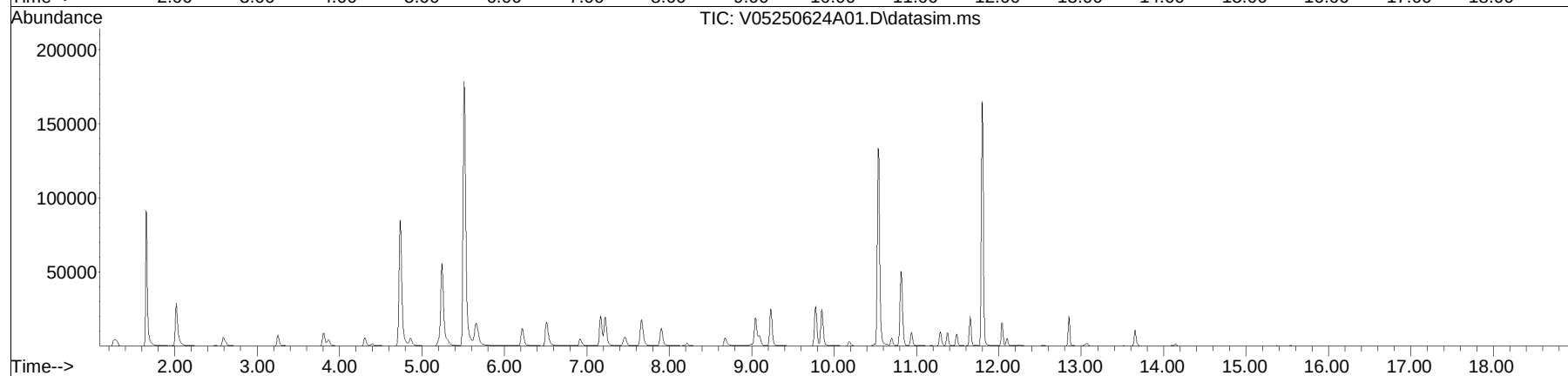
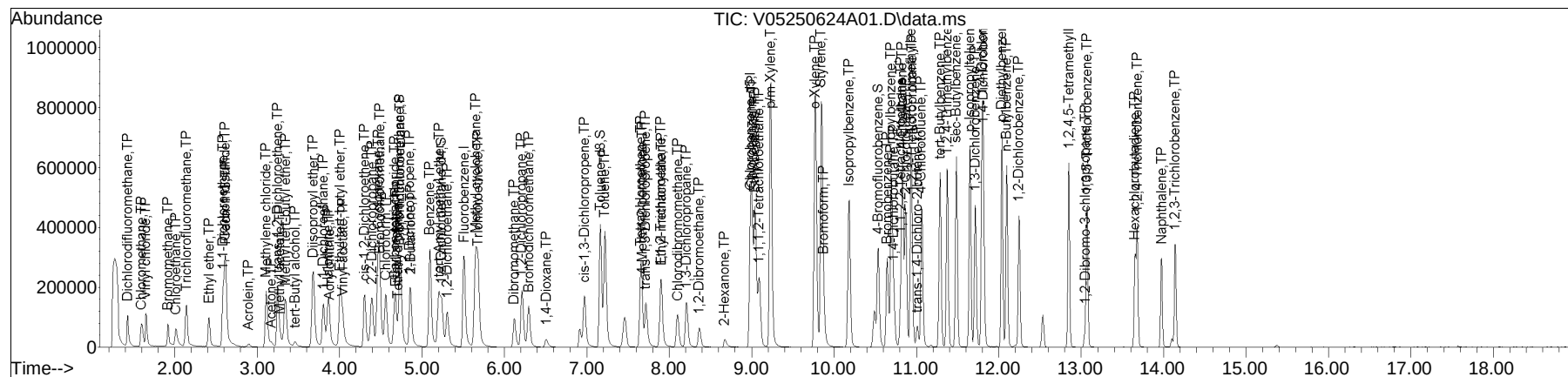
(#) = qualifier out of range (m) = manual integration (+) = signals summed

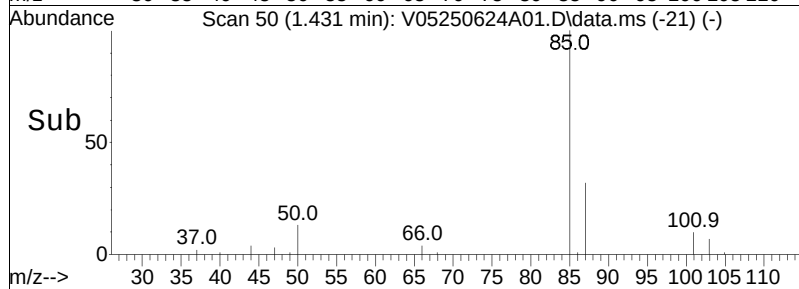
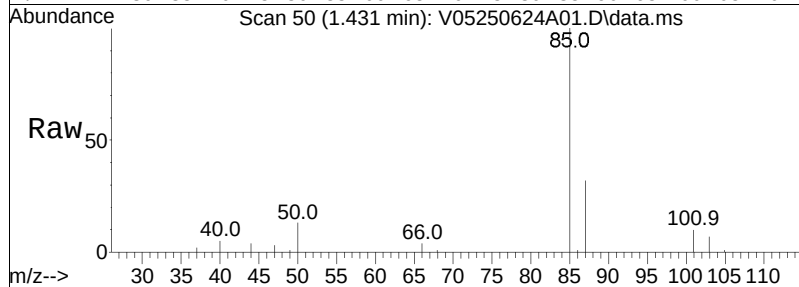
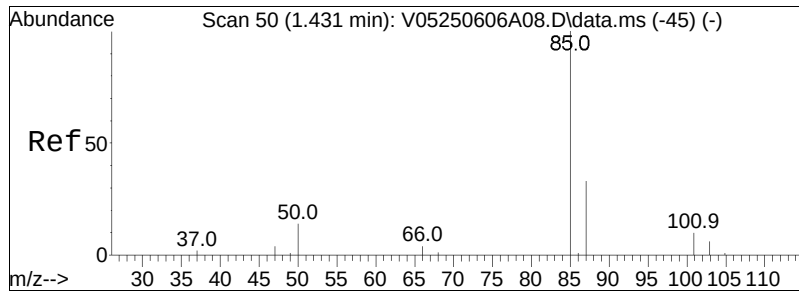
Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A01.D
 Acq On : 24 Jun 2025 7:34 am
 Operator : VOA105:PID
 Sample : WG2083406-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083406,ICAL22348 (Sig #1); WG,ICAL22348 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 07:57:47 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

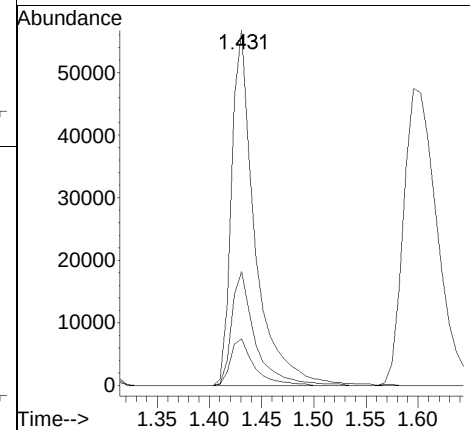
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

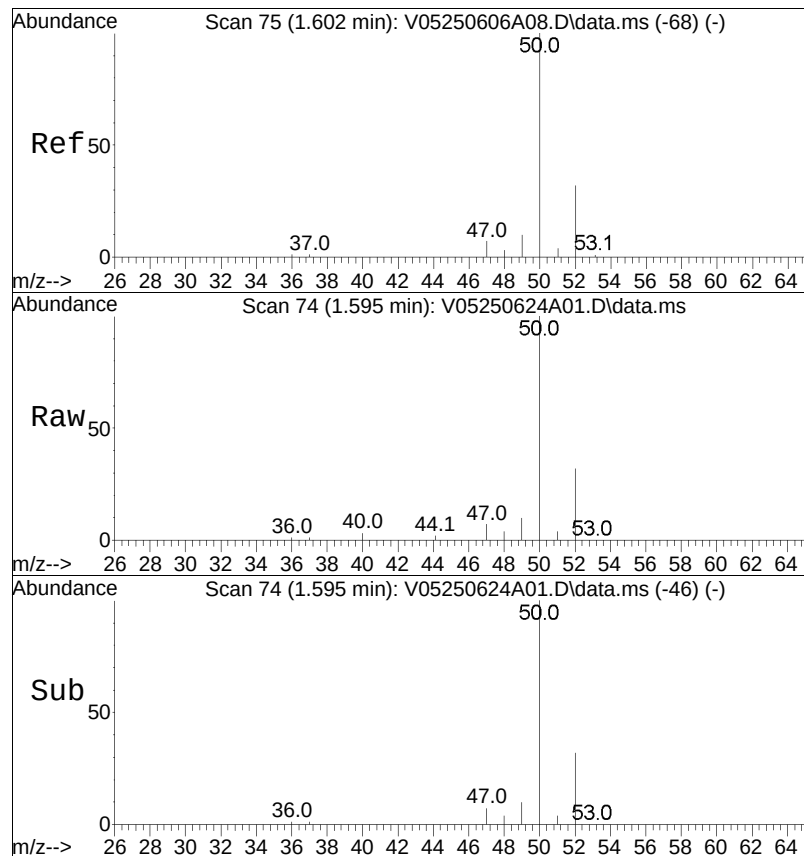




#2
 Dichlorodifluoromethane
 Concen: 8.99 ug/L
 RT: 1.431 min Scan# 50
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

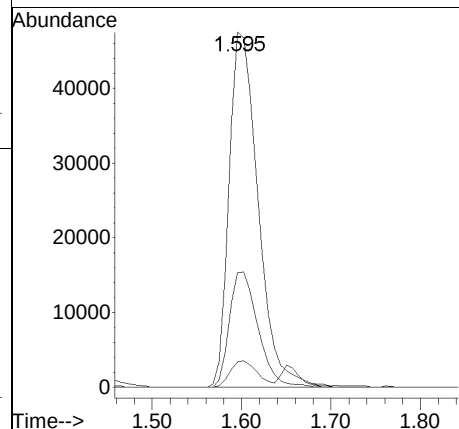
Tgt Ion	85	Resp	88678
Ion Ratio	100	Lower	Upper
85	100		
87	31.9	20.7	42.9
50	13.2	9.1	18.9

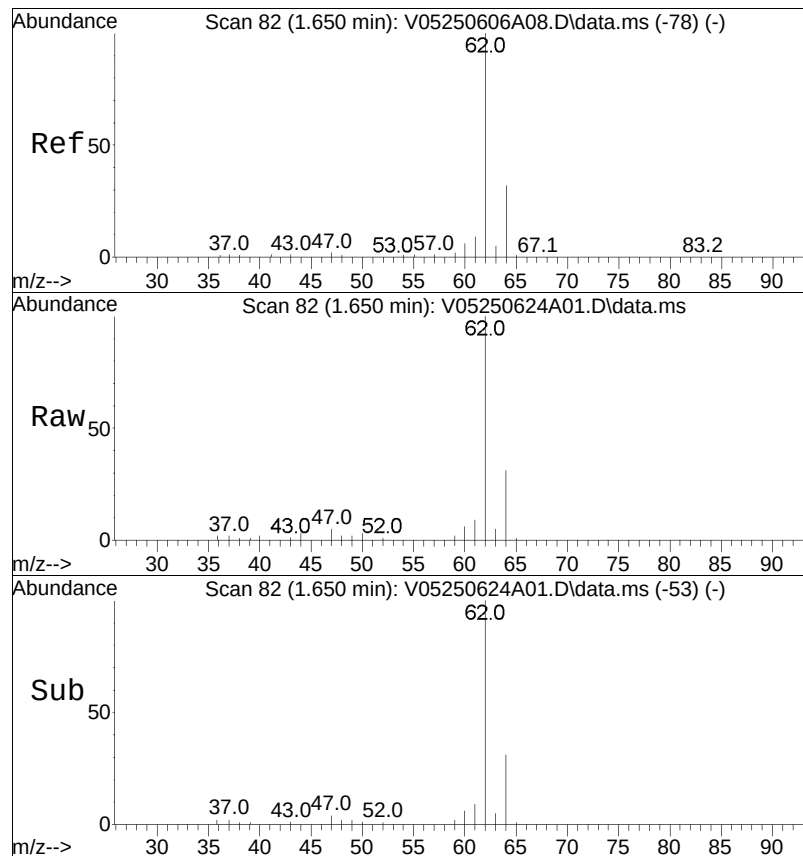




#3
 Chloromethane
 Concen: 8.45 ug/L
 RT: 1.595 min Scan# 74
 Delta R.T. -0.007 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

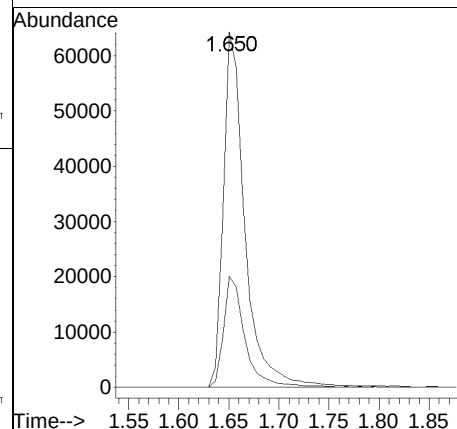
Tgt Ion:	50	Resp:	108061
Ion Ratio	Lower	Upper	
50	100		
52	31.9	12.1	52.1
47	7.1	0.0	27.0

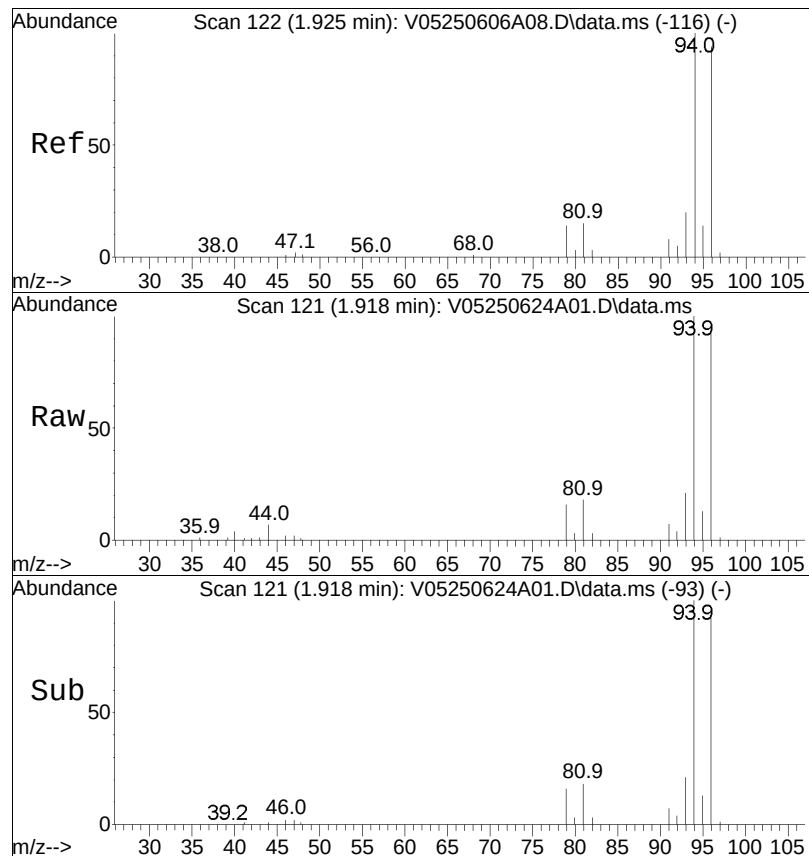




#4
 Vinyl chloride
 Concen: 8.51 ug/L
 RT: 1.650 min Scan# 82
 Delta R.T. 0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

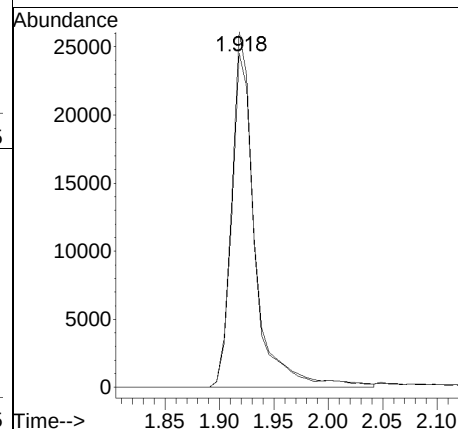
Tgt Ion	Ratio	Lower	Upper
62	100		
64	30.9	11.1	51.1

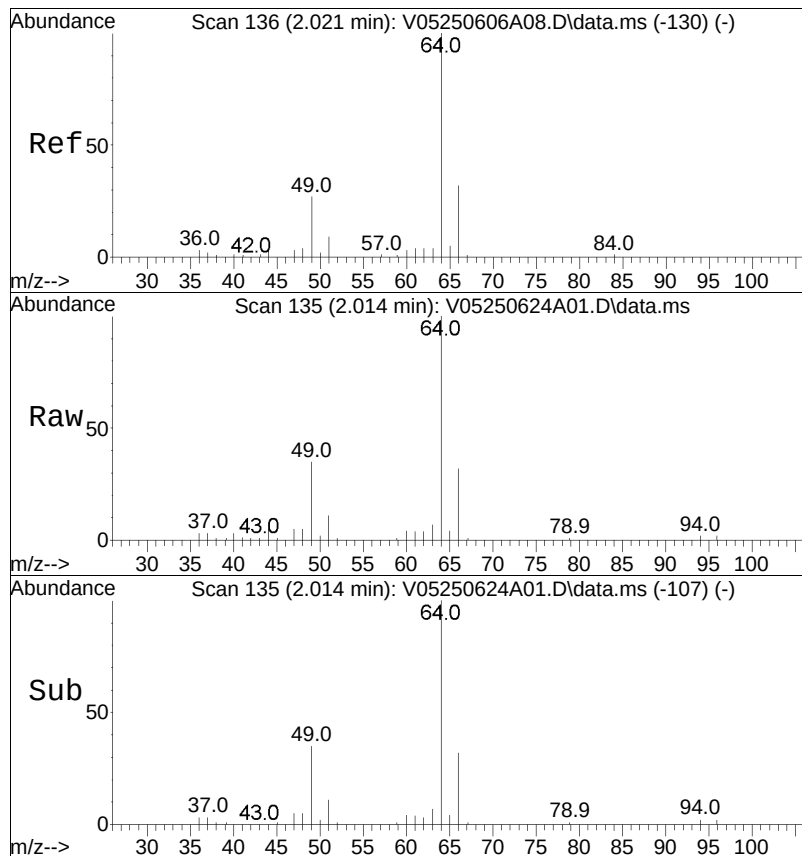




#5
 Bromomethane
 Concen: 9.69 ug/L
 RT: 1.918 min Scan# 121
 Delta R.T. -0.007 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

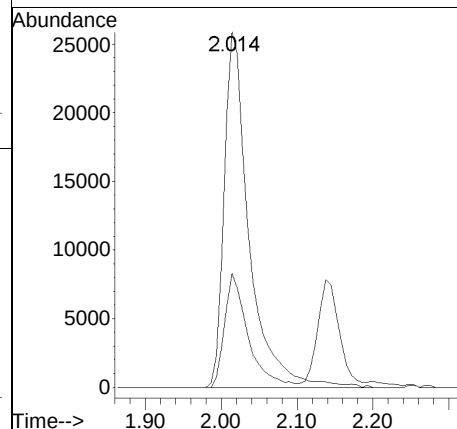
Tgt Ion	Ratio	Lower	Upper
94	100		
96	91.5	73.0	113.0

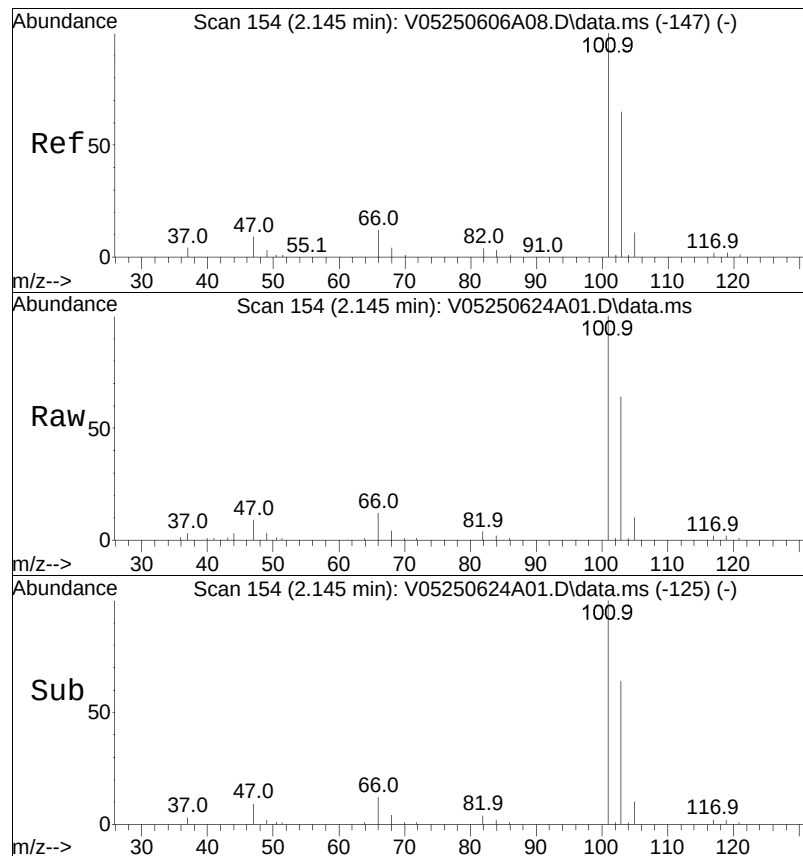




#6
 Chloroethane
 Concen: 10.70 ug/L
 RT: 2.014 min Scan# 135
 Delta R.T. -0.007 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

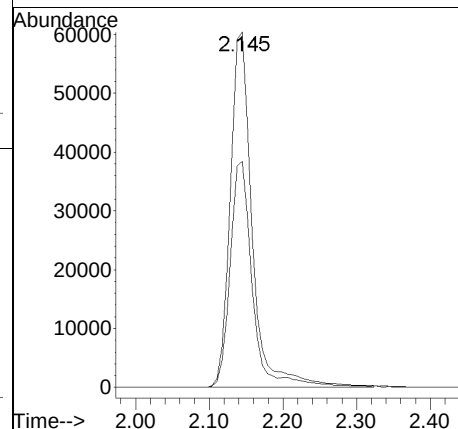
Tgt Ion	Ratio	Lower	Upper
64	100		
66	30.3	10.9	50.9

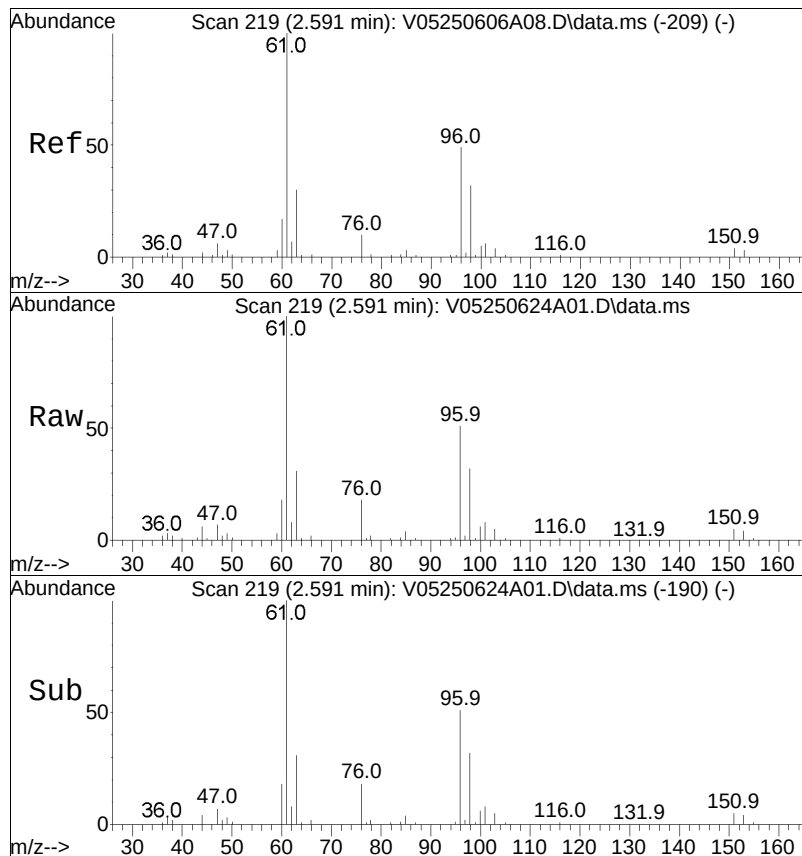




#7
 Trichlorofluoromethane
 Concen: 11.93 ug/L
 RT: 2.145 min Scan# 154
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

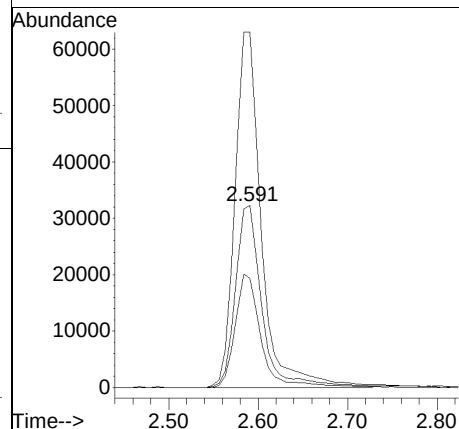
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	64.6	51.8	77.8	

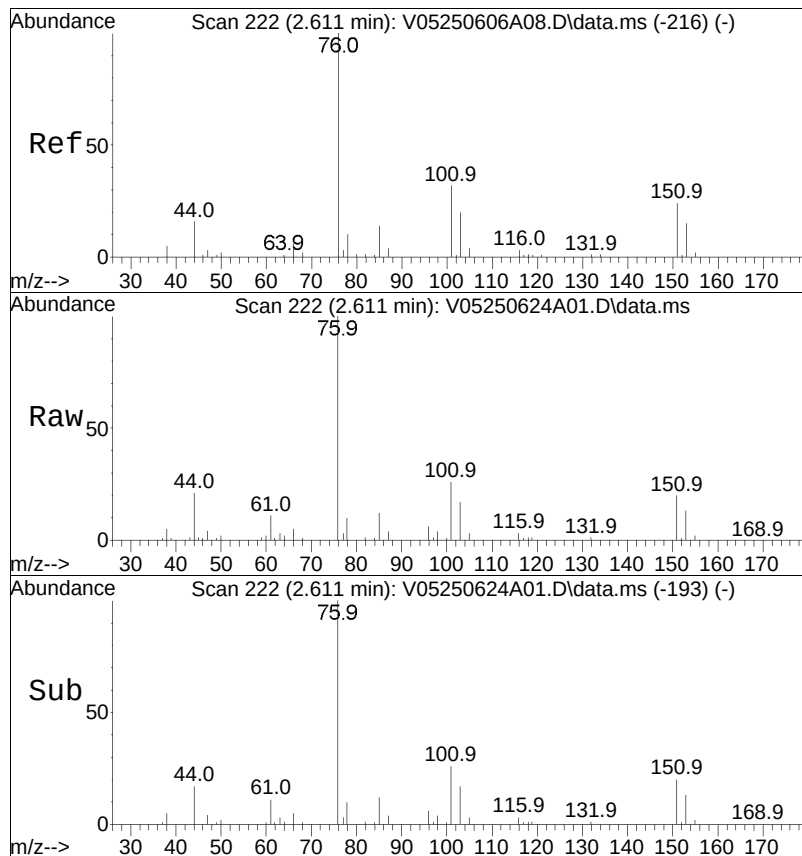




#10
 1,1-Dichloroethene
 Concen: 9.49 ug/L
 RT: 2.591 min Scan# 219
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

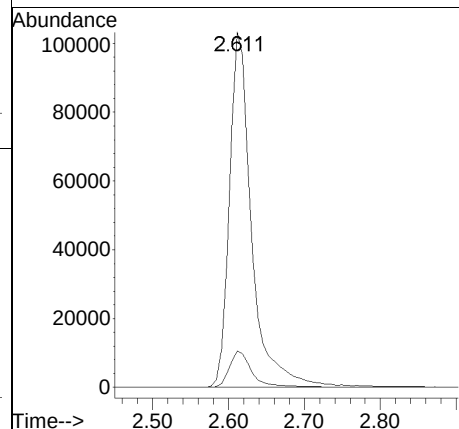
Tgt Ion	Ratio	Lower	Upper
96	100		
61	196.0	163.0	244.6
63	60.8	50.2	75.4

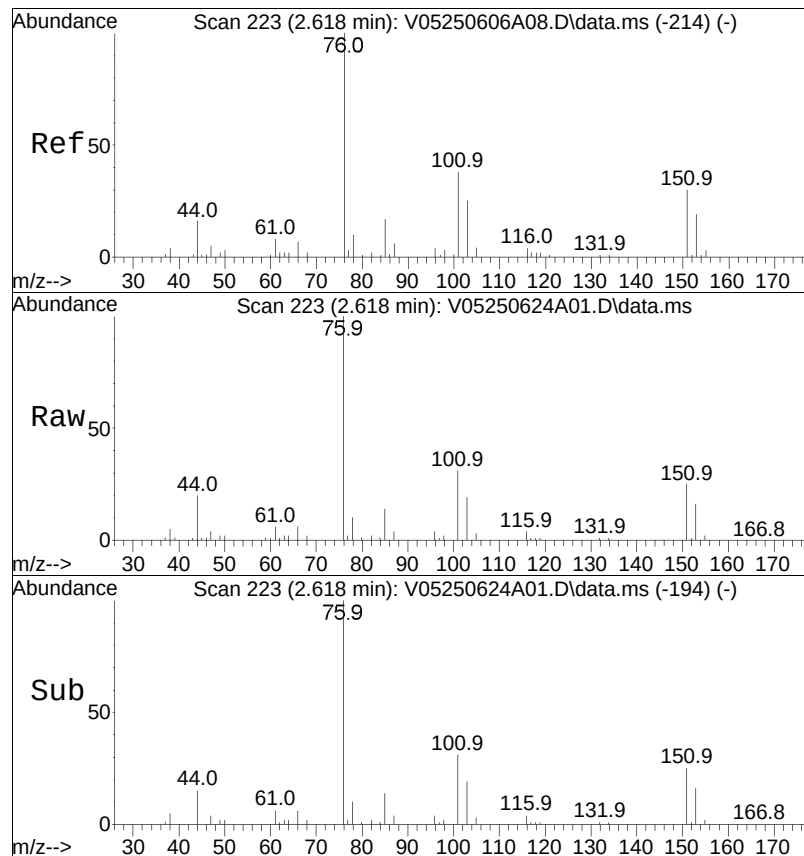




#11
Carbon disulfide
Concen: 13.35 ug/L
RT: 2.611 min Scan# 222
Delta R.T. 0.000 min
Lab File: V05250624A01.D
Acq: 24 Jun 2025 7:34 am

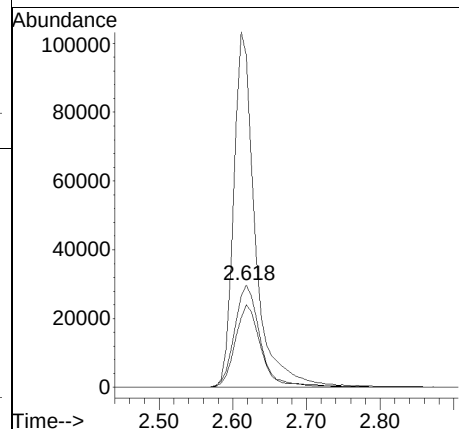
Tgt Ion	Ratio	Lower	Upper
76	100		
78	10.4	7.1	14.7

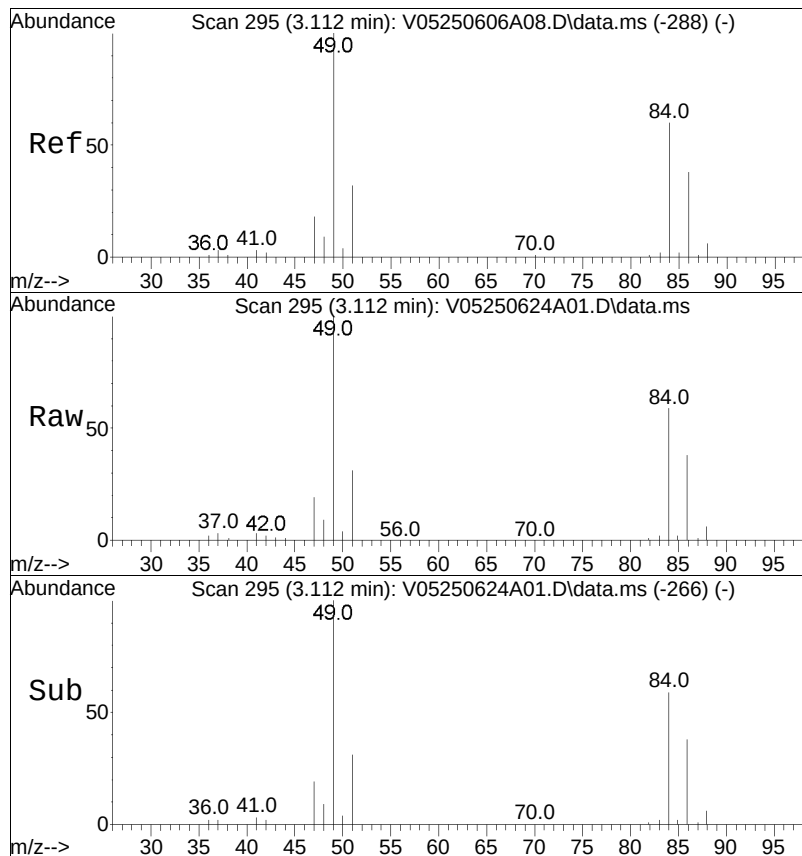




#12
 Freon-113
 Concen: 11.22 ug/L
 RT: 2.618 min Scan# 223
 Delta R.T. 0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

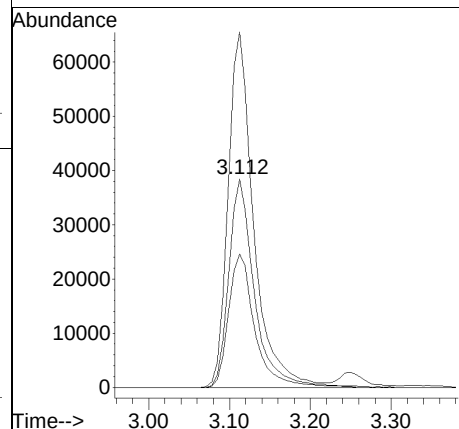
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
151	79.8	61.6	92.4	
76	286.6	180.6	271.0	#

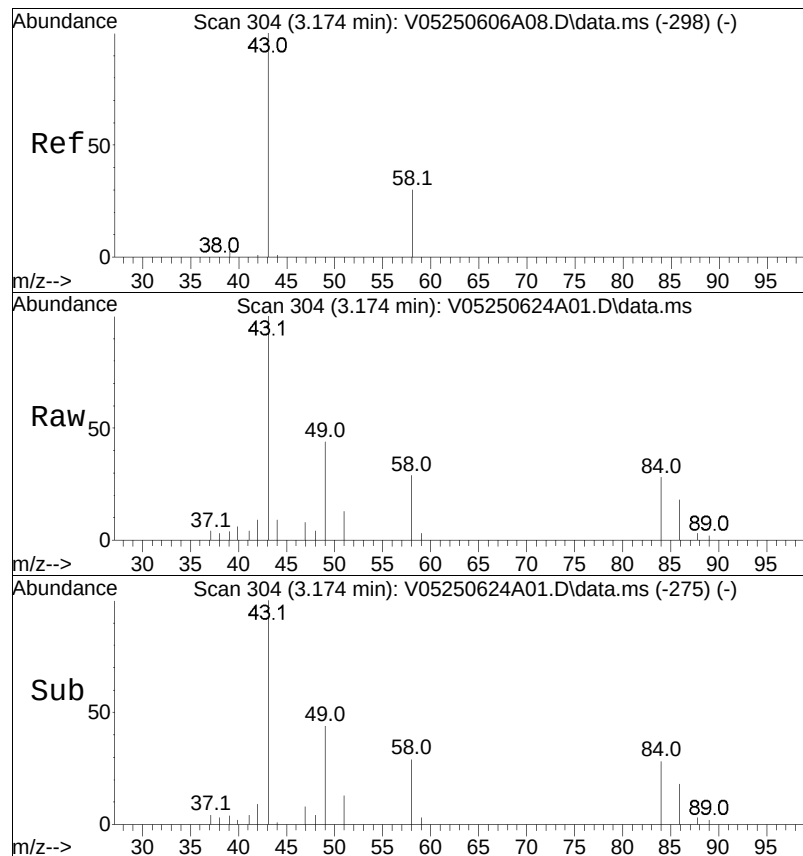




#15
 Methylene chloride
 Concen: 9.32 ug/L
 RT: 3.112 min Scan# 295
 Delta R.T. 0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

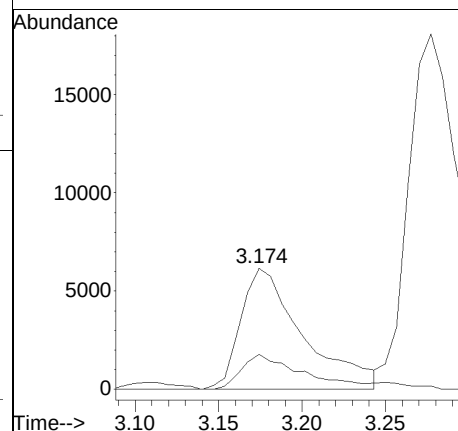
Tgt Ion	Ratio	Lower	Upper
84	100		
86	65.6	41.3	85.9
49	170.1	108.0	224.4

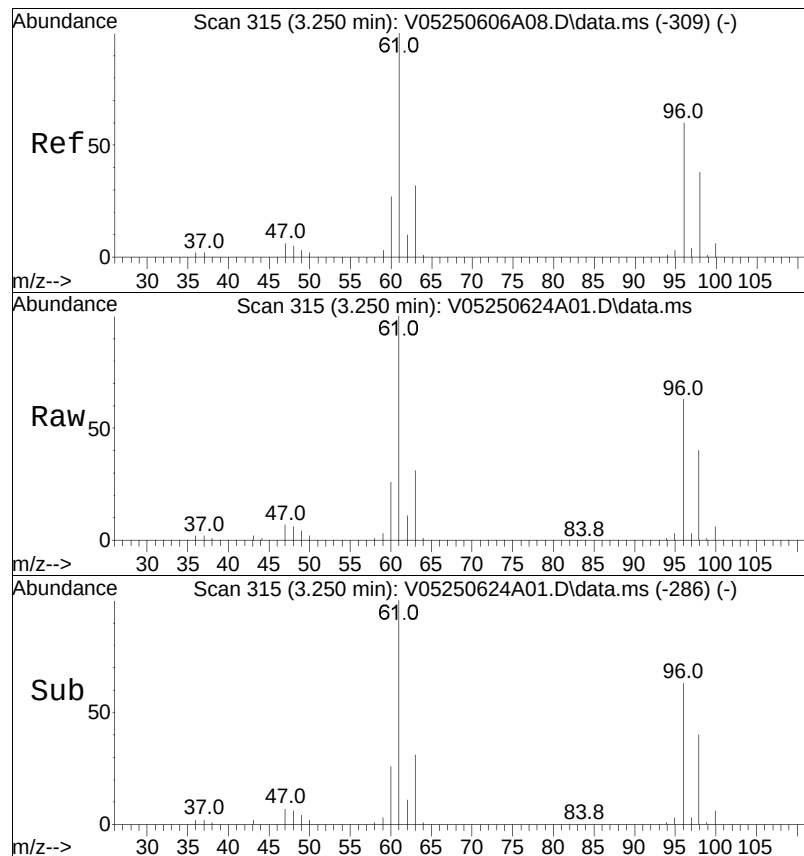




#17
 Acetone
 Concen: 8.88 ug/L
 RT: 3.174 min Scan# 304
 Delta R.T. 0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

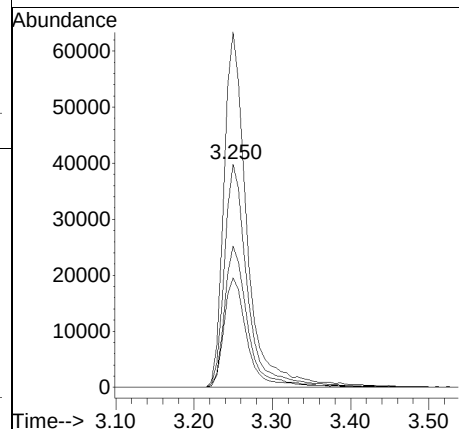
Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.9	28.3	42.5

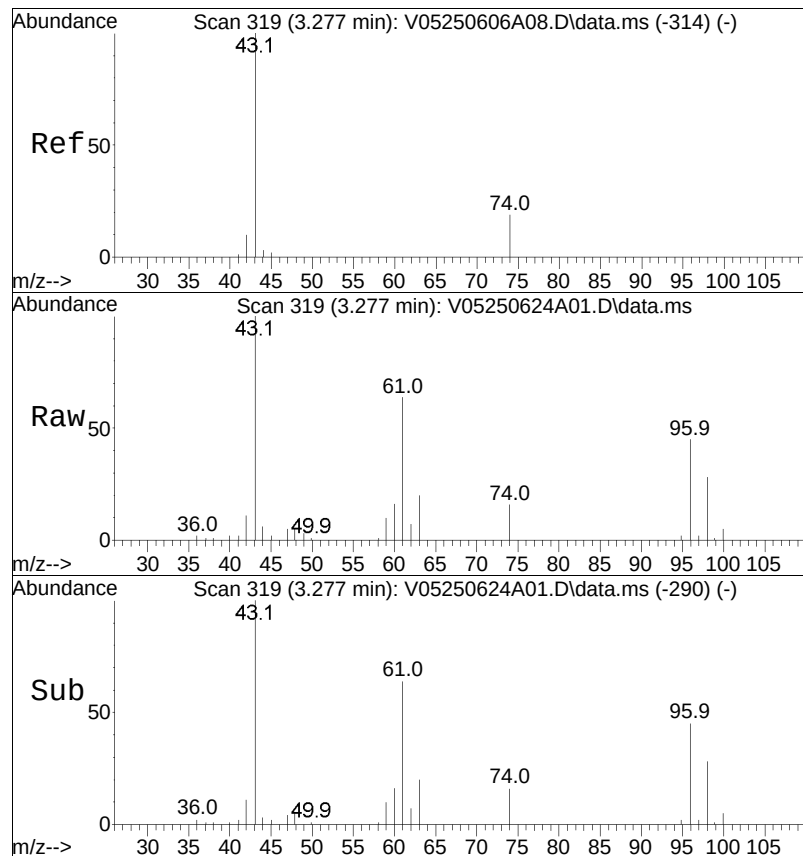




#18
 trans-1,2-Dichloroethene
 Concen: 9.44 ug/L
 RT: 3.250 min Scan# 315
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

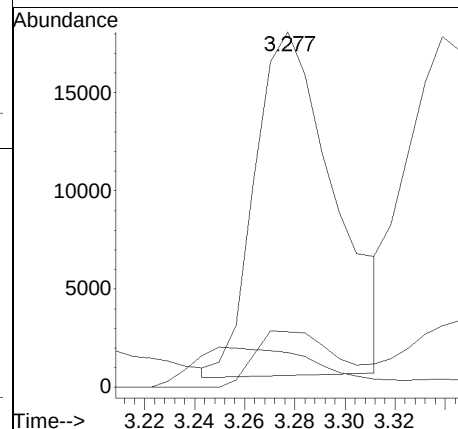
Tgt Ion:	96	Resp:	82660
Ion Ratio	Lower	Upper	
96	100		
61	158.5	110.0	228.4
98	64.0	41.3	85.9
63	49.4	33.8	70.2

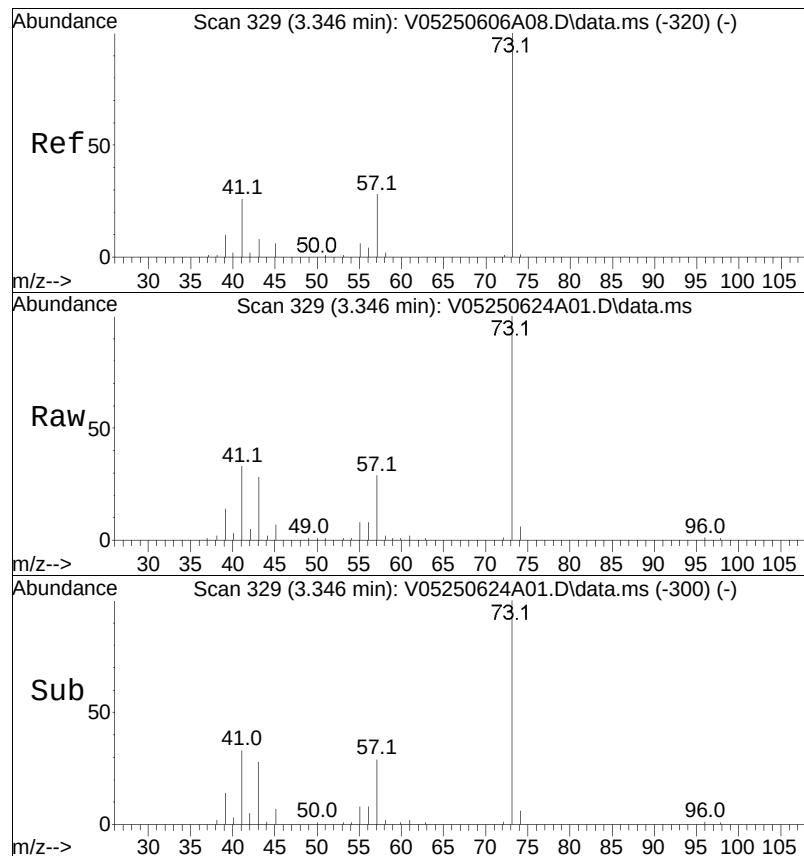




#19
Methyl acetate
Concen: 10.72 ug/L
RT: 3.277 min Scan# 319
Delta R.T. 0.000 min
Lab File: V05250624A01.D
Acq: 24 Jun 2025 7:34 am

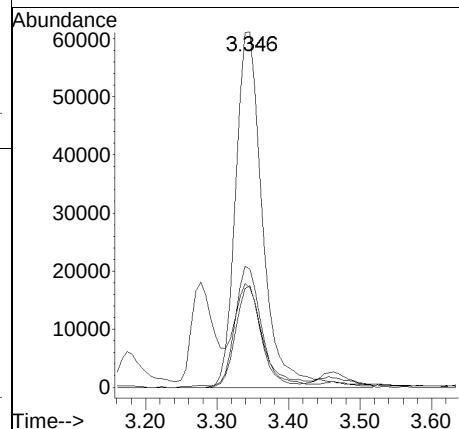
Tgt Ion	Ratio	Lower	Upper
43	100		
74	16.3	14.4	21.6
59	18.8	17.8	26.8

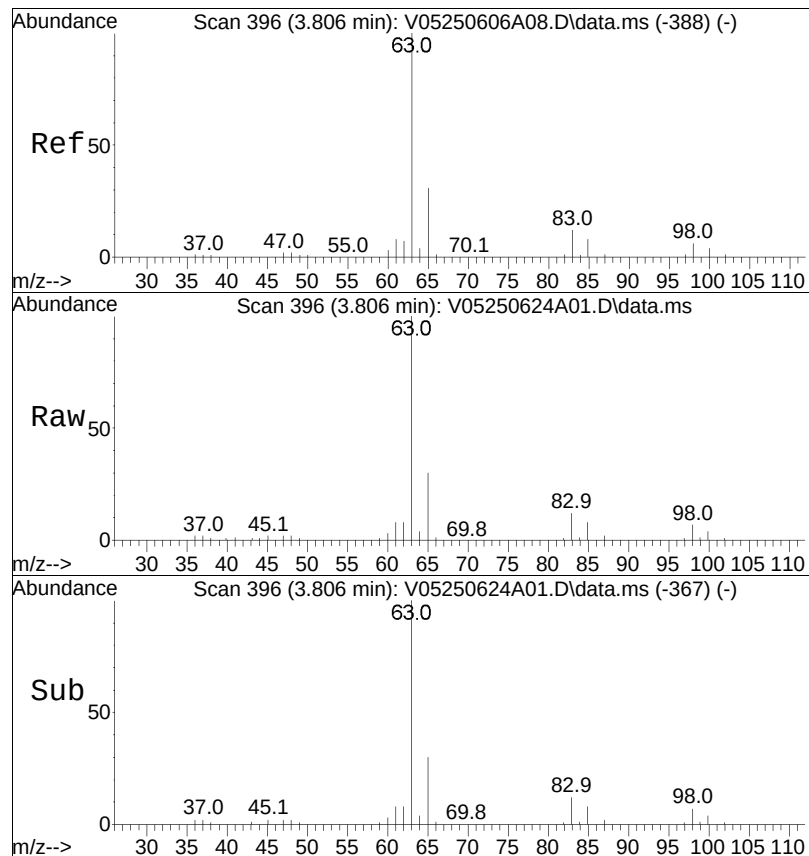




#20
Methyl tert-butyl ether
Concen: 8.10 ug/L
RT: 3.346 min Scan# 329
Delta R.T. -0.000 min
Lab File: V05250624A01.D
Acq: 24 Jun 2025 7:34 am

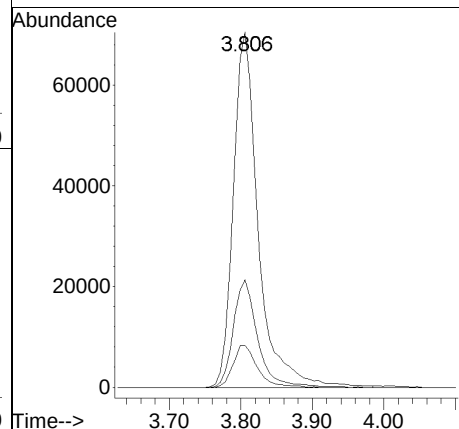
Tgt Ion:	73	Resp:	162071
Ion Ratio	Lower	Upper	
73	100		
57	27.5	17.9	37.1
43	27.6	16.4	34.2
41	33.7	16.1	33.5#

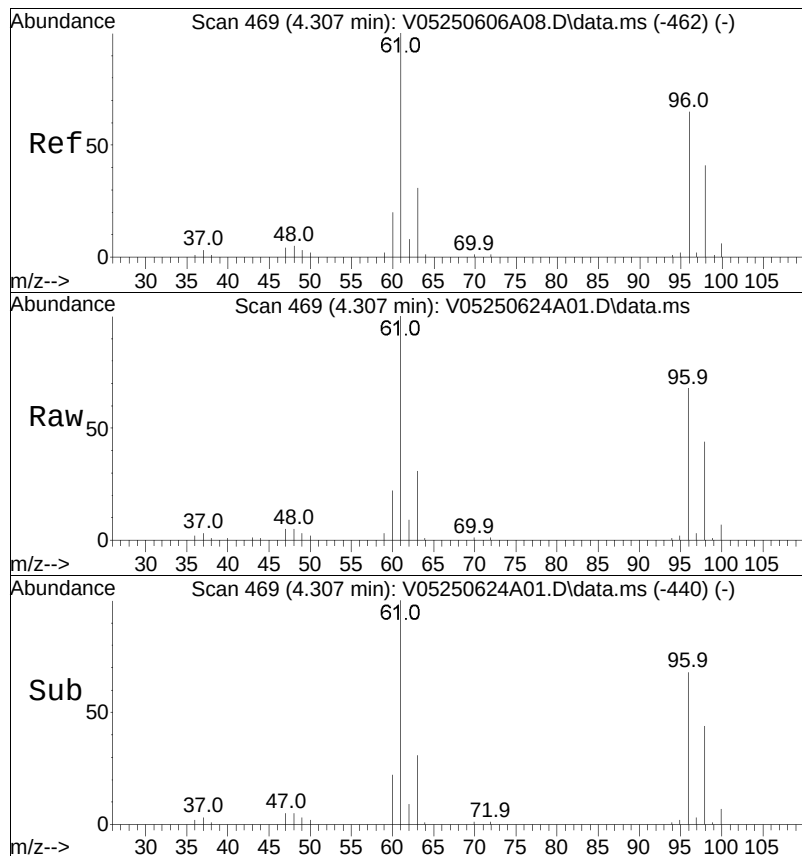




#23
 1,1-Dichloroethane
 Concen: 9.27 ug/L
 RT: 3.806 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

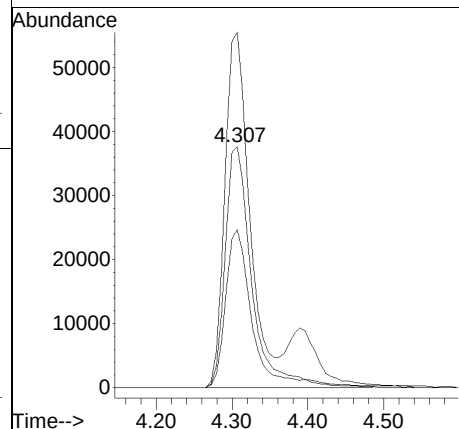
Tgt	Ion	Ratio	Lower	Upper
63	100			
65	29.5	10.5	50.5	
83	11.6	0.0	31.5	

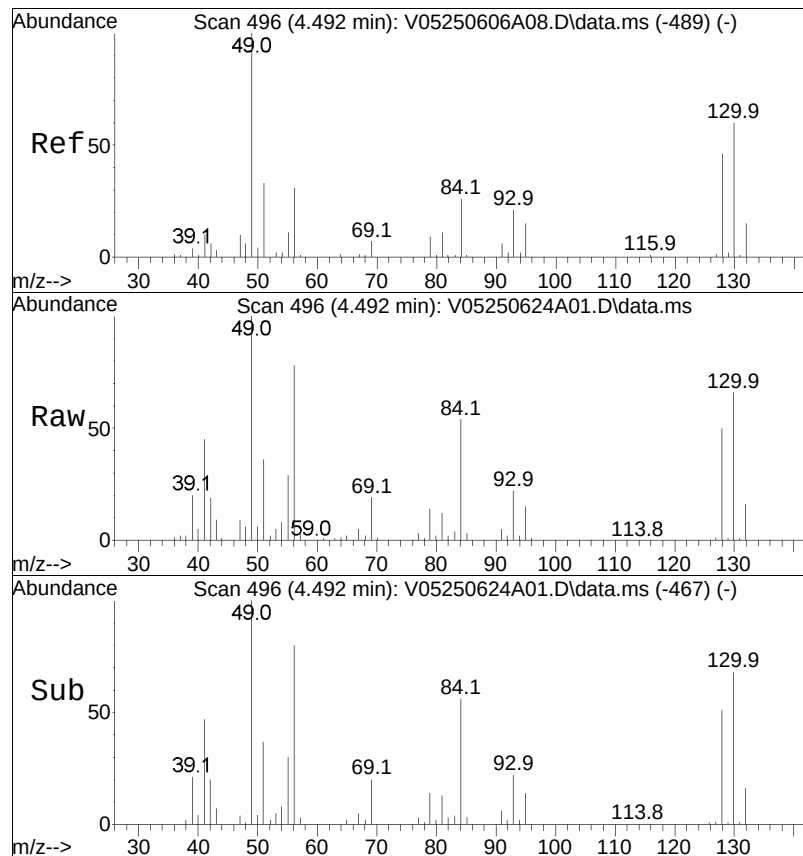




#28
 cis-1,2-Dichloroethene
 Concen: 9.49 ug/L
 RT: 4.307 min Scan# 469
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

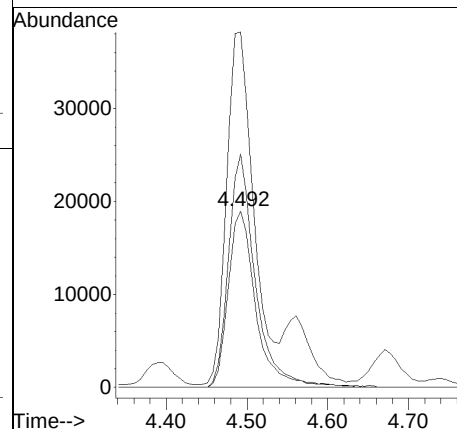
Tgt Ion	Ratio	Lower	Upper
96	100		
61	136.8	117.8	176.8
98	65.2	52.1	78.1

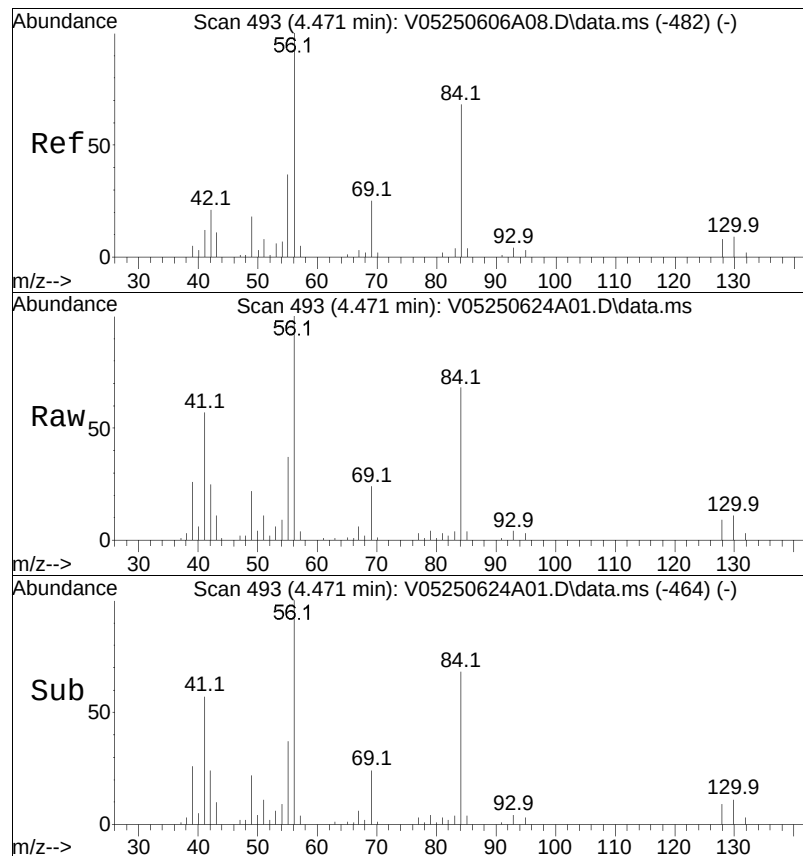




#30
 Bromochloromethane
 Concen: 11.06 ug/L
 RT: 4.492 min Scan# 496
 Delta R.T. 0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

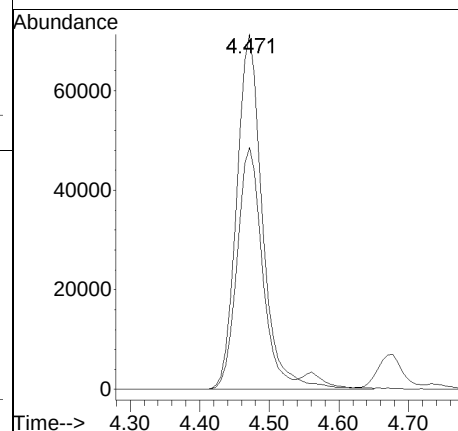
Tgt Ion	Ratio	Lower	Upper
128	100		
49	194.6	166.5	249.7
130	128.4	103.0	154.6

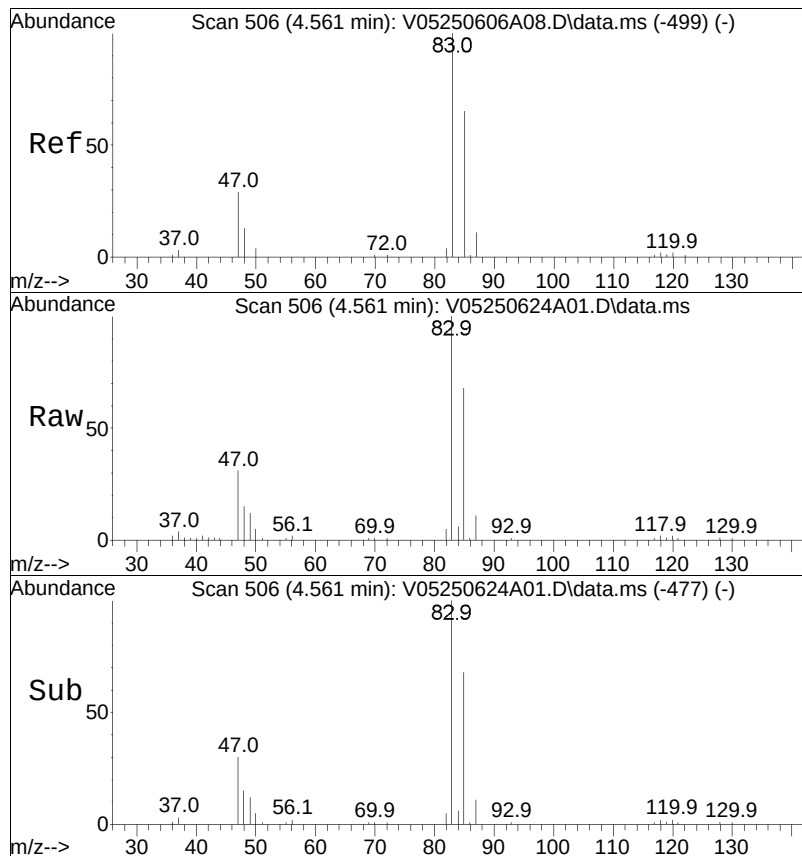




#31
Cyclohexane
Concen: 9.08 ug/L
RT: 4.471 min Scan# 493
Delta R.T. 0.000 min
Lab File: V05250624A01.D
Acq: 24 Jun 2025 7:34 am

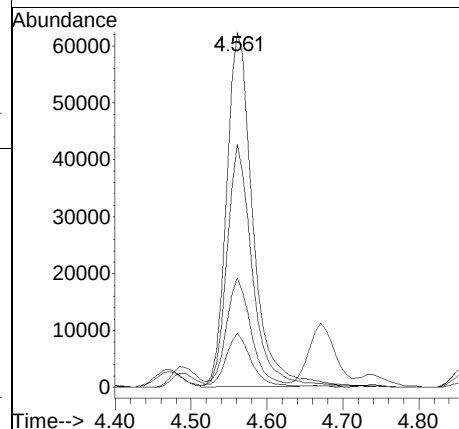
Tgt	Ion	Resp	Lower	Upper
56	100			
84	66.2	42.3	87.9	

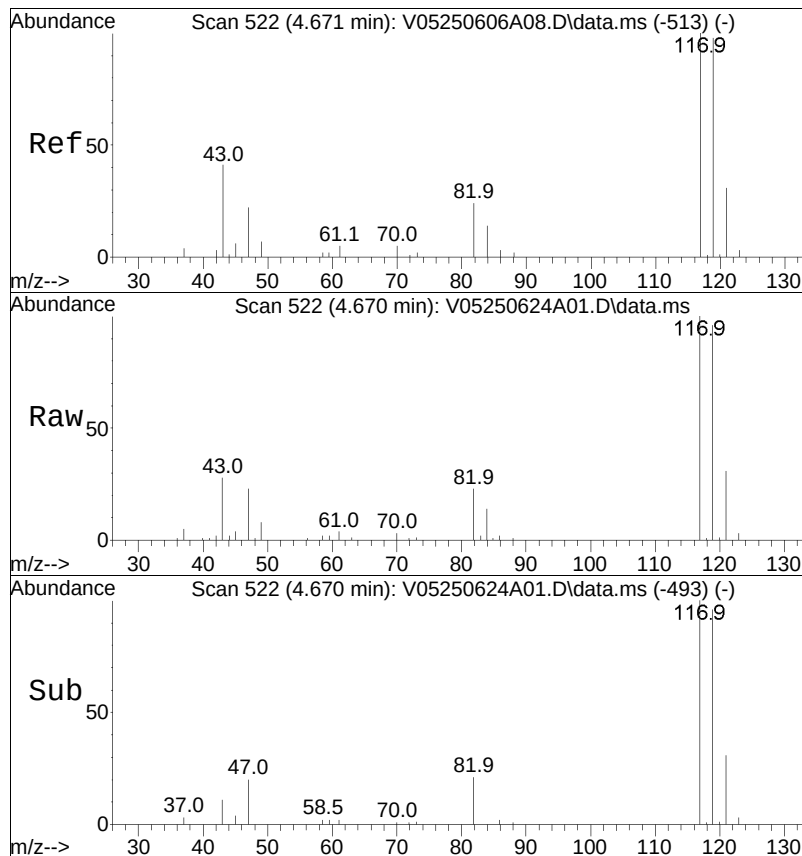




#32
 Chloroform
 Concen: 9.75 ug/L
 RT: 4.561 min Scan# 506
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

Tgt Ion:	83	Resp:	149942
Ion	Ratio	Lower	Upper
83	100		
85	66.7	41.8	86.8
47	26.9	17.4	36.2
48	14.1	8.9	18.5





#34

Carbon tetrachloride

Concen: 10.32 ug/L

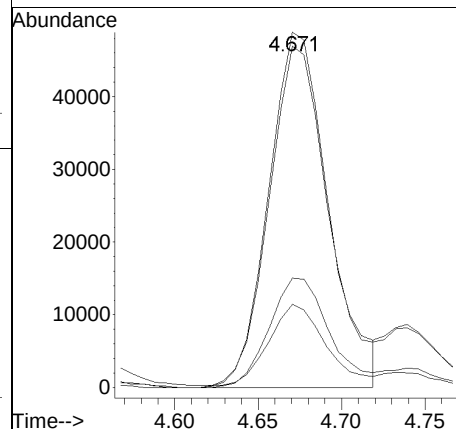
RT: 4.670 min Scan# 522

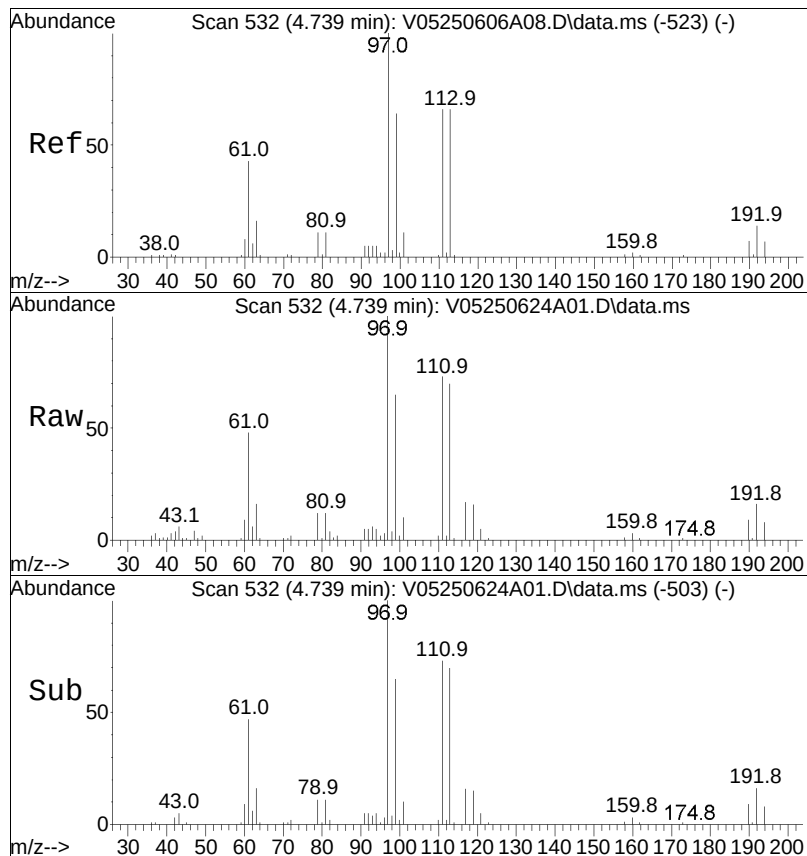
Delta R.T. -0.001 min

Lab File: V05250624A01.D

Acq: 24 Jun 2025 7:34 am

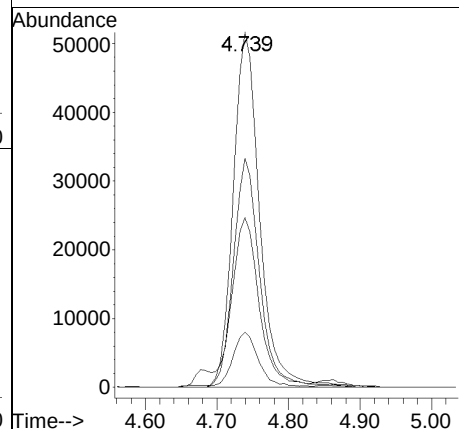
Tgt	Ion:117	Resp:	121590
Ion	Ratio	Lower	Upper
117	100		
119	96.0	63.3	131.5
121	31.1	20.2	42.0
82	22.4	15.2	31.6

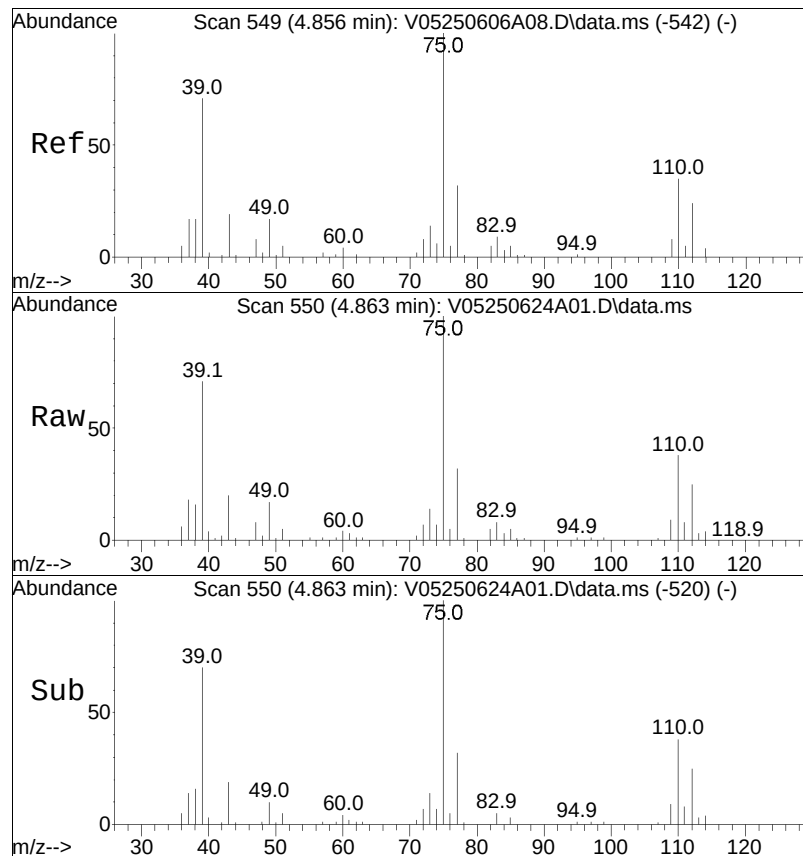




#37
 1,1,1-Trichloroethane
 Concen: 10.00 ug/L
 RT: 4.739 min Scan# 532
 Delta R.T. 0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

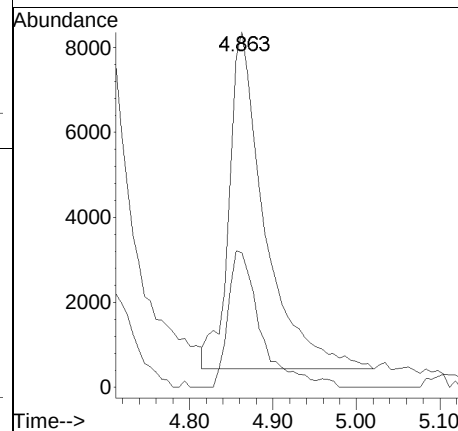
Tgt Ion: 97	Resp: 133711
Ion Ratio	Lower Upper
97 100	
99 63.7	41.7 86.5
61 48.8	32.6 67.6
63 15.2	10.1 20.9

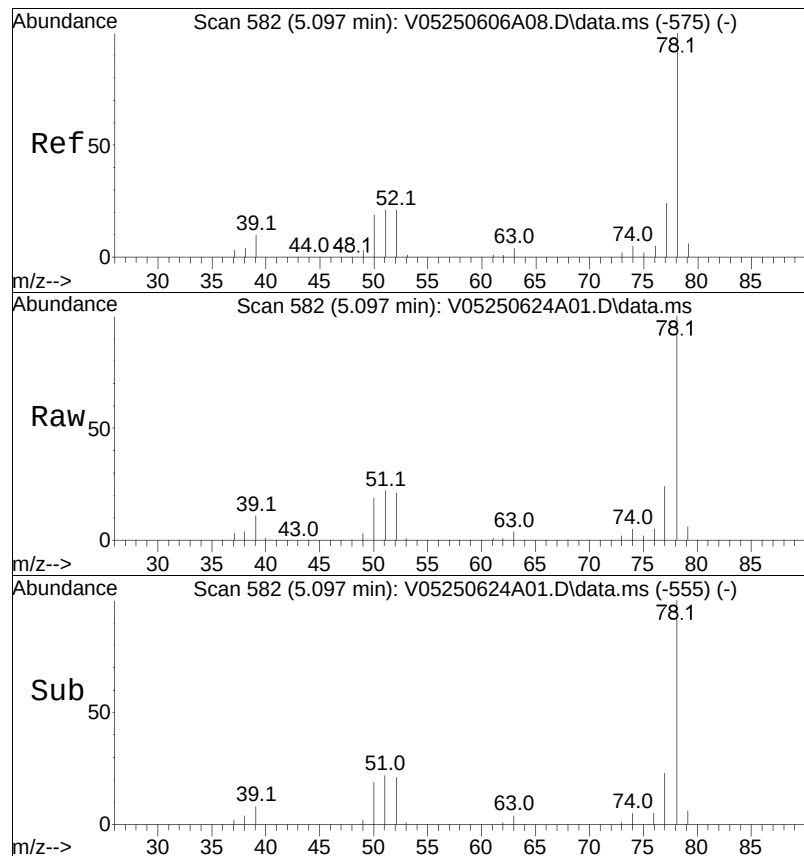




#39
 2-Butanone
 Concen: 9.41 ug/L
 RT: 4.863 min Scan# 550
 Delta R.T. 0.007 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

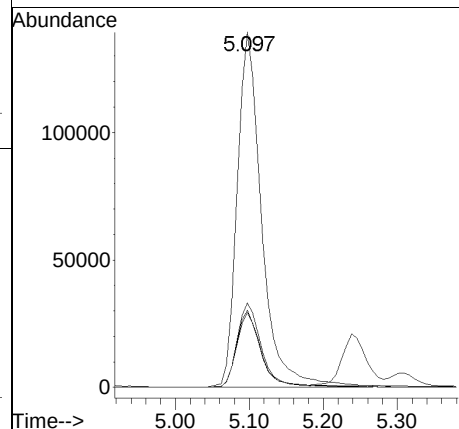
Tgt Ion: 43 Resp: 23783
 Ion Ratio Lower Upper
 43 100
 72 36.4 29.4 44.2

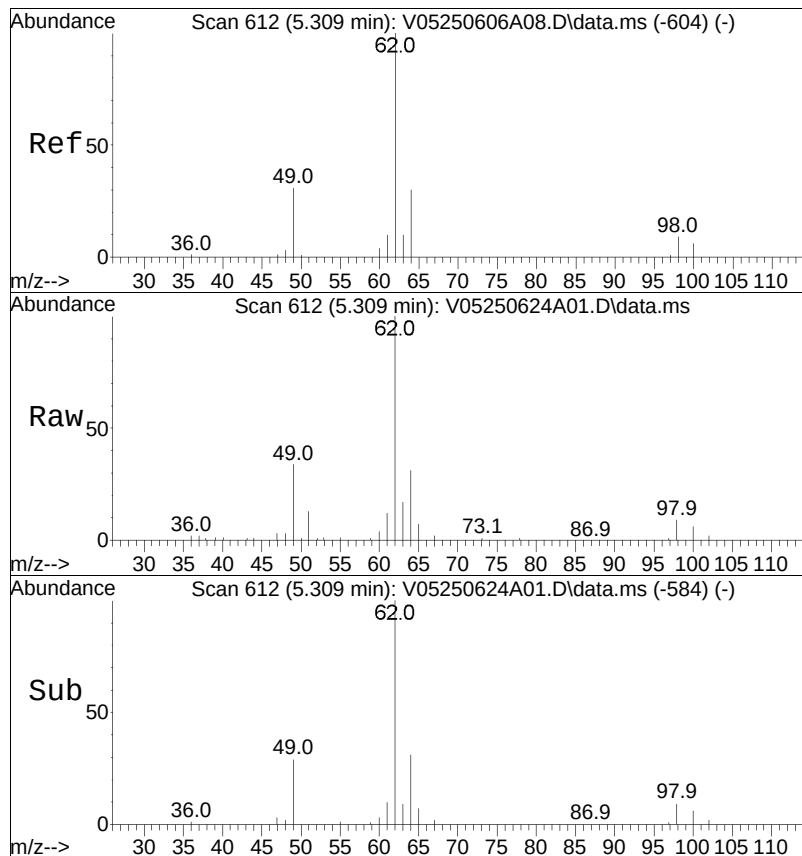




#41
Benzene
Concen: 9.72 ug/L
RT: 5.097 min Scan# 582
Delta R.T. 0.000 min
Lab File: V05250624A01.D
Acq: 24 Jun 2025 7:34 am

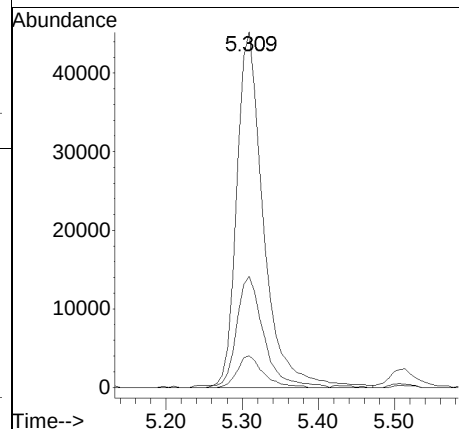
Tgt Ion: 78	Resp: 342949
Ion Ratio	Lower Upper
78 100	
77 24.0	15.3 31.9
51 22.1	14.2 29.4
52 21.3	14.1 29.3

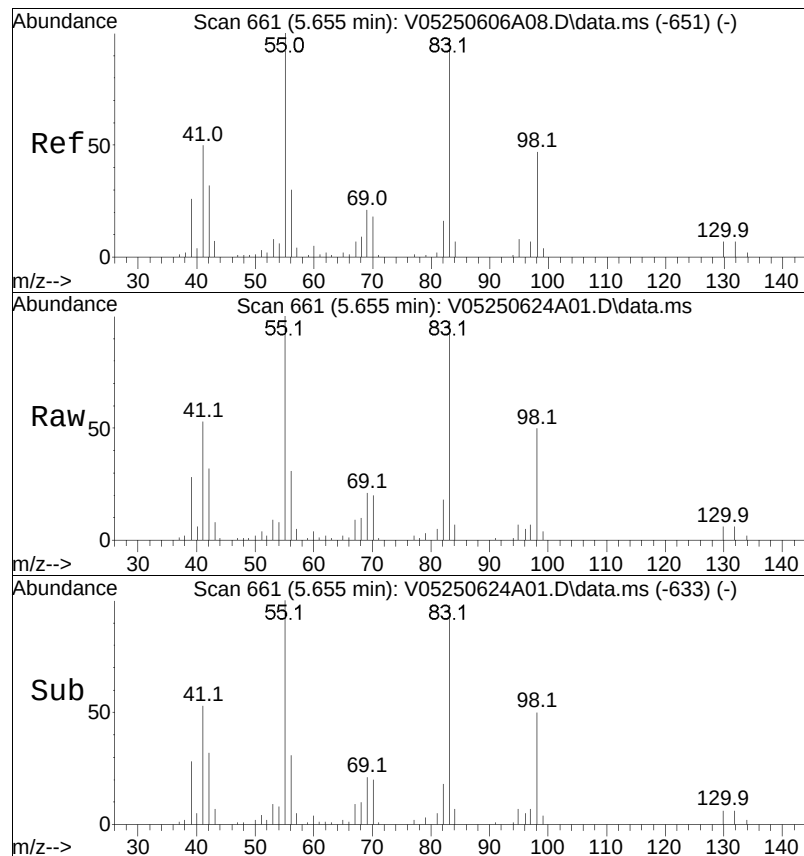




#44
 1,2-Dichloroethane
 Concen: 9.95 ug/L
 RT: 5.309 min Scan# 612
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

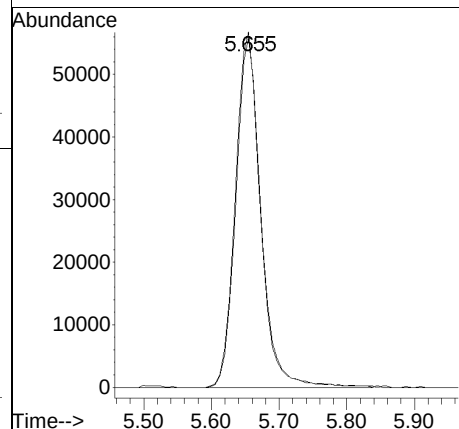
Tgt	Ion: 62	Resp:	110679
Ion	Ratio	Lower	Upper
62	100		
64	31.9	12.2	52.2
98	8.6	0.0	28.7

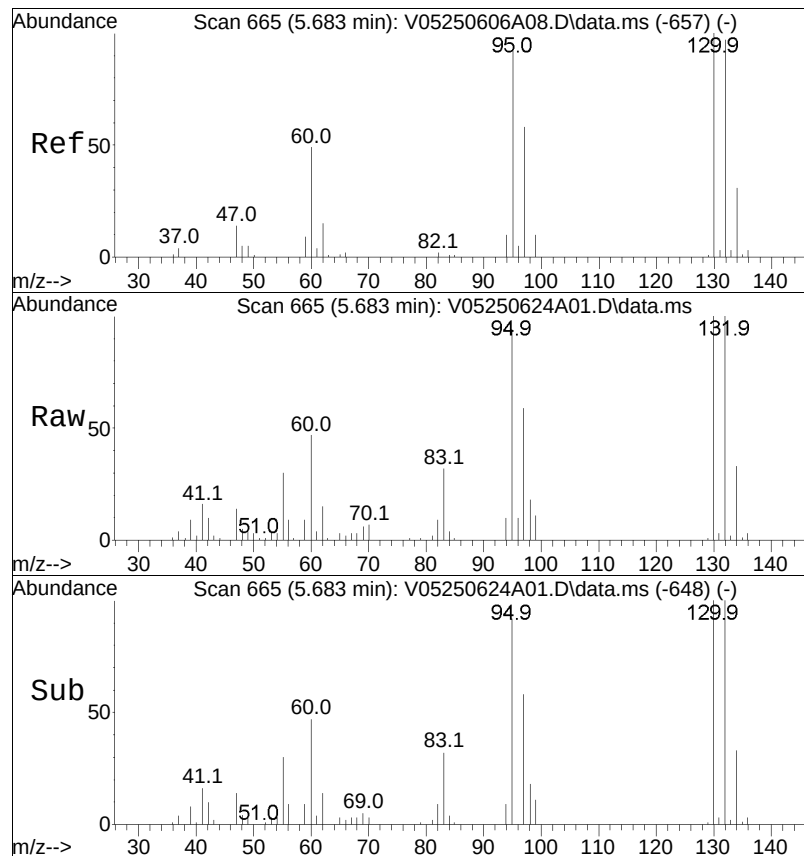




#47
Methyl cyclohexane
Concen: 9.92 ug/L
RT: 5.655 min Scan# 661
Delta R.T. -0.000 min
Lab File: V05250624A01.D
Acq: 24 Jun 2025 7:34 am

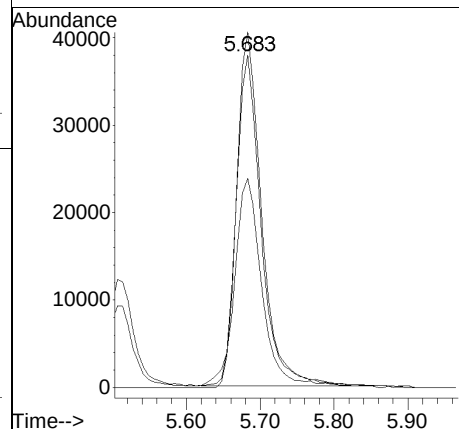
Tgt Ion	Ratio	Lower	Upper
83	100		
55	101.5	80.2	120.4

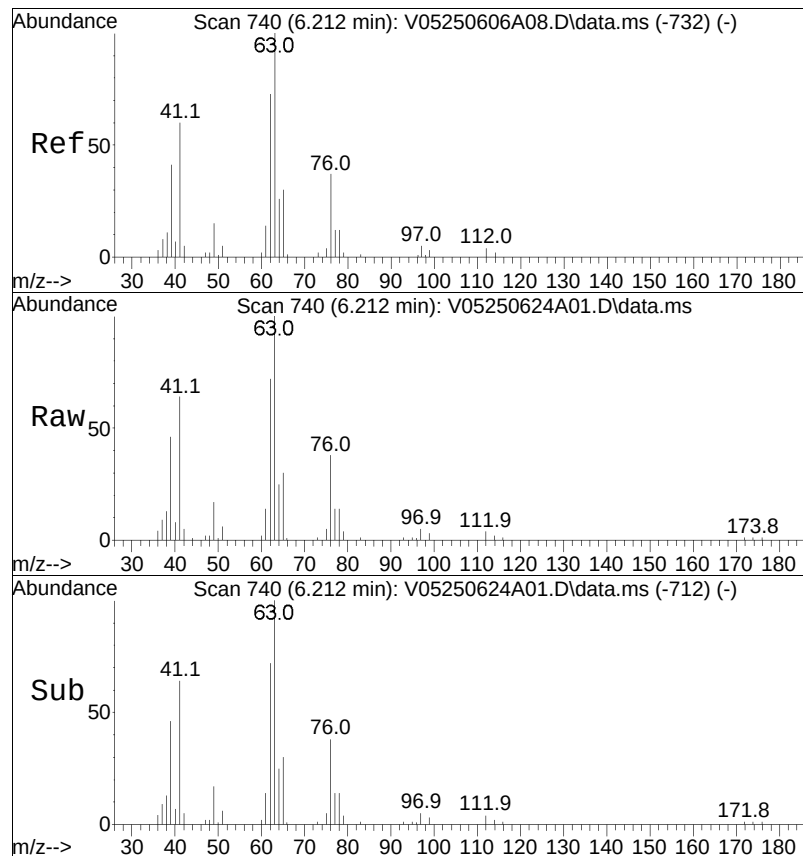




#48
 Trichloroethene
 Concen: 9.53 ug/L
 RT: 5.683 min Scan# 665
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

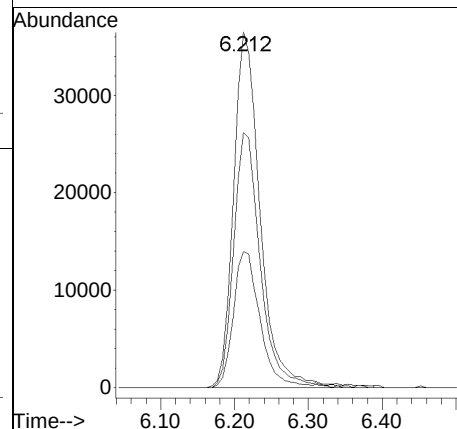
Tgt Ion	Ratio	Lower	Upper
95	100		
97	67.4	54.6	82.0
130	109.5	82.9	124.3

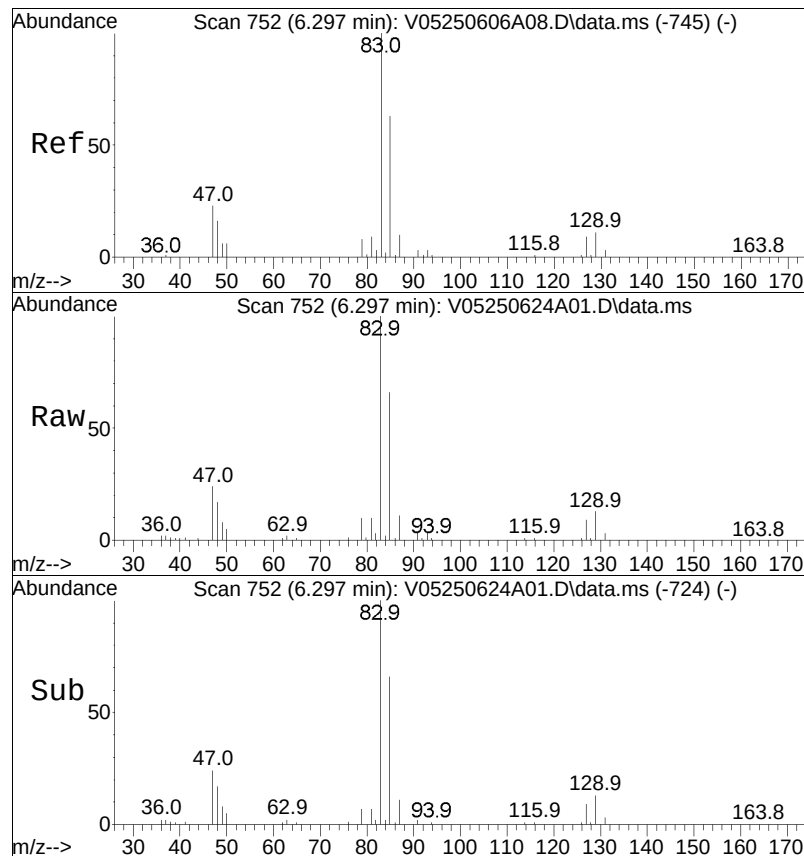




#51
 1,2-Dichloropropane
 Concen: 9.25 ug/L
 RT: 6.212 min Scan# 740
 Delta R.T. 0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

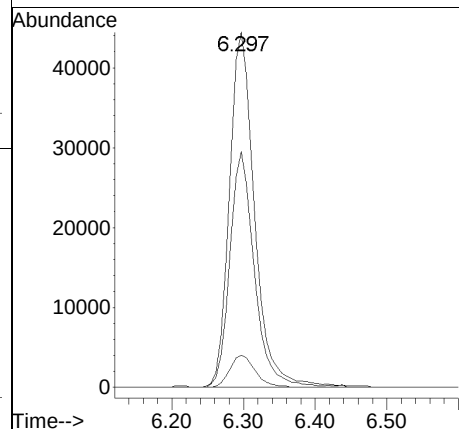
Tgt Ion	Ratio	Lower	Upper
63	100		
62	71.6	58.0	87.0
76	38.3	29.0	43.4

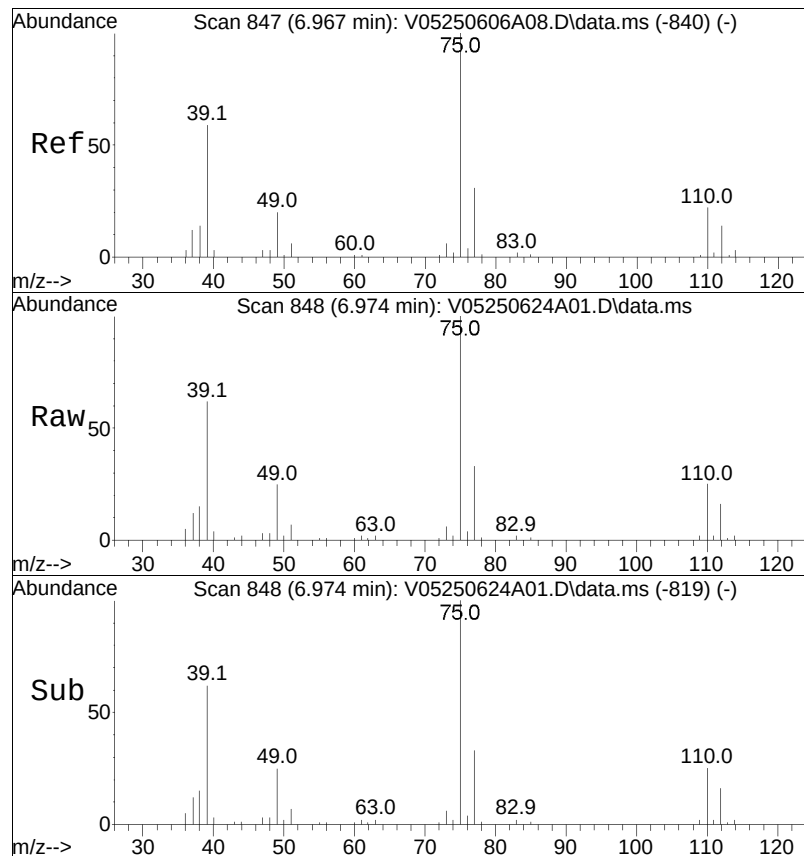




#54
 Bromodichloromethane
 Concen: 9.54 ug/L
 RT: 6.297 min Scan# 752
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

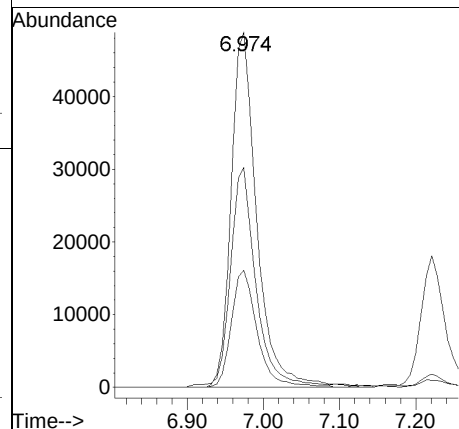
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.3	76.9
127	9.1	6.7	10.1

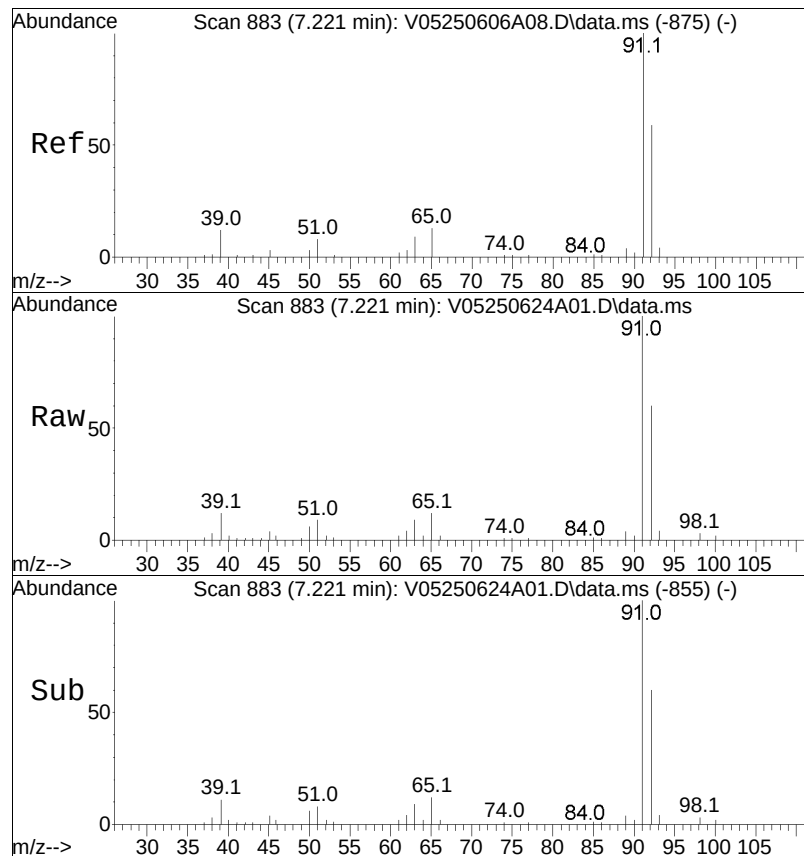




#58
 cis-1,3-Dichloropropene
 Concen: 8.69 ug/L
 RT: 6.974 min Scan# 848
 Delta R.T. 0.007 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

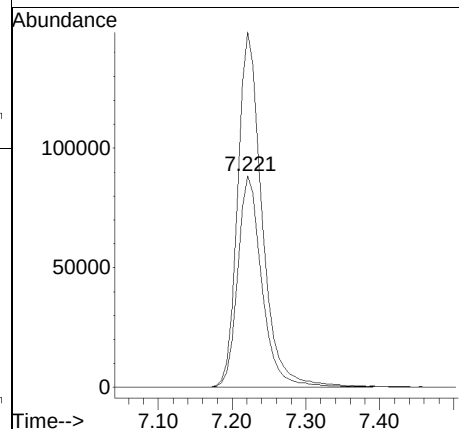
Tgt Ion:	75	Resp:	115356
Ion Ratio	Lower	Upper	
75	100		
77	33.0	25.4	38.2
39	61.3	49.1	73.7

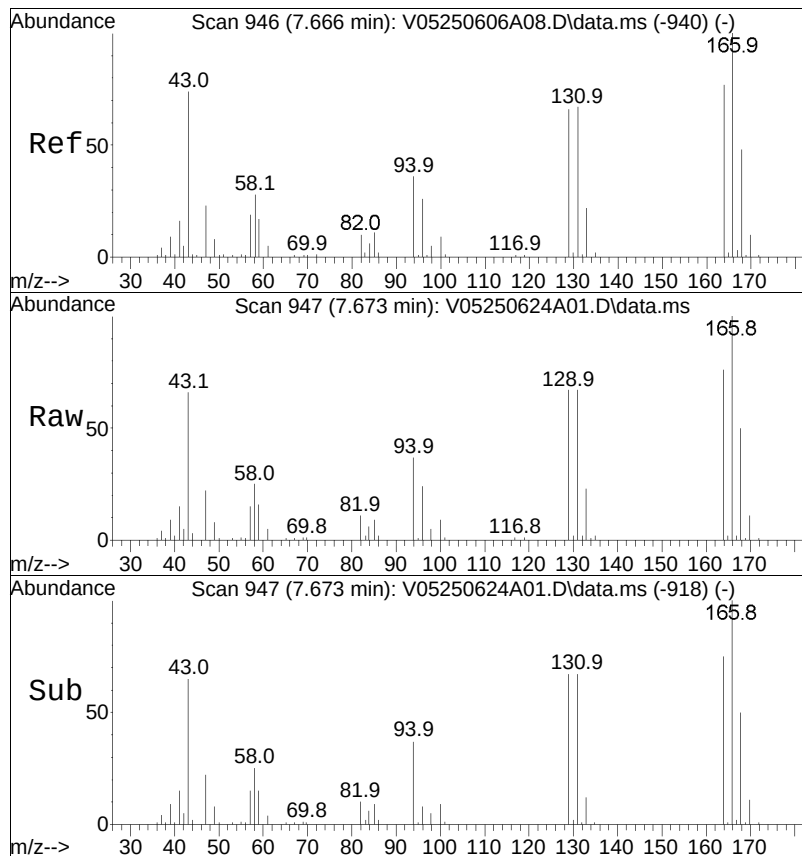




#61
 Toluene
 Concen: 8.92 ug/L
 RT: 7.221 min Scan# 883
 Delta R.T. 0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

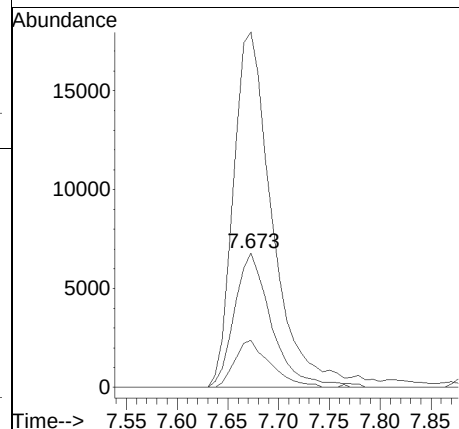
Tgt Ion	Ratio	Lower	Upper
92	100		
91	168.5	134.6	202.0

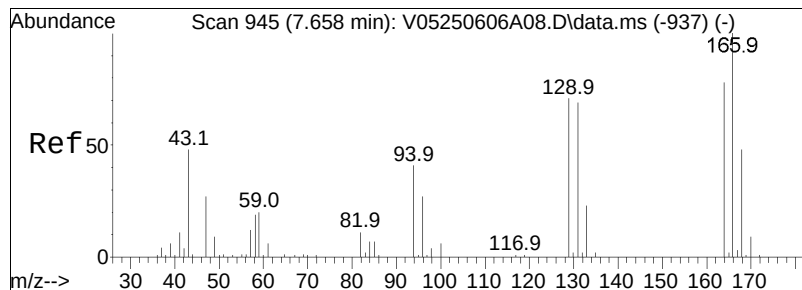




#62
 4-Methyl-2-pentanone
 Concen: 7.36 ug/L
 RT: 7.673 min Scan# 947
 Delta R.T. 0.007 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

Tgt Ion:	58	100	43	Ratio	Lower	Upper
Resp:	17444					
	100	33.6	278.4		26.2	316.8





#63

Tetrachloroethene

Concen: 10.44 ug/L

RT: 7.658 min Scan# 945

Delta R.T. 0.000 min

Lab File: V05250624A01.D

Acq: 24 Jun 2025 7:34 am

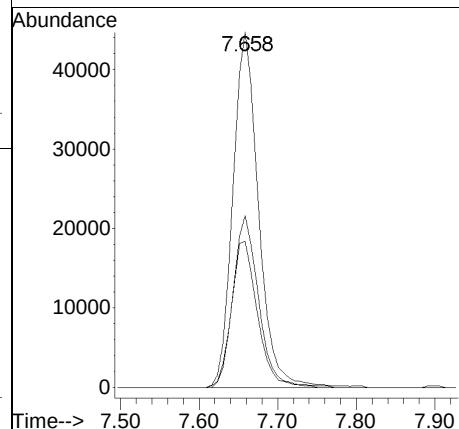
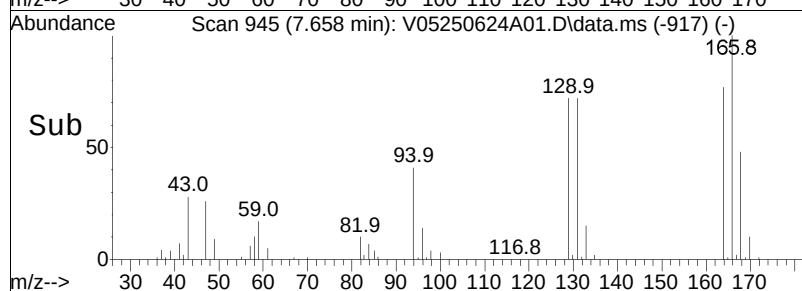
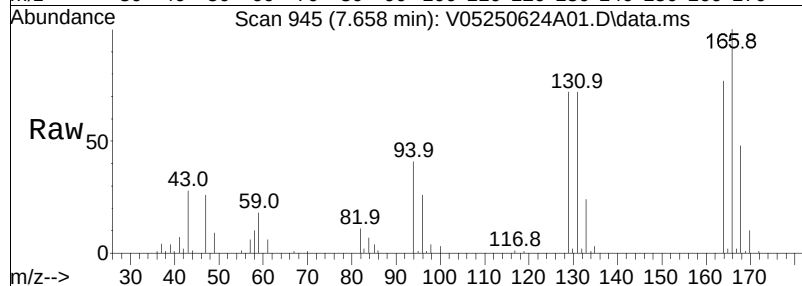
Tgt Ion:166 Resp: 101471

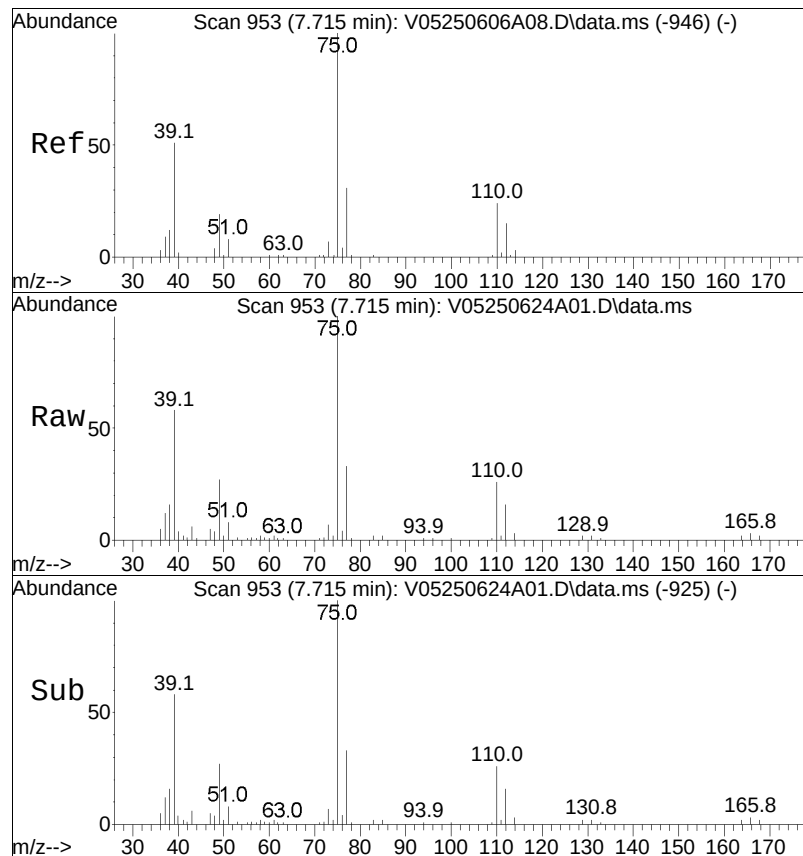
Ion Ratio Lower Upper

166 100

168 47.9 27.4 67.4

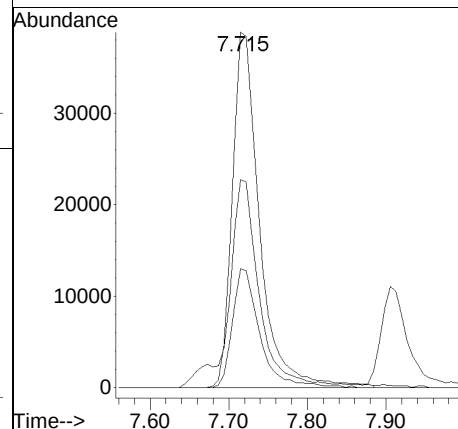
94 41.7 20.5 60.5

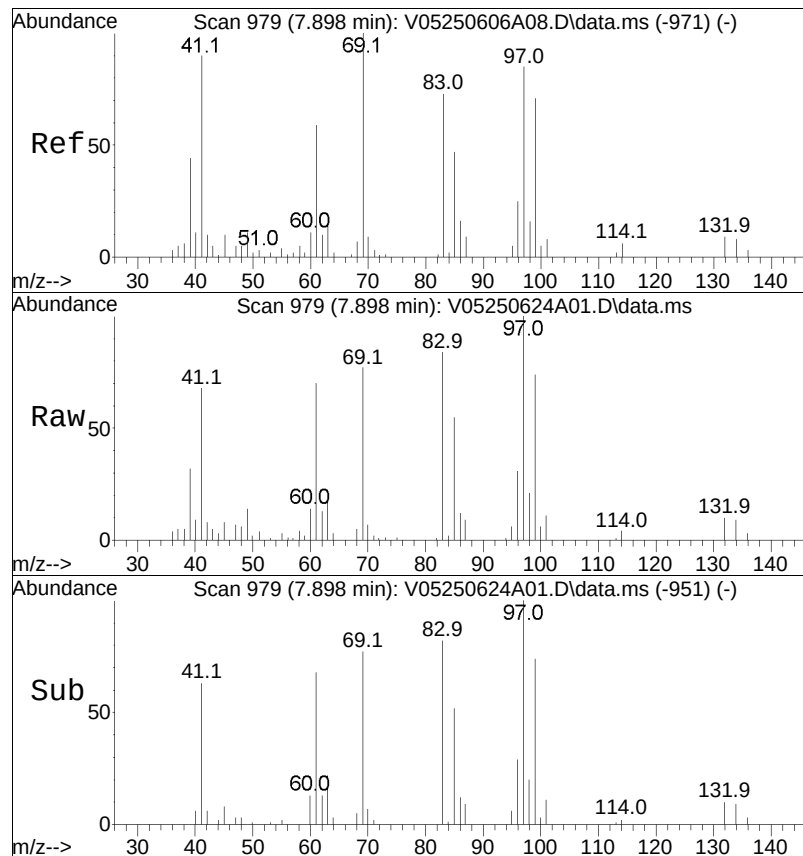




#65
 trans-1,3-Dichloropropene
 Concen: 8.26 ug/L
 RT: 7.715 min Scan# 953
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

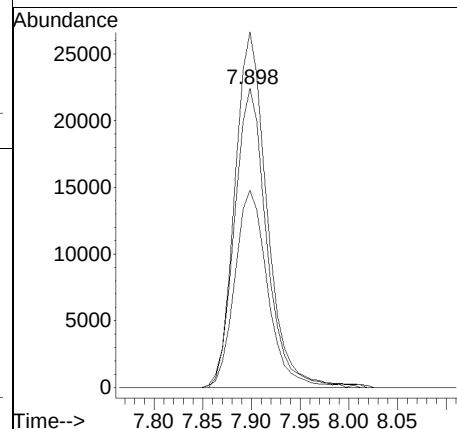
Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.2	11.9	51.9
39	65.2	37.0	77.0

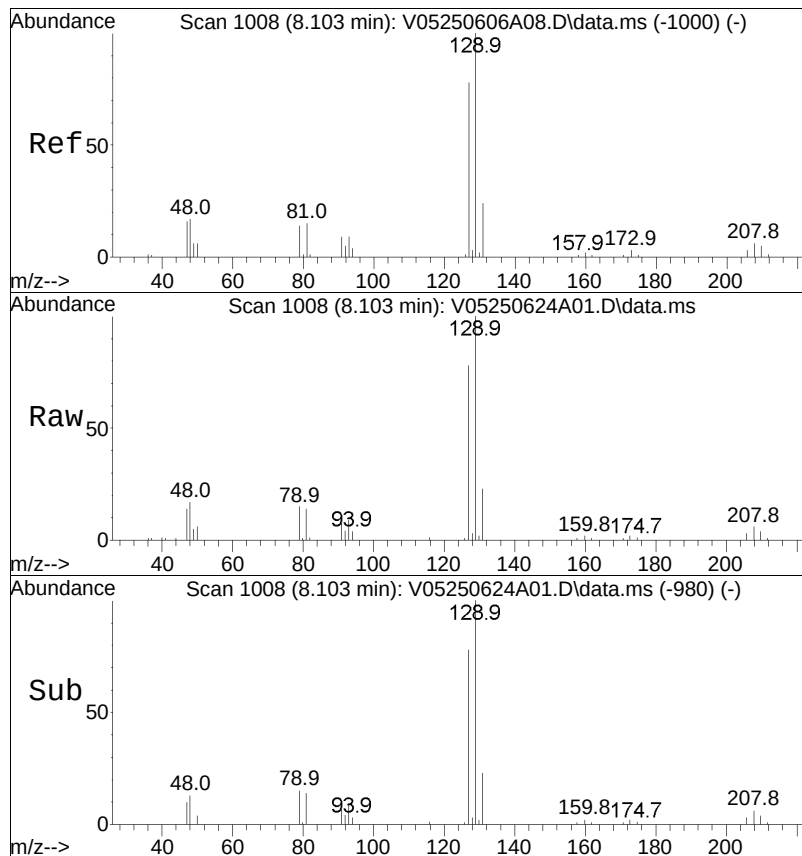




#68
 1,1,2-Trichloroethane
 Concen: 9.40 ug/L
 RT: 7.898 min Scan# 979
 Delta R.T. 0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

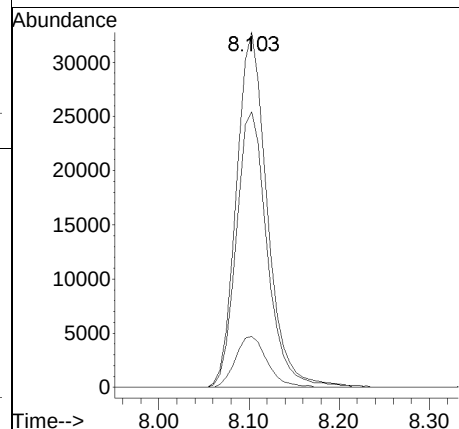
Tgt Ion	Ratio	Lower	Upper
83	100		
97	119.0	97.2	137.2
85	67.5	46.3	86.3

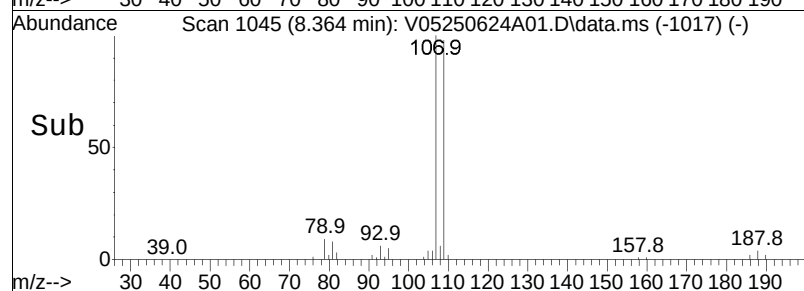
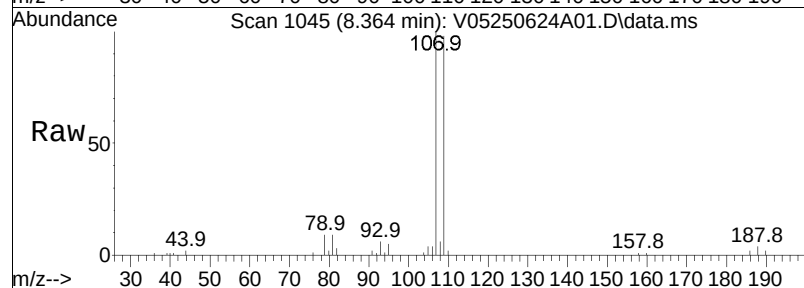
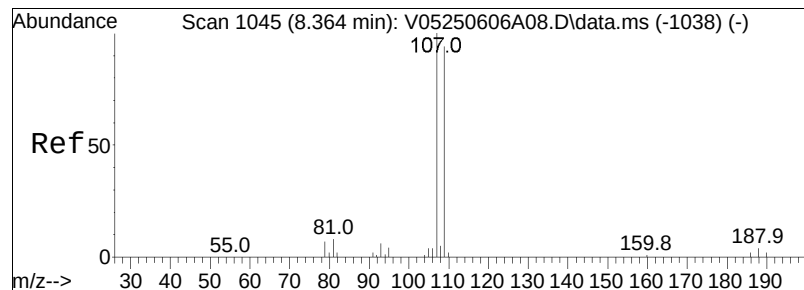




#69
 Chlorodibromomethane
 Concen: 9.50 ug/L
 RT: 8.103 min Scan# 1008
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

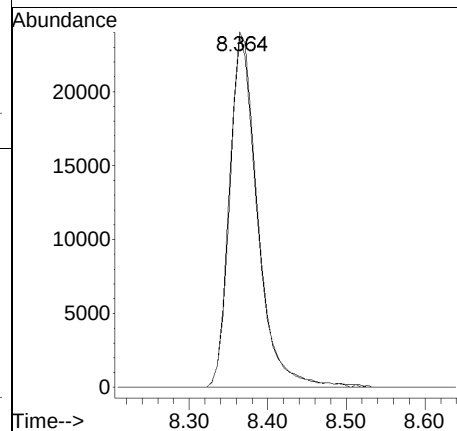
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	78139		
81	14.8		0.0	34.5
127	77.8		57.5	97.5

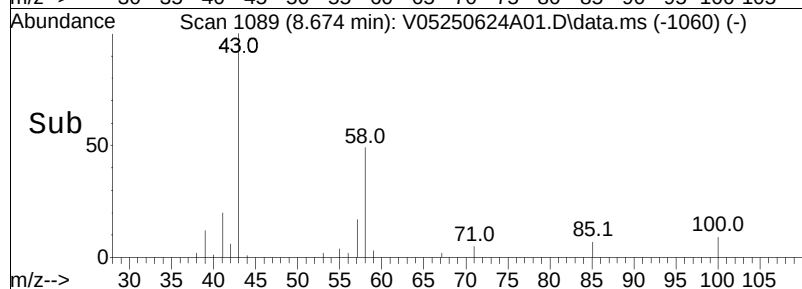
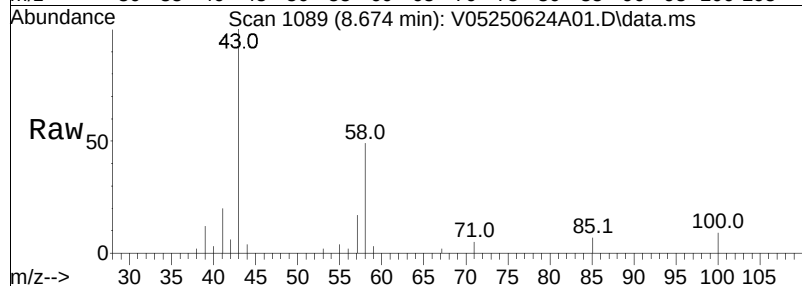
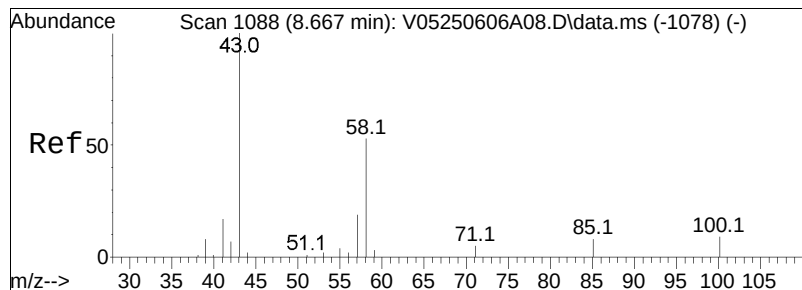




#71
 1,2-Dibromoethane
 Concen: 9.47 ug/L
 RT: 8.364 min Scan# 1045
 Delta R.T. 0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.0	75.1	112.7





#72

2-Hexanone

Concen: 7.39 ug/L

RT: 8.674 min Scan# 1089

Delta R.T. 0.007 min

Lab File: V05250624A01.D

Acq: 24 Jun 2025 7:34 am

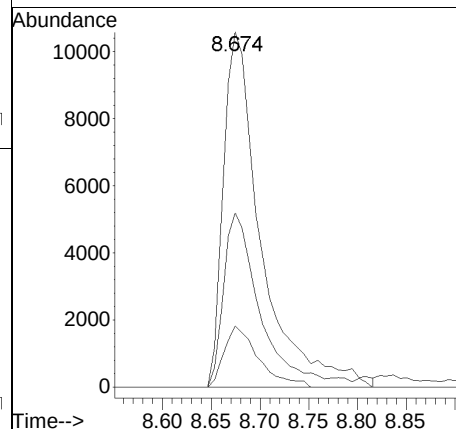
Tgt Ion: 43 Resp: 28668

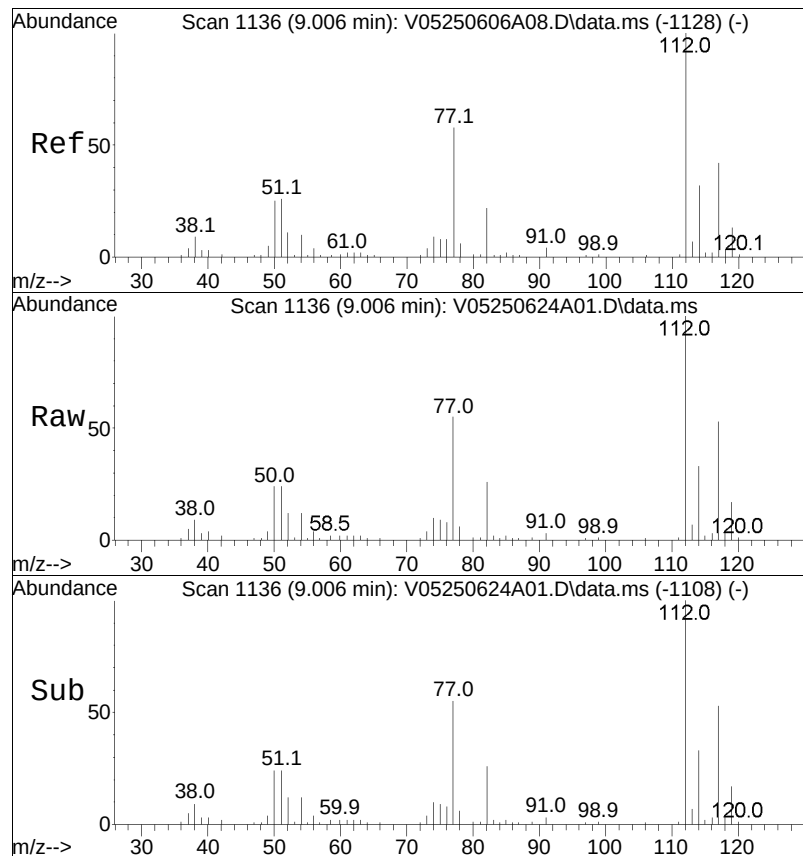
Ion Ratio Lower Upper

43 100

58 48.8 42.5 63.7

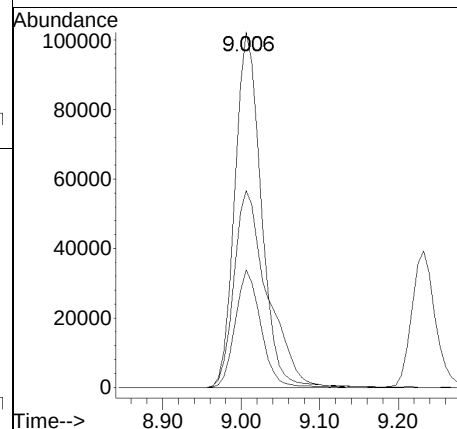
57 15.8 16.2 24.4#

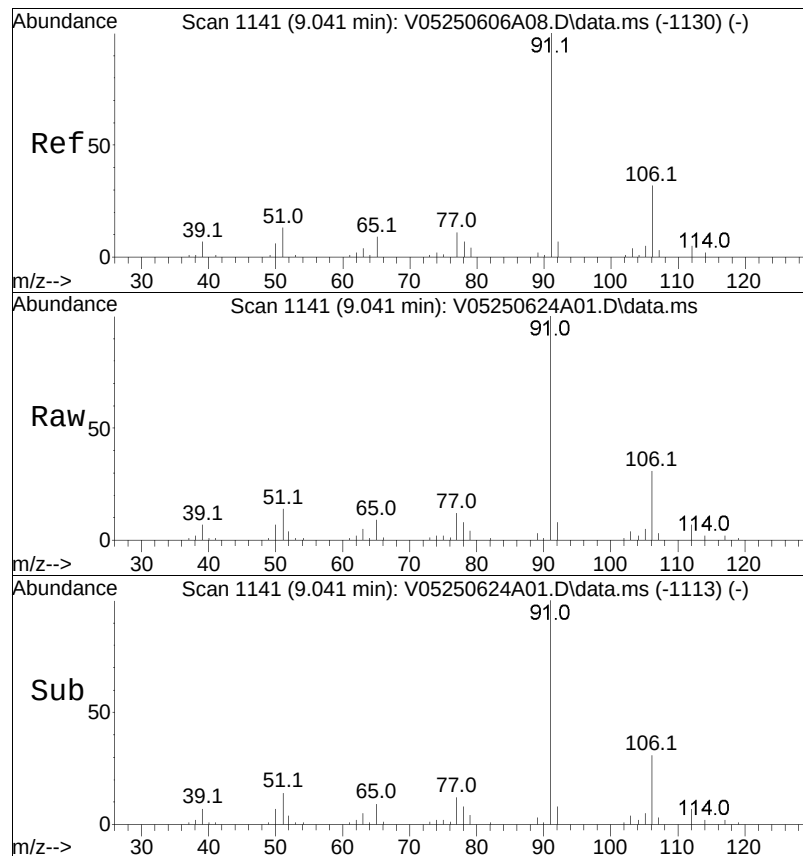




#73
 Chlorobenzene
 Concen: 9.42 ug/L
 RT: 9.006 min Scan# 1136
 Delta R.T. 0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

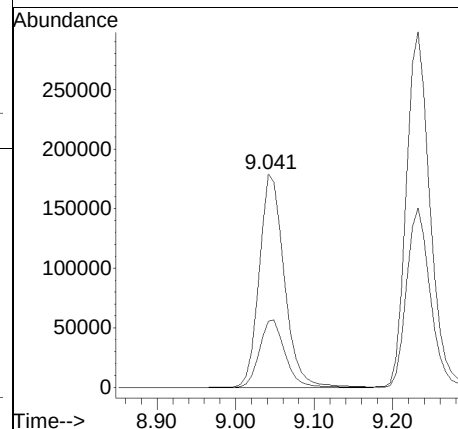
Tgt	Ion	Ratio	Resp	Lower	Upper
112	100		238325		
77	70.9	59.0		88.4	
114	32.2	25.4		38.2	

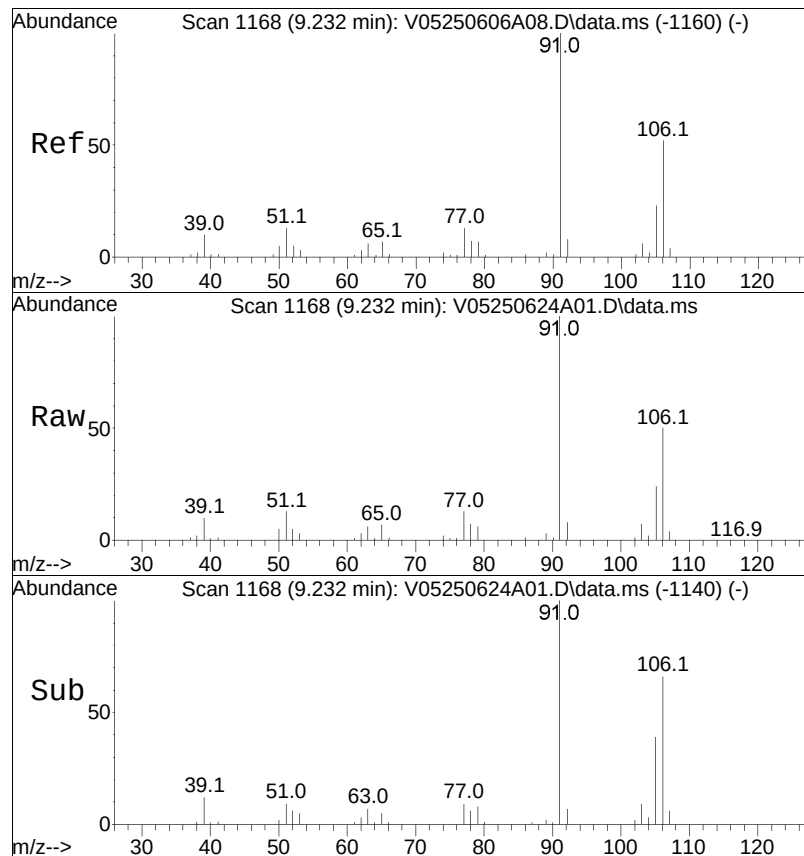




#74
 Ethylbenzene
 Concen: 9.04 ug/L
 RT: 9.041 min Scan# 1141
 Delta R.T. 0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

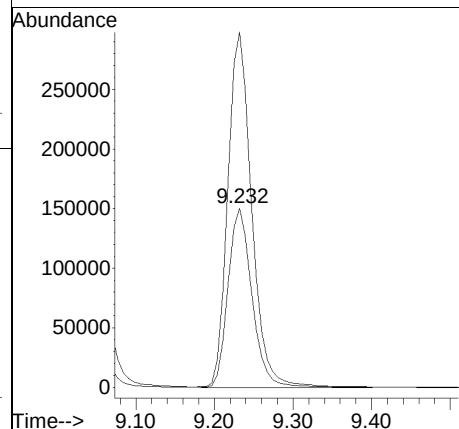
Tgt	Ion	Resp	Lower	Upper
91	100	397179		
106	32.2	25.7	38.5	

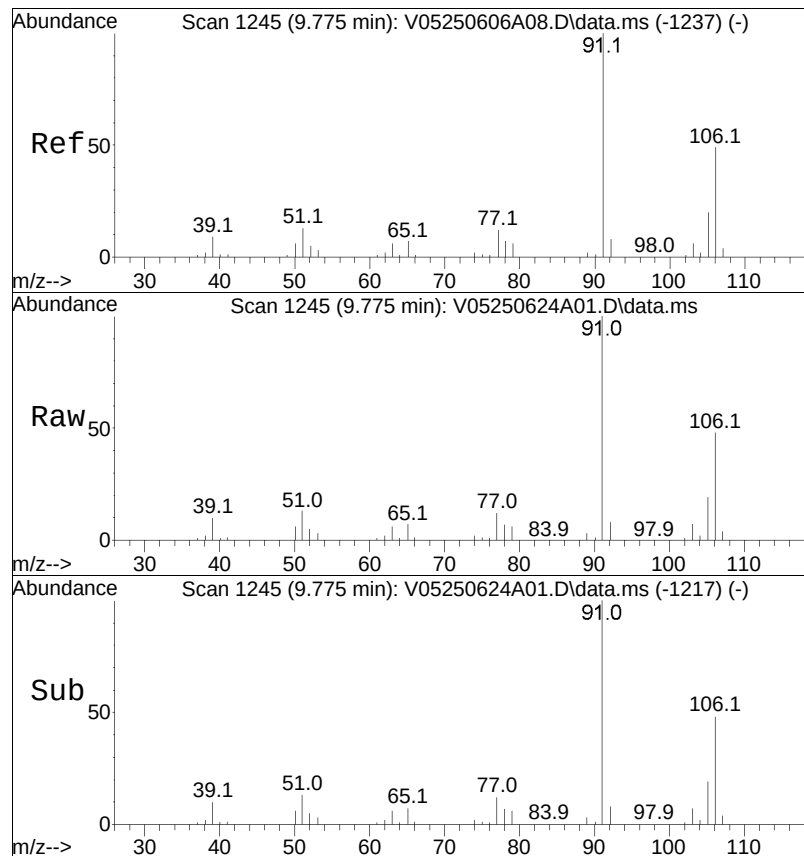




#76
 p/m Xylene
 Concen: 18.89 ug/L
 RT: 9.232 min Scan# 1168
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

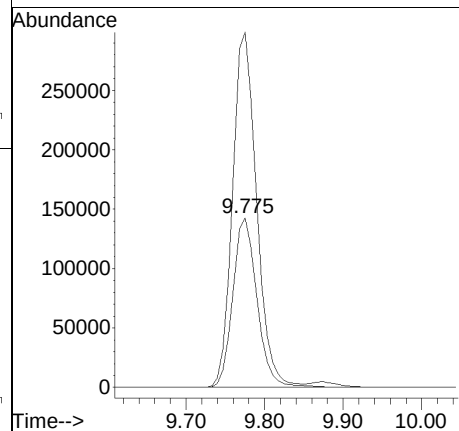
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	195.7	155.4	233.0	

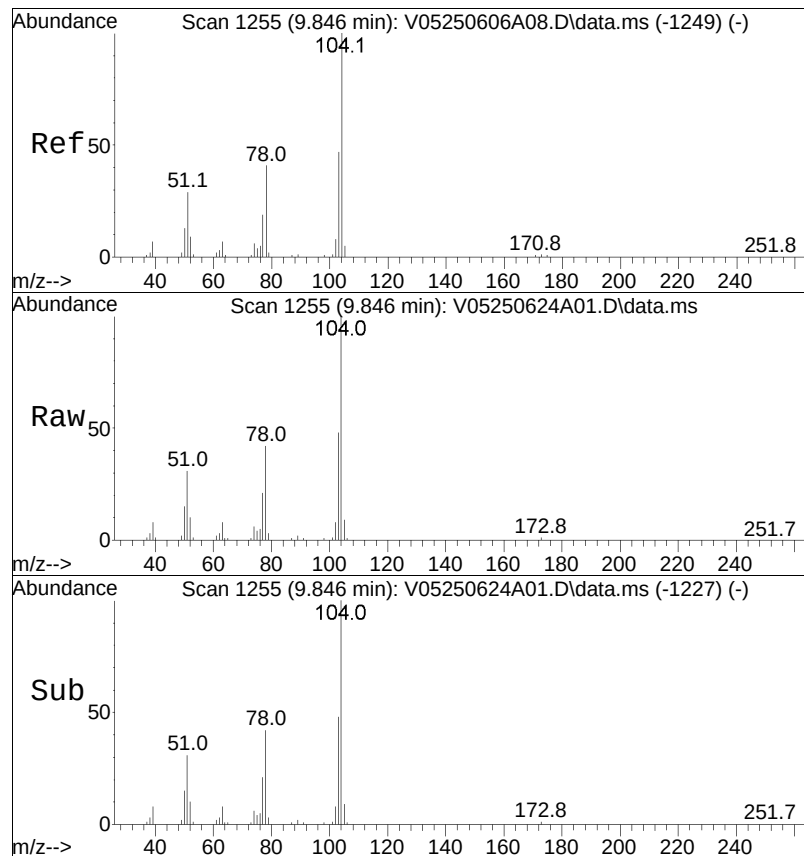




#77
 o Xylene
 Concen: 18.53 ug/L
 RT: 9.775 min Scan# 1245
 Delta R.T. 0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

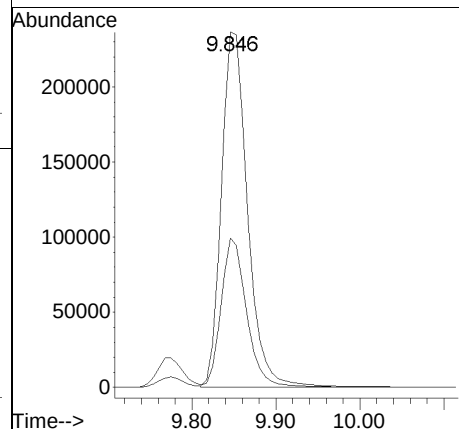
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	208.3	165.6	248.4	

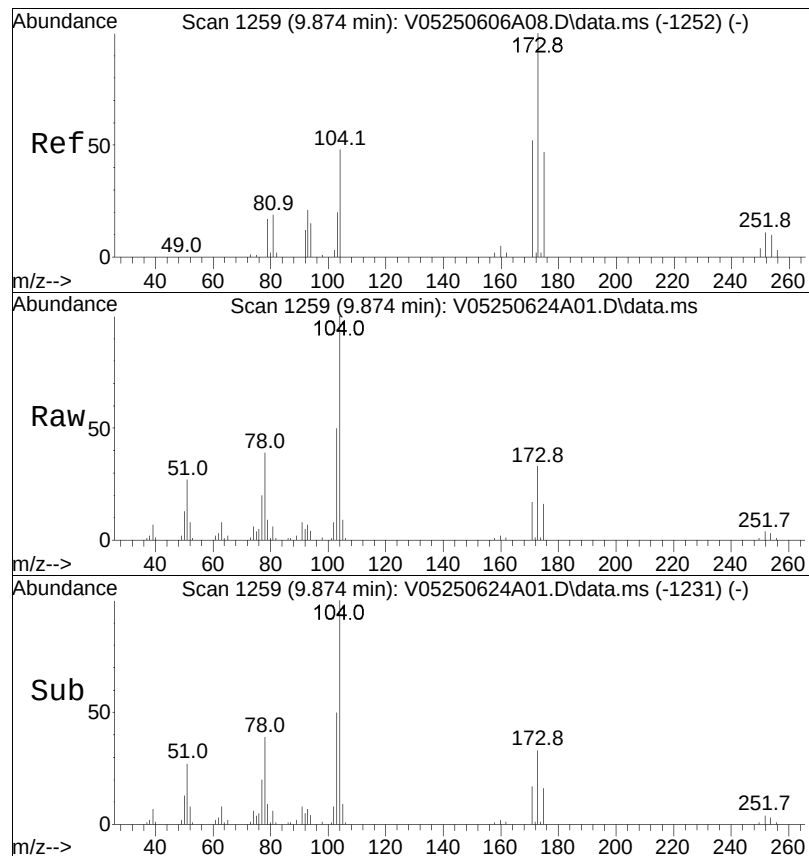




#78
 Styrene
 Concen: 19.00 ug/L
 RT: 9.846 min Scan# 1255
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

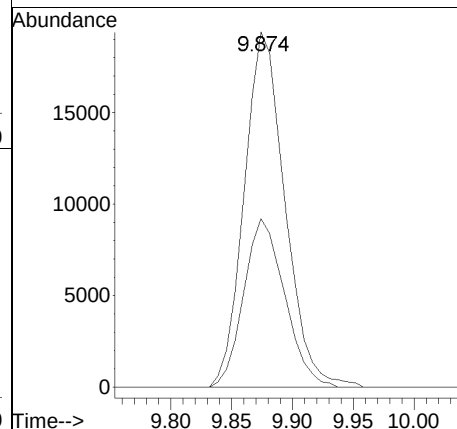
Tgt Ion	Ratio	Lower	Upper
104	100		
78	41.2	33.8	50.6

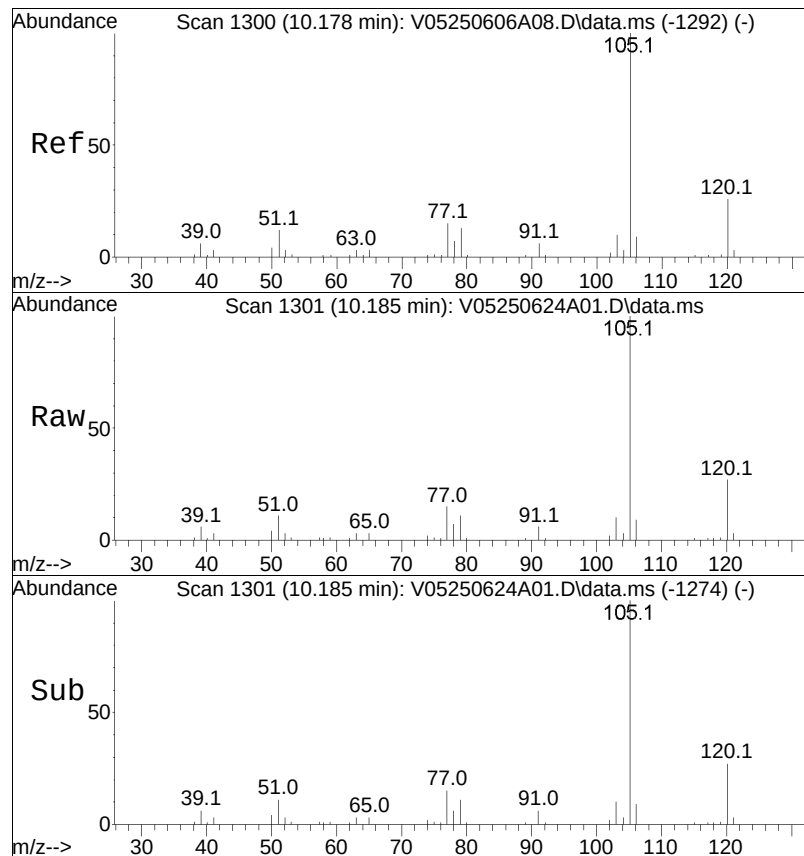




#80
 Bromoform
 Concen: 8.37 ug/L
 RT: 9.874 min Scan# 1259
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

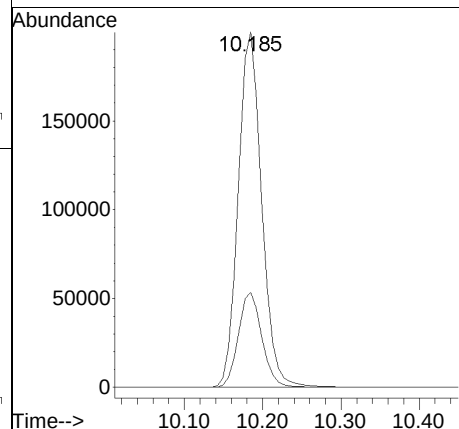
Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.8	28.6	68.6

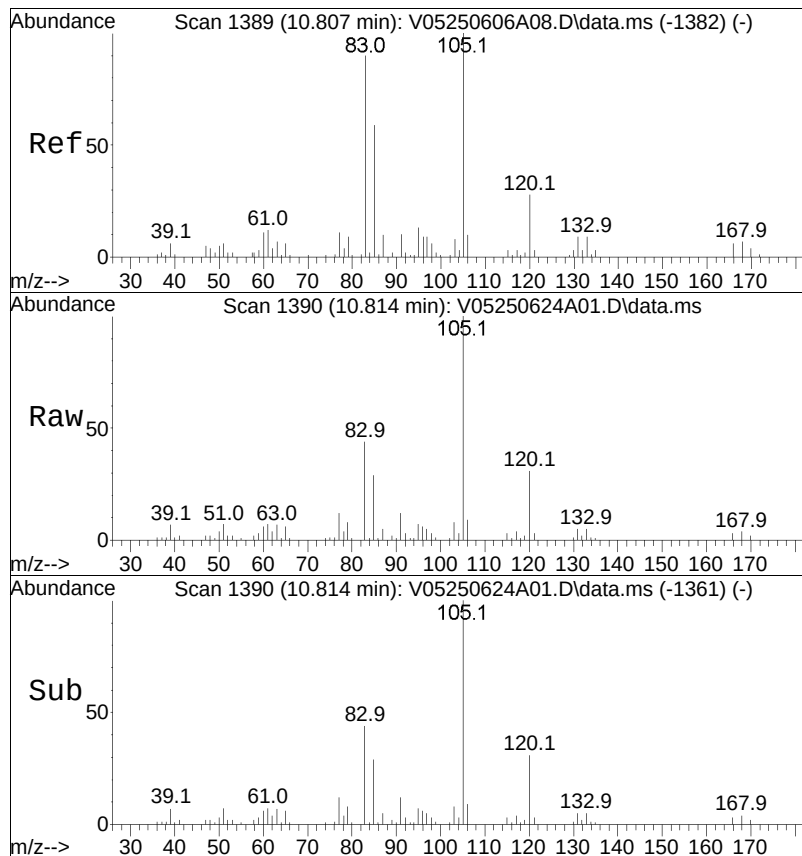




#82
 Isopropylbenzene
 Concen: 8.08 ug/L
 RT: 10.185 min Scan# 1301
 Delta R.T. 0.007 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

Tgt	Ion	Resp	Lower	Upper
105	100	416383		
120	26.8	6.2	46.2	





#87

1,1,2,2-Tetrachloroethane

Concen: 8.34 ug/L

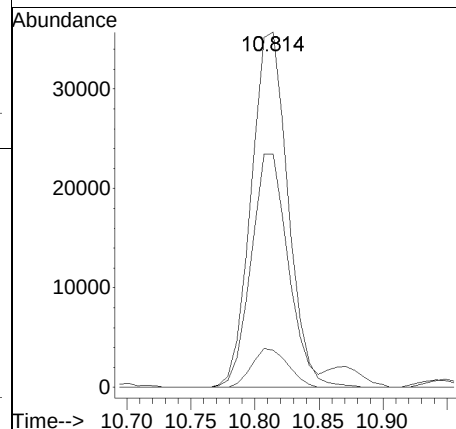
RT: 10.814 min Scan# 1390

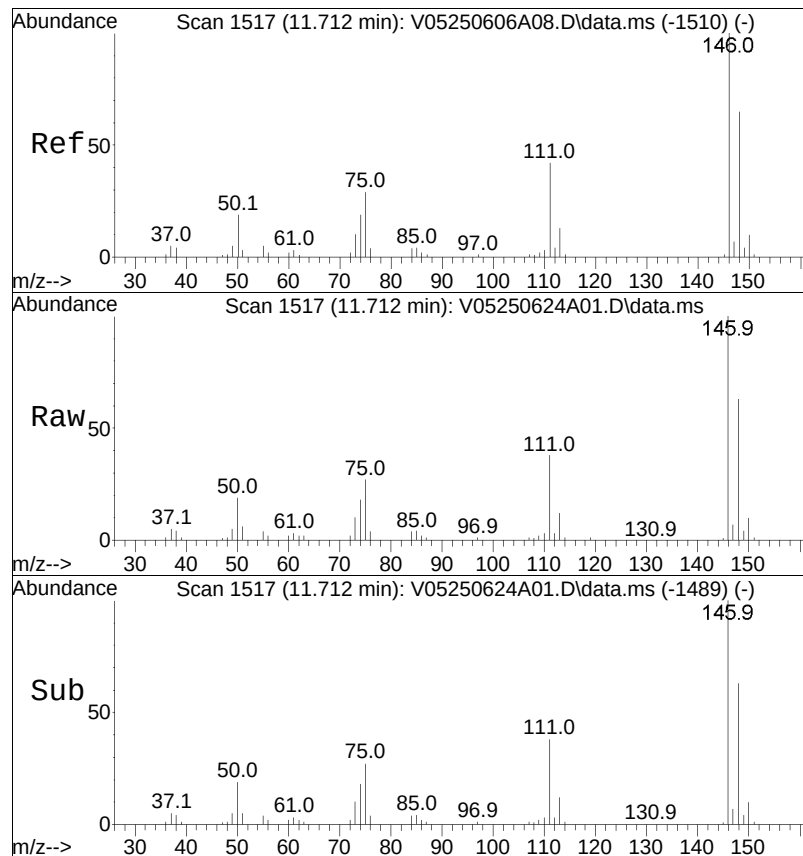
Delta R.T. 0.007 min

Lab File: V05250624A01.D

Acq: 24 Jun 2025 7:34 am

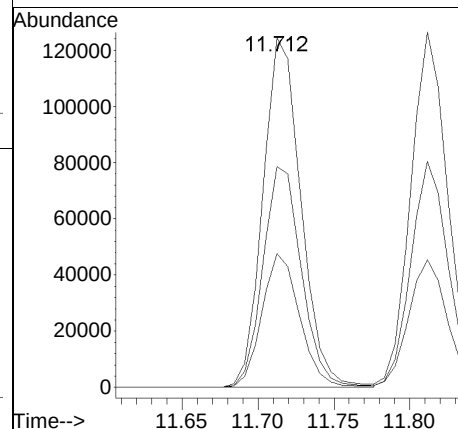
Tgt	Ion: 83	Resp:	71416
Ion	Ratio	Lower	Upper
83	100		
131	10.8	0.0	29.8
85	66.4	46.1	86.1

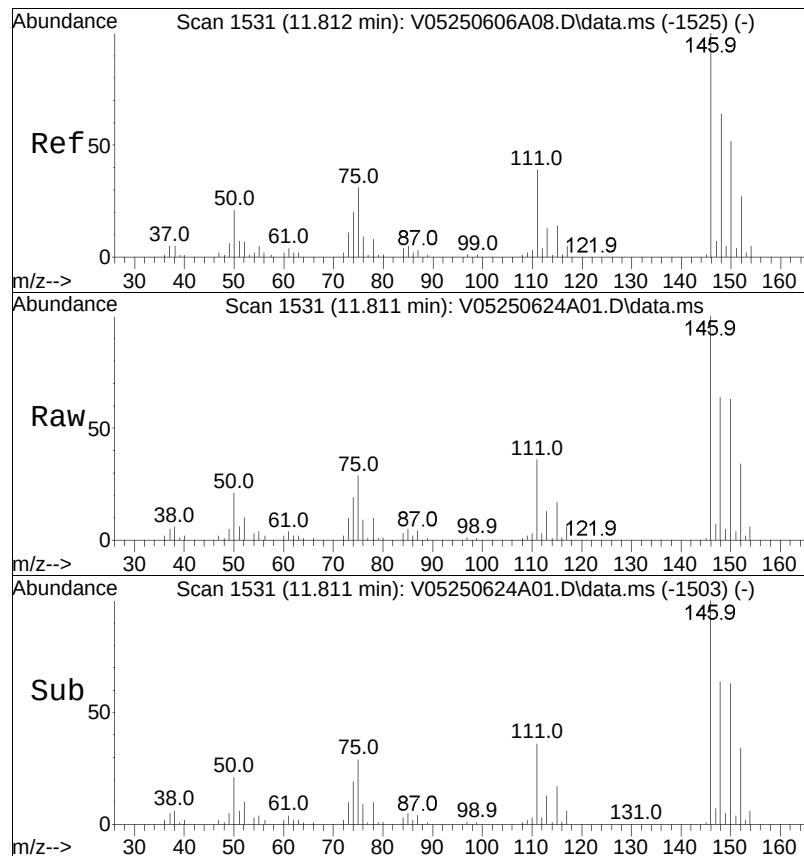




#100
 1,3-Dichlorobenzene
 Concen: 9.65 ug/L
 RT: 11.712 min Scan# 1517
 Delta R.T. 0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

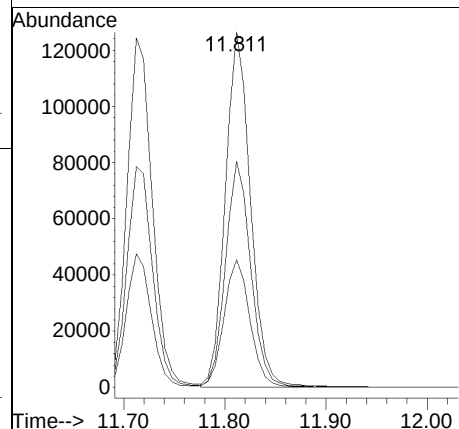
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.9	26.7	55.5
148	63.9	41.7	86.7

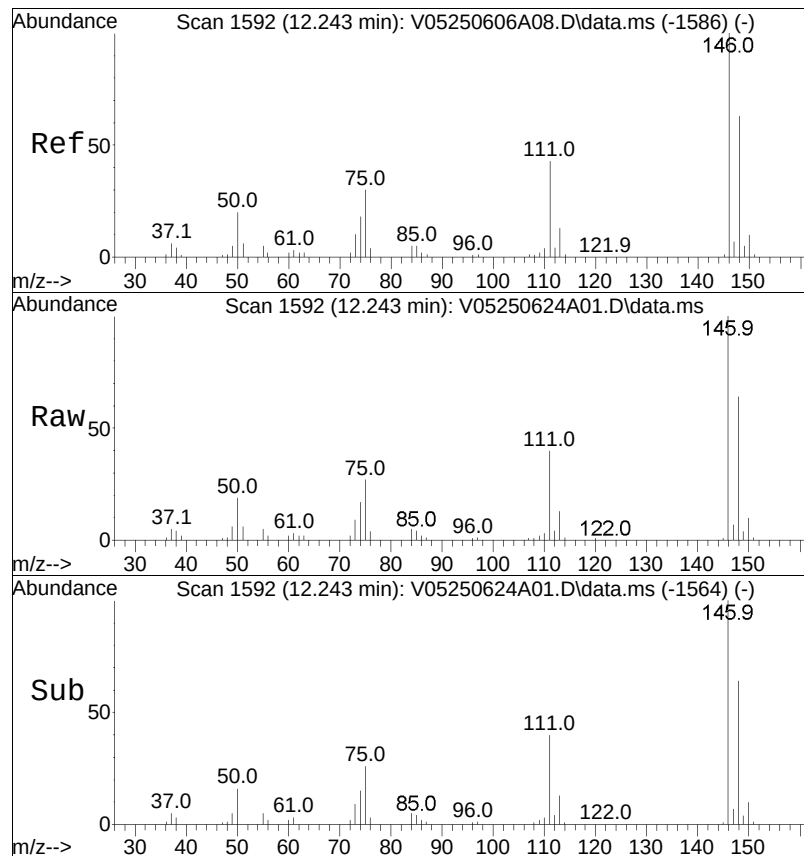




#101
 1,4-Dichlorobenzene
 Concen: 9.52 ug/L
 RT: 11.811 min Scan# 1531
 Delta R.T. -0.001 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

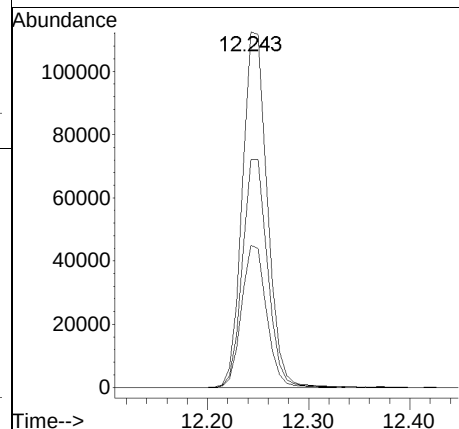
Tgt	Ion	Ratio	Resp	Lower	Upper
146	100		218241		
111	37.5	31.9		47.9	
148	64.4	50.9		76.3	

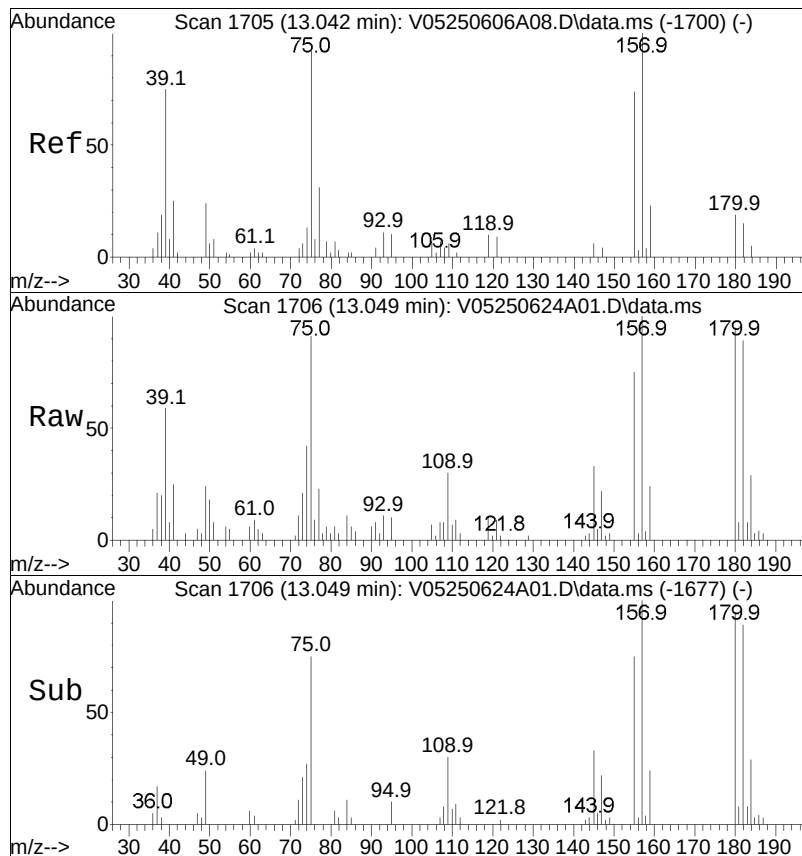




#104
 1,2-Dichlorobenzene
 Concen: 9.52 ug/L
 RT: 12.243 min Scan# 1592
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

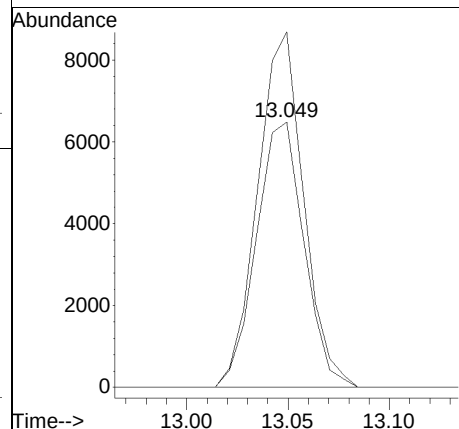
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.9	27.1	56.3
148	64.3	41.1	85.3

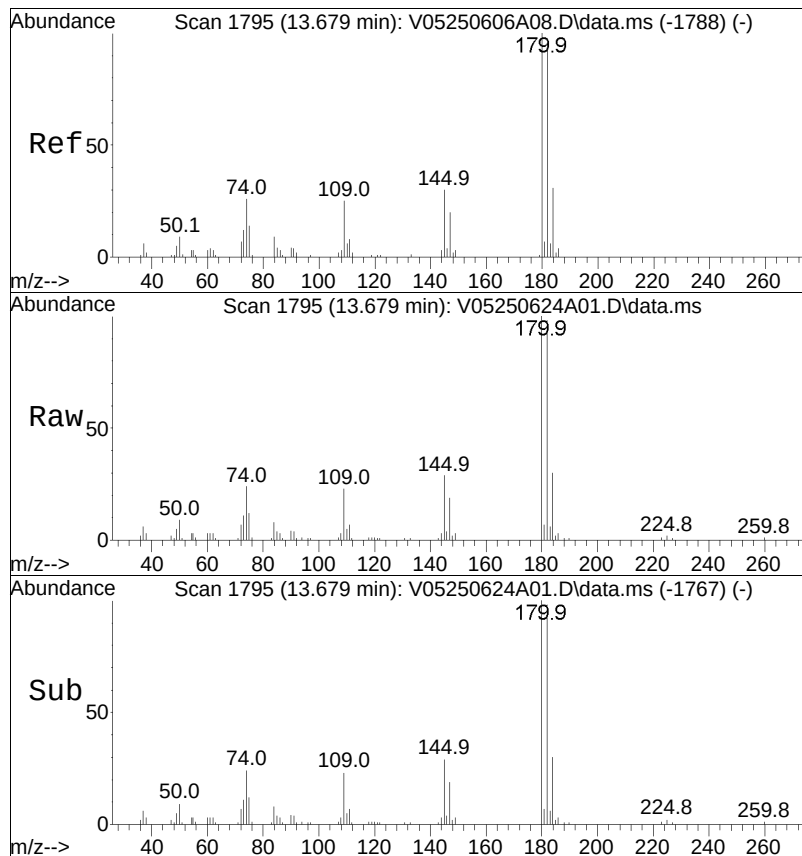




#106
 1,2-Dibromo-3-chloropropane
 Concen: 8.33 ug/L
 RT: 13.049 min Scan# 1706
 Delta R.T. 0.007 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

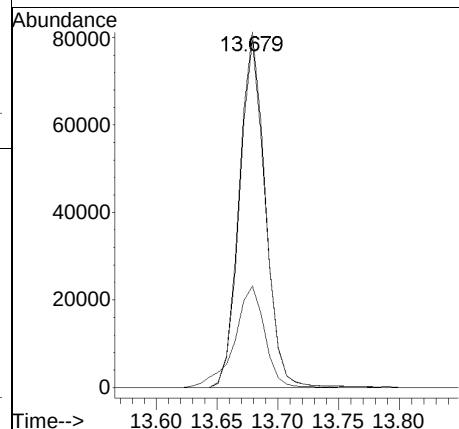
Tgt Ion:155 Resp: 10635
 Ion Ratio Lower Upper
 155 100
 157 129.0 103.8 155.6

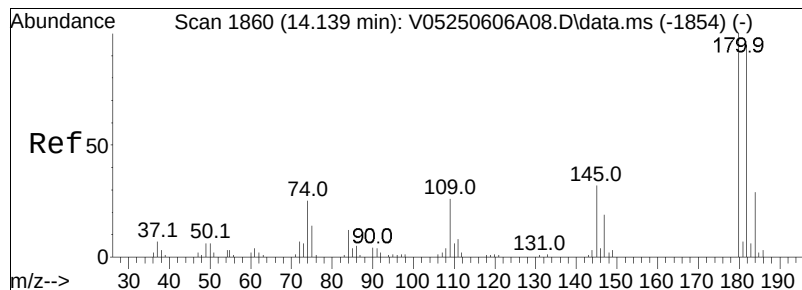




#109
 1,2,4-Trichlorobenzene
 Concen: 9.42 ug/L
 RT: 13.679 min Scan# 1795
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

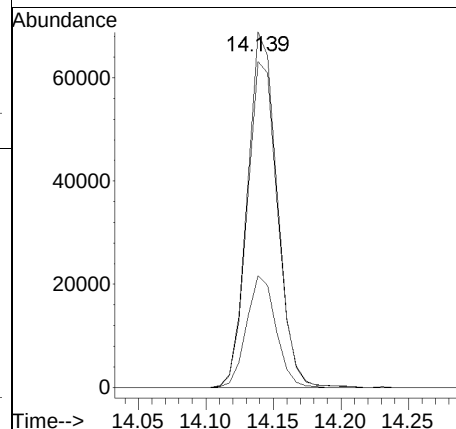
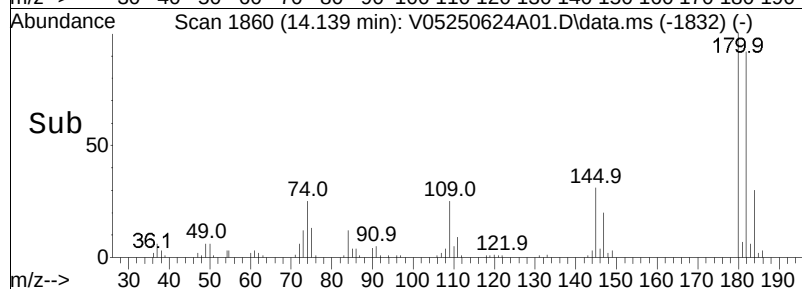
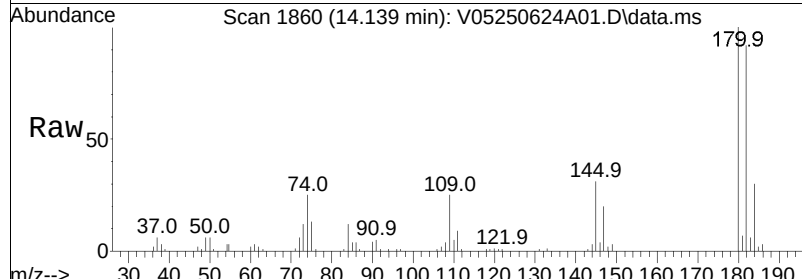
Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.0	114.0
145	32.8	27.3	40.9





#111
 1,2,3-Trichlorobenzene
 Concen: 9.70 ug/L
 RT: 14.139 min Scan# 1860
 Delta R.T. -0.000 min
 Lab File: V05250624A01.D
 Acq: 24 Jun 2025 7:34 am

Tgt Ion:	180	Resp:	105575
Ion Ratio	Lower	Upper	
180	100		
182	94.0	75.8	113.8
145	30.9	25.9	38.9



Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A01.d
 Acq On : 24 Jun 2025 7:36 am
 Operator : VOA108:PID
 Sample : WG2083759-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:25:05 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.906	96	263696	10.000	ug/L	0.00
59) Chlorobenzene-d5	9.410	117	211062	10.000	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	12.130	152	135210	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	5.109	113	83968	9.885	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.85%		
43) 1,2-Dichloroethane-d4	5.619	65	80890	9.969	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.69%		
60) Toluene-d8	7.576	98	264030	10.236	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.36%		
83) 4-Bromofluorobenzene	10.909	95	93544	10.148	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.48%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	66530	10.075	ug/L	99
3) Chloromethane	1.804	50	61899	9.017	ug/L	97
4) Vinyl chloride	1.877	62	83307	10.174	ug/L	95
5) Bromomethane	2.176	94	36098	6.108	ug/L	99
6) Chloroethane	2.282	64	68144	11.548	ug/L	99
7) Trichlorofluoromethane	2.422	101	210486	10.941	ug/L	98
10) 1,1-Dichloroethene	2.901	96	100333	11.280	ug/L	99
11) Carbon disulfide	2.927	76	337389	12.600	ug/L	99
12) Freon-113	2.934	101	114486	13.113	ug/L	97
15) Methylene chloride	3.440	84	65591	8.849	ug/L	95
17) Acetone	3.479	43	14152	10.698	ug/L	93
18) trans-1,2-Dichloroethene	3.586	96	63522	9.551	ug/L	96
19) Methyl acetate	3.592	43	35262	10.979	ug/L	95
20) Methyl tert-butyl ether	3.686	73	156791	9.759	ug/L	98
23) 1,1-Dichloroethane	4.158	63	119483	9.867	ug/L	97
28) cis-1,2-Dichloroethene	4.670	96	71498	9.396	ug/L	96
30) Bromochloromethane	4.856	128	39481	8.977	ug/L	95
31) Cyclohexane	4.863	56	99350	10.067	ug/L	92
32) Chloroform	4.929	83	121938	8.986	ug/L	96
34) Carbon tetrachloride	5.062	117	108537	9.825	ug/L	98
37) 1,1,1-Trichloroethane	5.129	97	113321	10.037	ug/L	98
39) 2-Butanone	5.215	43	20420	10.318	ug/L	93
41) Benzene	5.489	78	262657	9.794	ug/L	100
44) 1,2-Dichloroethane	5.694	62	80660	9.707	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A01.d
 Acq On : 24 Jun 2025 7:36 am
 Operator : VOA108:PID
 Sample : WG2083759-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:25:05 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47)	Methyl cyclohexane	6.070	83	95557	9.511	ug/L	96
48)	Trichloroethene	6.077	95	68766	9.307	ug/L	97
51)	1,2-Dichloropropane	6.618	63	63755	10.001	ug/L	97
54)	Bromodichloromethane	6.686	83	92736	9.762	ug/L	98
58)	cis-1,3-Dichloropropene	7.371	75	97030	10.146	ug/L	97
61)	Toluene	7.637	92	150290	9.334	ug/L	97
62)	4-Methyl-2-pentanone	8.068	58	13308	10.084	ug/L	100
63)	Tetrachloroethene	8.082	166	68829	9.087	ug/L	96
65)	trans-1,3-Dichloropropene	8.116	75	83928	10.487	ug/L	91
68)	1,1,2-Trichloroethane	8.301	83	44091	9.731	ug/L	99
69)	Chlorodibromomethane	8.513	129	72090	9.627	ug/L	99
71)	1,2-Dibromoethane	8.780	107	53648	10.890	ug/L	99
72)	2-Hexanone	9.074	43	26193	9.464	ug/L	97
73)	Chlorobenzene	9.430	112	184498	9.167	ug/L	98
74)	Ethylbenzene	9.471	91	297651	9.221	ug/L	100
76)	p/m Xylene	9.656	106	244869	17.345	ug/L	99
77)	o Xylene	10.196	106	238653	17.112	ug/L	95
78)	Styrene	10.265	104	378196	15.263	ug/L	99
80)	Bromoform	10.292	173	42852	8.332	ug/L	93
82)	Isopropylbenzene	10.587	105	311525	8.716	ug/L	99
87)	1,1,2,2-Tetrachloroethane	11.163	83	68699	10.158	ug/L	94
100)	1,3-Dichlorobenzene	12.055	146	168464	8.442	ug/L	98
101)	1,4-Dichlorobenzene	12.144	146	176871	8.703	ug/L	98
104)	1,2-Dichlorobenzene	12.569	146	163164	8.901	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.351	155	10686	9.982	ug/L	95
109)	1,2,4-Trichlorobenzene	13.982	180	99550	8.273	ug/L	100
111)	1,2,3-Trichlorobenzene	14.442	180	89082	8.249	ug/L	98

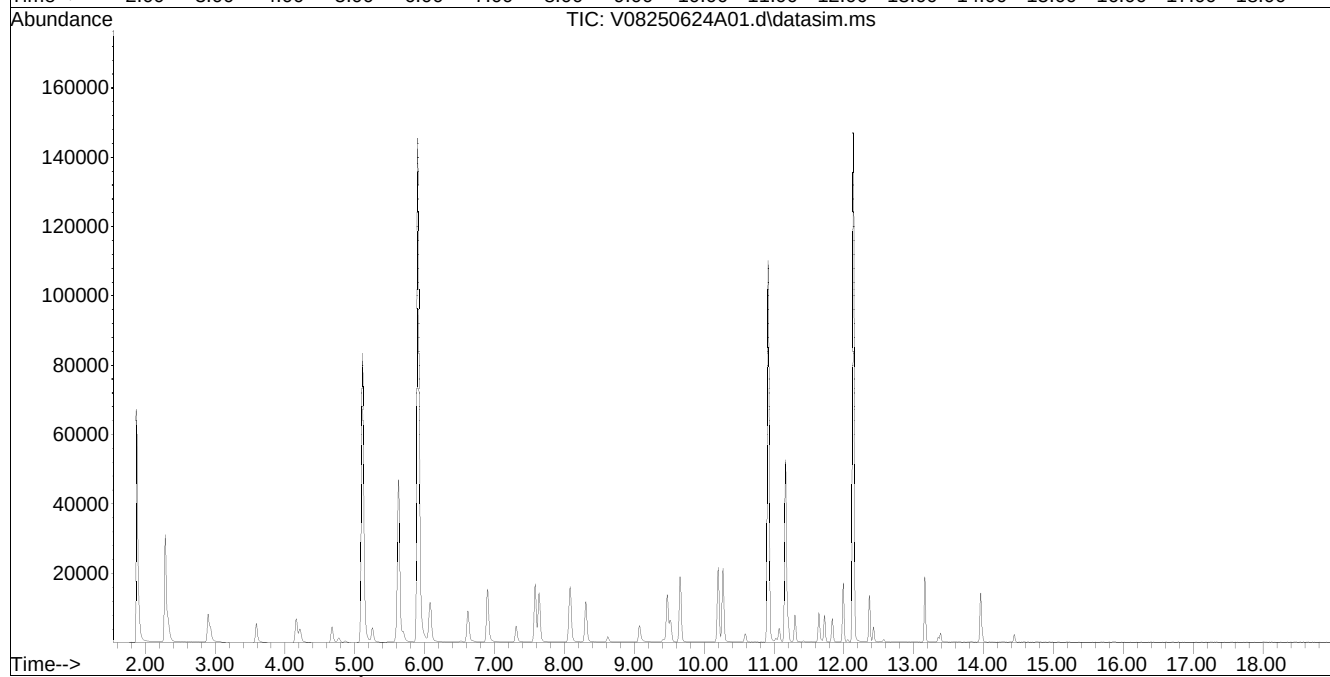
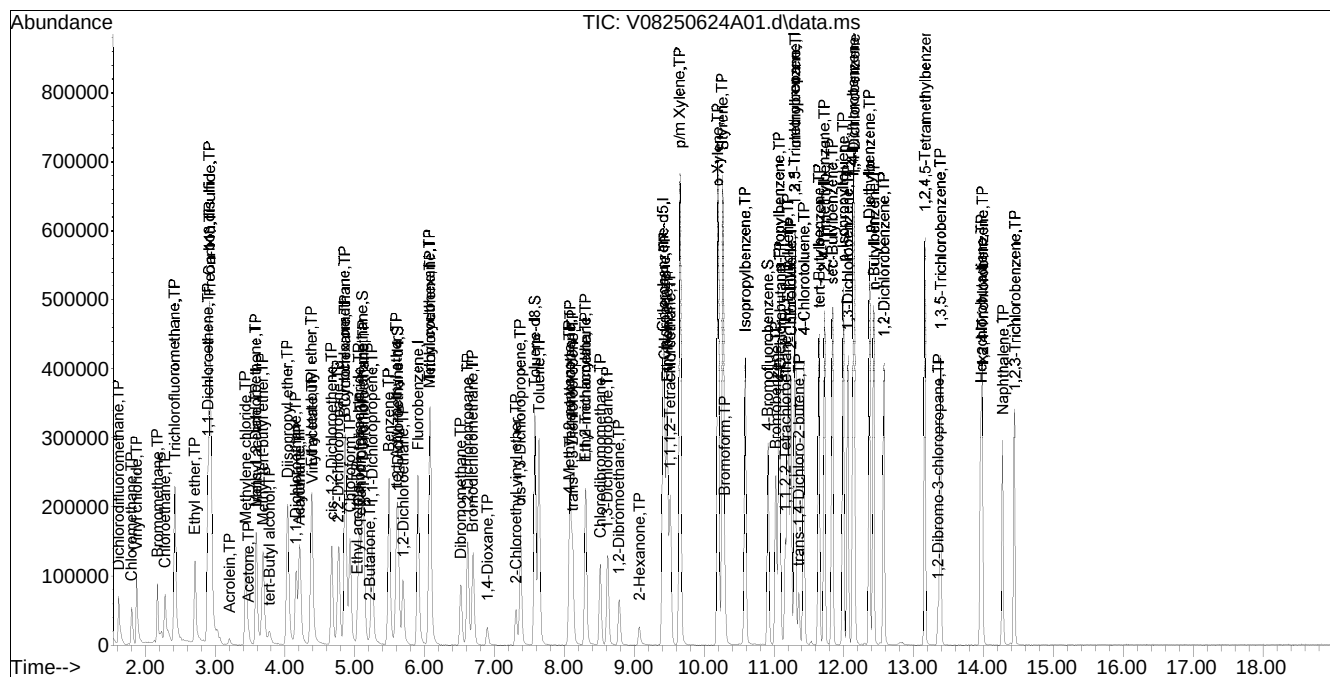
(#) = qualifier out of range (m) = manual integration (+) = signals summed

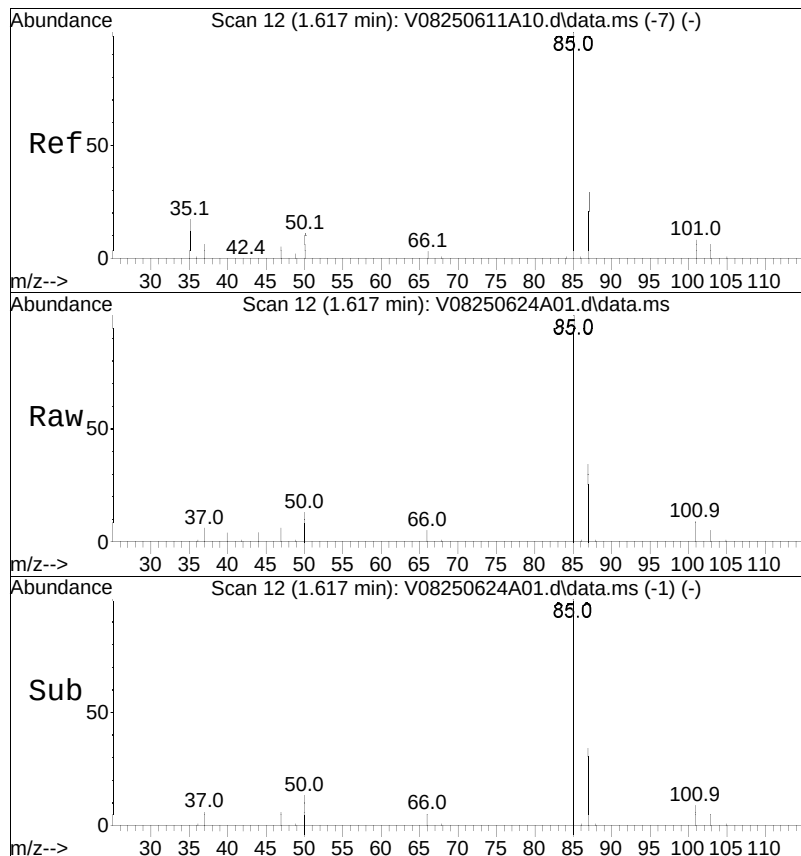
(QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
Data File : V08250624A01.d
Acq On : 24 Jun 2025 7:36 am
Operator : VOA108:PID
Sample : WG2083759-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:25:05 2025
Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 11 15:00:39 2025
Response via : Initial Calibration

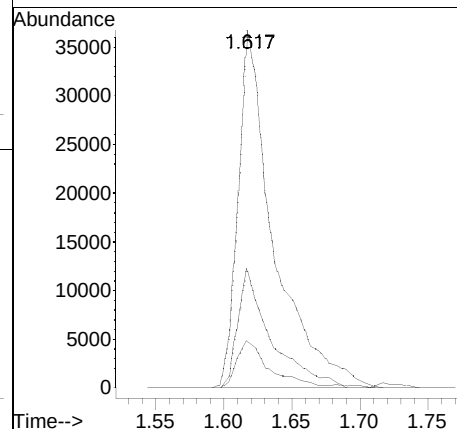
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

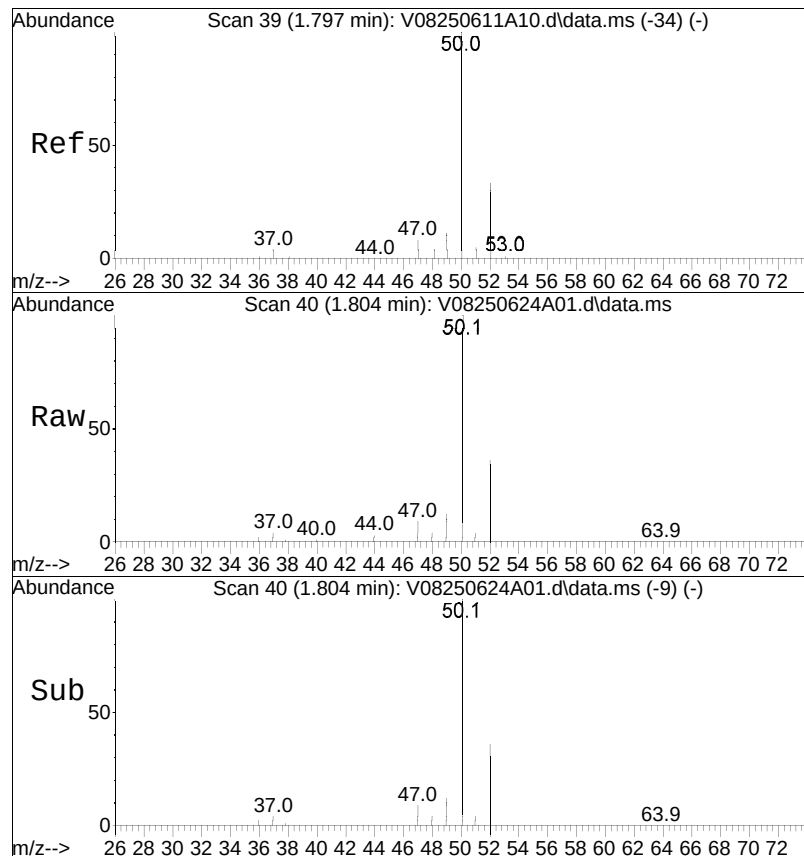




#2
 Dichlorodifluoromethane
 Concen: 10.07 ug/L
 RT: 1.617 min Scan# 12
 Delta R.T. 0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

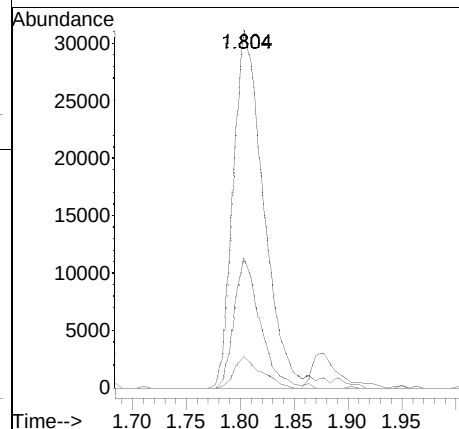
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	66530		
87	31.6		20.8	43.2
50	12.7		8.4	17.4

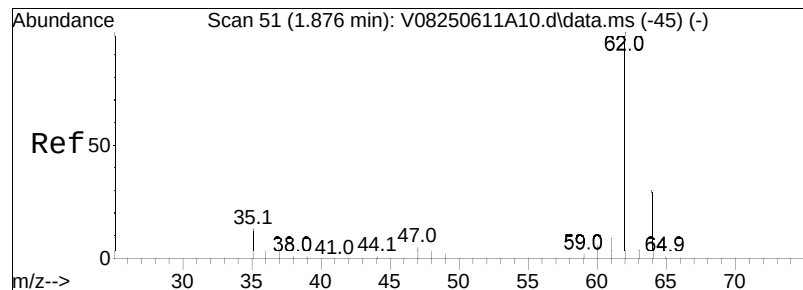




#3
 Chloromethane
 Concen: 9.02 ug/L
 RT: 1.804 min Scan# 40
 Delta R.T. 0.007 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

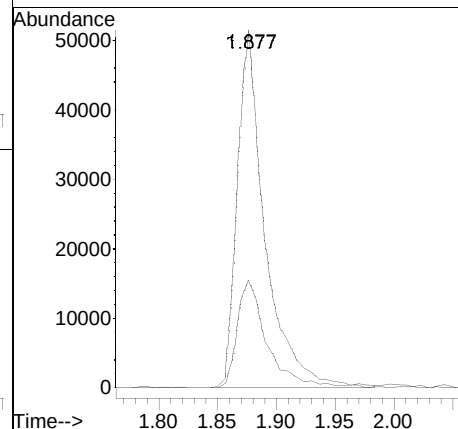
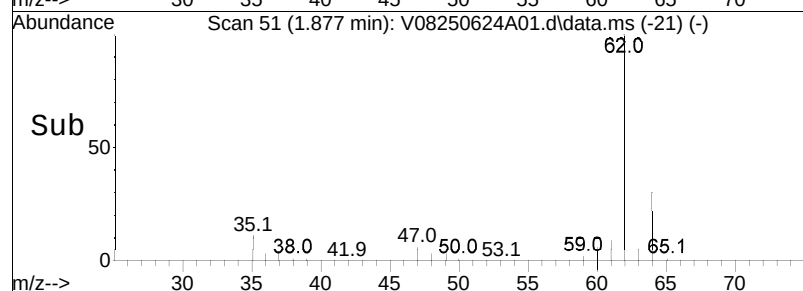
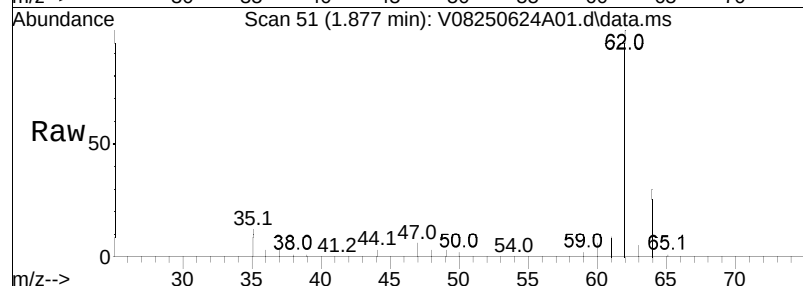
Tgt Ion:	50	Resp:	61899
Ion Ratio	Lower	Upper	
50	100		
52	30.7	12.4	52.4
47	7.6	0.0	28.0

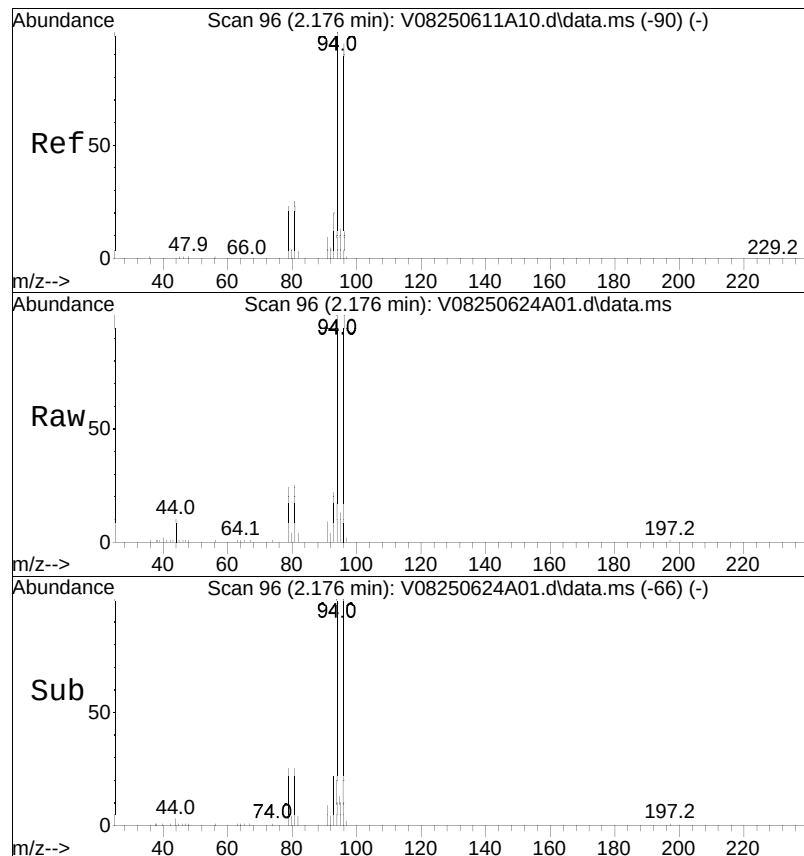




#4
 Vinyl chloride
 Concen: 10.17 ug/L
 RT: 1.877 min Scan# 51
 Delta R.T. 0.001 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

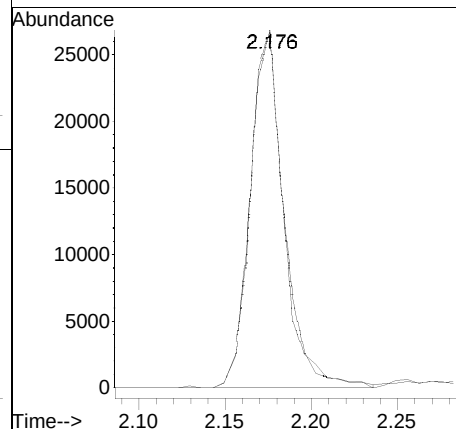
Tgt Ion	Ratio	Lower	Upper
62	100		
64	33.0	10.5	50.5

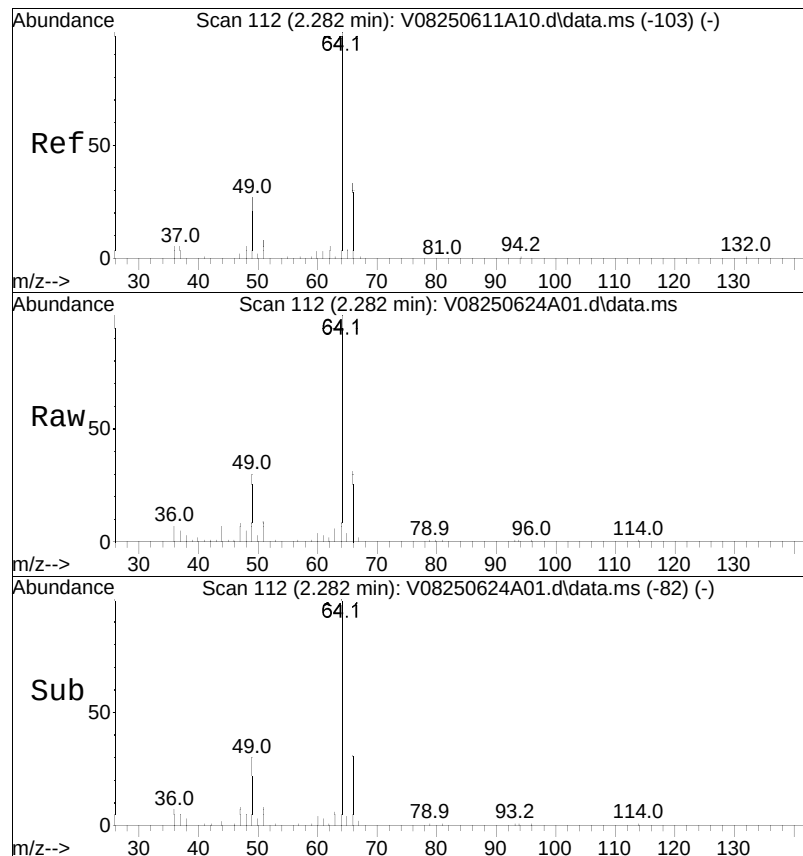




#5
 Bromomethane
 Concen: 6.11 ug/L
 RT: 2.176 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

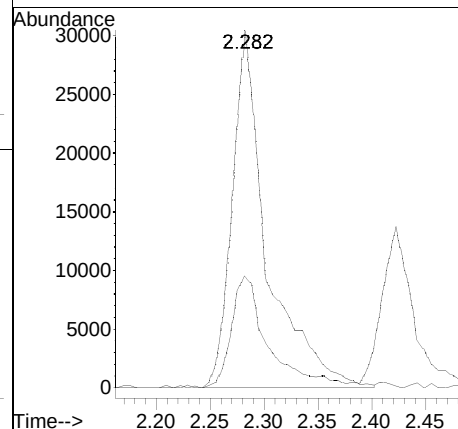
Tgt Ion	Ratio	Lower	Upper
94	100		
96	98.8	77.7	117.7

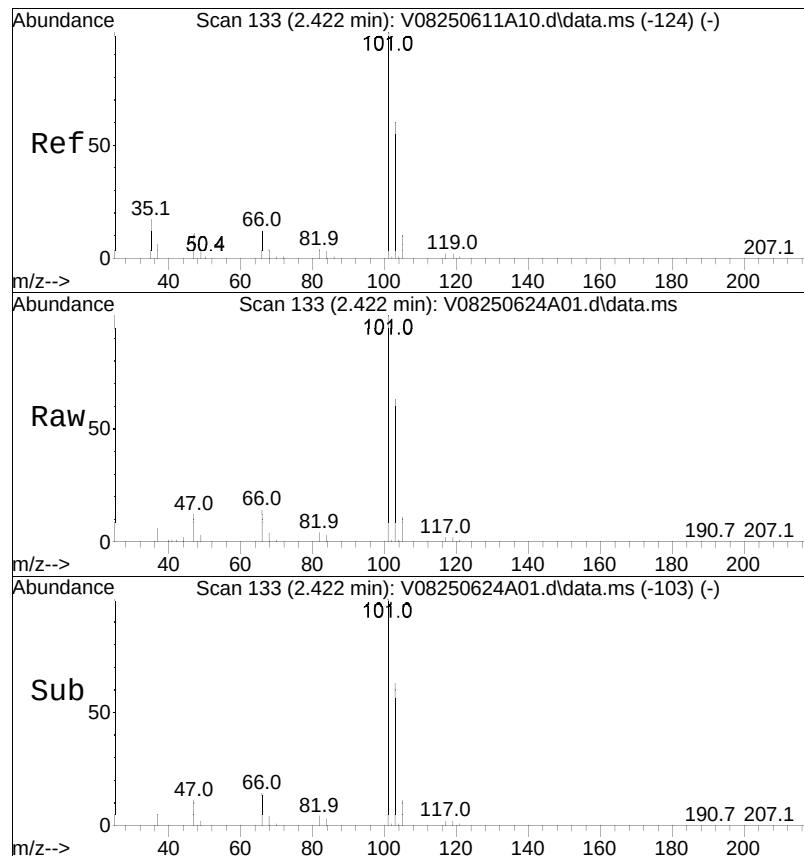




#6
 Chloroethane
 Concen: 11.55 ug/L
 RT: 2.282 min Scan# 112
 Delta R.T. 0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

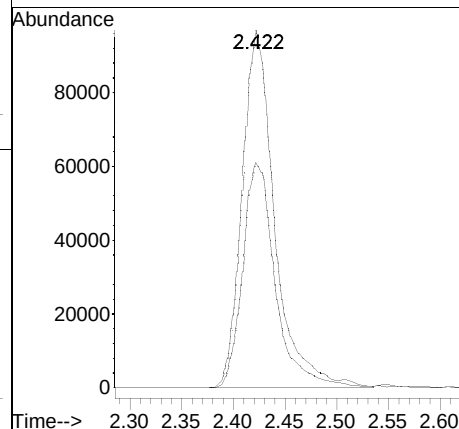
Tgt Ion: 64 Resp: 68144
 Ion Ratio Lower Upper
 64 100
 66 33.1 13.7 53.7

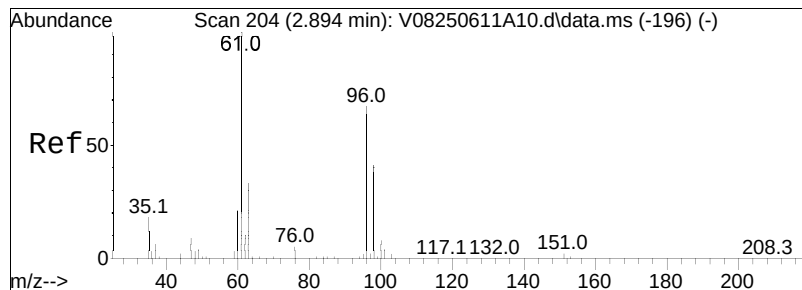




#7
 Trichlorofluoromethane
 Concen: 10.94 ug/L
 RT: 2.422 min Scan# 133
 Delta R.T. 0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

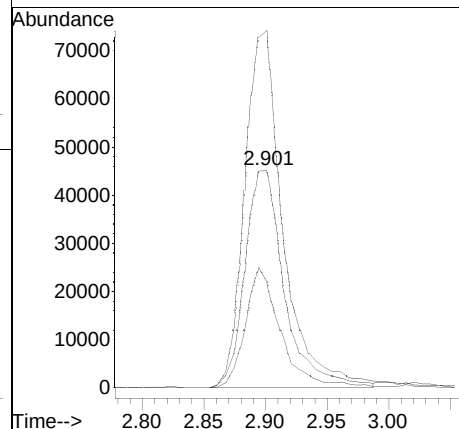
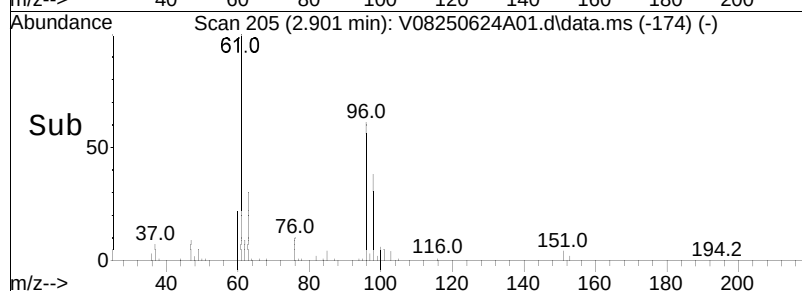
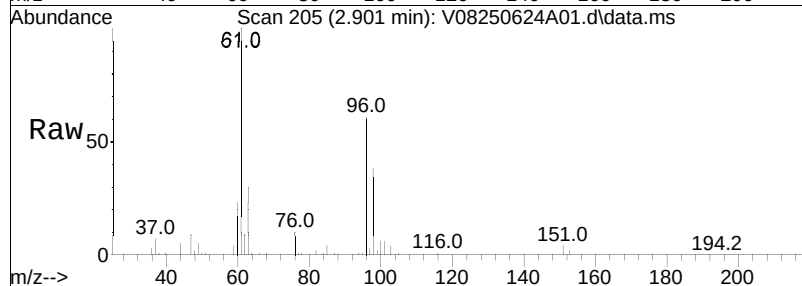
Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.8	49.8	74.6

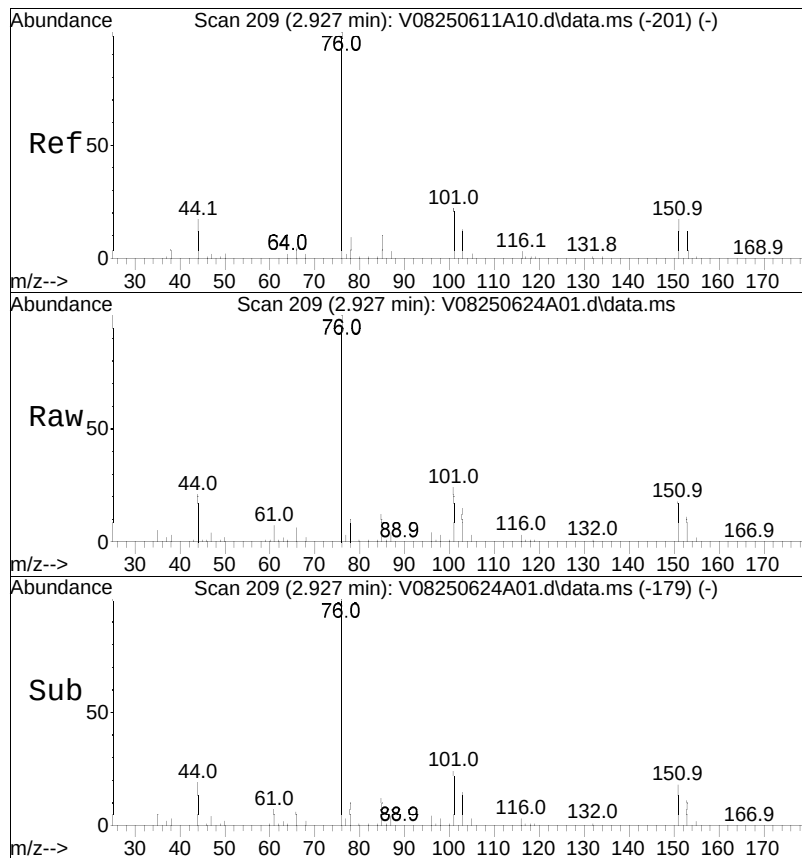




#10
 1,1-Dichloroethene
 Concen: 11.28 ug/L
 RT: 2.901 min Scan# 205
 Delta R.T. 0.007 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

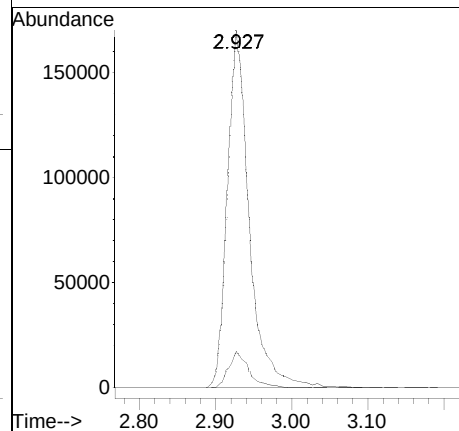
Tgt Ion:	96	Resp:	100333
Ion Ratio	Lower	Upper	
96	100		
61	160.4	129.4	194.2
63	49.7	39.0	58.6

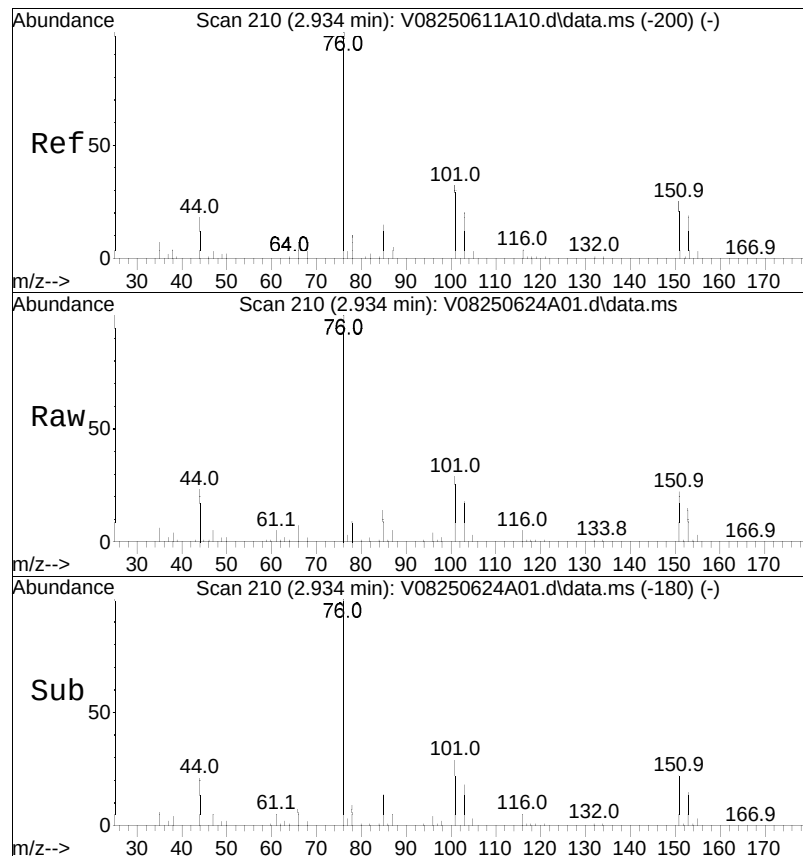




#11
Carbon disulfide
Concen: 12.60 ug/L
RT: 2.927 min Scan# 209
Delta R.T. 0.000 min
Lab File: V08250624A01.d
Acq: 24 Jun 2025 7:36 am

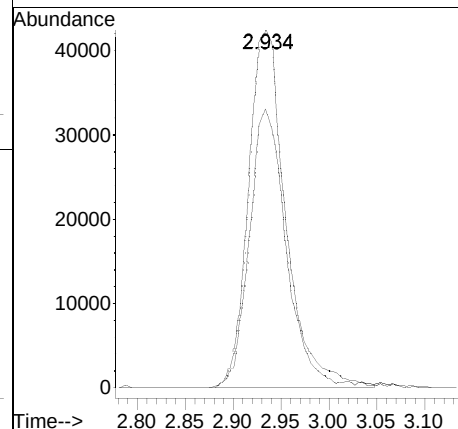
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.8	6.0	12.6

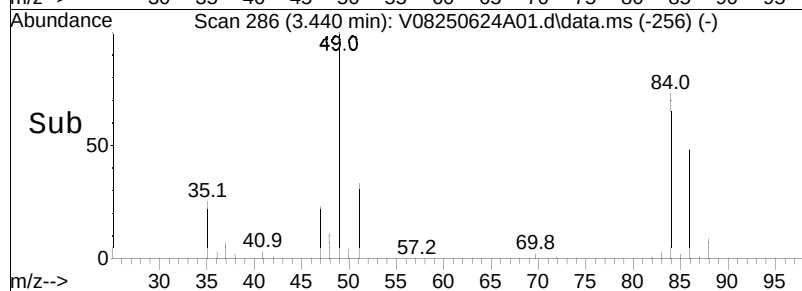
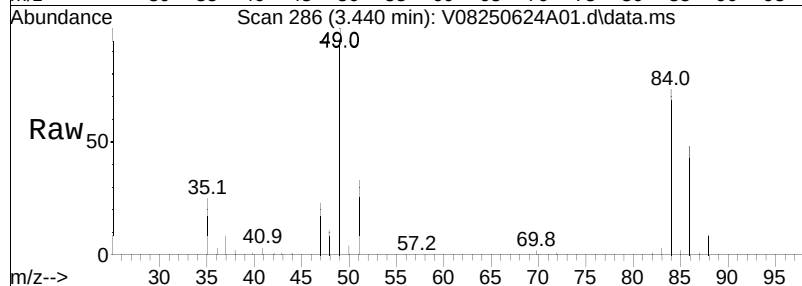
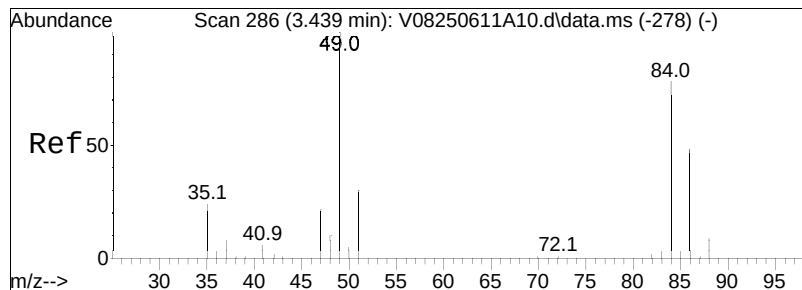




#12
 Freon-113
 Concen: 13.11 ug/L
 RT: 2.934 min Scan# 210
 Delta R.T. 0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

Tgt	Ion	Ratio	Lower	Upper
101	100			
151	76.4	63.5	95.3	





#15

Methylene chloride

Concen: 8.85 ug/L

RT: 3.440 min Scan# 286

Delta R.T. 0.001 min

Lab File: V08250624A01.d

Acq: 24 Jun 2025 7:36 am

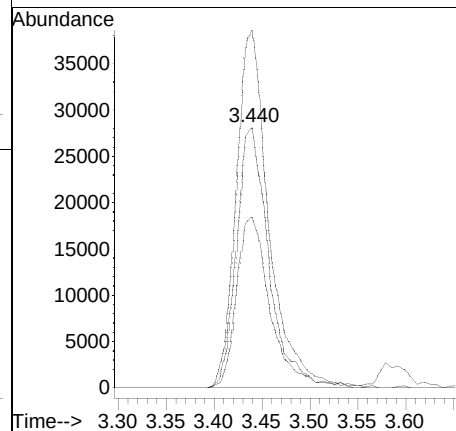
Tgt Ion: 84 Resp: 65591

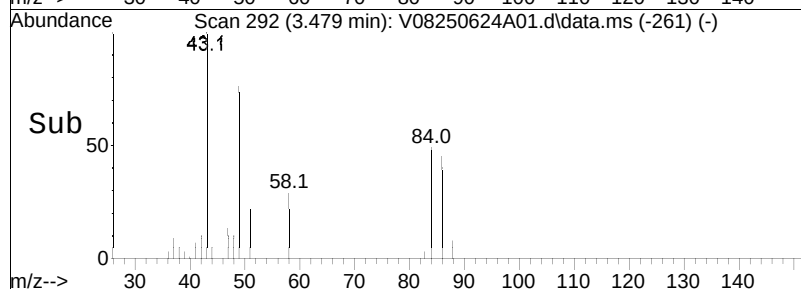
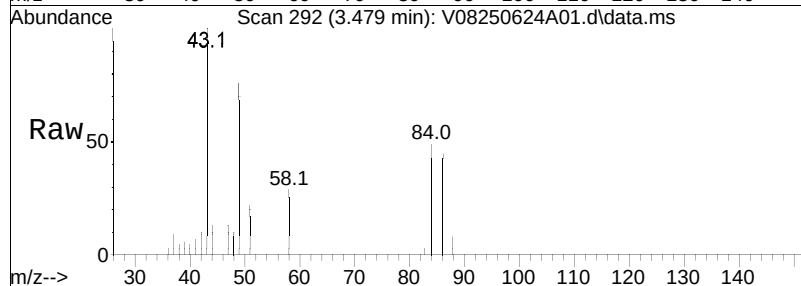
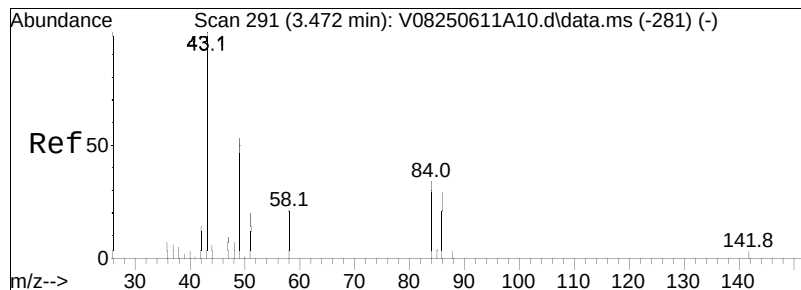
Ion Ratio Lower Upper

84 100

86 68.3 41.1 85.5

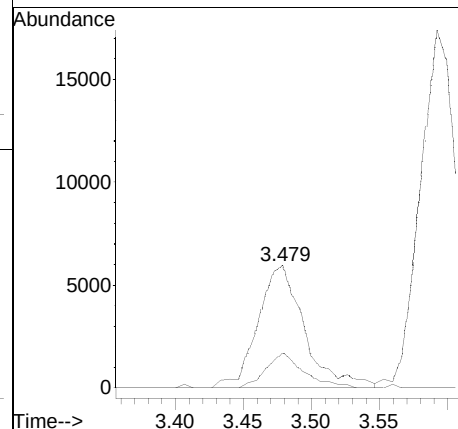
49 138.5 87.2 181.0

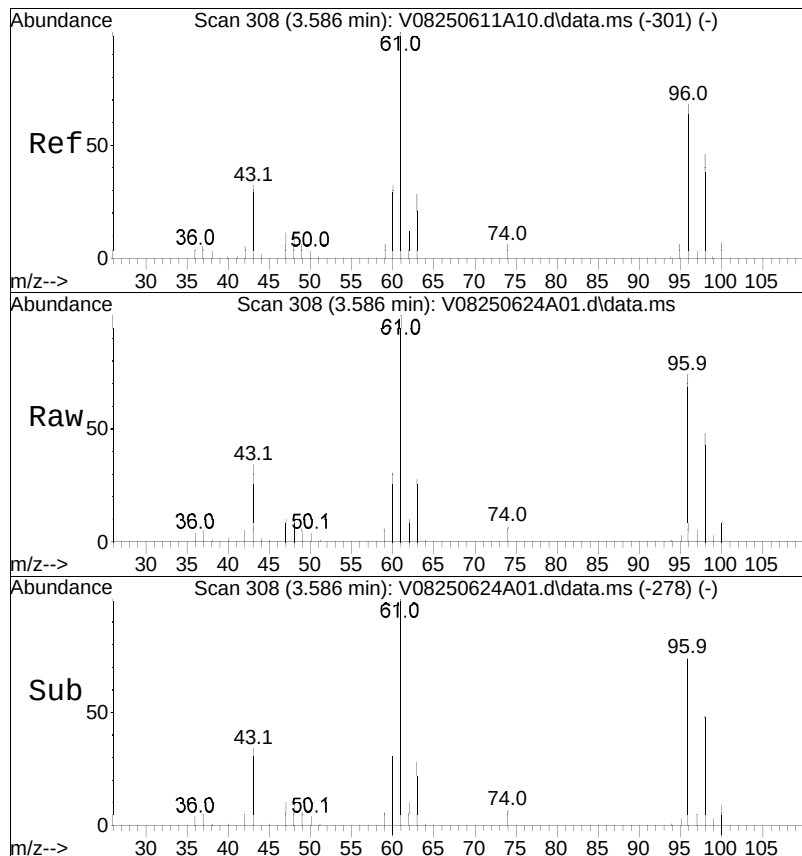




#17
Acetone
Concen: 10.70 ug/L
RT: 3.479 min Scan# 292
Delta R.T. 0.007 min
Lab File: V08250624A01.d
Acq: 24 Jun 2025 7:36 am

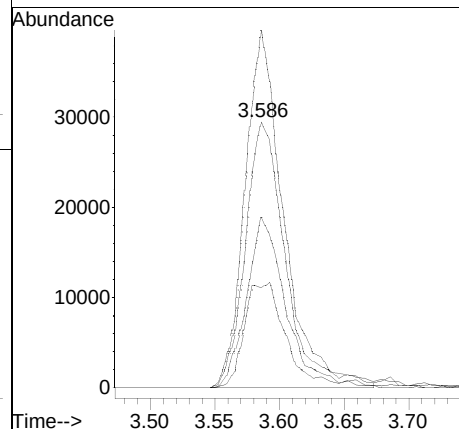
Tgt Ion:	43	58	Ratio	100	23.2	Resp:	14152	Lower	Upper
43	100								
58		23.2						21.6	32.4

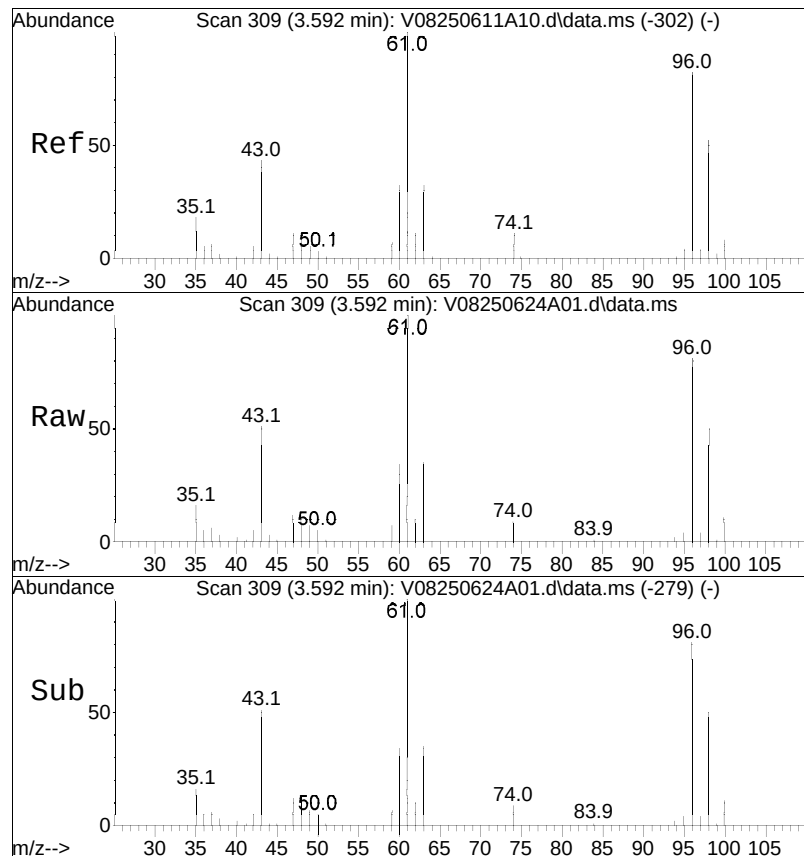




#18
 trans-1,2-Dichloroethene
 Concen: 9.55 ug/L
 RT: 3.586 min Scan# 308
 Delta R.T. -0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

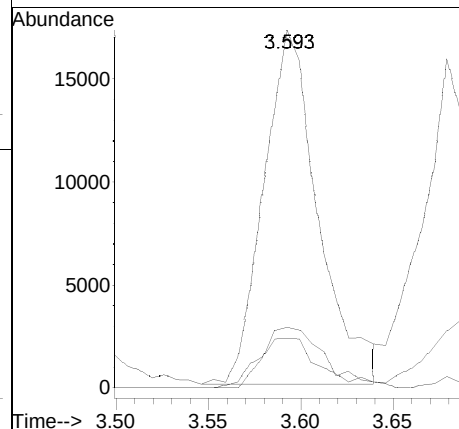
Tgt Ion:	96	Resp:	63522
Ion Ratio	Lower	Upper	
96	100		
61	131.0	90.2	187.4
98	63.4	42.2	87.6
63	41.6	27.6	57.4

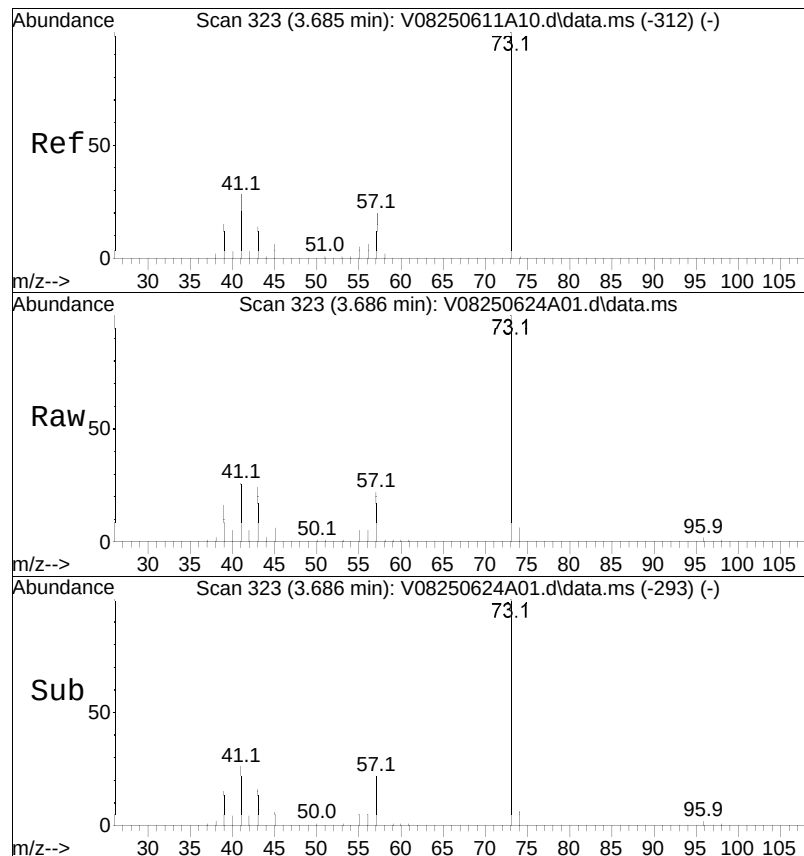




#19
 Methyl acetate
 Concen: 10.98 ug/L
 RT: 3.592 min Scan# 309
 Delta R.T. 0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

Tgt Ion:	43	Resp:	35262
Ion Ratio	Lower	Upper	
43	100		
74	19.3	17.8	26.8
59	16.5	14.7	22.1





#20

Methyl tert-butyl ether

Concen: 9.76 ug/L

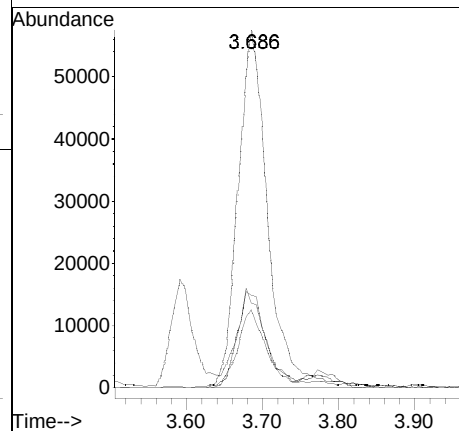
RT: 3.686 min Scan# 323

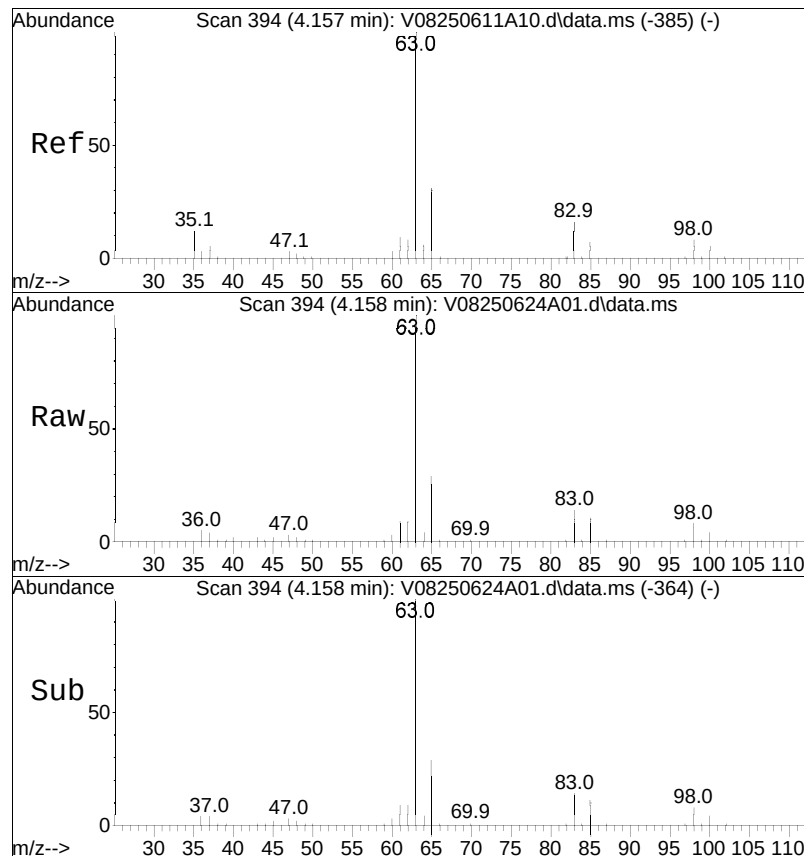
Delta R.T. 0.001 min

Lab File: V08250624A01.d

Acq: 24 Jun 2025 7:36 am

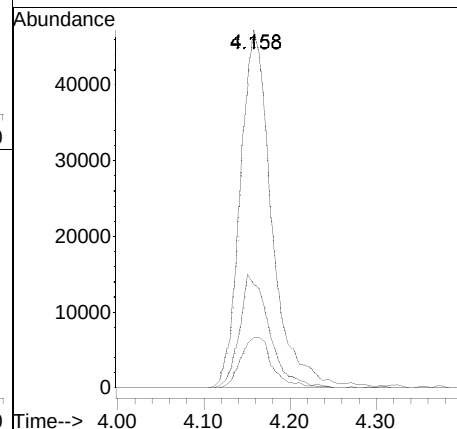
Tgt Ion:	73	Resp:	156791
Ion	Ratio	Lower	Upper
73	100		
57	20.9	13.6	28.2
43	25.9	15.7	32.5
41	26.8	18.0	37.4

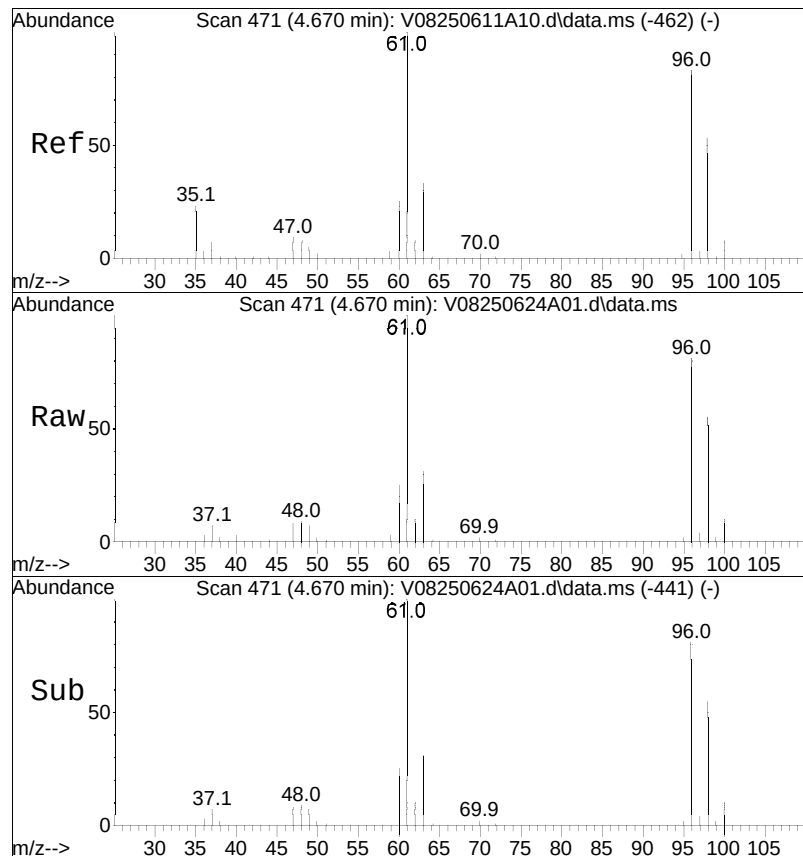




#23
 1,1-Dichloroethane
 Concen: 9.87 ug/L
 RT: 4.158 min Scan# 394
 Delta R.T. 0.001 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

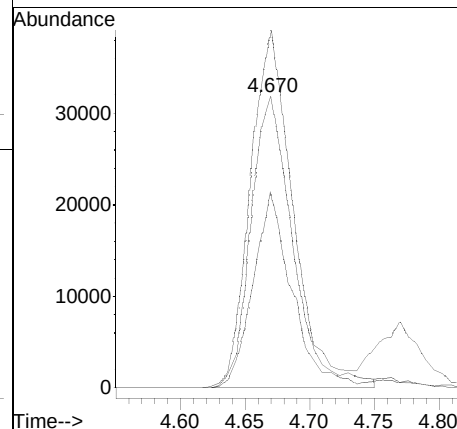
Tgt	Ion	Ratio	Lower	Upper
63	100			
65	30.0	12.4	52.4	
83	14.3	0.0	33.8	

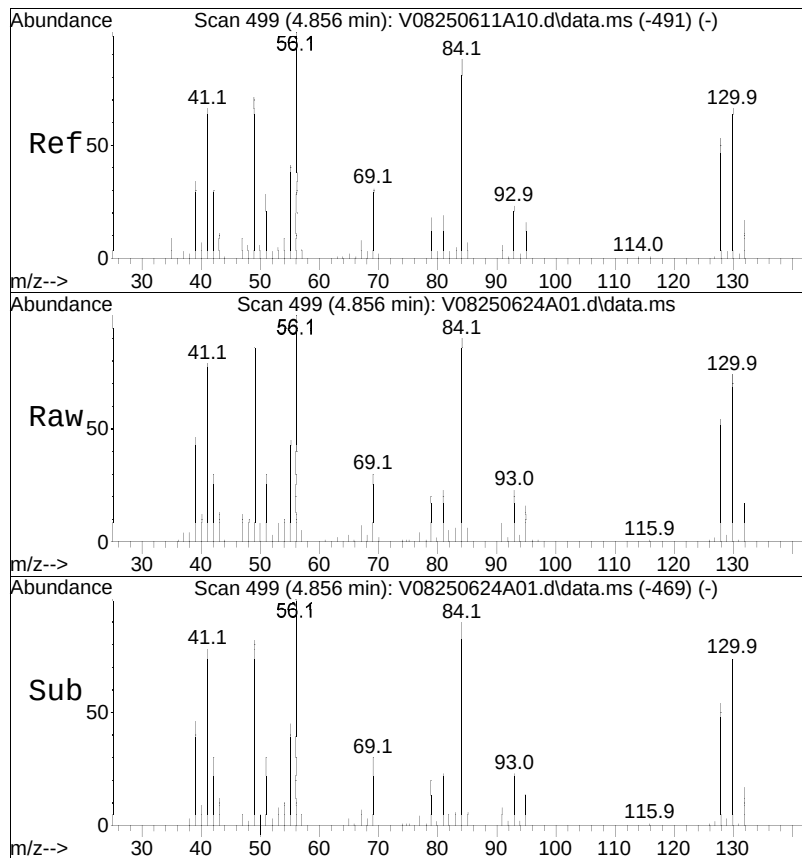




#28
 cis-1,2-Dichloroethene
 Concen: 9.40 ug/L
 RT: 4.670 min Scan# 471
 Delta R.T. -0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

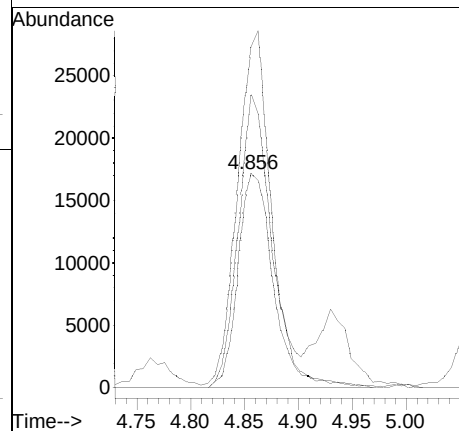
Tgt Ion: 96	Resp: 71498
Ion Ratio	Lower Upper
96 100	
61 123.5	93.7 140.5
98 62.4	50.3 75.5

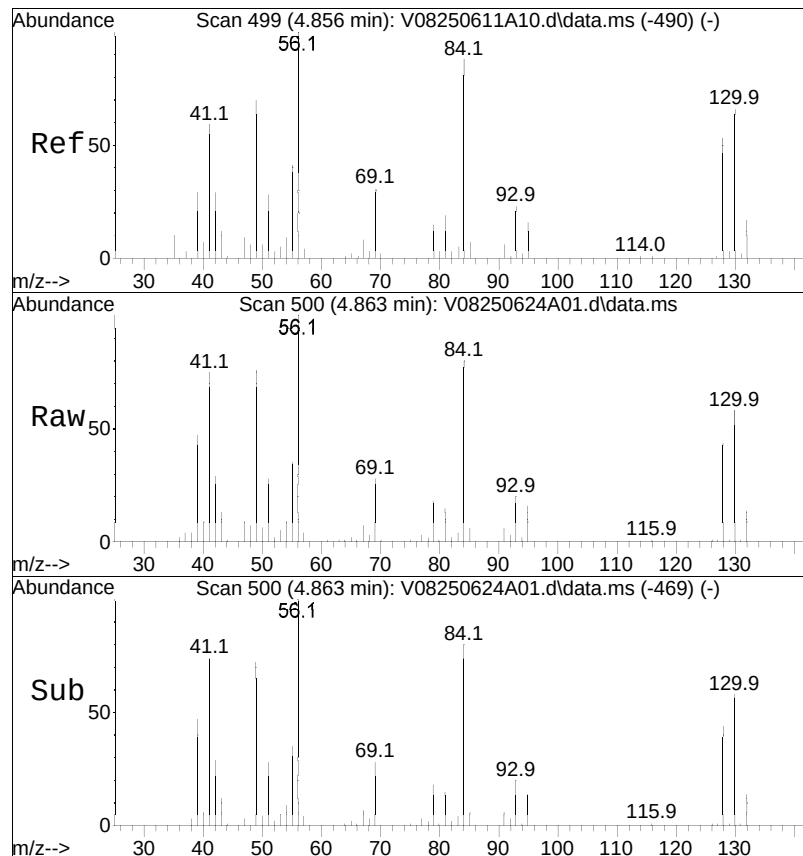




#30
 Bromochloromethane
 Concen: 8.98 ug/L
 RT: 4.856 min Scan# 499
 Delta R.T. 0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

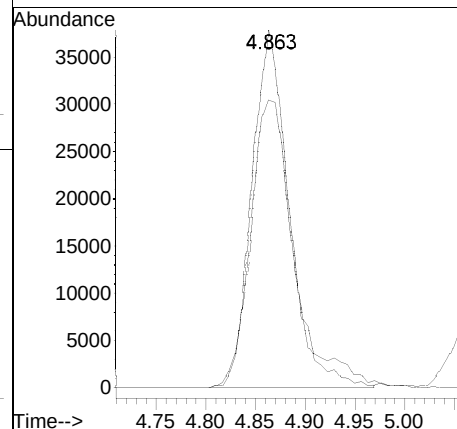
Tgt Ion:	128	Resp:	39481
Ion Ratio	Lower	Upper	
128	100		
49	156.4	119.6	179.4
130	130.0	100.7	151.1

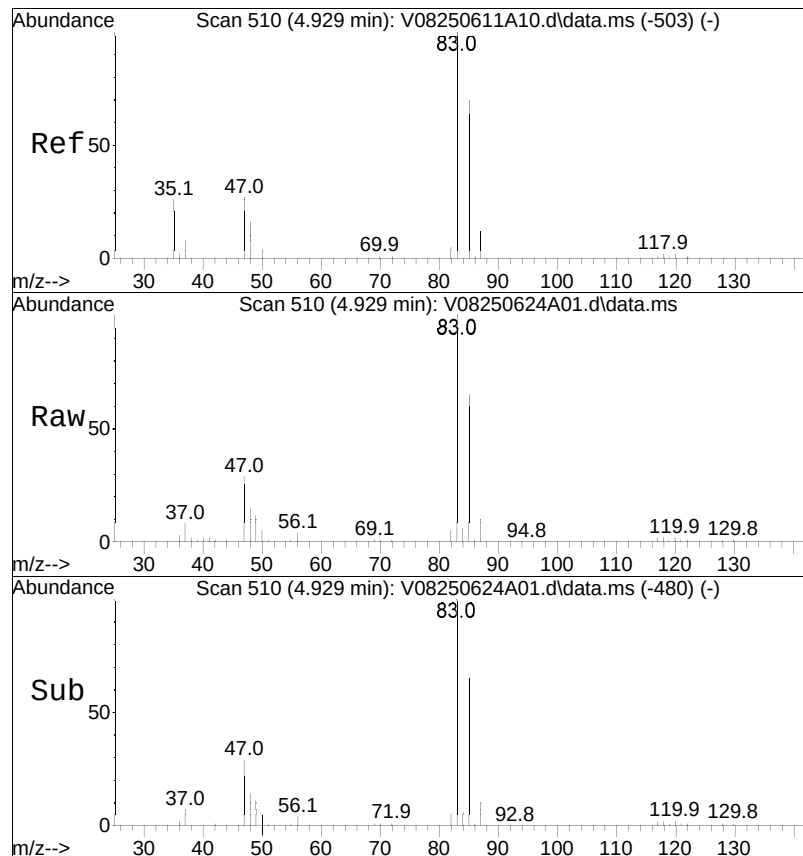




#31
 Cyclohexane
 Concen: 10.07 ug/L
 RT: 4.863 min Scan# 500
 Delta R.T. 0.007 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

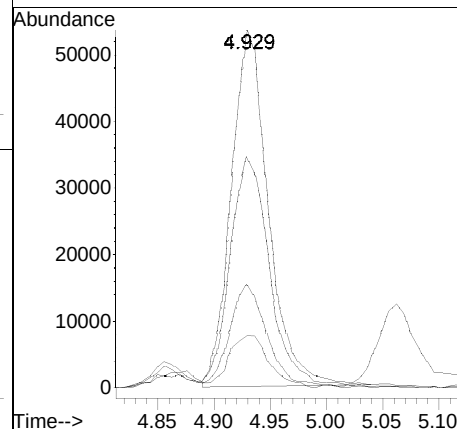
Tgt Ion	Ratio	Lower	Upper
56	100		
84	92.1	55.3	114.8

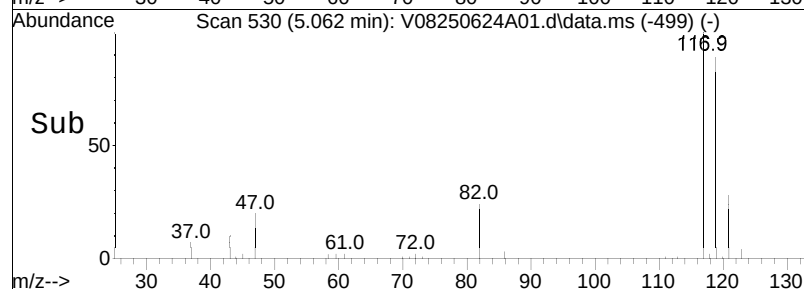
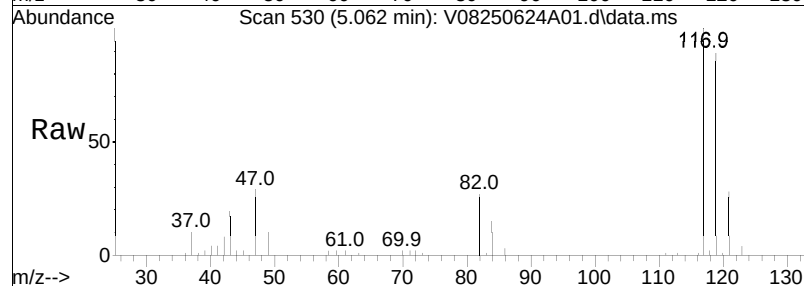
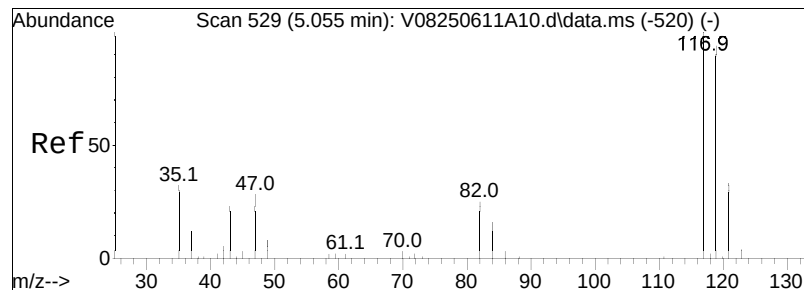




#32
 Chloroform
 Concen: 8.99 ug/L
 RT: 4.929 min Scan# 510
 Delta R.T. 0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

Tgt Ion:	83	Resp:	121938
Ion Ratio	Lower	Upper	
83	100		
85	68.6	42.1	87.3
47	28.6	17.7	36.7
48	16.2	9.1	18.9





#34

Carbon tetrachloride

Concen: 9.82 ug/L

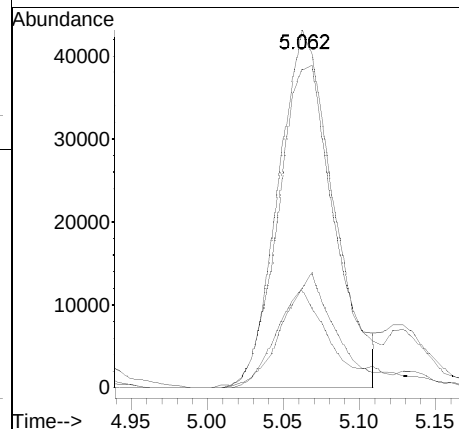
RT: 5.062 min Scan# 530

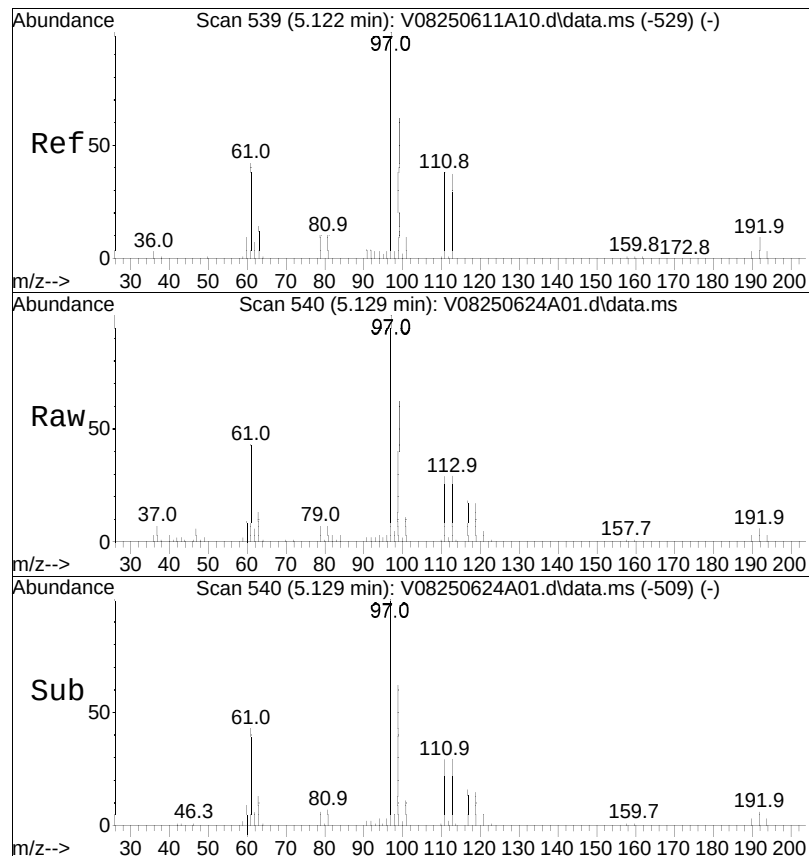
Delta R.T. 0.007 min

Lab File: V08250624A01.d

Acq: 24 Jun 2025 7:36 am

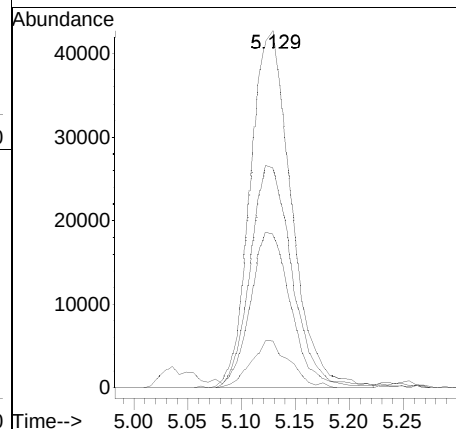
Tgt Ion:	117	Resp:	108537
Ion Ratio	Lower	Upper	
117	100		
119	94.4	61.4	127.6
121	32.8	20.5	42.7
82	29.8	16.3	33.8

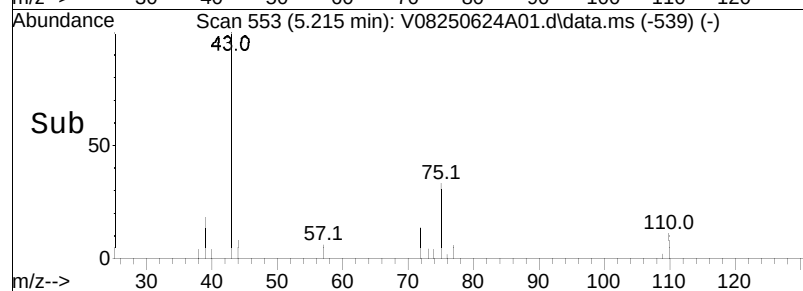
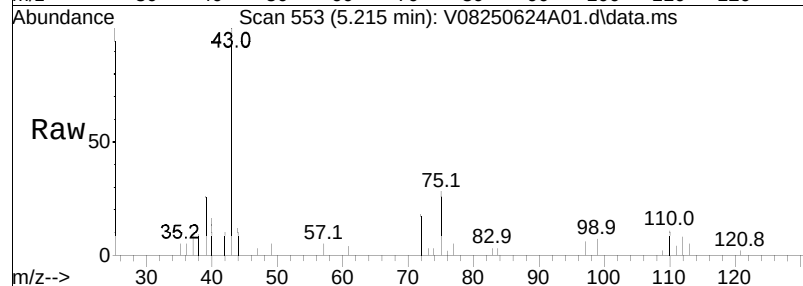
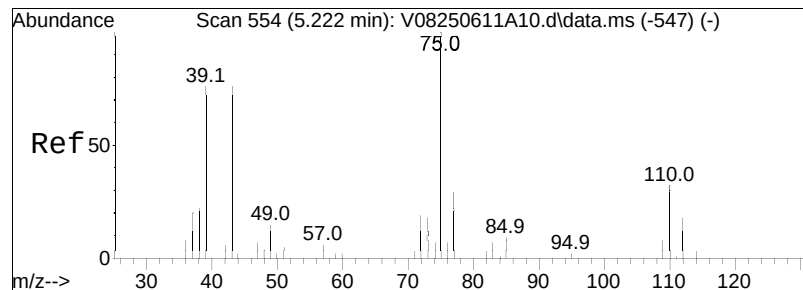




#37
 1,1,1-Trichloroethane
 Concen: 10.04 ug/L
 RT: 5.129 min Scan# 540
 Delta R.T. 0.007 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

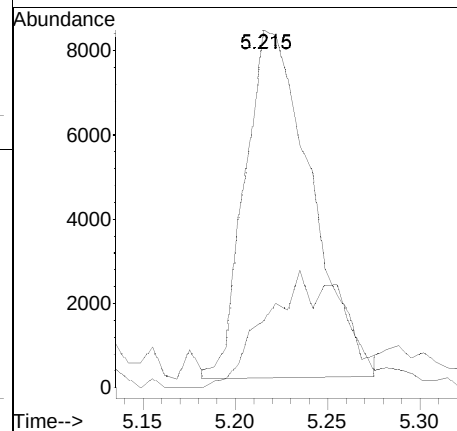
Tgt Ion:	97	Resp:	113321
Ion Ratio	Lower	Upper	
97	100		
99	63.8	40.2	83.4
61	43.4	28.6	59.4
63	12.6	9.2	19.2

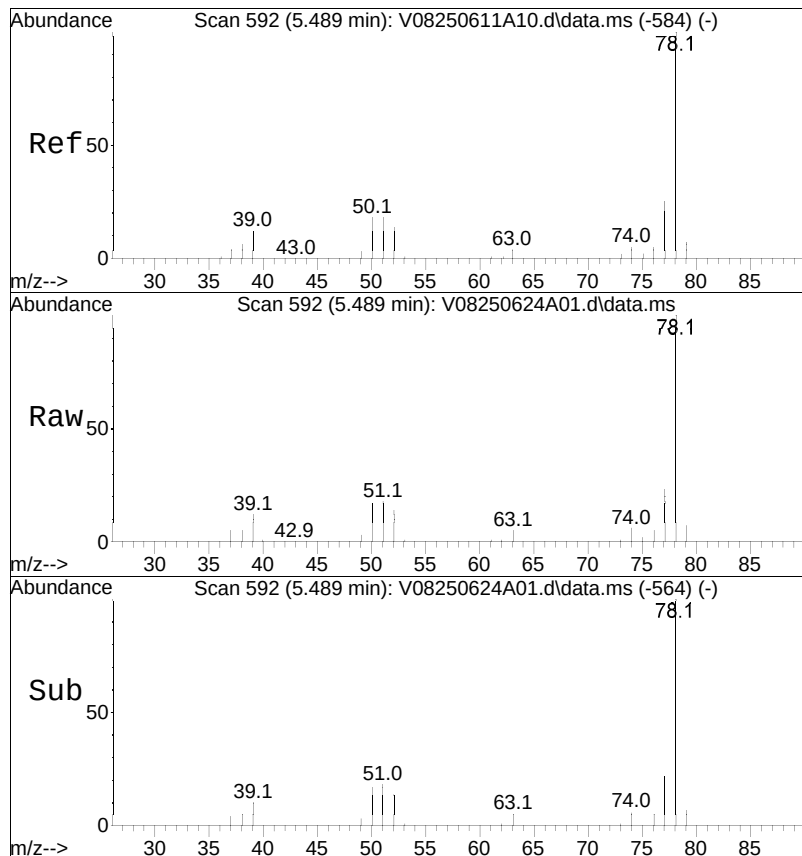




#39
 2-Butanone
 Concen: 10.32 ug/L
 RT: 5.215 min Scan# 553
 Delta R.T. -0.007 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

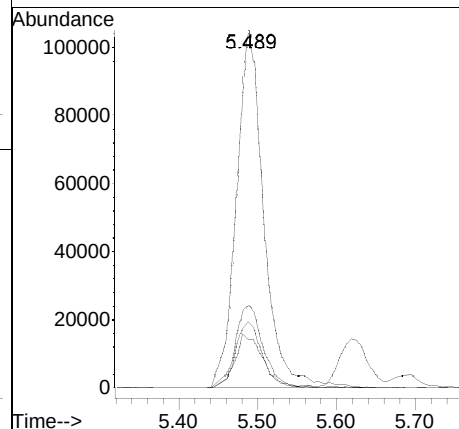
Tgt Ion: 43 Resp: 20420
 Ion Ratio Lower Upper
 43 100
 72 43.1 38.2 57.4

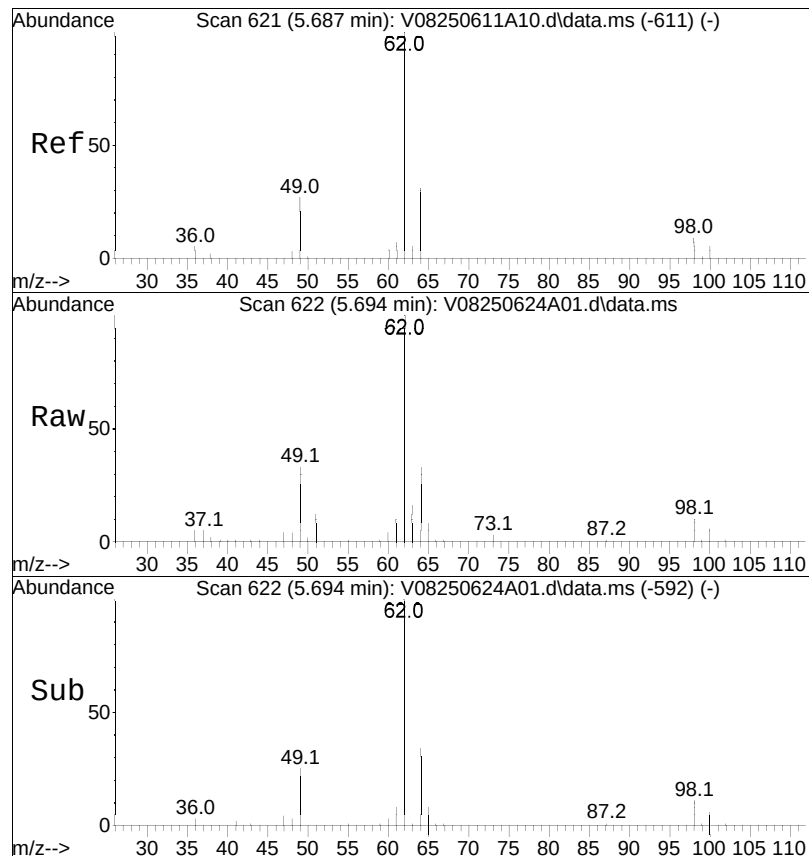




#41
Benzene
Concen: 9.79 ug/L
RT: 5.489 min Scan# 592
Delta R.T. -0.000 min
Lab File: V08250624A01.d
Acq: 24 Jun 2025 7:36 am

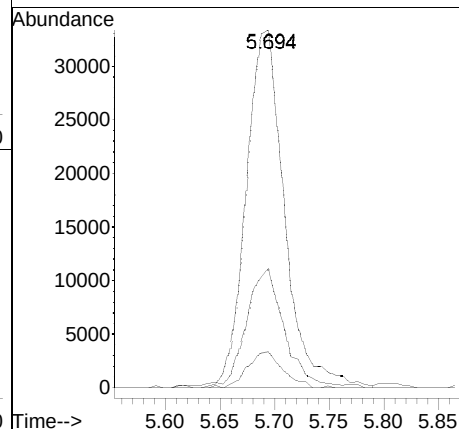
Tgt Ion:	78	Resp:	262657
Ion	Ratio	Lower	Upper
78	100		
77	24.3	15.7	32.7
51	19.1	12.4	25.7
52	16.2	10.6	22.0

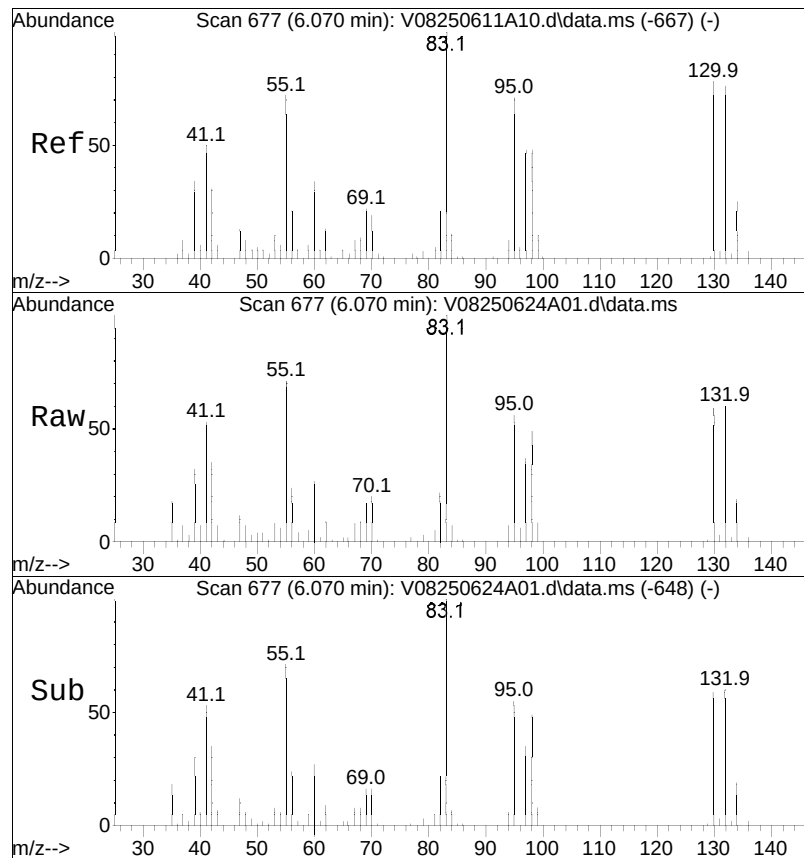




#44
 1,2-Dichloroethane
 Concen: 9.71 ug/L
 RT: 5.694 min Scan# 622
 Delta R.T. 0.007 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

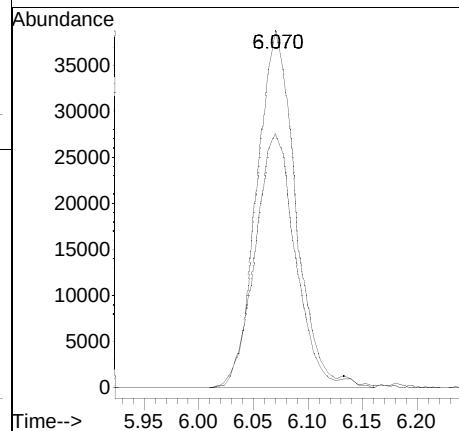
Tgt Ion:	62	Resp:	80660
Ion Ratio	Lower	Upper	
62	100		
64	33.9	11.3	51.3
98	9.4	0.0	29.3

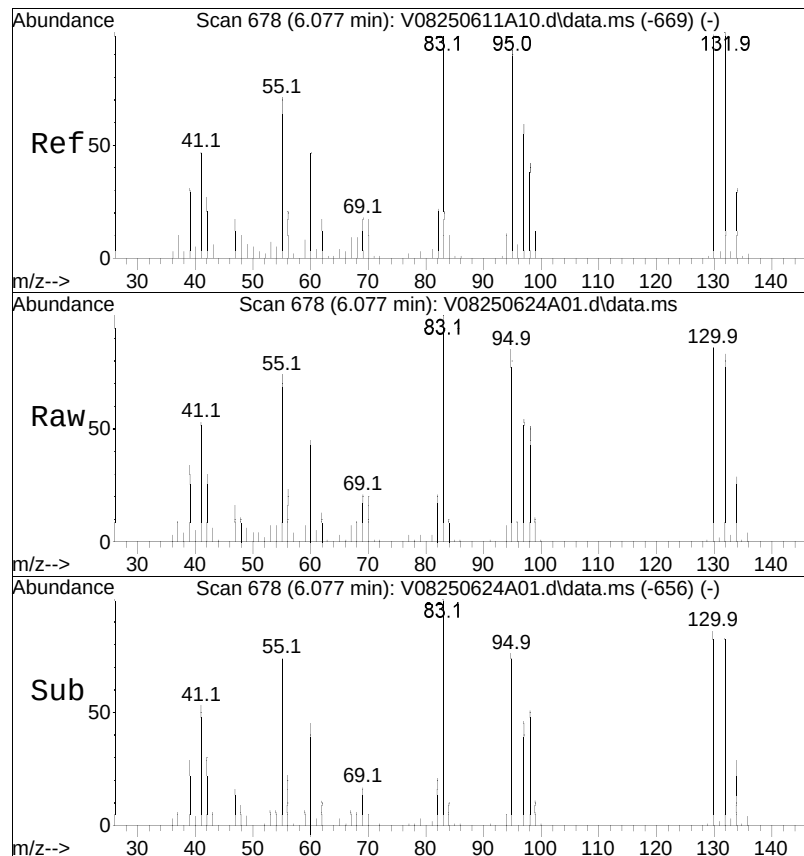




#47
Methyl cyclohexane
Concen: 9.51 ug/L
RT: 6.070 min Scan# 677
Delta R.T. 0.000 min
Lab File: V08250624A01.d
Acq: 24 Jun 2025 7:36 am

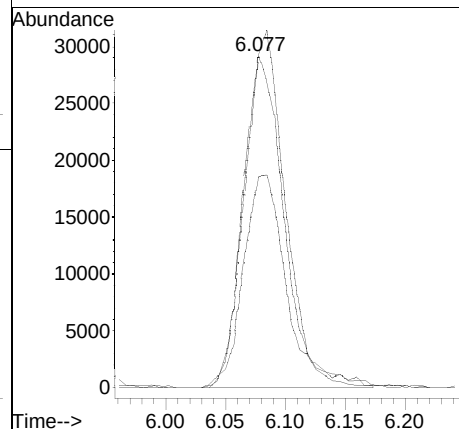
Tgt Ion	Ratio	Lower	Upper
83	100		
55	74.2	62.4	93.6

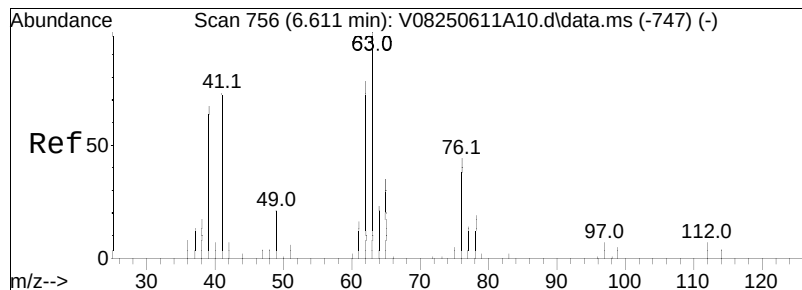




#48
 Trichloroethene
 Concen: 9.31 ug/L
 RT: 6.077 min Scan# 678
 Delta R.T. 0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

Tgt Ion:	95	Resp:	68766
Ion Ratio	Lower	Upper	
95	100		
97	67.3	54.7	82.1
130	110.4	84.7	127.1





#51

1,2-Dichloropropane

Concen: 10.00 ug/L

RT: 6.618 min Scan# 757

Delta R.T. 0.007 min

Lab File: V08250624A01.d

Acq: 24 Jun 2025 7:36 am

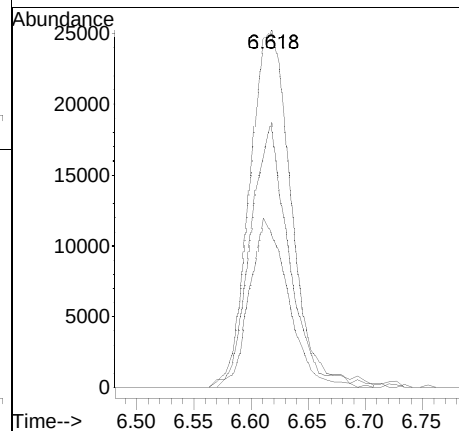
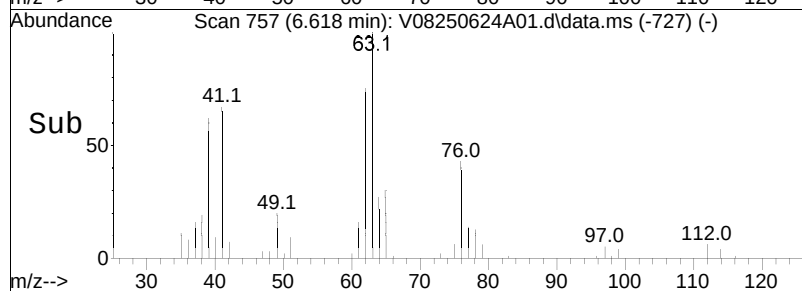
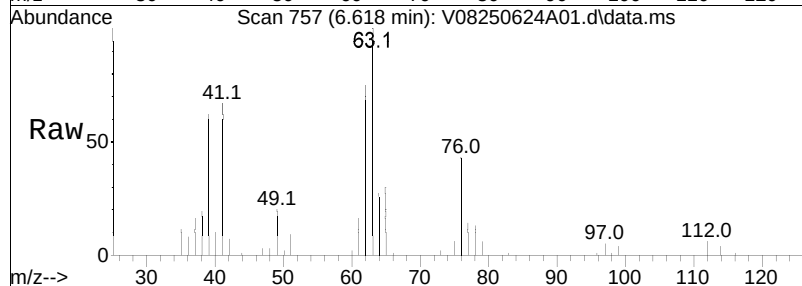
Tgt Ion: 63 Resp: 63755

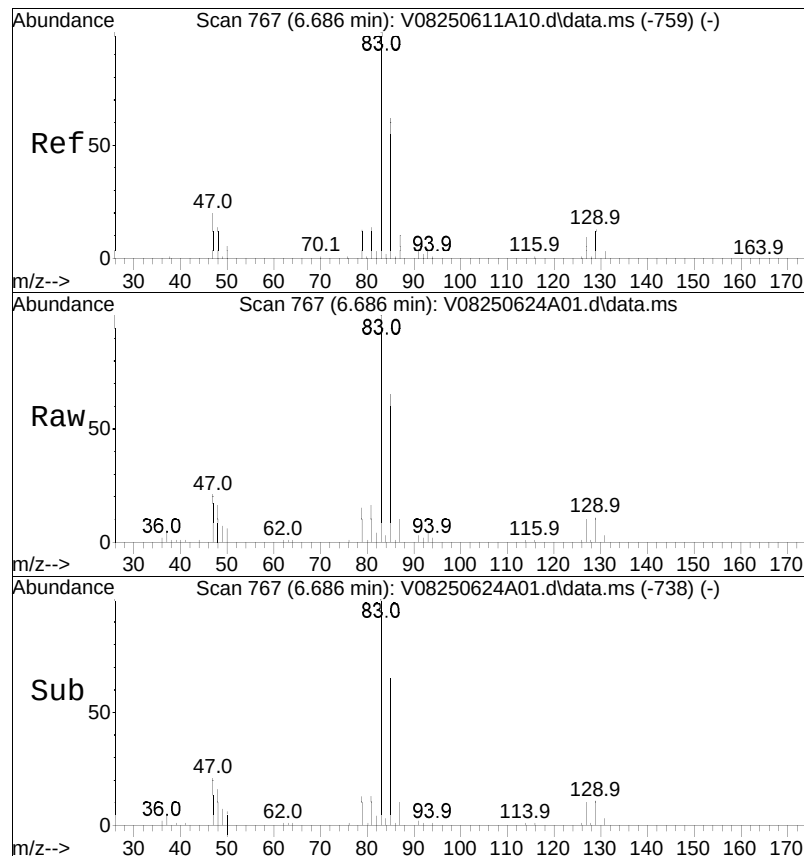
Ion Ratio Lower Upper

63 100

62 69.3 58.2 87.4

76 44.3 35.9 53.9





#54

Bromodichloromethane

Concen: 9.76 ug/L

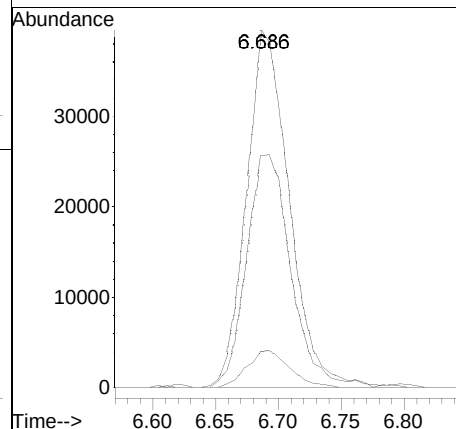
RT: 6.686 min Scan# 767

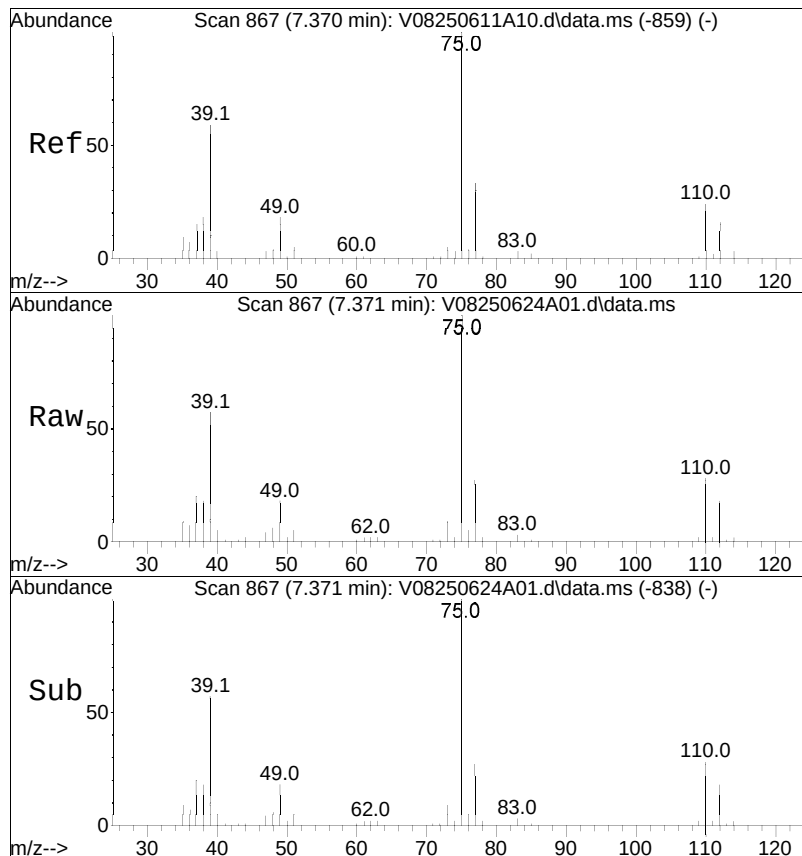
Delta R.T. 0.000 min

Lab File: V08250624A01.d

Acq: 24 Jun 2025 7:36 am

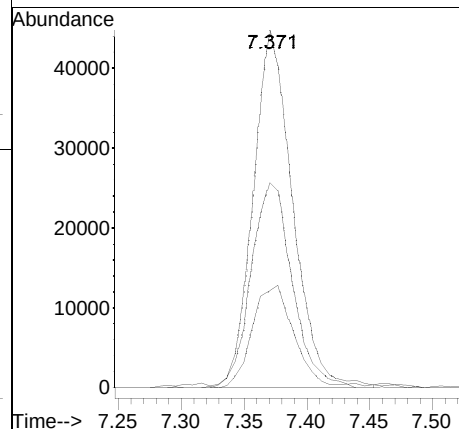
Tgt	Ion: 83	Resp:	92736
Ion	Ratio	Lower	Upper
83	100		
85	67.9	53.0	79.6
127	10.5	7.8	11.6

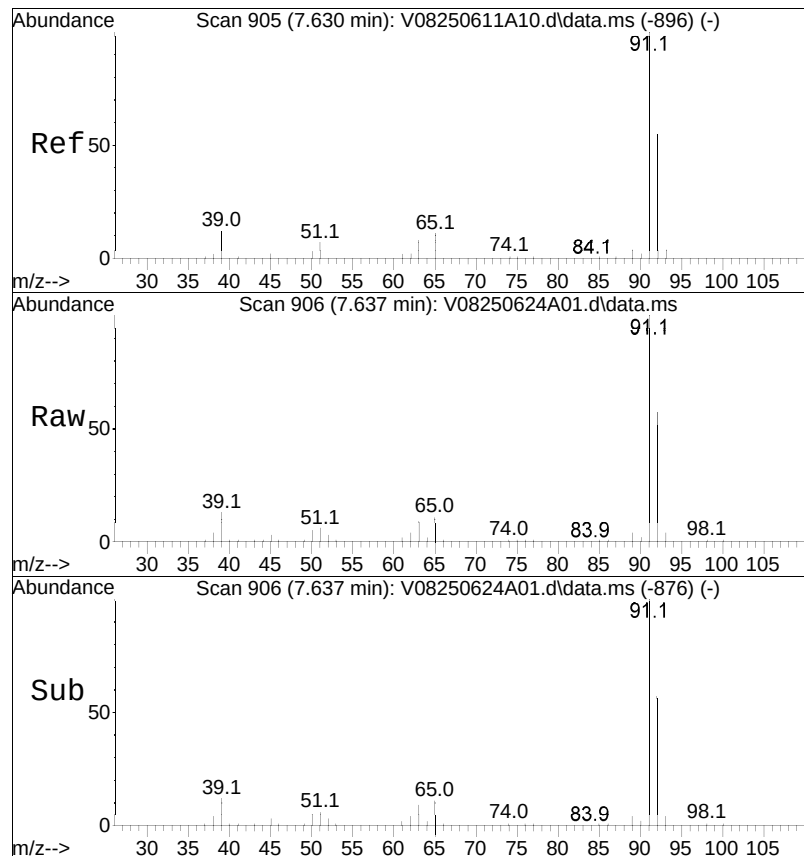




#58
 cis-1,3-Dichloropropene
 Concen: 10.15 ug/L
 RT: 7.371 min Scan# 867
 Delta R.T. 0.001 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

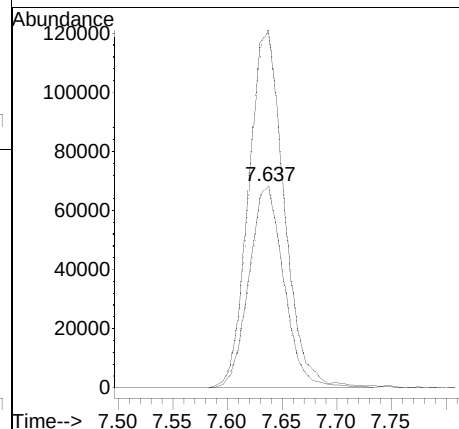
Tgt Ion:	75	Resp:	97030
Ion Ratio	Lower	Upper	
75	100		
77	30.5	25.5	38.3
39	61.6	46.9	70.3

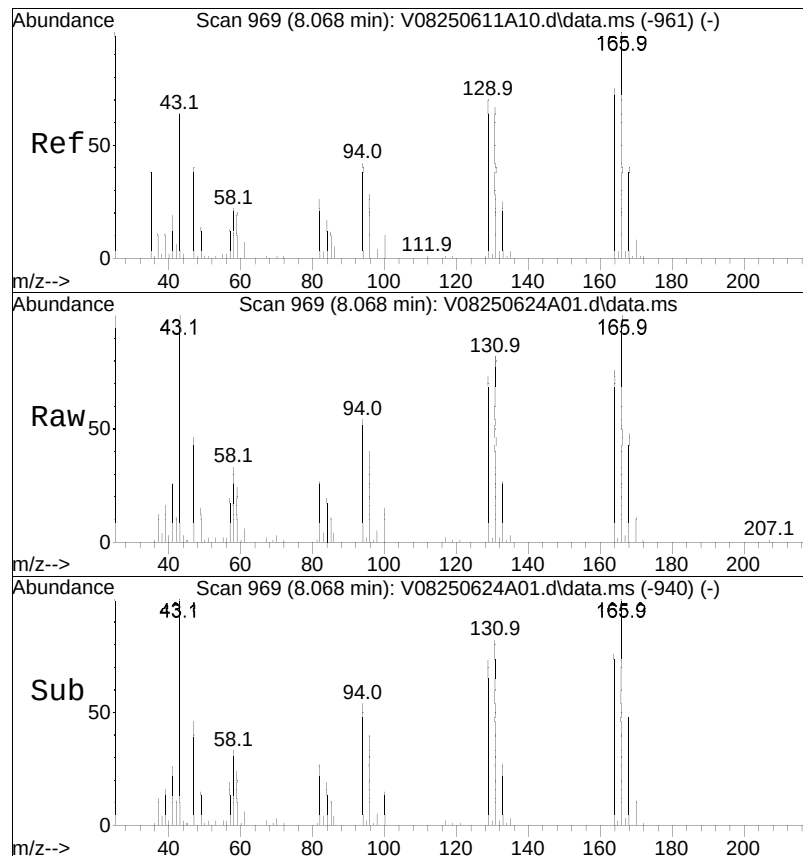




#61
 Toluene
 Concen: 9.33 ug/L
 RT: 7.637 min Scan# 906
 Delta R.T. 0.007 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

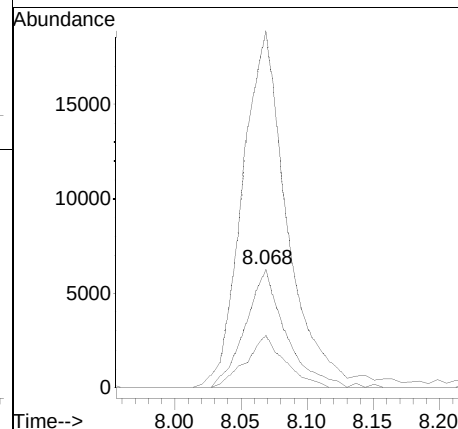
Tgt Ion:	92	Resp:	150290
Ion Ratio	Lower	Upper	
92	100		
91	180.3	140.8	211.2

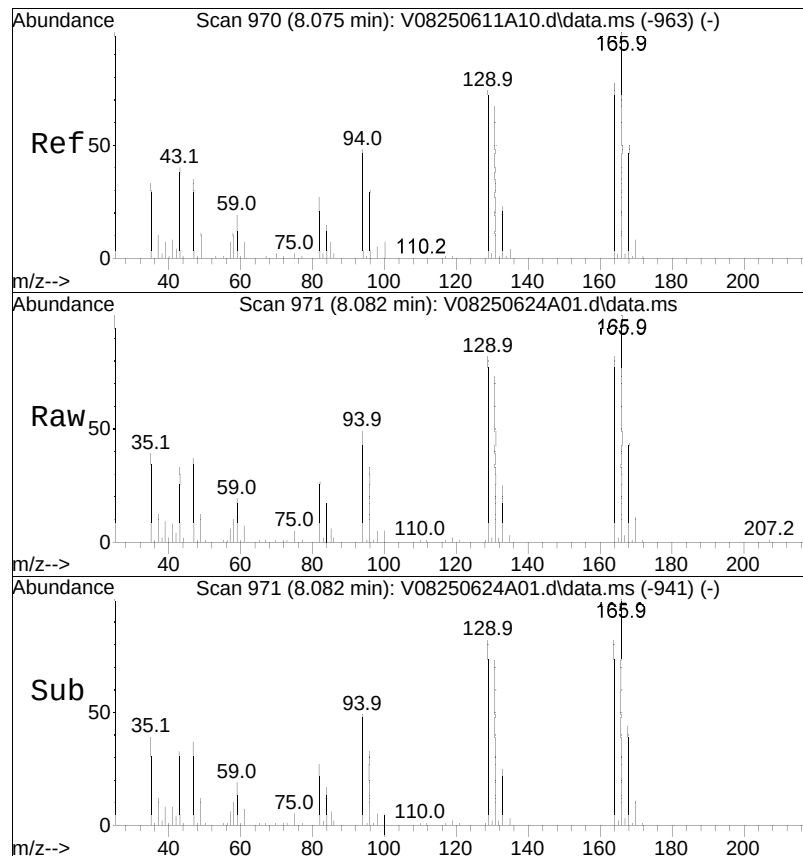




#62
 4-Methyl-2-pentanone
 Concen: 10.08 ug/L
 RT: 8.068 min Scan# 969
 Delta R.T. 0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

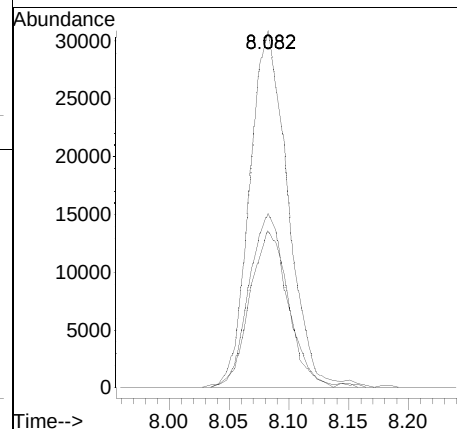
Tgt Ion	Ratio	Lower	Upper
58	100		
100	42.9	33.6	50.4
43	339.6	271.0	406.6

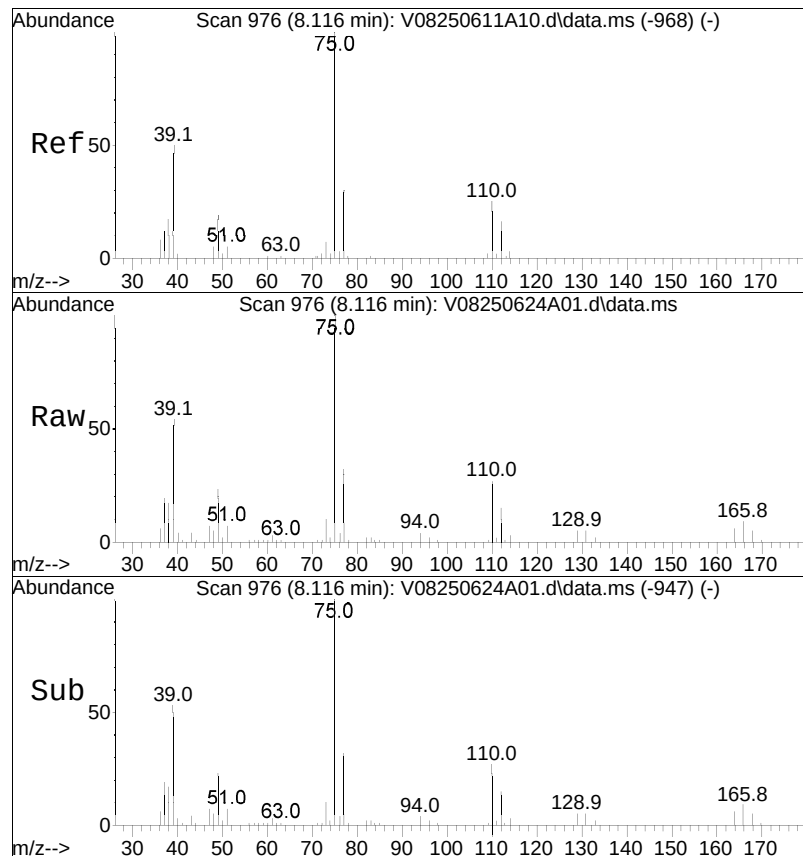




#63
 Tetrachloroethene
 Concen: 9.09 ug/L
 RT: 8.082 min Scan# 971
 Delta R.T. 0.007 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

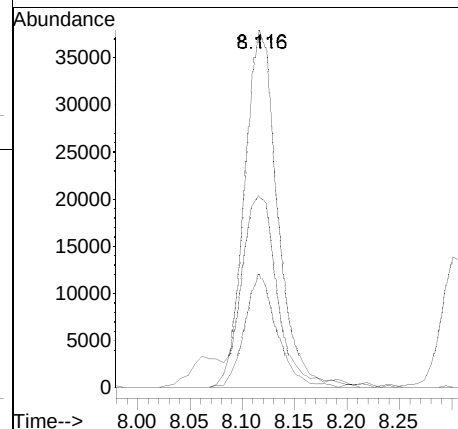
Tgt Ion:	166	Resp:	68829
Ion Ratio	Lower	Upper	
166	100		
168	45.6	26.2	66.2
94	48.1	23.6	63.6

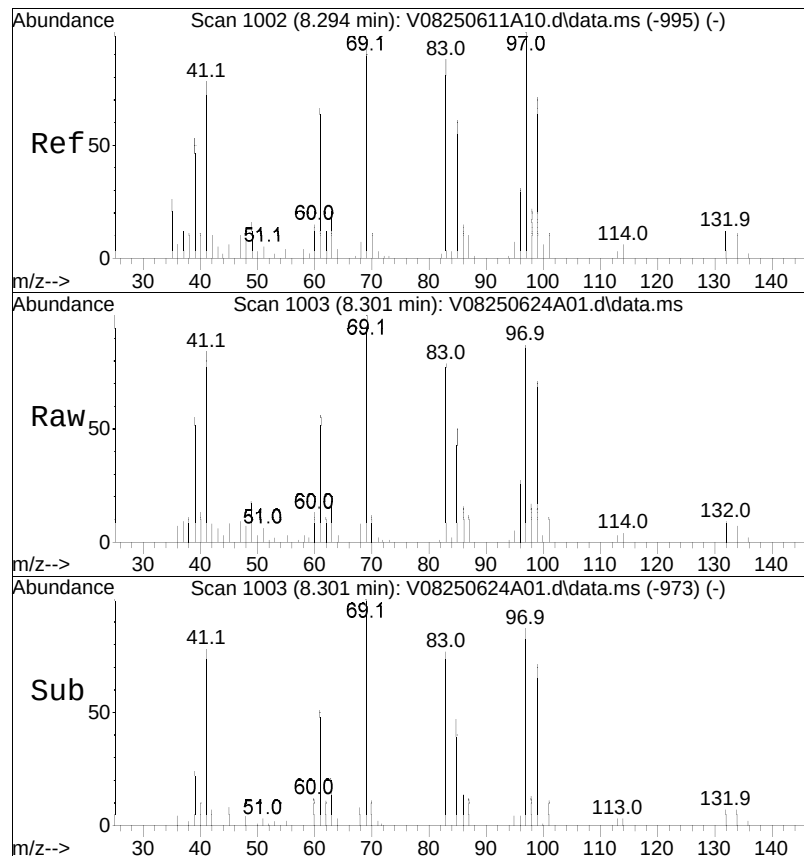




#65
 trans-1,3-Dichloropropene
 Concen: 10.49 ug/L
 RT: 8.116 min Scan# 976
 Delta R.T. 0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

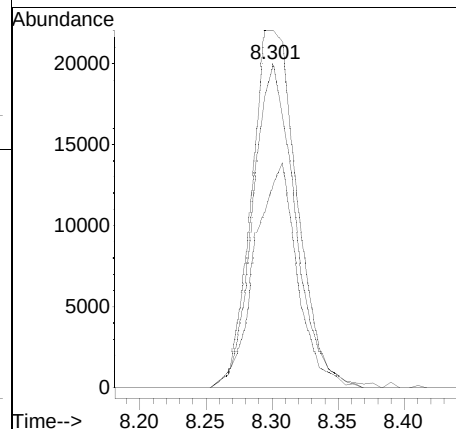
Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.9	9.8	49.8
39	55.9	45.2	85.2

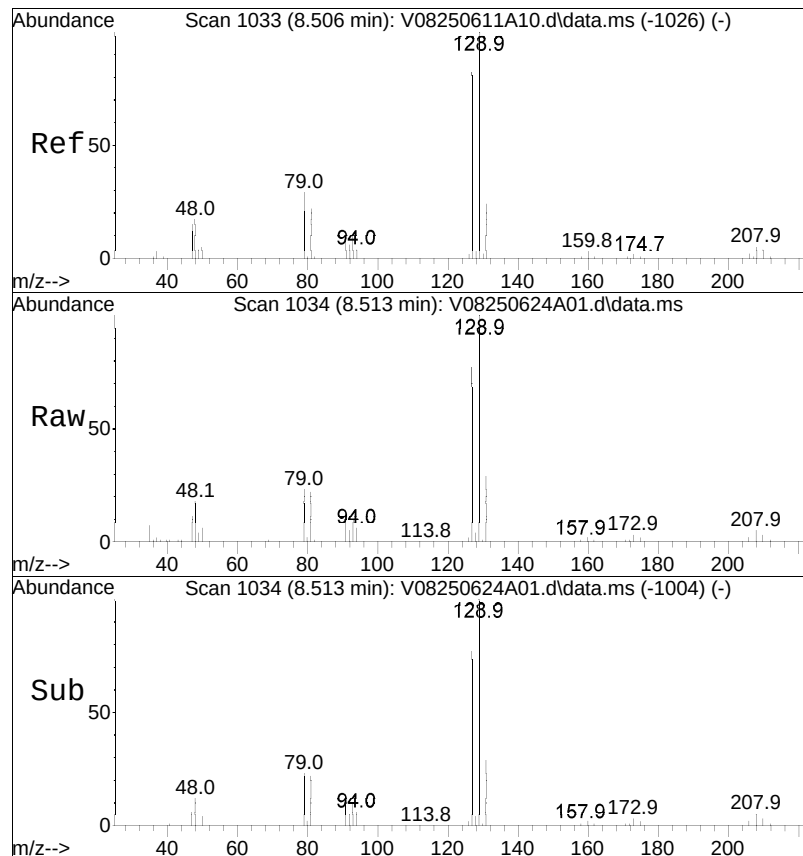




#68
 1,1,2-Trichloroethane
 Concen: 9.73 ug/L
 RT: 8.301 min Scan# 1003
 Delta R.T. 0.007 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

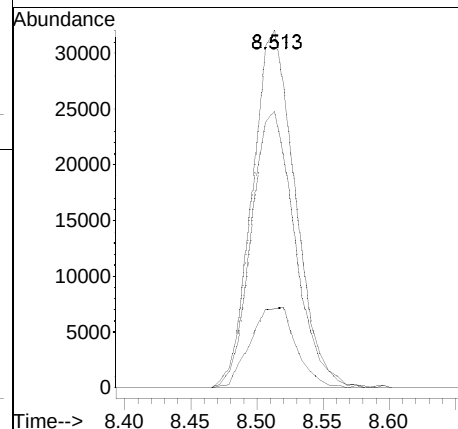
Tgt Ion	Ratio	Lower	Upper
83	100		
97	119.9	98.2	138.2
85	70.5	49.9	89.9

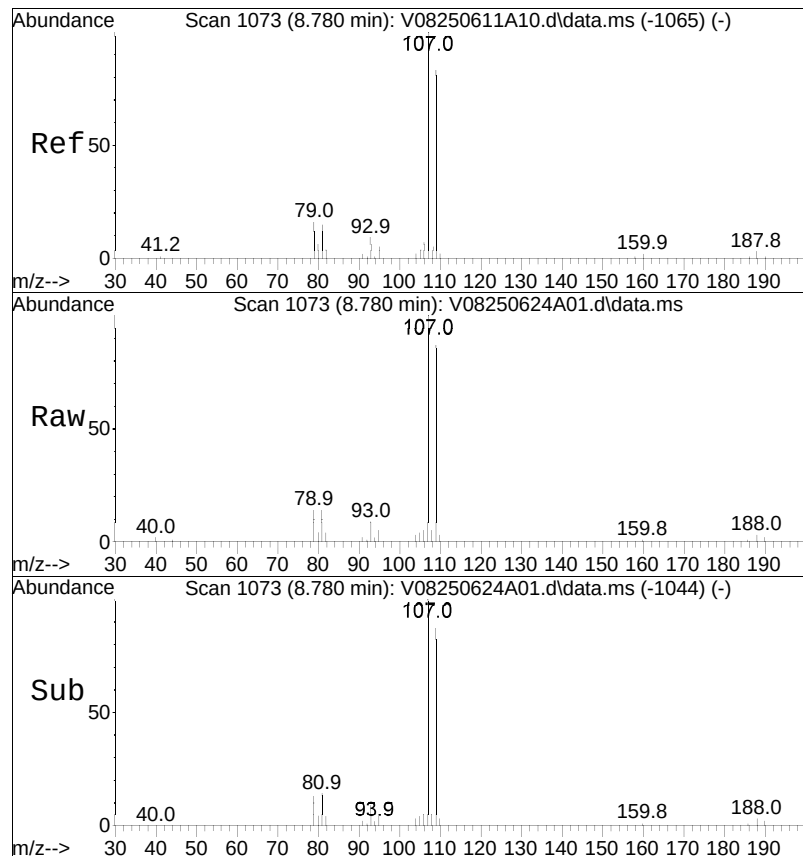




#69
 Chlorodibromomethane
 Concen: 9.63 ug/L
 RT: 8.513 min Scan# 1034
 Delta R.T. 0.007 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

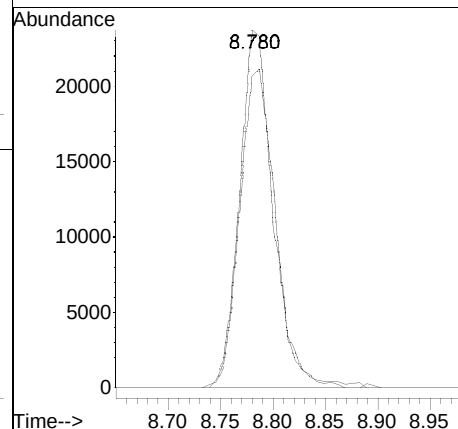
Tgt Ion:	129	Resp:	72090
Ion Ratio	Lower	Upper	
129	100		
81	24.4	3.3	43.3
127	78.7	58.2	98.2

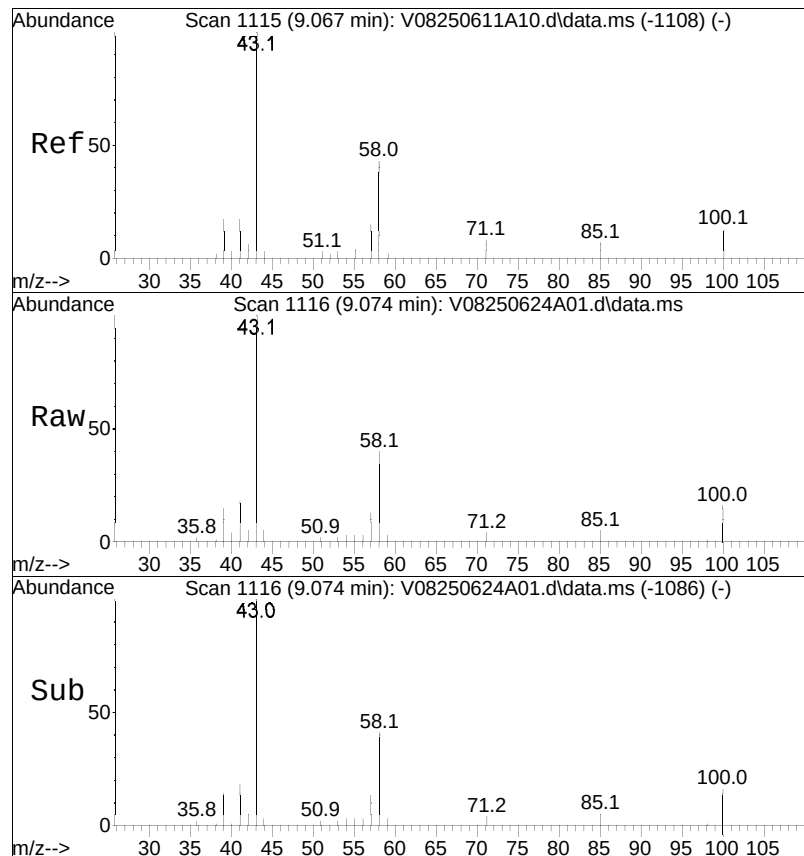




#71
 1,2-Dibromoethane
 Concen: 10.89 ug/L
 RT: 8.780 min Scan# 1073
 Delta R.T. 0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

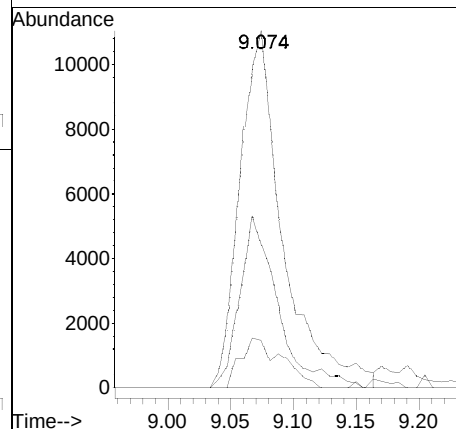
Tgt Ion	Ratio	Lower	Upper
107	100		
109	90.3	73.0	109.4

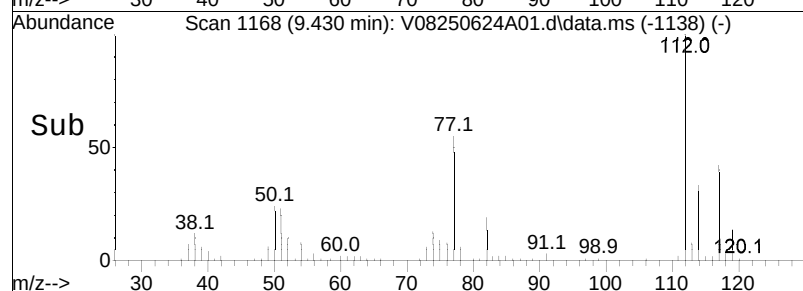
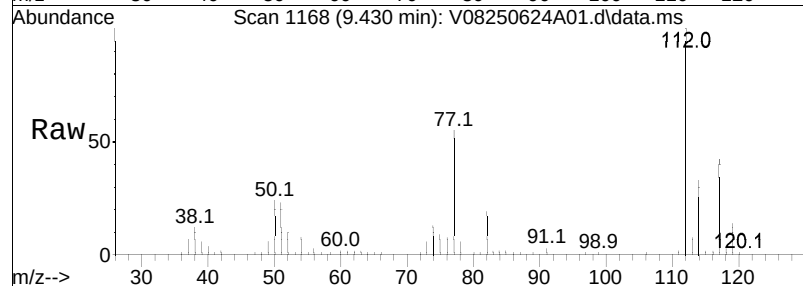
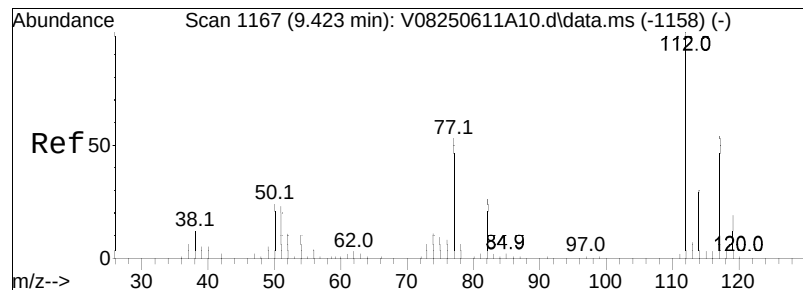




#72
2-Hexanone
Concen: 9.46 ug/L
RT: 9.074 min Scan# 1116
Delta R.T. 0.007 min
Lab File: V08250624A01.d
Acq: 24 Jun 2025 7:36 am

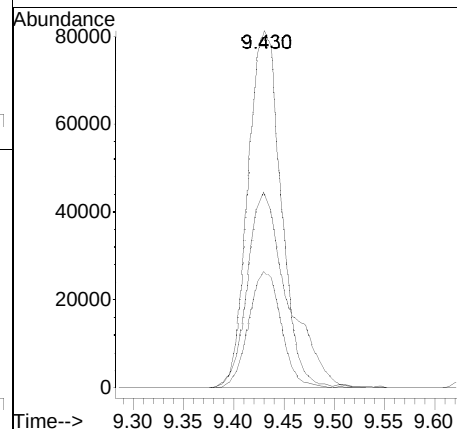
Tgt Ion:	43	Resp:	26193
Ion Ratio	Lower	Upper	
43	100		
58	42.9	33.5	50.3
57	13.5	12.6	18.8

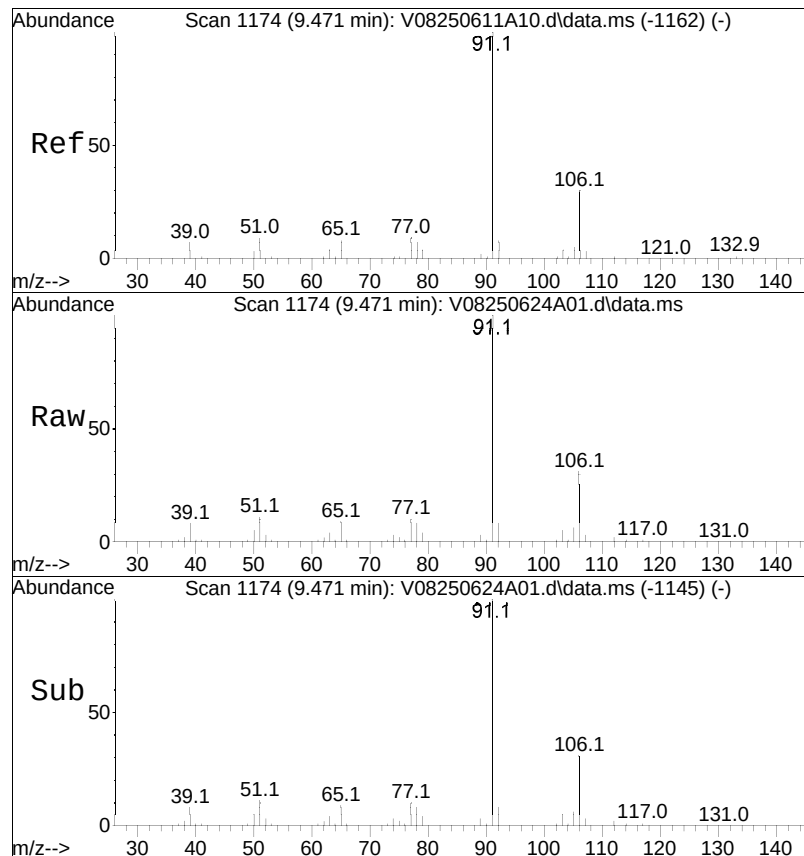




#73
 Chlorobenzene
 Concen: 9.17 ug/L
 RT: 9.430 min Scan# 1168
 Delta R.T. 0.007 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

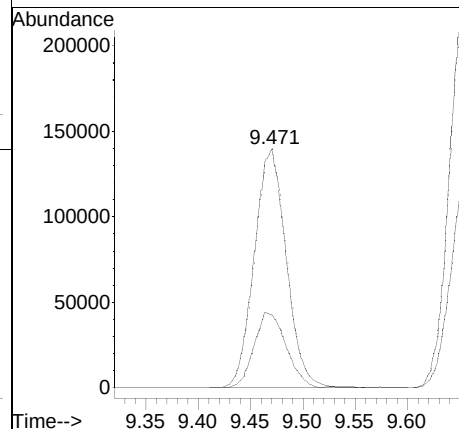
Tgt Ion	Ratio	Resp	Lower	Upper
112	100	184498		
77	67.3		55.3	82.9
114	32.3		25.4	38.2

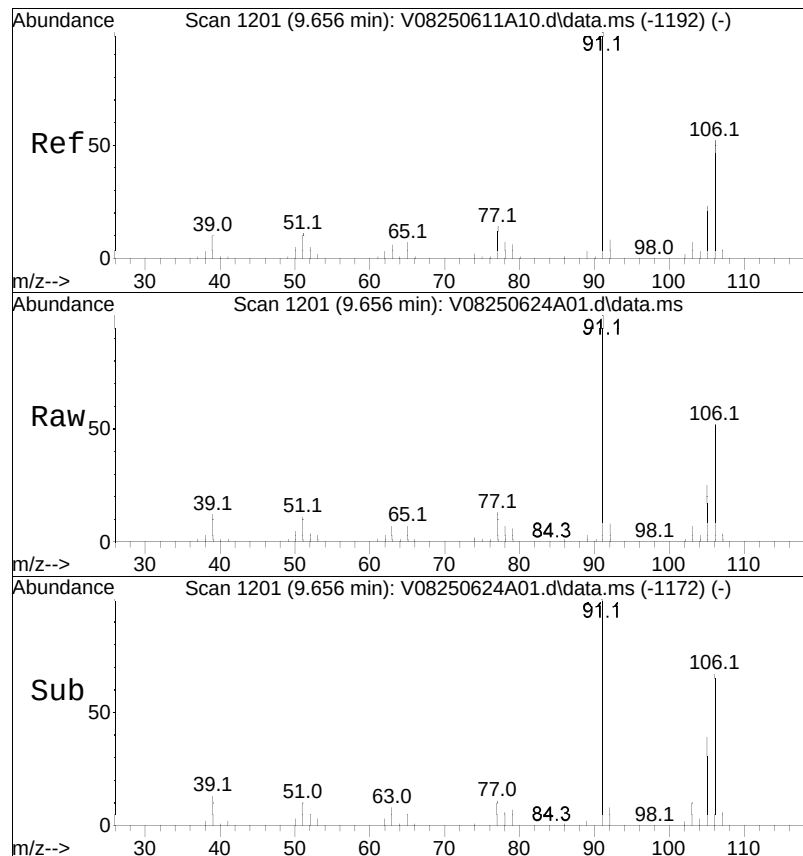




#74
 Ethylbenzene
 Concen: 9.22 ug/L
 RT: 9.471 min Scan# 1174
 Delta R.T. 0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

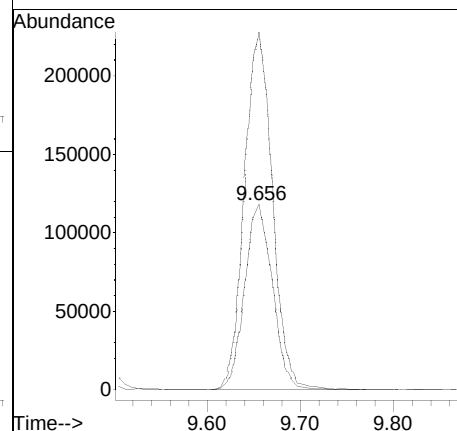
Tgt	Ion	Resp	Lower	Upper
91	100	297651		
106	31.5	25.4	38.0	

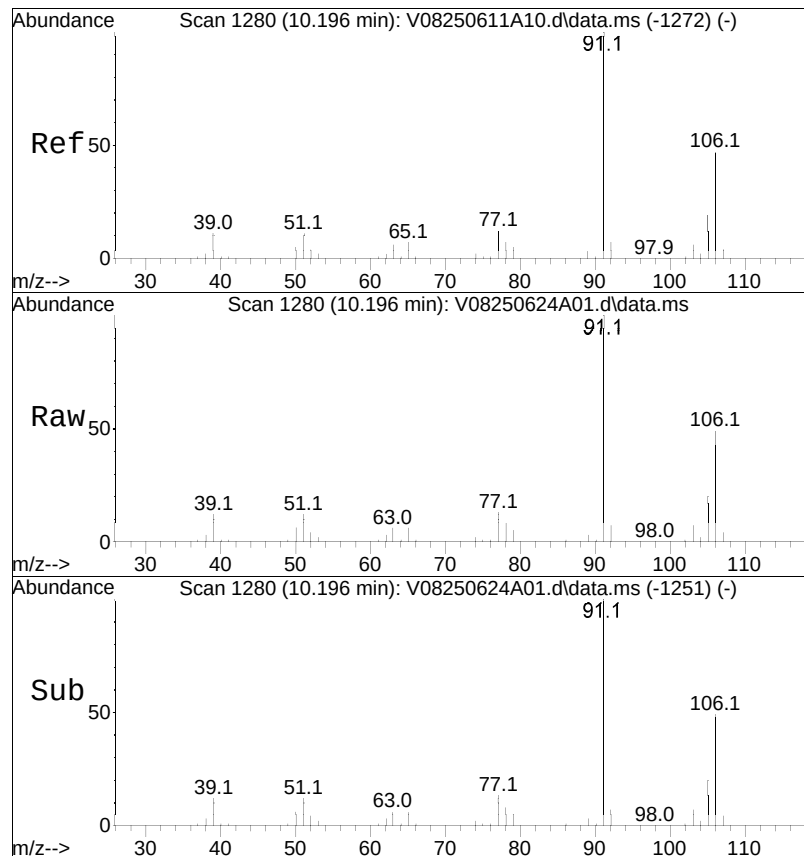




#76
 p/m Xylene
 Concen: 17.34 ug/L
 RT: 9.656 min Scan# 1201
 Delta R.T. -0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

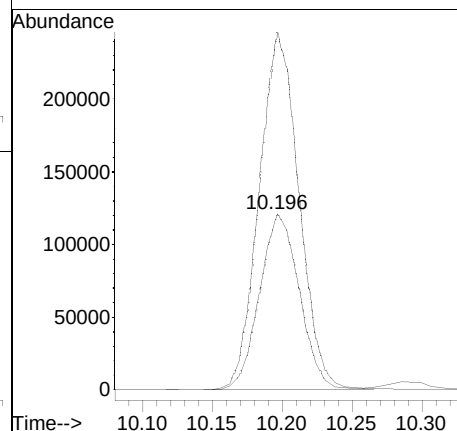
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	193.1	155.4	233.2	

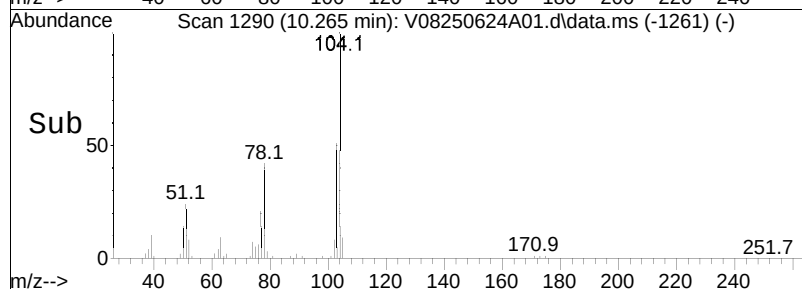
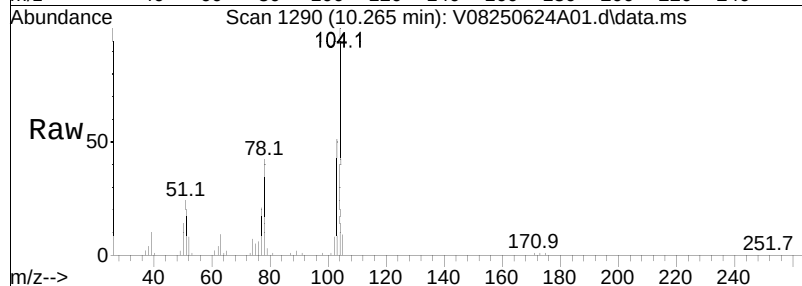
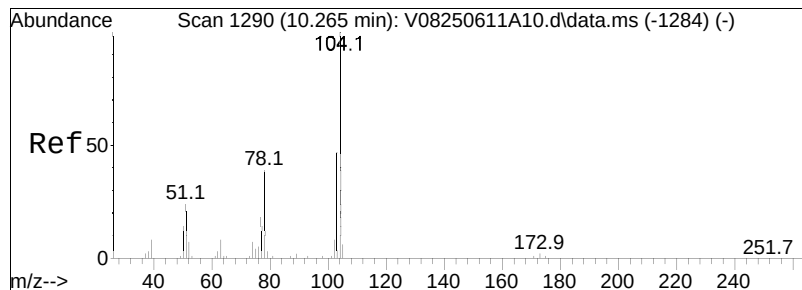




#77
o Xylene
Concen: 17.11 ug/L
RT: 10.196 min Scan# 1280
Delta R.T. 0.000 min
Lab File: V08250624A01.d
Acq: 24 Jun 2025 7:36 am

Tgt Ion	Ratio	Lower	Upper
106	100		
91	202.0	167.4	251.0





#78

Styrene

Concen: 15.26 ug/L

RT: 10.265 min Scan# 1290

Delta R.T. -0.000 min

Lab File: V08250624A01.d

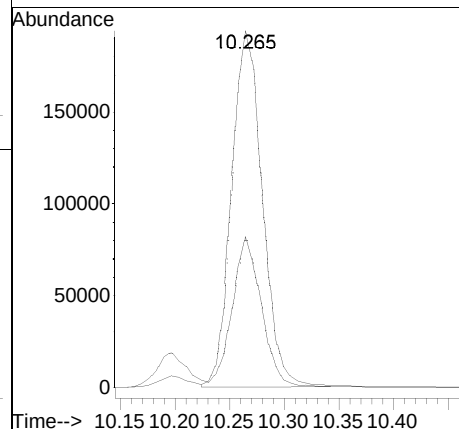
Acq: 24 Jun 2025 7:36 am

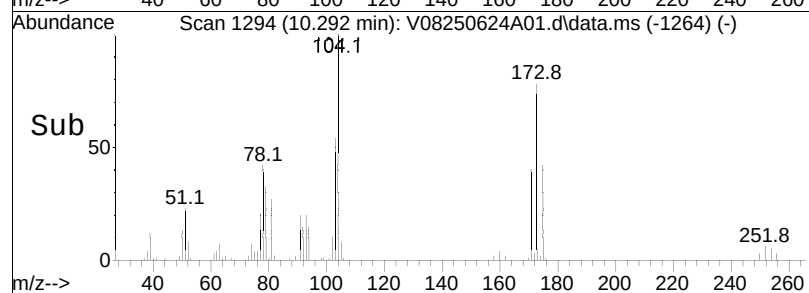
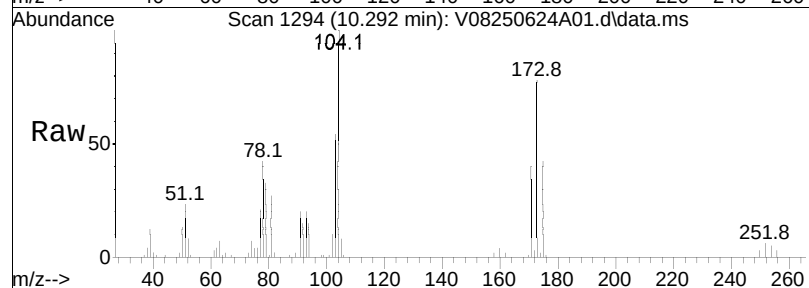
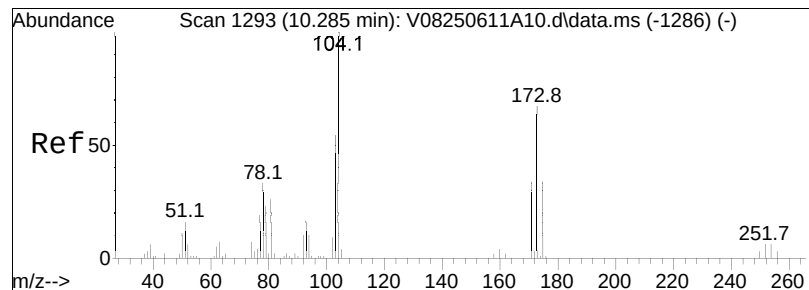
Tgt Ion:104 Resp: 378196

Ion Ratio Lower Upper

104 100

78 40.4 31.9 47.9





#80

Bromoform

Concen: 8.33 ug/L

RT: 10.292 min Scan# 1294

Delta R.T. 0.007 min

Lab File: V08250624A01.d

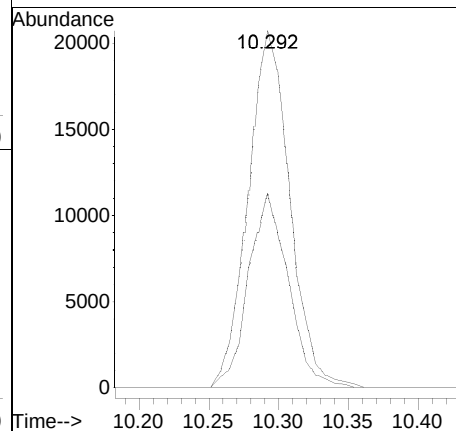
Acq: 24 Jun 2025 7:36 am

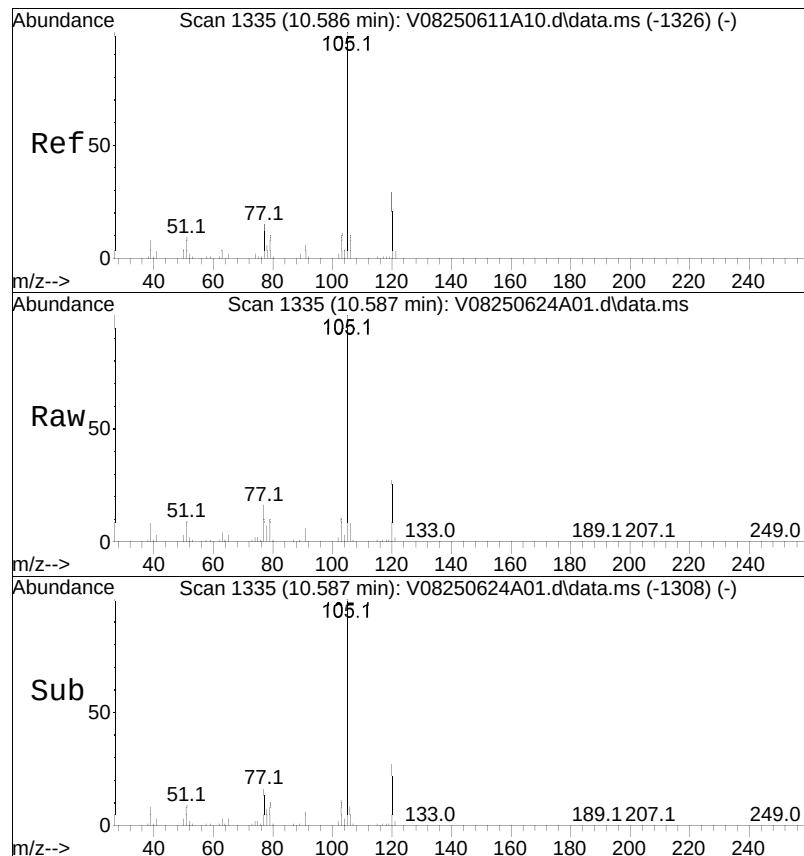
Tgt Ion:173 Resp: 42852

Ion Ratio Lower Upper

173 100

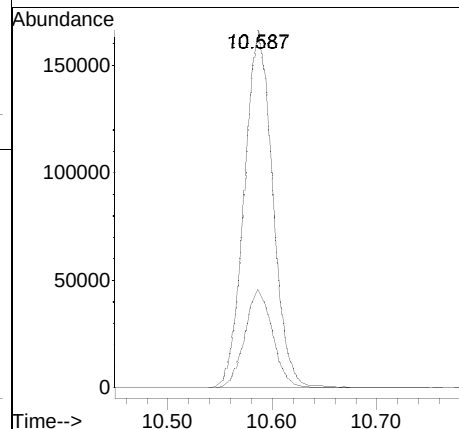
175 52.0 27.4 67.4

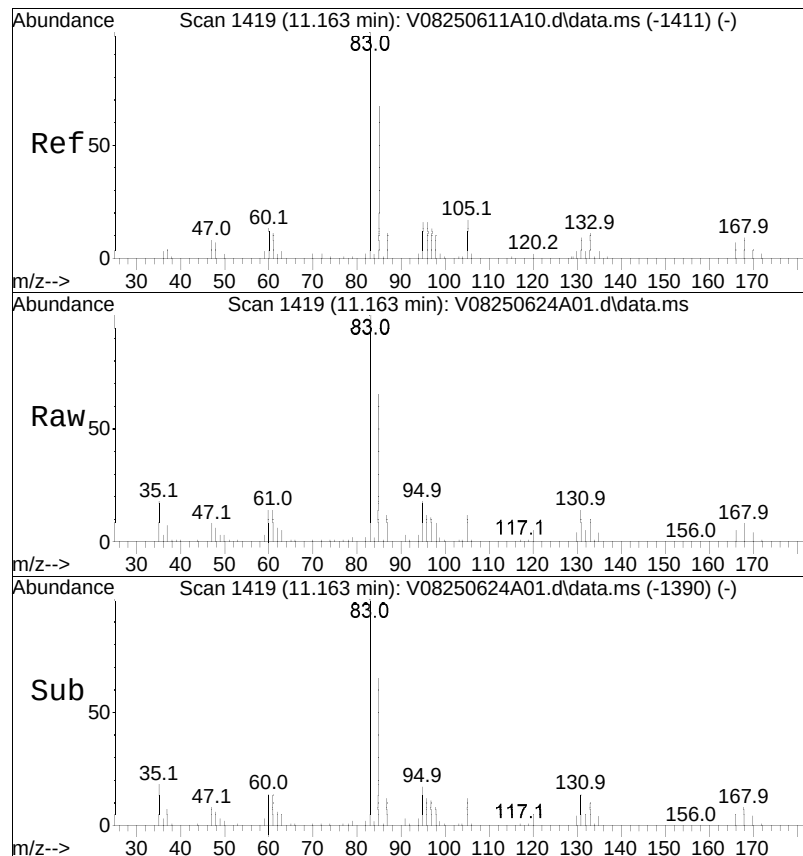




#82
Isopropylbenzene
Concen: 8.72 ug/L
RT: 10.587 min Scan# 1335
Delta R.T. 0.001 min
Lab File: V08250624A01.d
Acq: 24 Jun 2025 7:36 am

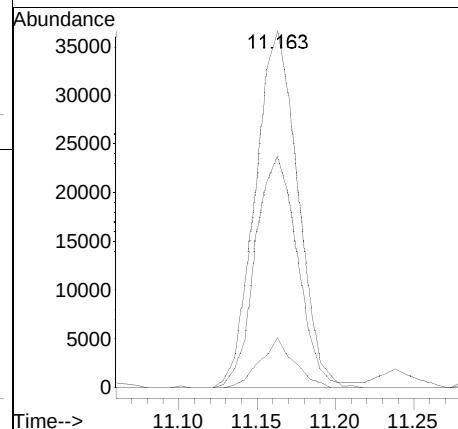
Tgt Ion	105	120	Ratio	100	Lower	Upper
105	100					
120	27.0		7.3		47.3	

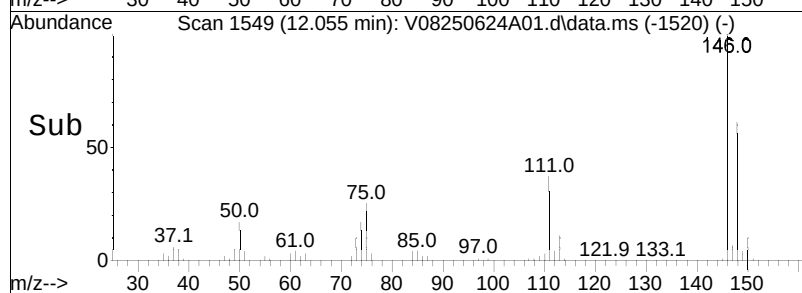
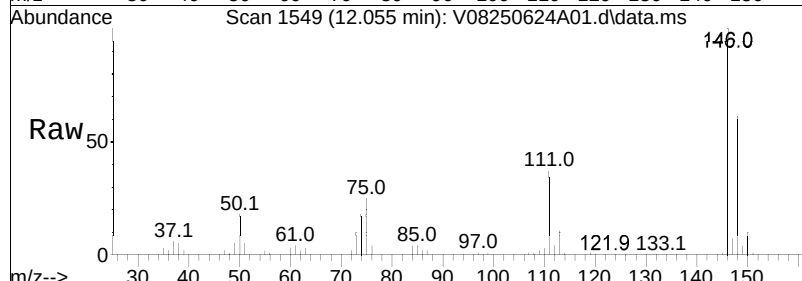
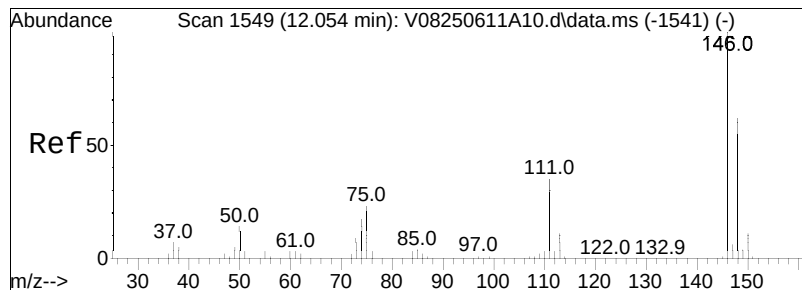




#87
 1,1,2,2-Tetrachloroethane
 Concen: 10.16 ug/L
 RT: 11.163 min Scan# 1419
 Delta R.T. -0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

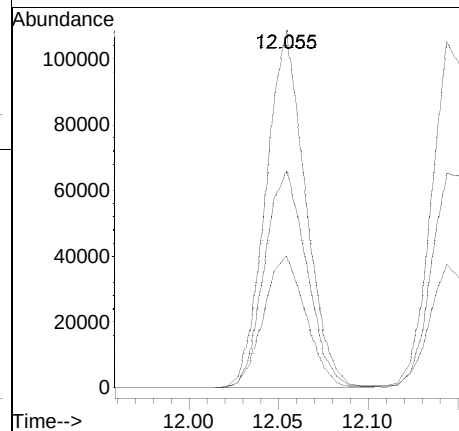
Tgt Ion:	83	Resp:	68699
Ion Ratio	Lower	Upper	
83	100		
131	11.3	0.0	29.6
85	64.8	49.7	89.7

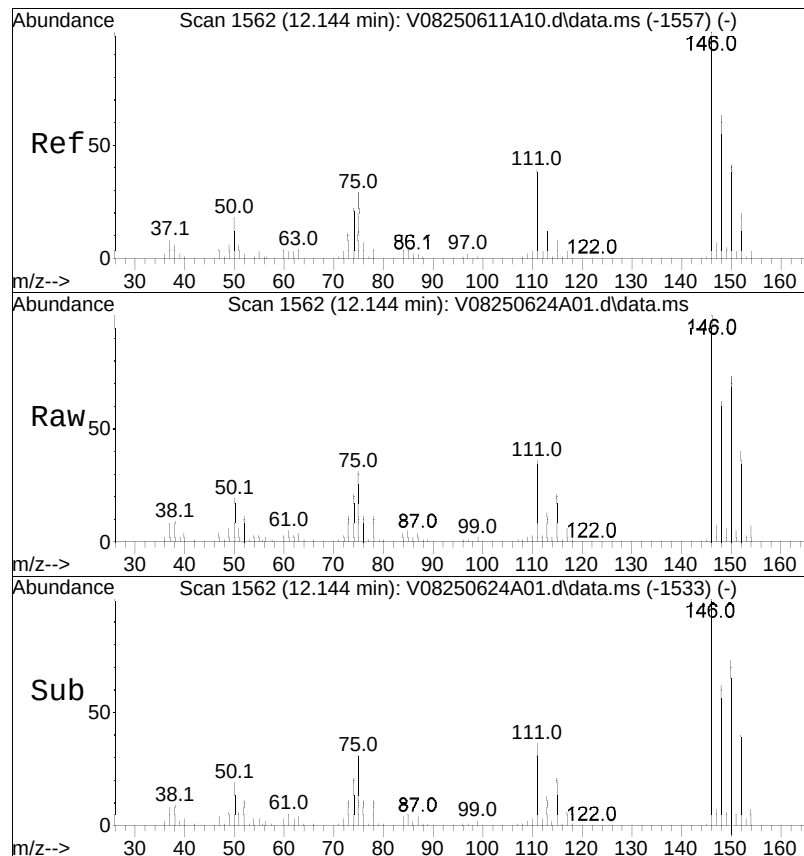




#100
 1,3-Dichlorobenzene
 Concen: 8.44 ug/L
 RT: 12.055 min Scan# 1549
 Delta R.T. 0.001 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

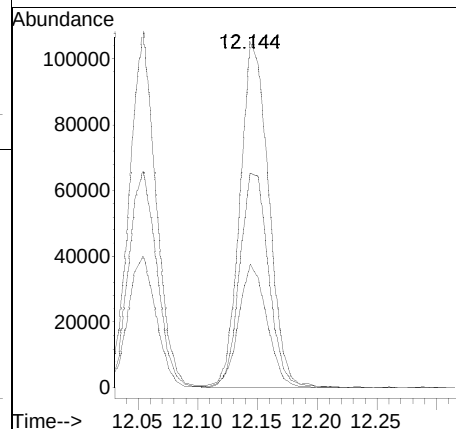
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	24.4	50.6
148	64.4	41.0	85.2

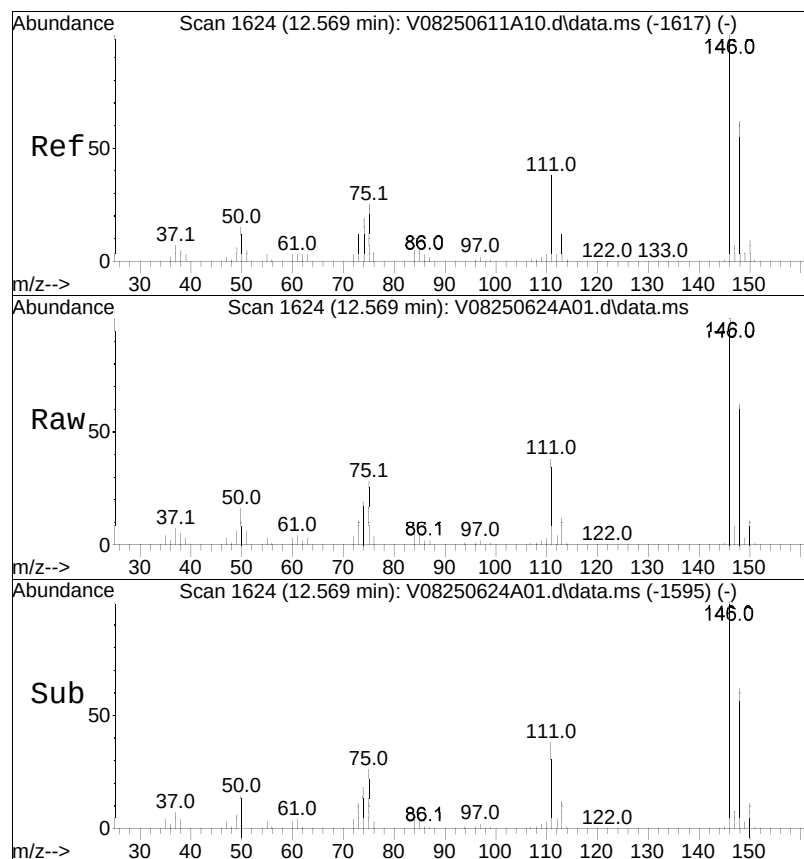




#101
 1,4-Dichlorobenzene
 Concen: 8.70 ug/L
 RT: 12.144 min Scan# 1562
 Delta R.T. -0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

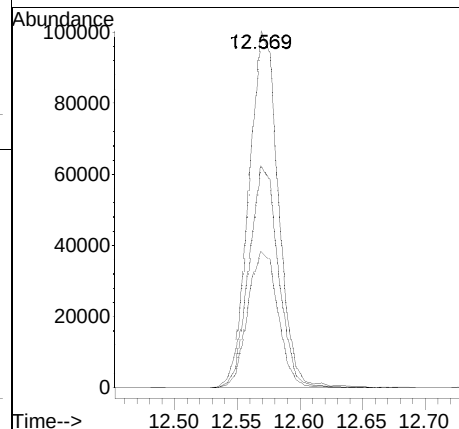
Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.6	29.8	44.6
148	62.4	50.9	76.3

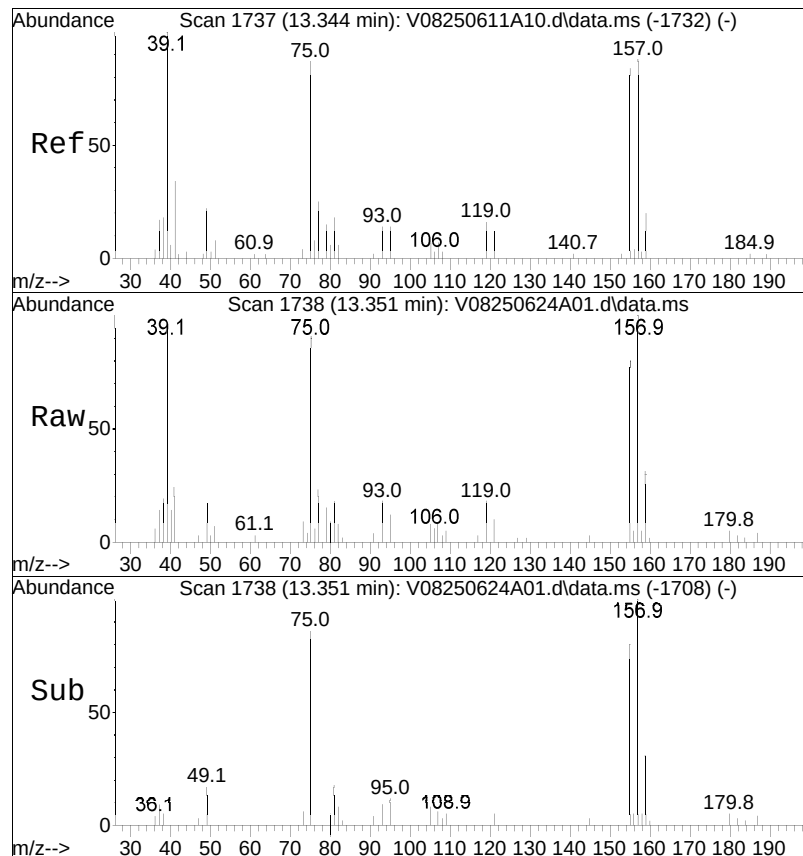




#104
 1,2-Dichlorobenzene
 Concen: 8.90 ug/L
 RT: 12.569 min Scan# 1624
 Delta R.T. 0.000 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

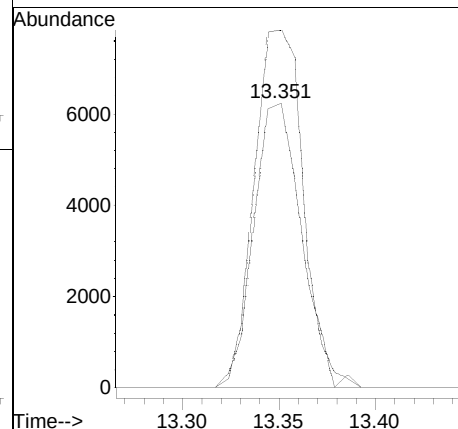
Tgt Ion:	146	Resp:	163164
Ion Ratio	Lower	Upper	
146	100		
111	39.5	25.0	51.8
148	62.1	40.0	83.2

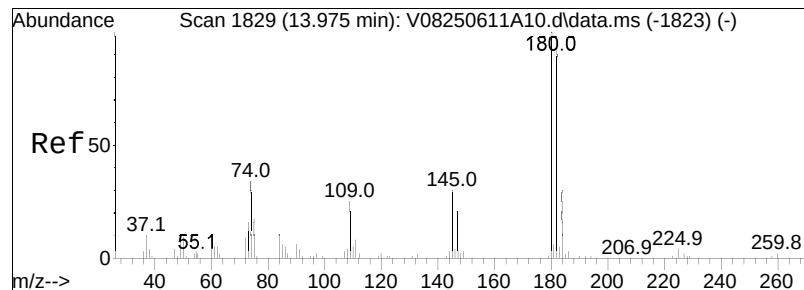




#106
 1,2-Dibromo-3-chloropropane
 Concen: 9.98 ug/L
 RT: 13.351 min Scan# 1738
 Delta R.T. 0.007 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

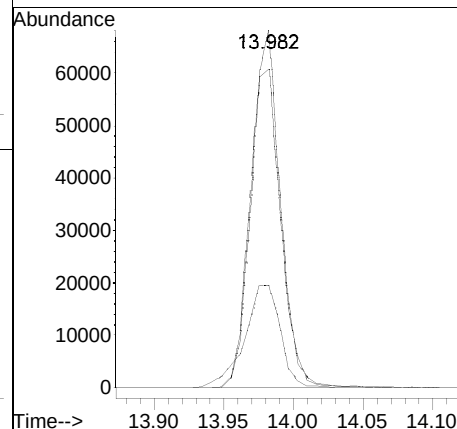
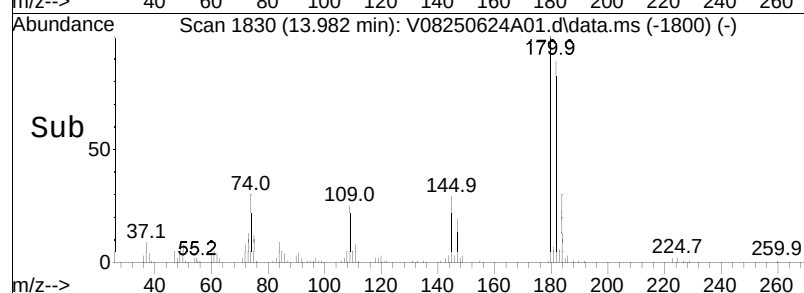
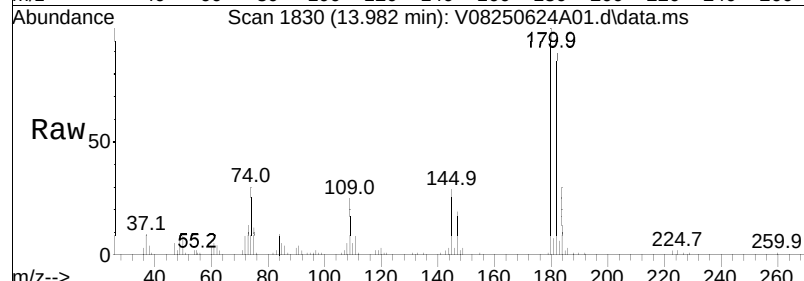
Tgt Ion	Ratio	Lower	Upper
155	100		
157	128.6	97.9	146.9

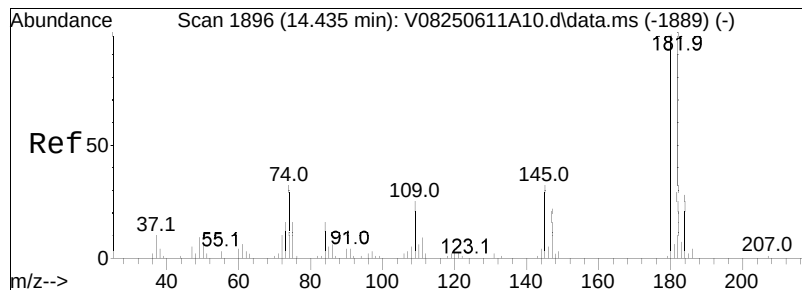




#109
 1,2,4-Trichlorobenzene
 Concen: 8.27 ug/L
 RT: 13.982 min Scan# 1830
 Delta R.T. 0.007 min
 Lab File: V08250624A01.d
 Acq: 24 Jun 2025 7:36 am

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.9	74.1	111.1
145	35.1	27.8	41.8





#111

1,2,3-Trichlorobenzene

Concen: 8.25 ug/L

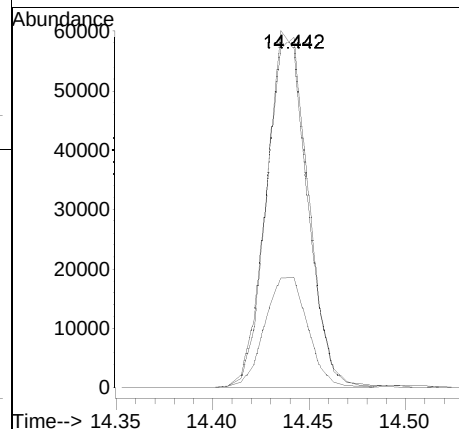
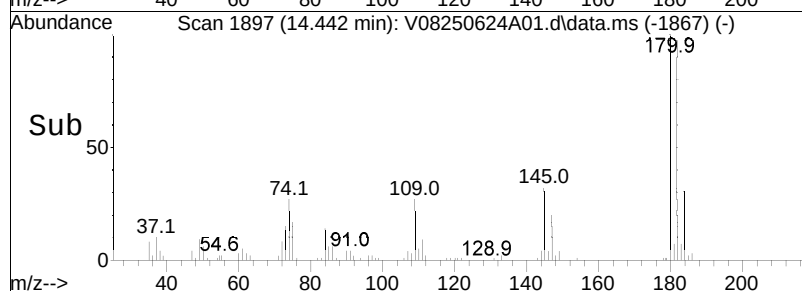
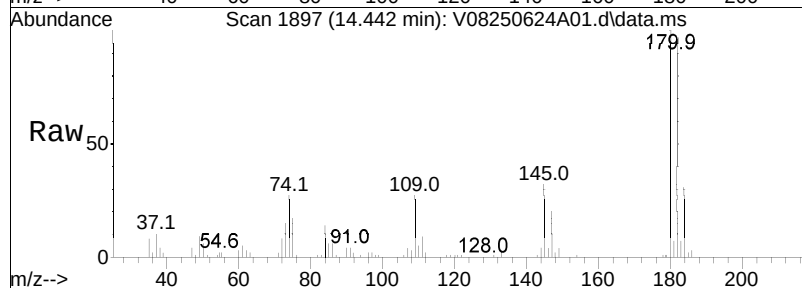
RT: 14.442 min Scan# 1897

Delta R.T. 0.007 min

Lab File: V08250624A01.d

Acq: 24 Jun 2025 7:36 am

Tgt Ion:	180	Resp:	89082
Ion Ratio	Lower	Upper	
180	100		
182	97.8	76.1	114.1
145	32.4	25.9	38.9



Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A02.D
 Acq On : 24 Jun 2025 7:59 am
 Operator : VOA105:PID
 Sample : WG2083406-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083406,ICAL22348 (Sig #1); WG,ICAL22348 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 24 08:23:36 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.507	96	330915	10.000	ug/L	0.00
Standard Area 1 = 334495			Recovery	=	98.93%	
59) Chlorobenzene-d5	8.985	117	263430	10.000	ug/L	0.00
Standard Area 1 = 267591			Recovery	=	98.45%	
79) 1,4-Dichlorobenzene-d4	11.797	152	163130	10.000	ug/L	0.00
Standard Area 1 = 168616			Recovery	=	96.75%	
System Monitoring Compounds						
36) Dibromofluoromethane	4.732	113	94545	10.886	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	108.86%	
43) 1,2-Dichloroethane-d4	5.238	65	103610	10.290	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	102.90%	
60) Toluene-d8	7.165	98	329530	9.462	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	94.62%	
83) 4-Bromofluorobenzene	10.531	95	128445	8.573	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	85.73%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.431	85	90834	9.312	ug/L	99
3) Chloromethane	1.596	50	110656	8.751	ug/L	99
4) Vinyl chloride	1.657	62	102629	9.143	ug/L	100
5) Bromomethane	1.925	94	42014	10.525	ug/L	96
6) Chloroethane	2.021	64	61104	11.206	ug/L	98
7) Trichlorofluoromethane	2.145	101	128635	12.310	ug/L	99
10) 1,1-Dichloroethene	2.591	96	67512	9.735	ug/L	96
11) Carbon disulfide	2.618	76	213934	13.660	ug/L	98
12) Freon-113	2.618	101	73696	11.326	ug/L	# 70
15) Methylene chloride	3.112	84	84754	9.407	ug/L	98
17) Acetone	3.181	43	14151	7.714	ug/L	94
18) trans-1,2-Dichloroethene	3.250	96	84562	9.763	ug/L	95
19) Methyl acetate	3.277	43	34895	9.805	ug/L	99
20) Methyl tert-butyl ether	3.346	73	149364	7.545	ug/L	# 92
23) 1,1-Dichloroethane	3.806	63	171452	9.398	ug/L	99
28) cis-1,2-Dichloroethene	4.307	96	93867	9.764	ug/L	91
30) Bromochloromethane	4.492	128	43767	10.783	ug/L	93
31) Cyclohexane	4.471	56	184087	9.166	ug/L	99
32) Chloroform	4.561	83	148759	9.781	ug/L	98
34) Carbon tetrachloride	4.671	117	120057	10.297	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A02.D
 Acq On : 24 Jun 2025 7:59 am
 Operator : VOA105:PID
 Sample : WG2083406-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083406,ICAL22348 (Sig #1); WG,ICAL22348 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 24 08:23:36 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA105\2025\250624A\V05250624A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	4.739	97	133751	10.108	ug/L	99
39)	2-Butanone	4.863	43	19322	7.724	ug/L	91
41)	Benzene	5.097	78	339149	9.712	ug/L	100
44)	1,2-Dichloroethane	5.309	62	105357	9.573	ug/L	100
47)	Methylcyclohexane	5.655	83	138135	9.613	ug/L	100
48)	Trichloroethene	5.683	95	88518	9.603	ug/L	97
51)	1,2-Dichloropropane	6.212	63	89072	9.071	ug/L	98
54)	Bromodichloromethane	6.297	83	105139	9.281	ug/L	98
58)	cis-1,3-Dichloropropene	6.974	75	108594	8.268	ug/L	99
61)	Toluene	7.221	92	199103	8.894	ug/L	100
62)	4-Methyl-2-pentanone	7.673	58	15540	6.664	ug/L	90
63)	Tetrachloroethene	7.659	166	99114	10.363	ug/L	99
65)	trans-1,3-Dichloropropene	7.715	75	85274	7.642	ug/L	93
68)	1,1,2-Trichloroethane	7.898	83	46788	8.667	ug/L	97
69)	Chlorodibromomethane	8.103	129	71374	8.815	ug/L	99
71)	1,2-Dibromoethane	8.364	107	55487	8.830	ug/L	98
72)	2-Hexanone	8.675	43	26192	6.862	ug/L #	91
73)	Chlorobenzene	9.006	112	233290	9.366	ug/L	98
74)	Ethylbenzene	9.041	91	392211	9.069	ug/L	100
76)	p/m Xylene	9.232	106	314294	18.922	ug/L	99
77)	o Xylene	9.775	106	301458	18.592	ug/L	100
78)	Styrene	9.846	104	495640	18.810	ug/L	99
80)	Bromoform	9.874	173	39896	7.641	ug/L	99
82)	Isopropylbenzene	10.185	105	407494	8.171	ug/L	98
87)	1,1,2,2-Tetrachloroethane	10.807	83	62680	7.562	ug/L	99
100)	1,3-Dichlorobenzene	11.713	146	209261	9.627	ug/L	98
101)	1,4-Dichlorobenzene	11.812	146	210739	9.499	ug/L	98
104)	1,2-Dichlorobenzene	12.243	146	185233	9.428	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.042	155	9173	7.430	ug/L	96
109)	1,2,4-Trichlorobenzene	13.679	180	117033	9.383	ug/L	99
111)	1,2,3-Trichlorobenzene	14.139	180	97675	9.277	ug/L	98

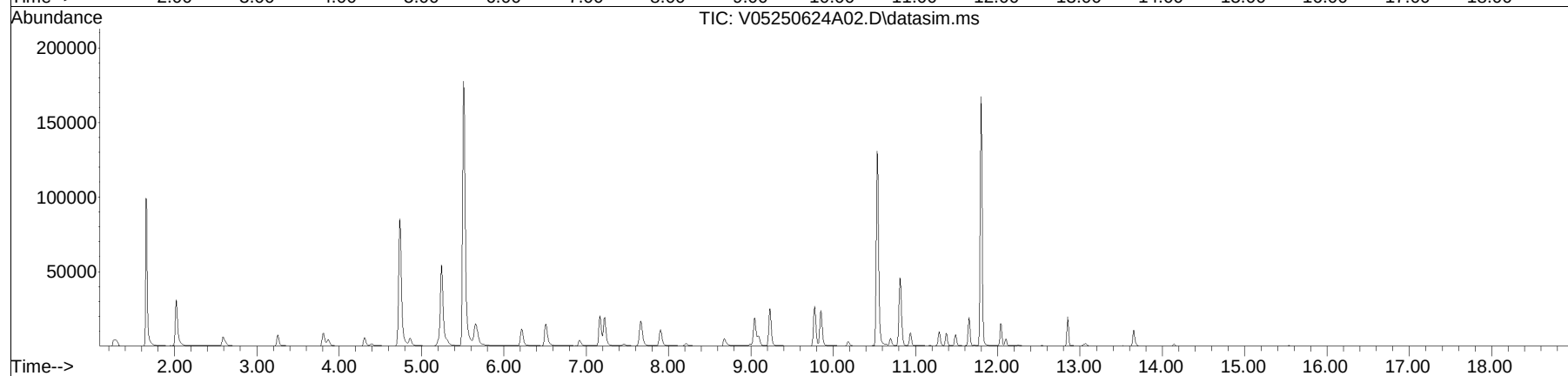
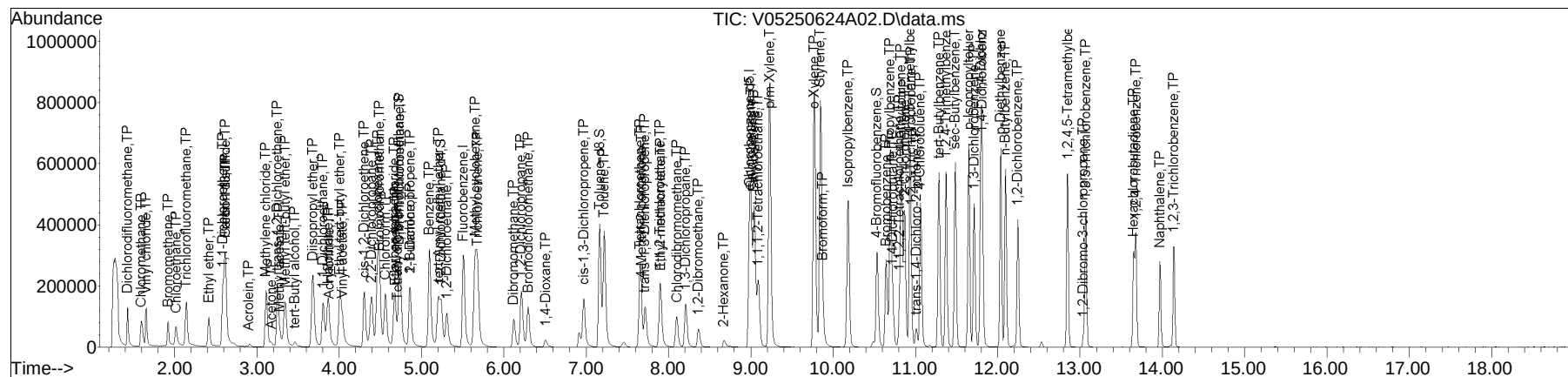
(#) = qualifier out of range (m) = manual integration (+) = signals summed

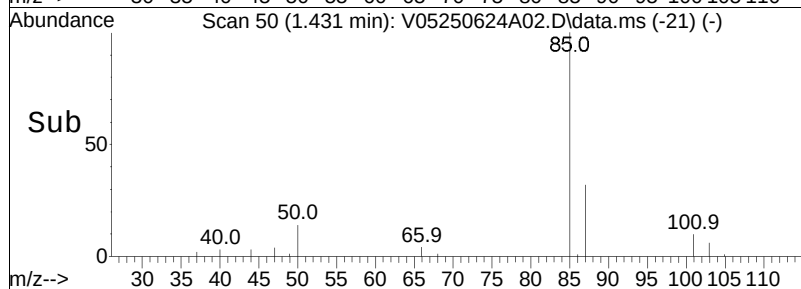
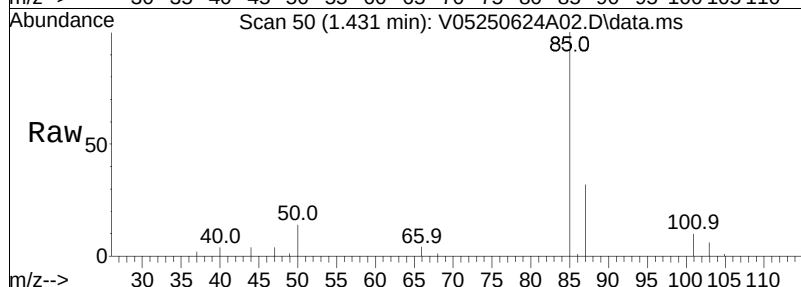
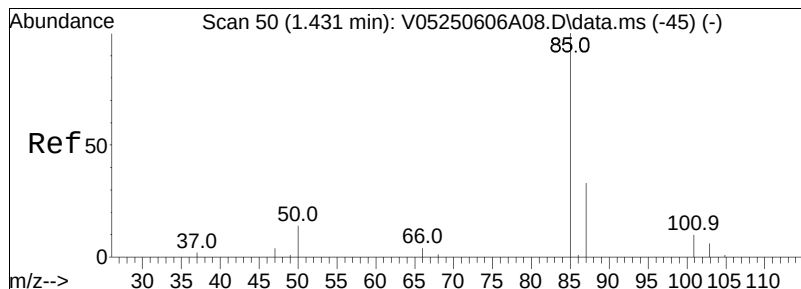
Quantitation Report (QT Reviewed)

Data Path : K:\VOA105\2025\250624A\
 Data File : V05250624A02.D
 Acq On : 24 Jun 2025 7:59 am
 Operator : VOA105:PID
 Sample : WG2083406-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083406,ICAL22348 (Sig #1); WG,ICAL22348 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 24 08:23:36 2025
 Quant Method : K:\VOA105\2025\250624A\V105_250606A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Jun 07 13:58:51 2025
 Response via : Initial Calibration

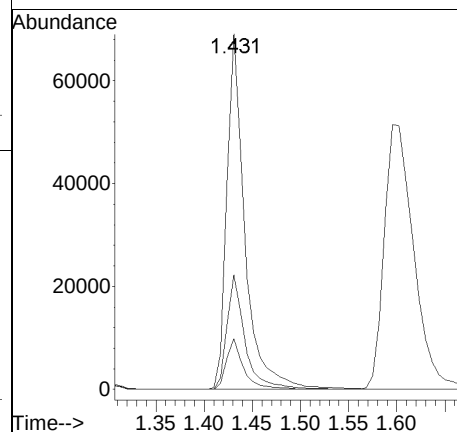
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

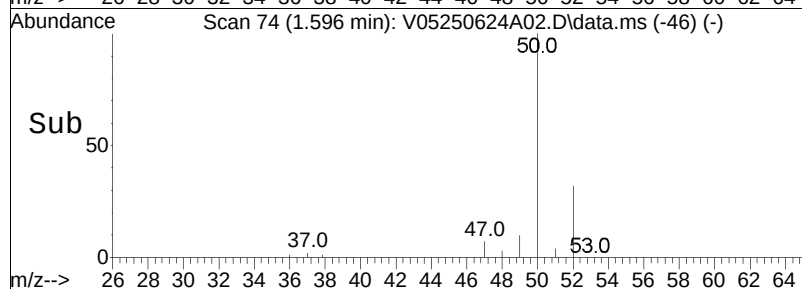
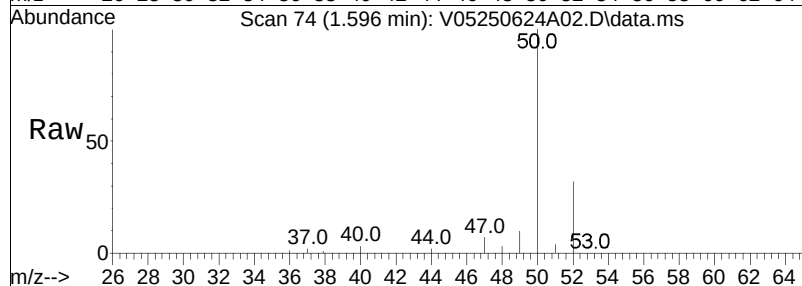
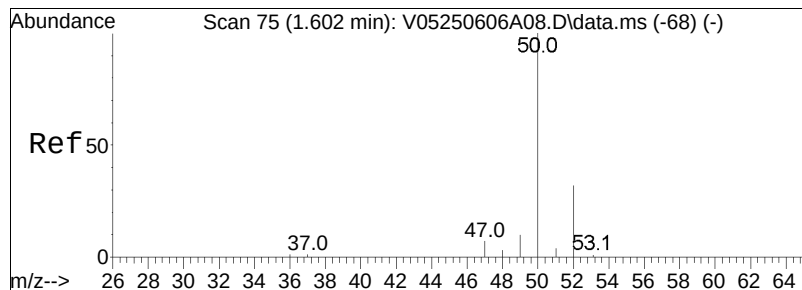




#2
 Dichlorodifluoromethane
 Concen: 9.31 ug/L
 RT: 1.431 min Scan# 50
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

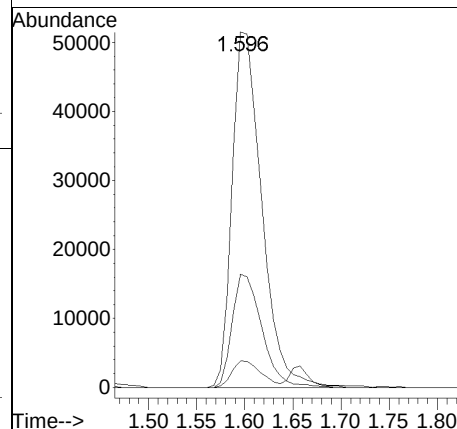
Tgt Ion:	85	Resp:	90834
Ion Ratio	Lower	Upper	
85	100		
87	32.0	20.7	42.9
50	13.5	9.1	18.9

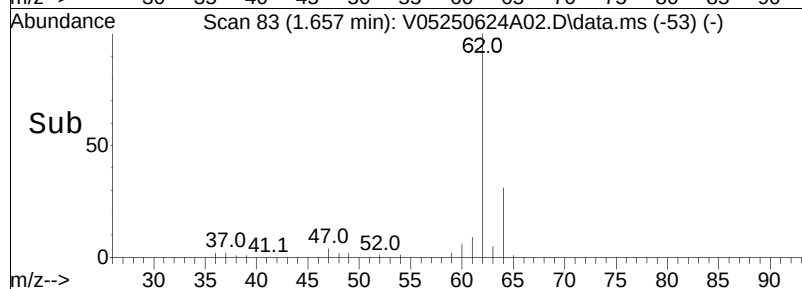
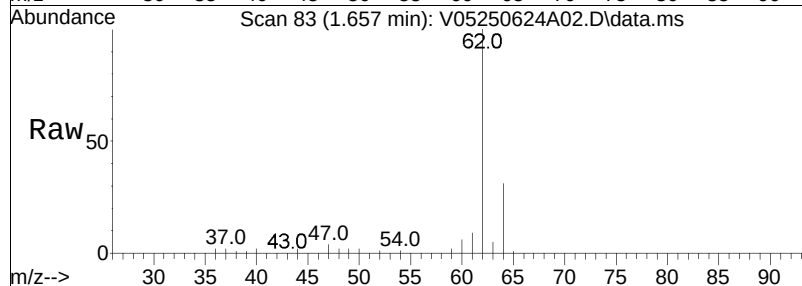
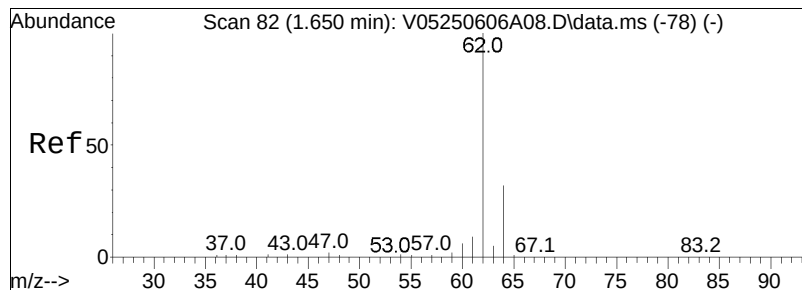




#3
 Chloromethane
 Concen: 8.75 ug/L
 RT: 1.596 min Scan# 74
 Delta R.T. -0.006 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

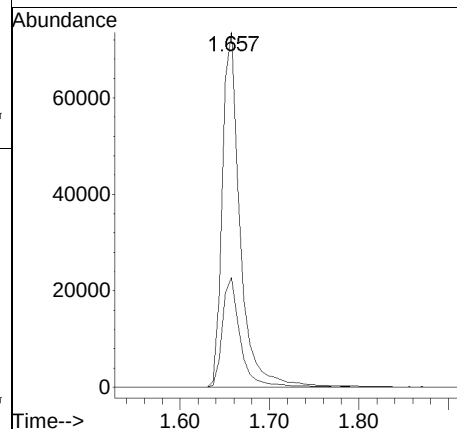
Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.7	12.1	52.1
47	7.4	0.0	27.0

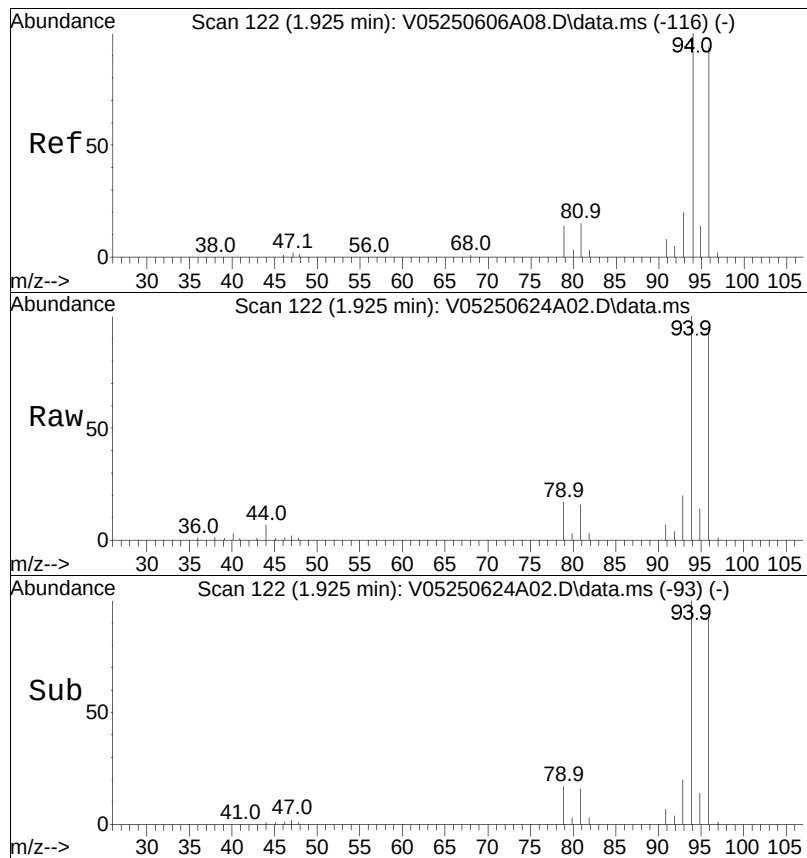




#4
 Vinyl chloride
 Concen: 9.14 ug/L
 RT: 1.657 min Scan# 83
 Delta R.T. 0.007 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

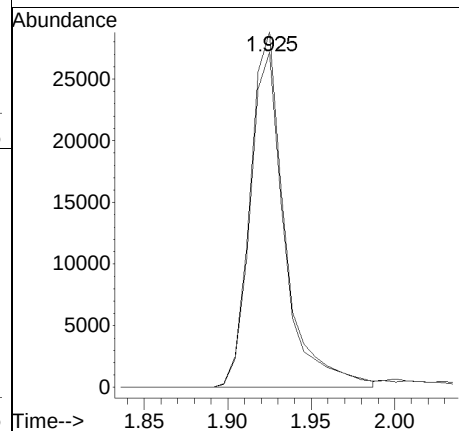
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.2	11.1	51.1

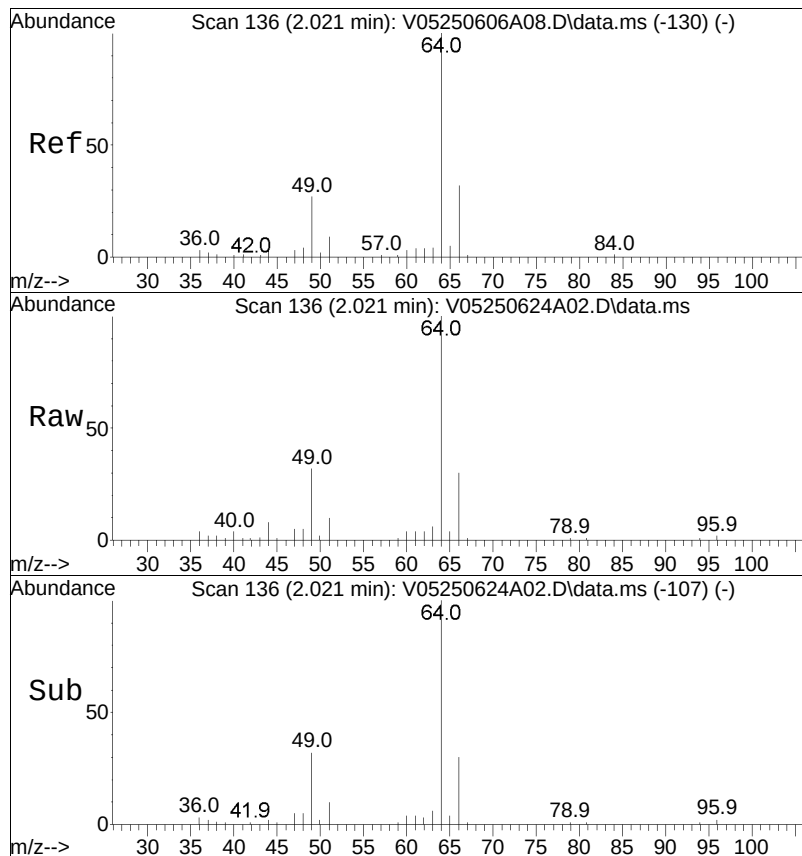




#5
 Bromomethane
 Concen: 10.52 ug/L
 RT: 1.925 min Scan# 122
 Delta R.T. 0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

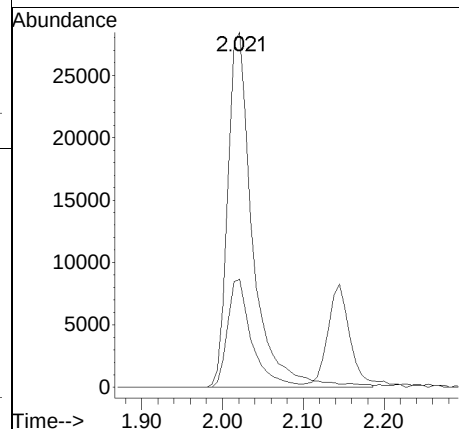
Tgt Ion	Ratio	Lower	Upper
94	100		
96	96.4	73.0	113.0

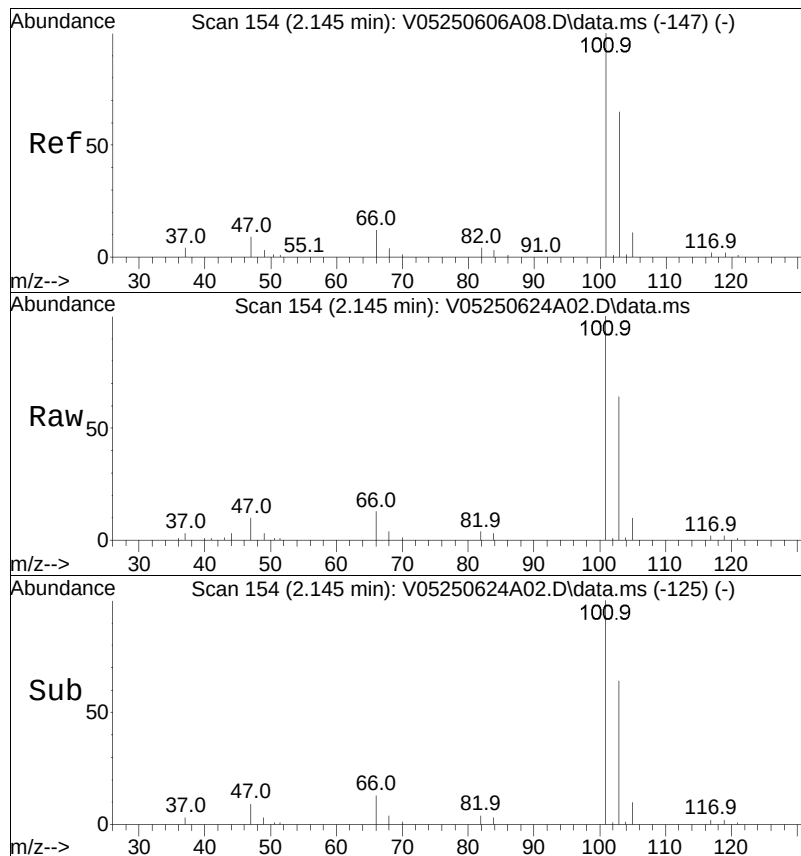




#6
 Chloroethane
 Concen: 11.21 ug/L
 RT: 2.021 min Scan# 136
 Delta R.T. 0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

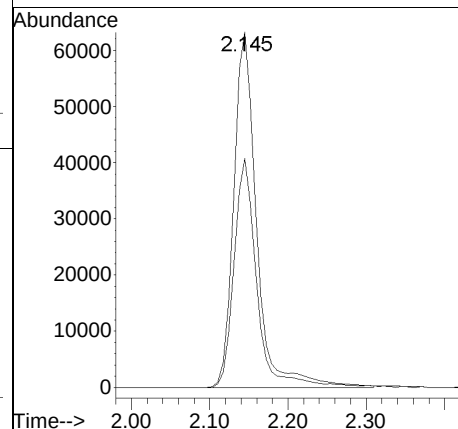
Tgt Ion:	64	Resp:	61104
Ion Ratio	Lower	Upper	
64	100		
66	29.7	10.9	50.9

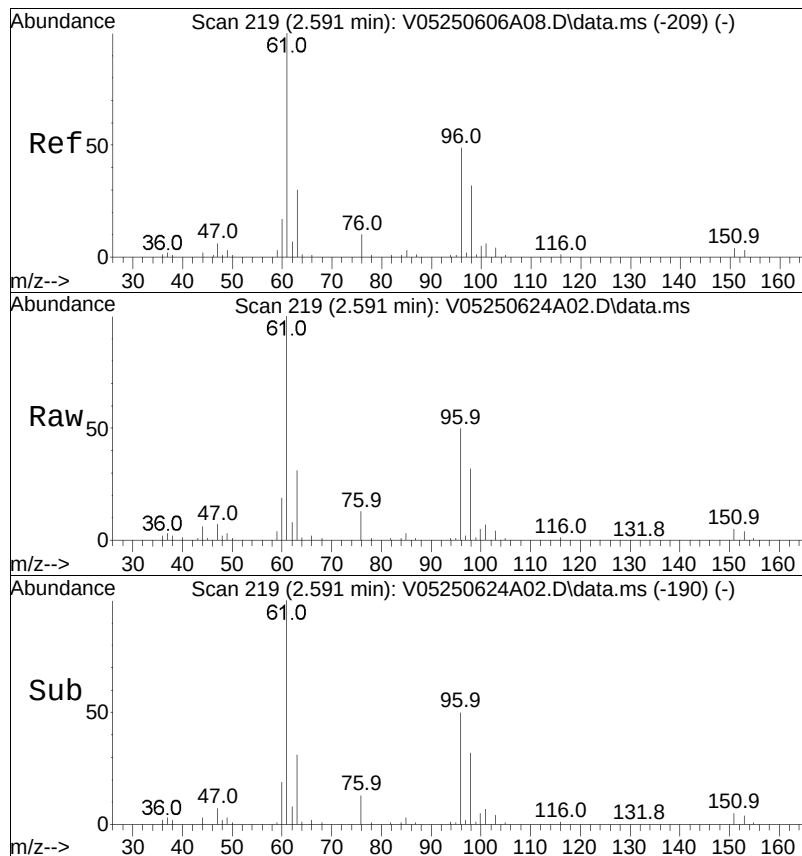




#7
 Trichlorofluoromethane
 Concen: 12.31 ug/L
 RT: 2.145 min Scan# 154
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

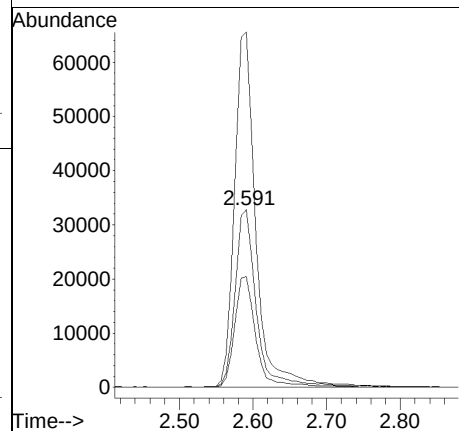
Tgt Ion	101	Resp	128635
Ion Ratio	Lower	Upper	
101	100		
103	64.2	51.8	77.8

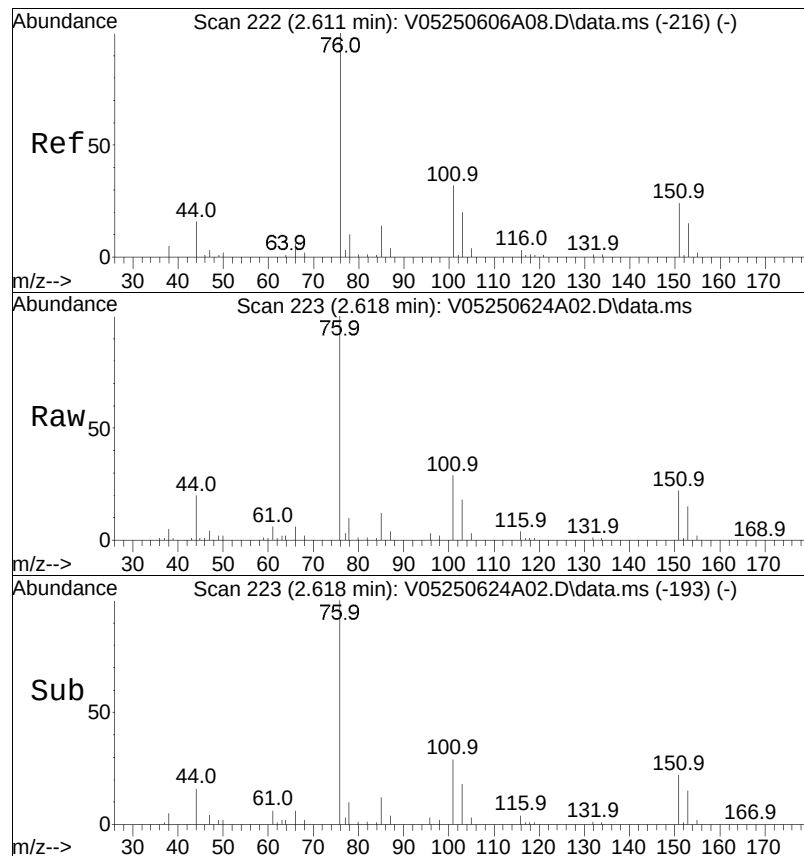




#10
 1,1-Dichloroethene
 Concen: 9.73 ug/L
 RT: 2.591 min Scan# 219
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

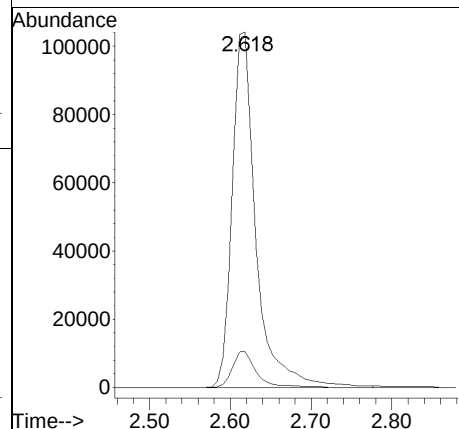
Tgt Ion	Ratio	Lower	Upper
96	100		
61	197.4	163.0	244.6
63	61.7	50.2	75.4

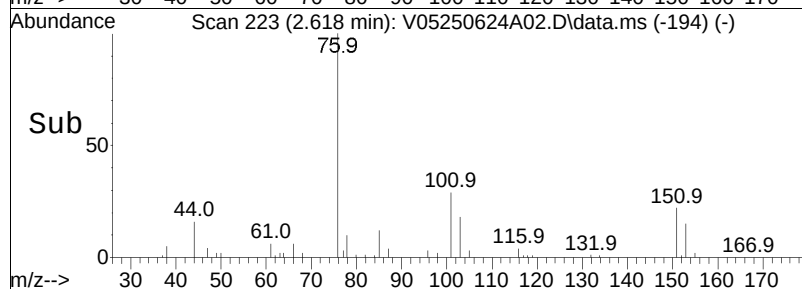
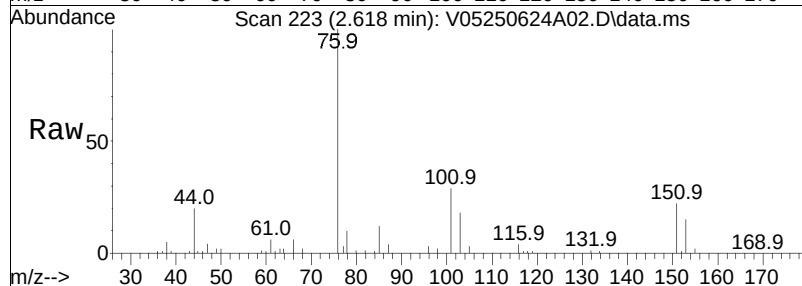
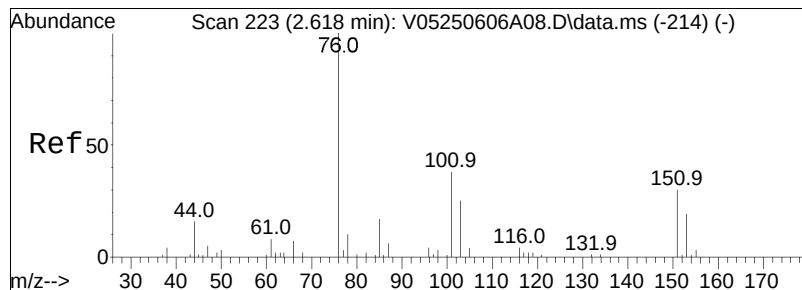




#11
 Carbon disulfide
 Concen: 13.66 ug/L
 RT: 2.618 min Scan# 223
 Delta R.T. 0.007 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

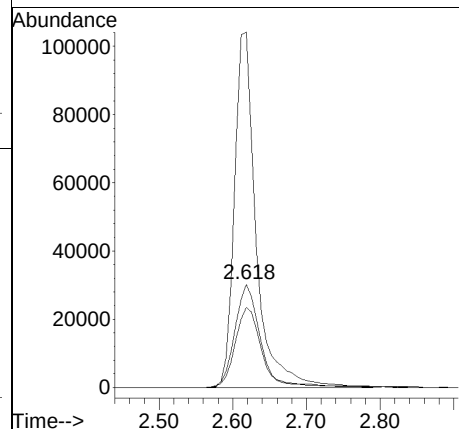
Tgt Ion	Ratio	Lower	Upper
76	100		
78	10.2	7.1	14.7

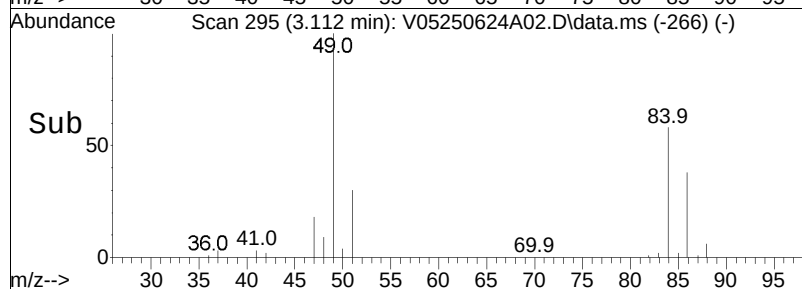
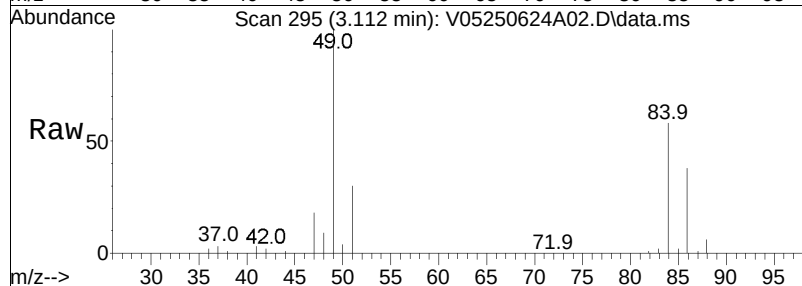
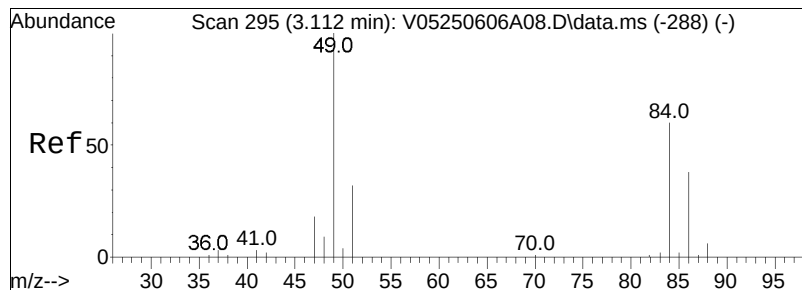




#12
 Freon-113
 Concen: 11.33 ug/L
 RT: 2.618 min Scan# 223
 Delta R.T. 0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

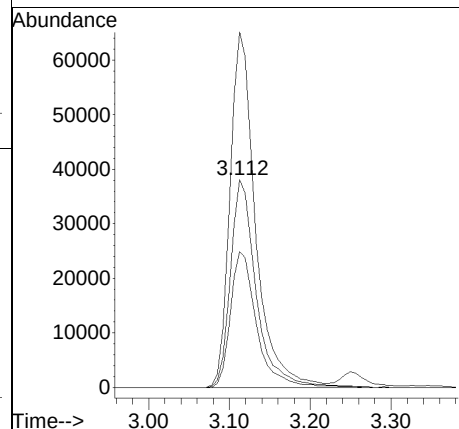
Tgt Ion	Ratio	Lower	Upper
101	100		
151	79.6	61.6	92.4
76	290.7	180.6	271.0#

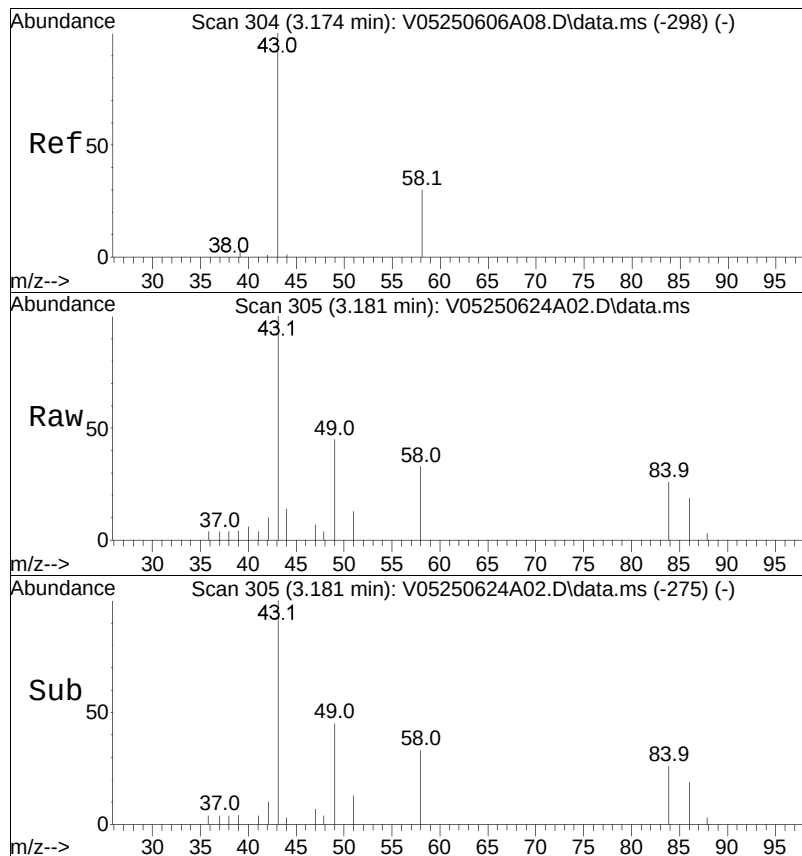




#15
Methylene chloride
Concen: 9.41 ug/L
RT: 3.112 min Scan# 295
Delta R.T. 0.000 min
Lab File: V05250624A02.D
Acq: 24 Jun 2025 7:59 am

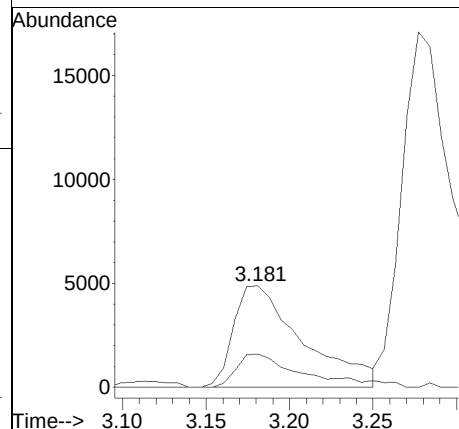
Tgt Ion	Ratio	Lower	Upper
84	100		
86	66.2	41.3	85.9
49	168.8	108.0	224.4

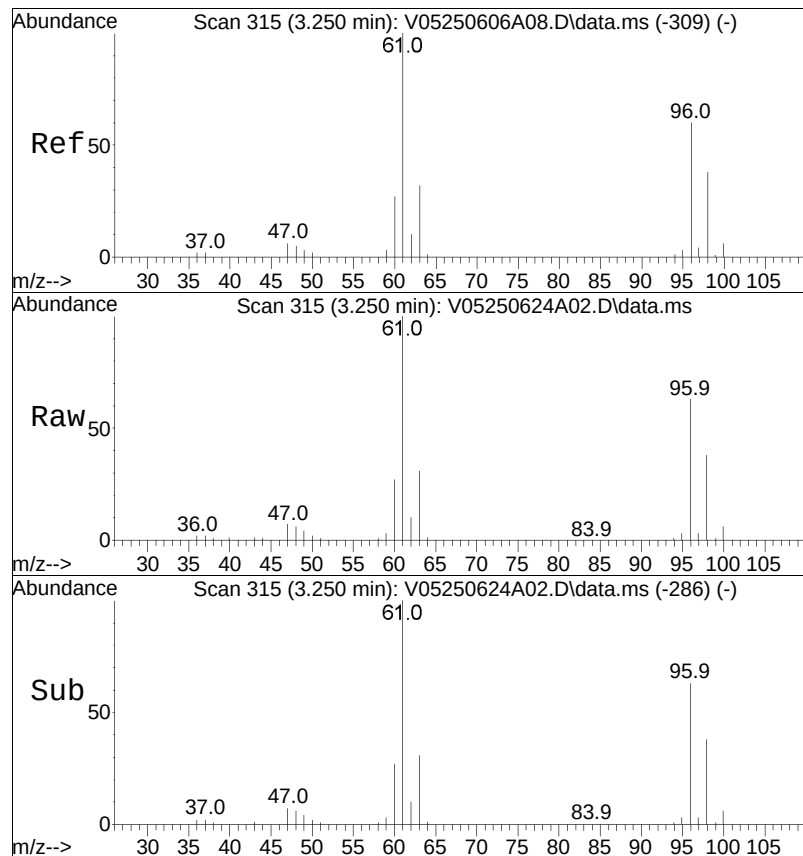




#17
 Acetone
 Concen: 7.71 ug/L
 RT: 3.181 min Scan# 305
 Delta R.T. 0.007 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

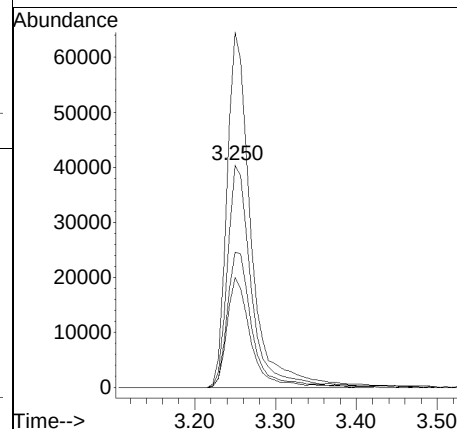
Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.8	28.3	42.5

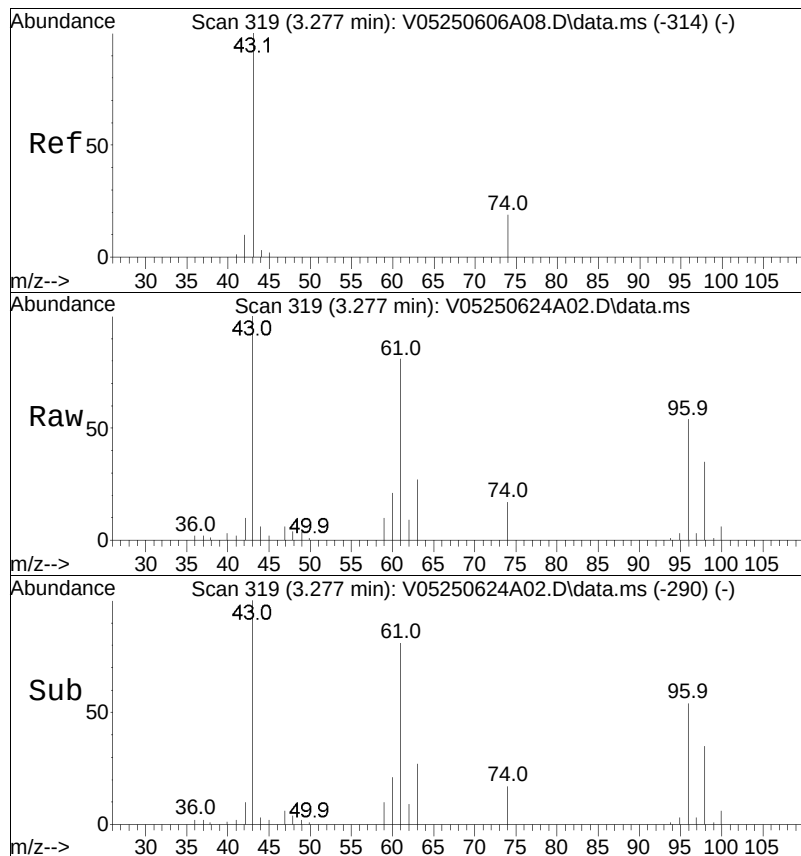




#18
 trans-1,2-Dichloroethene
 Concen: 9.76 ug/L
 RT: 3.250 min Scan# 315
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

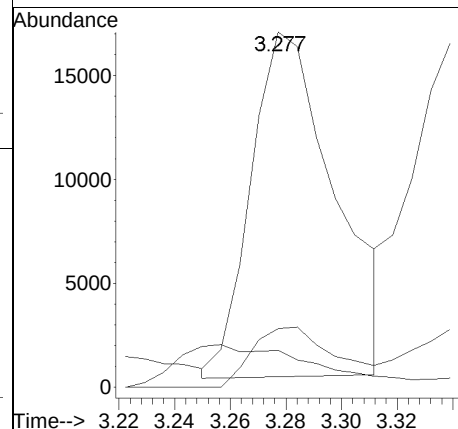
Tgt Ion:	96	Resp:	84562
Ion Ratio	Lower	Upper	
96	100		
61	159.3	110.0	228.4
98	63.0	41.3	85.9
63	48.6	33.8	70.2

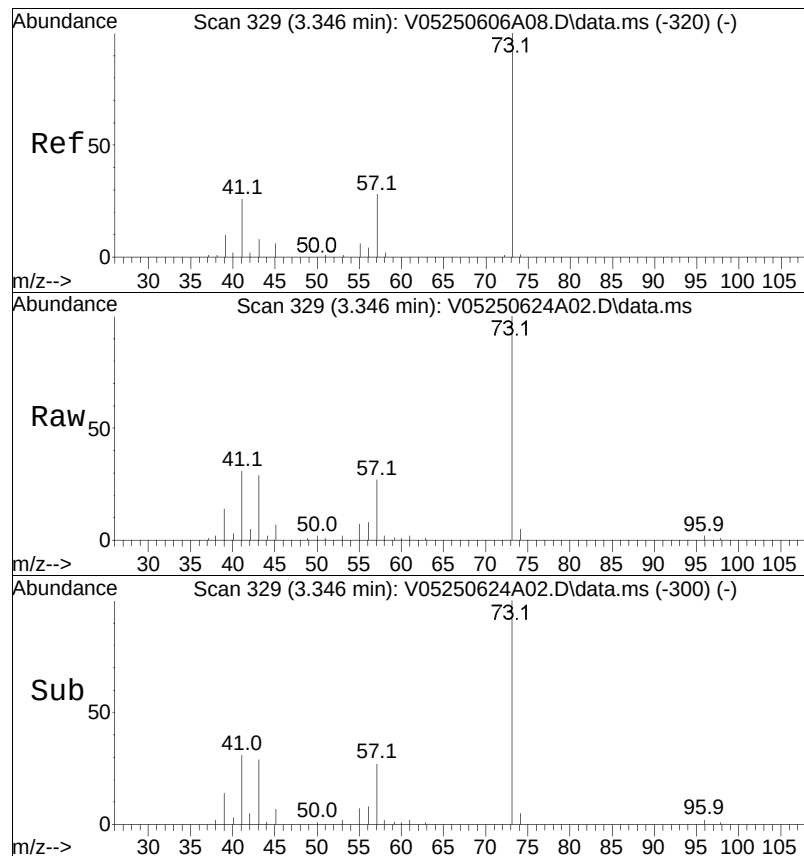




#19
Methyl acetate
Concen: 9.80 ug/L
RT: 3.277 min Scan# 319
Delta R.T. 0.000 min
Lab File: V05250624A02.D
Acq: 24 Jun 2025 7:59 am

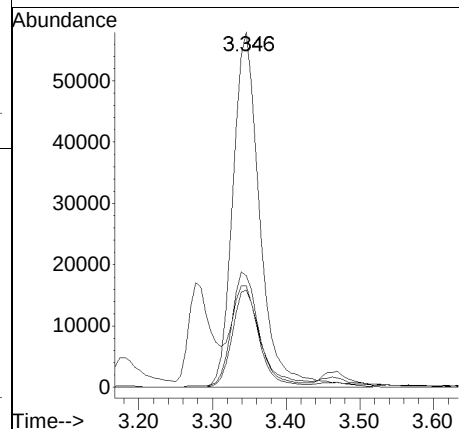
Tgt Ion	Ratio	Lower	Upper
43	100		
74	17.5	14.4	21.6
59	23.1	17.8	26.8

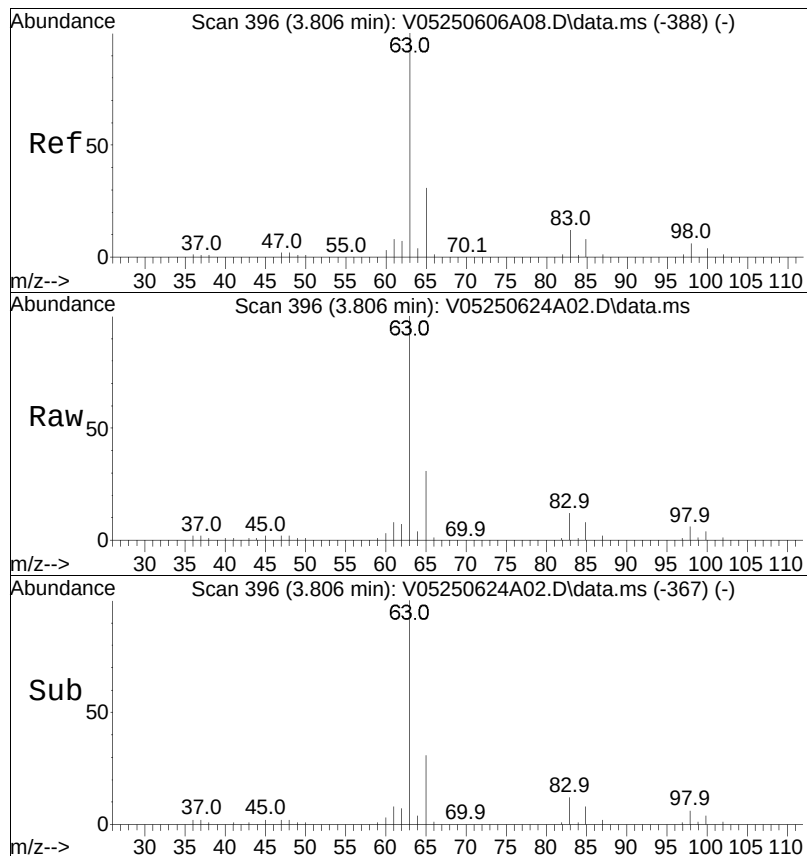




#20
Methyl tert-butyl ether
Concen: 7.55 ug/L
RT: 3.346 min Scan# 329
Delta R.T. -0.000 min
Lab File: V05250624A02.D
Acq: 24 Jun 2025 7:59 am

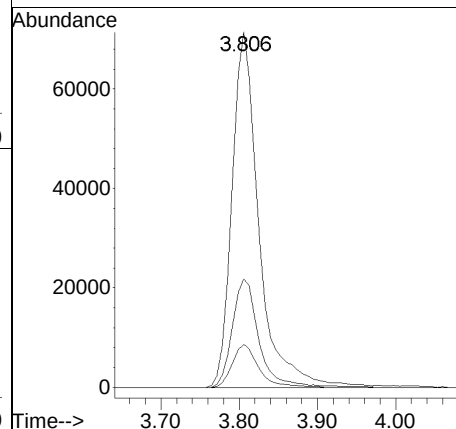
Tgt Ion:	73	Resp:	149364
Ion Ratio	Lower	Upper	
73	100		
57	27.4	17.9	37.1
43	28.3	16.4	34.2
41	33.5	16.1	33.5#

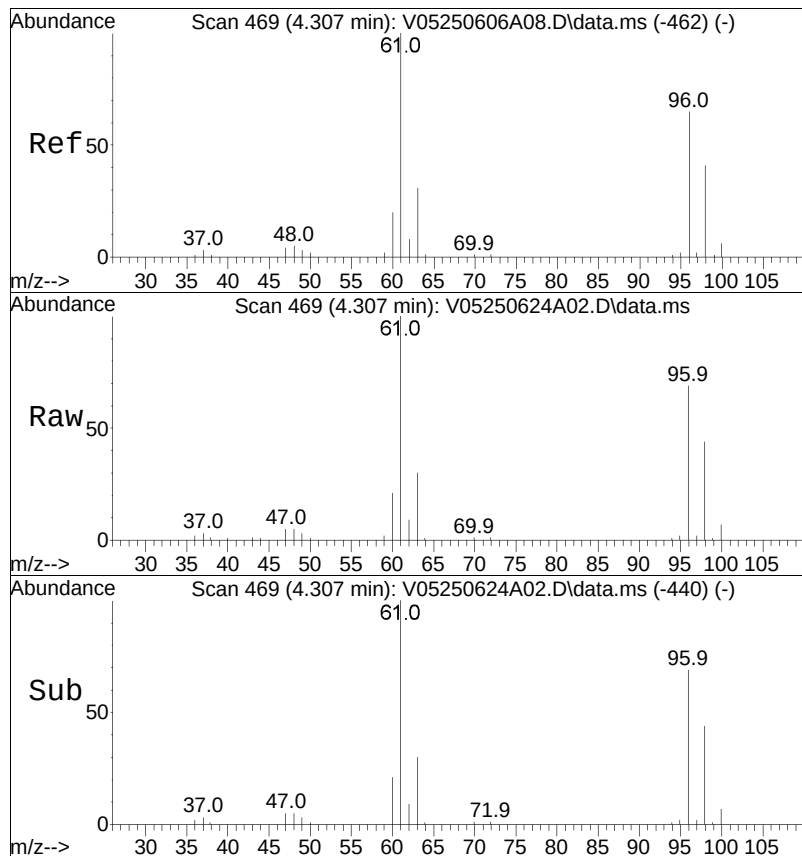




#23
 1,1-Dichloroethane
 Concen: 9.40 ug/L
 RT: 3.806 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

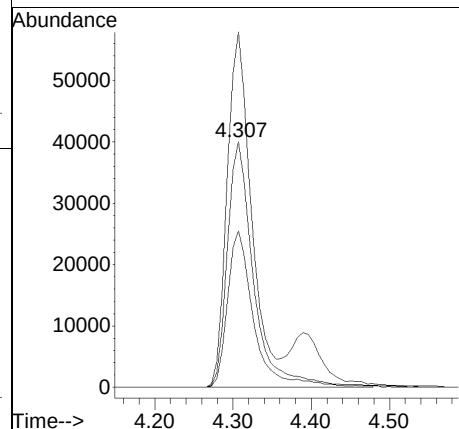
Tgt	Ion	Ratio	Lower	Upper
63	100			
65	30.2	10.5	50.5	
83	11.8	0.0	31.5	

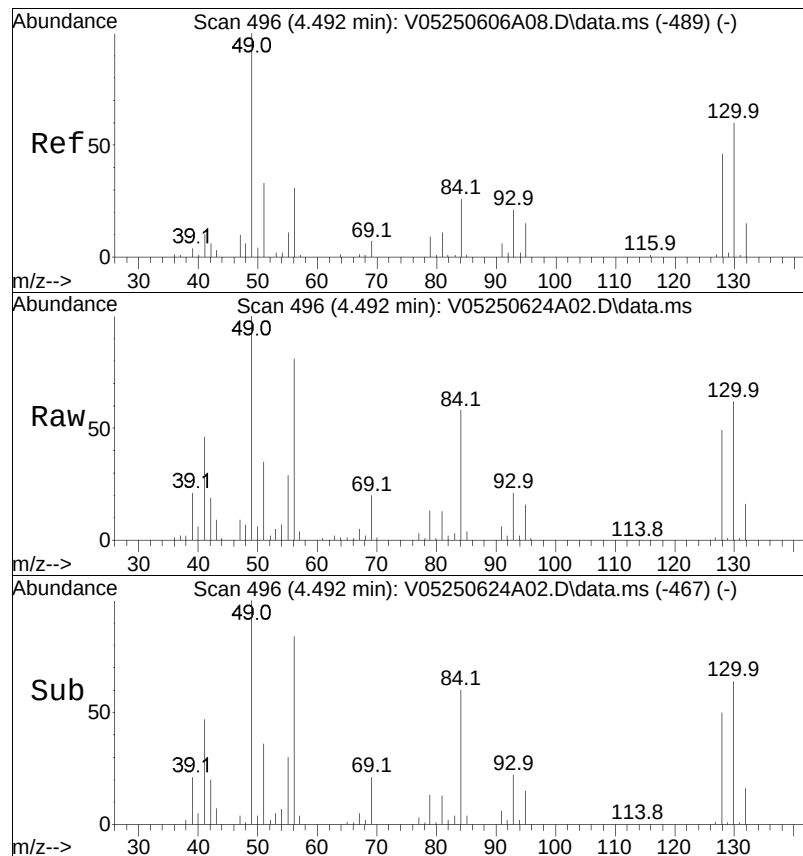




#28
 cis-1,2-Dichloroethene
 Concen: 9.76 ug/L
 RT: 4.307 min Scan# 469
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

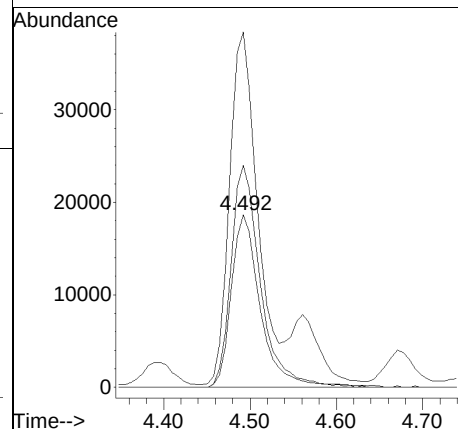
Tgt Ion	Ratio	Lower	Upper
96	100		
61	131.9	117.8	176.8
98	64.0	52.1	78.1

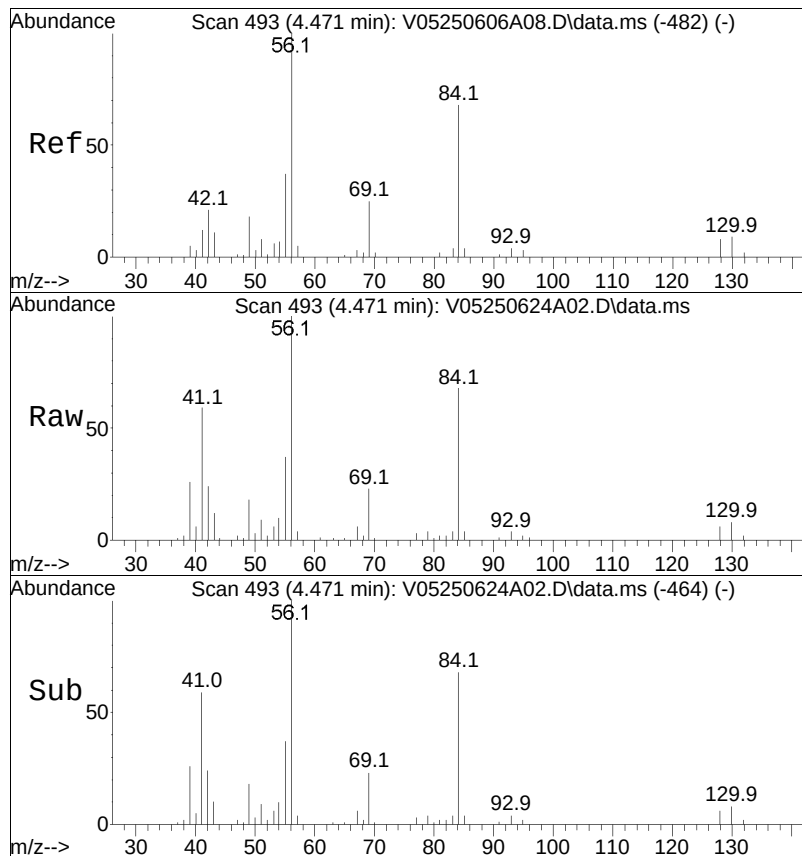




#30
 Bromochloromethane
 Concen: 10.78 ug/L
 RT: 4.492 min Scan# 496
 Delta R.T. 0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

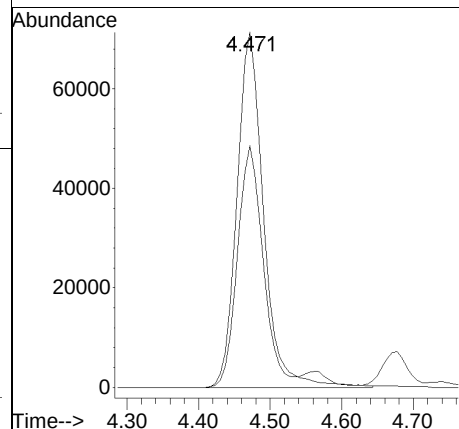
Tgt Ion	Ratio	Lower	Upper
128	100		
49	193.1	166.5	249.7
130	130.9	103.0	154.6

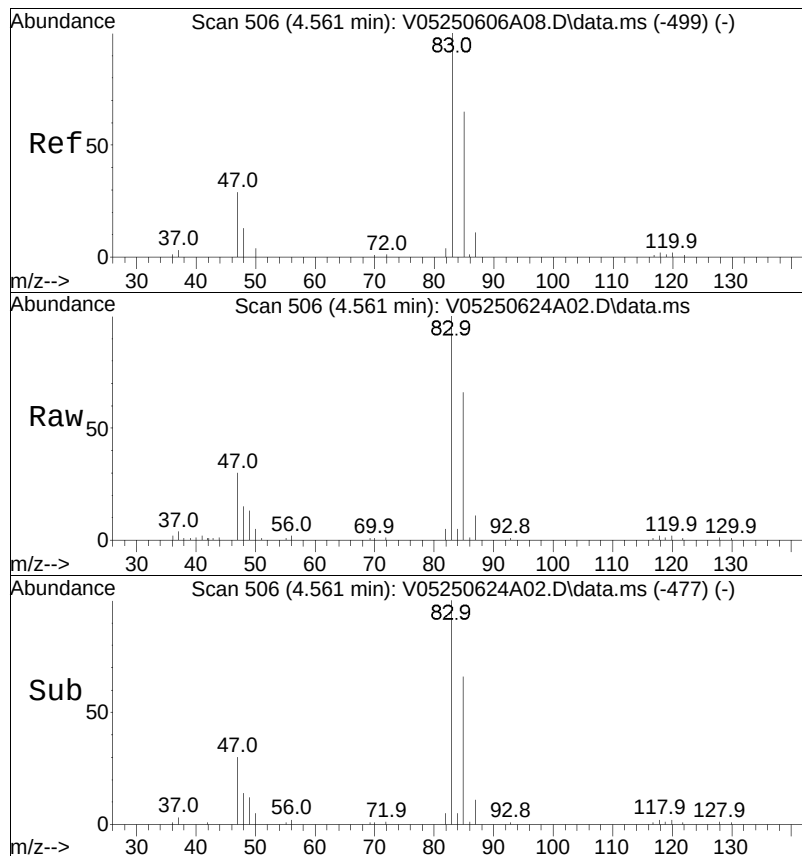




#31
Cyclohexane
Concen: 9.17 ug/L
RT: 4.471 min Scan# 493
Delta R.T. 0.000 min
Lab File: V05250624A02.D
Acq: 24 Jun 2025 7:59 am

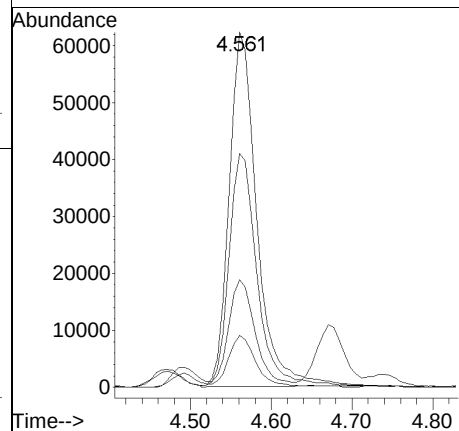
Tgt	Ion	Resp	Lower	Upper
56	100			
84	65.9	42.3	87.9	

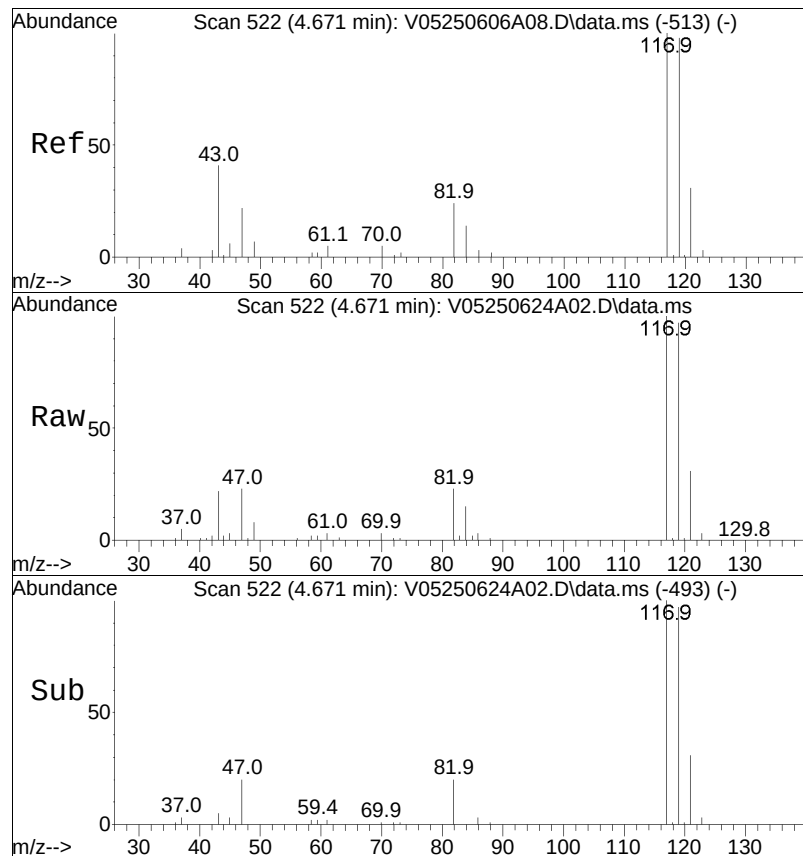




#32
 Chloroform
 Concen: 9.78 ug/L
 RT: 4.561 min Scan# 506
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

Tgt Ion:	83	Resp:	148759
Ion	Ratio	Lower	Upper
83	100		
85	66.8	41.8	86.8
47	26.5	17.4	36.2
48	13.5	8.9	18.5





#34

Carbon tetrachloride

Concen: 10.30 ug/L

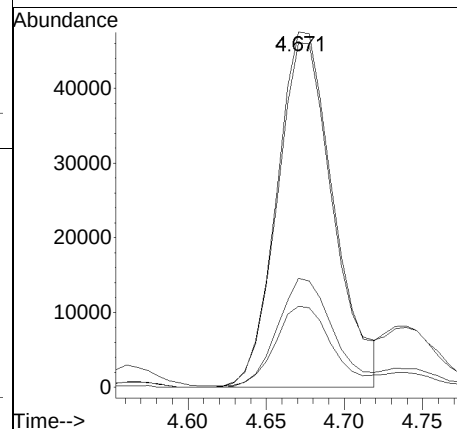
RT: 4.671 min Scan# 522

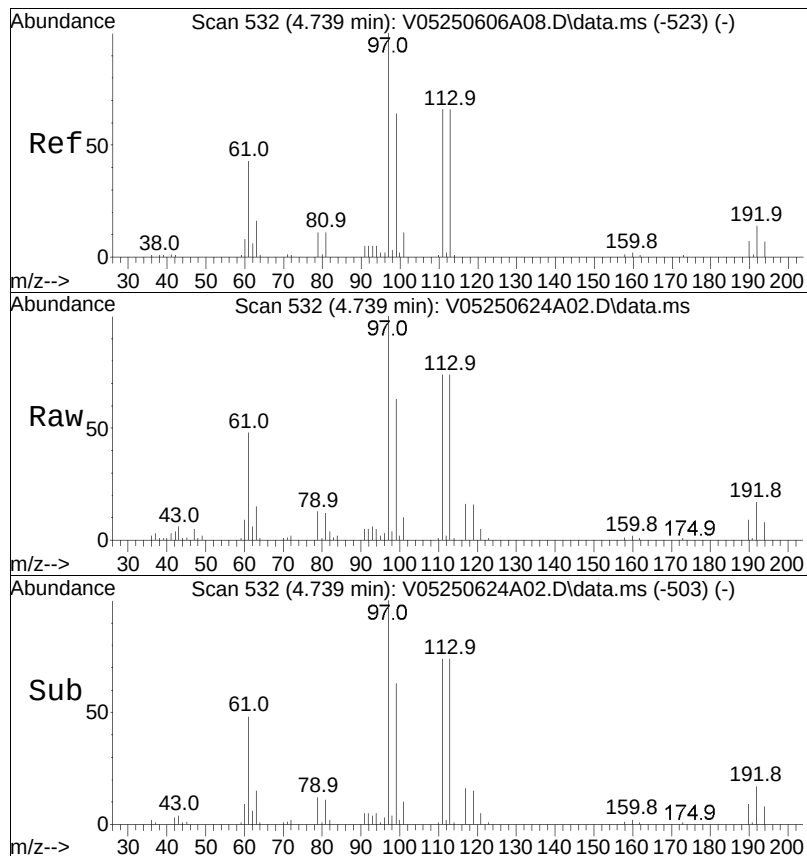
Delta R.T. -0.000 min

Lab File: V05250624A02.D

Acq: 24 Jun 2025 7:59 am

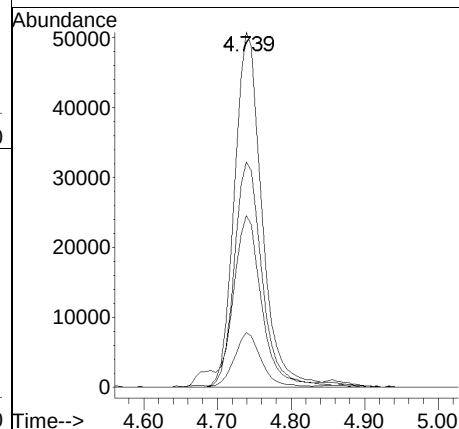
Tgt	Ion:117	Resp:	120057
Ion	Ratio	Lower	Upper
117	100		
119	96.1	63.3	131.5
121	30.2	20.2	42.0
82	22.3	15.2	31.6

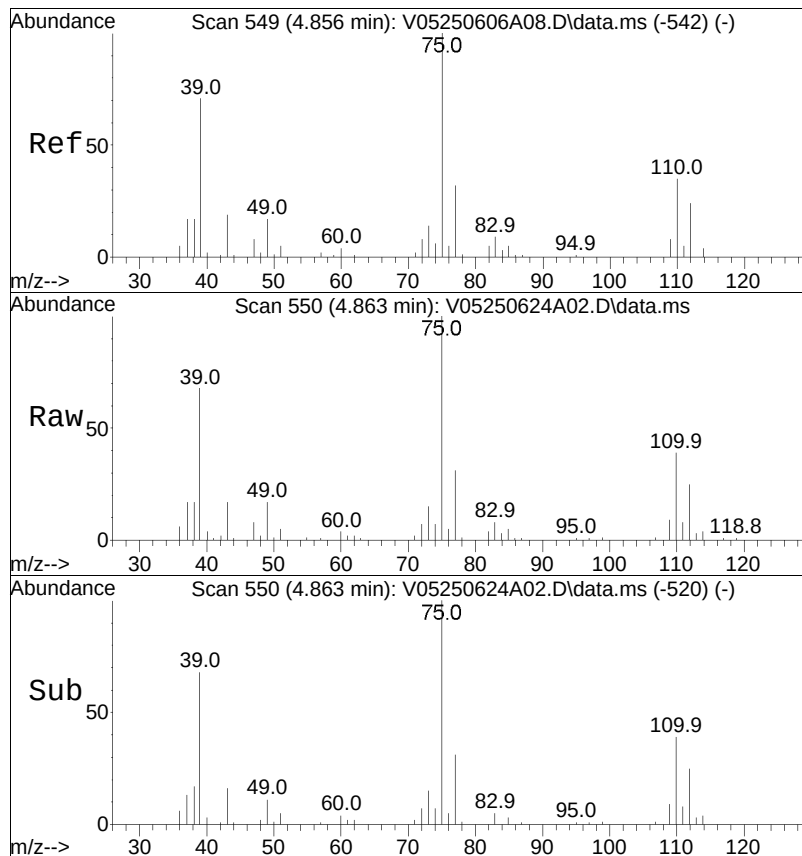




#37
 1,1,1-Trichloroethane
 Concen: 10.11 ug/L
 RT: 4.739 min Scan# 532
 Delta R.T. 0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

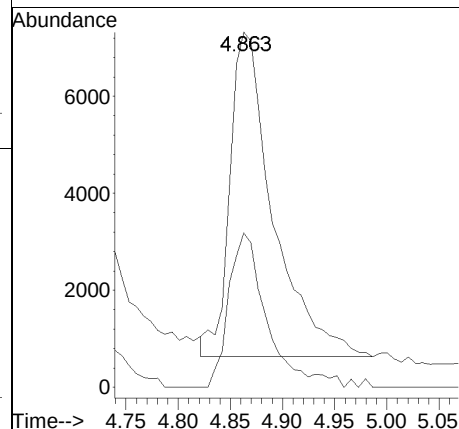
Tgt Ion:	97	Resp:	133751
Ion Ratio	Lower	Upper	
97	100		
99	64.1	41.7	86.5
61	52.1	32.6	67.6
63	15.1	10.1	20.9

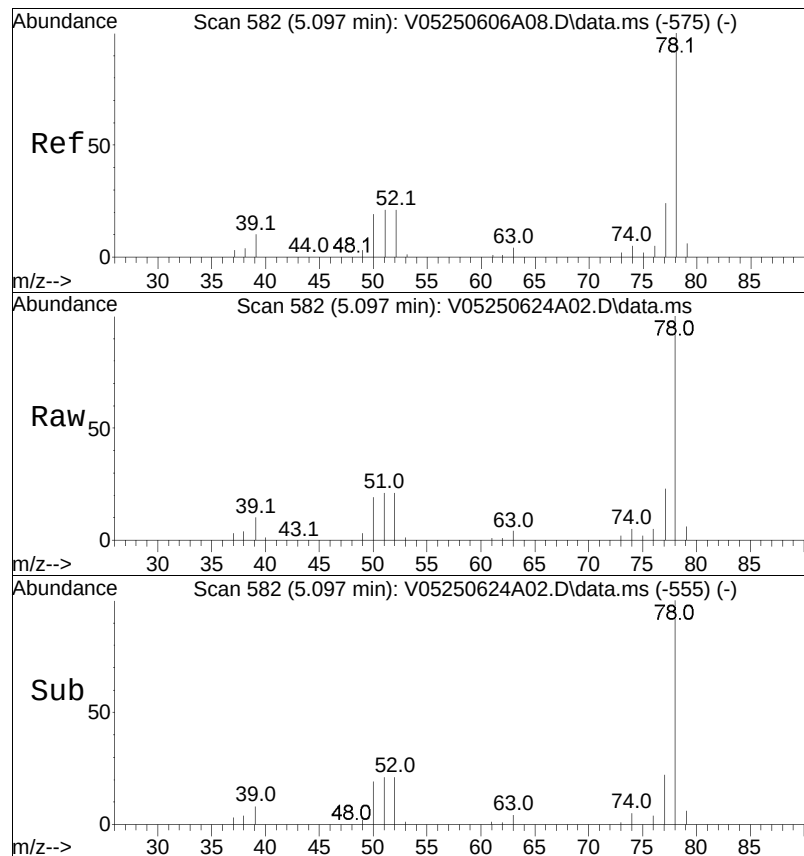




#39
 2-Butanone
 Concen: 7.72 ug/L
 RT: 4.863 min Scan# 550
 Delta R.T. 0.007 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

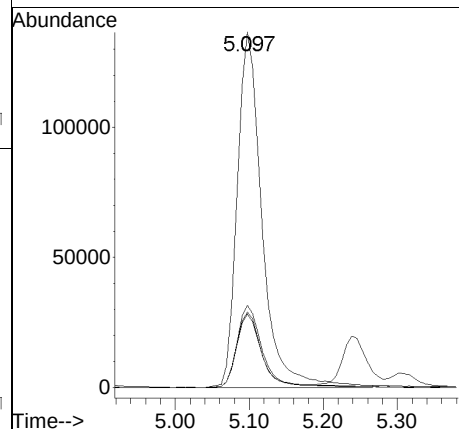
Tgt	Ion	Ratio	Lower	Upper
43	100			
72	42.2	29.4	44.2	

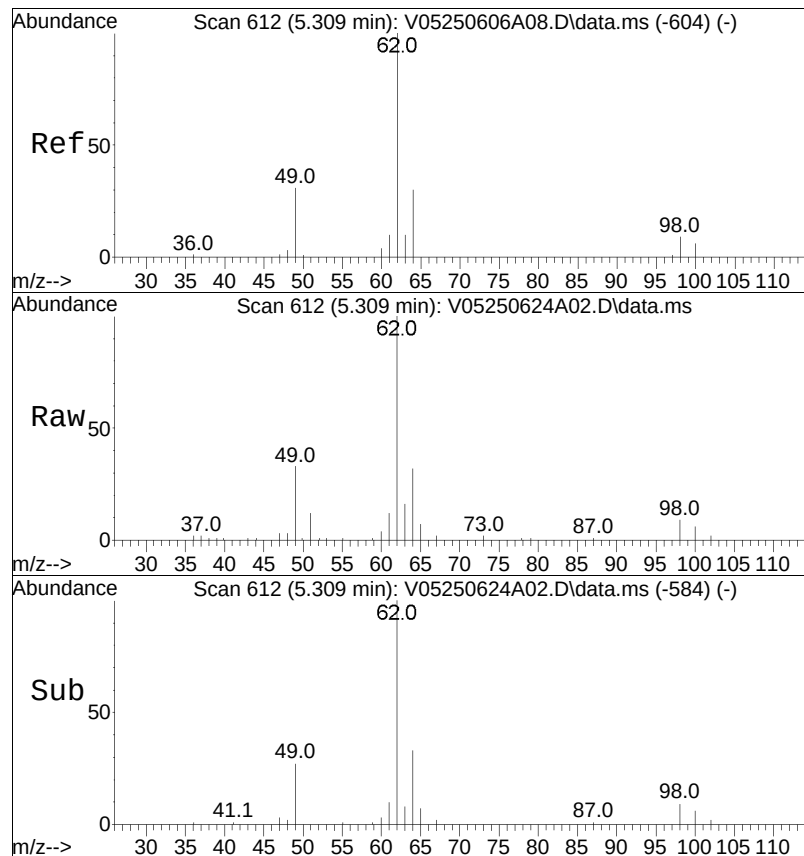




#41
Benzene
Concen: 9.71 ug/L
RT: 5.097 min Scan# 582
Delta R.T. 0.000 min
Lab File: V05250624A02.D
Acq: 24 Jun 2025 7:59 am

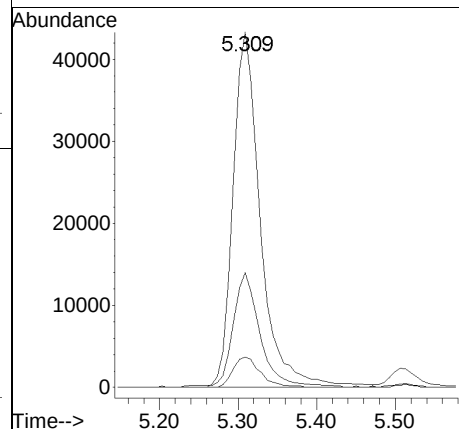
Tgt Ion: 78	Resp: 339149
Ion Ratio	Lower Upper
78 100	
77 23.7	15.3 31.9
51 21.8	14.2 29.4
52 21.2	14.1 29.3

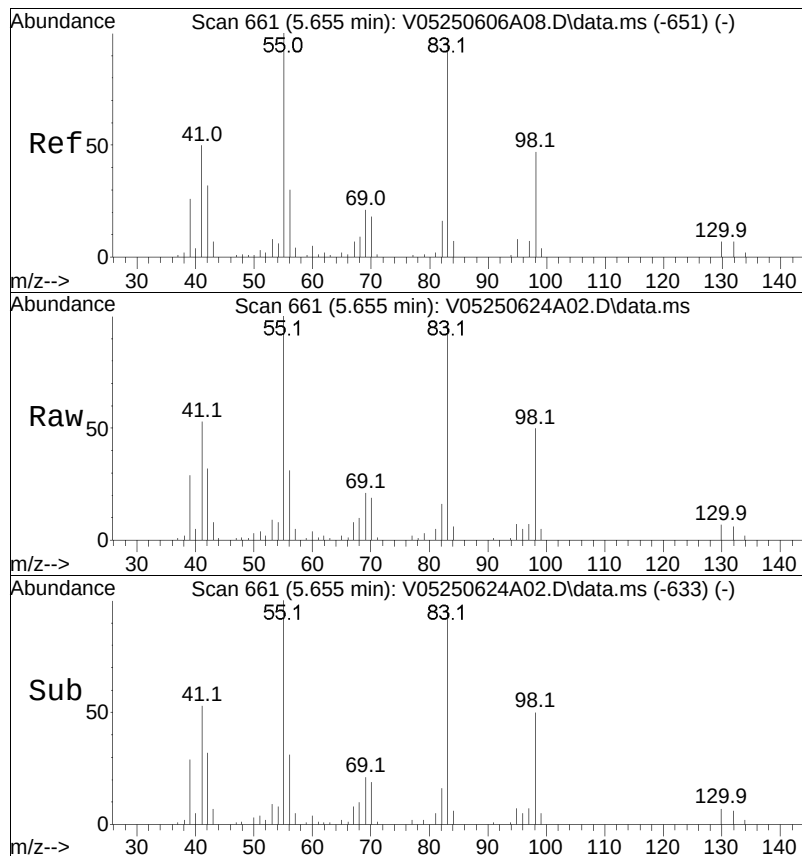




#44
 1,2-Dichloroethane
 Concen: 9.57 ug/L
 RT: 5.309 min Scan# 612
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

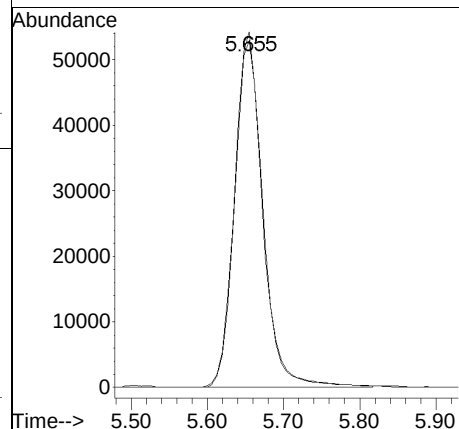
Tgt Ion: 62	Resp: 105357
Ion Ratio	Lower Upper
62 100	
64 32.1	12.2 52.2
98 8.6	0.0 28.7

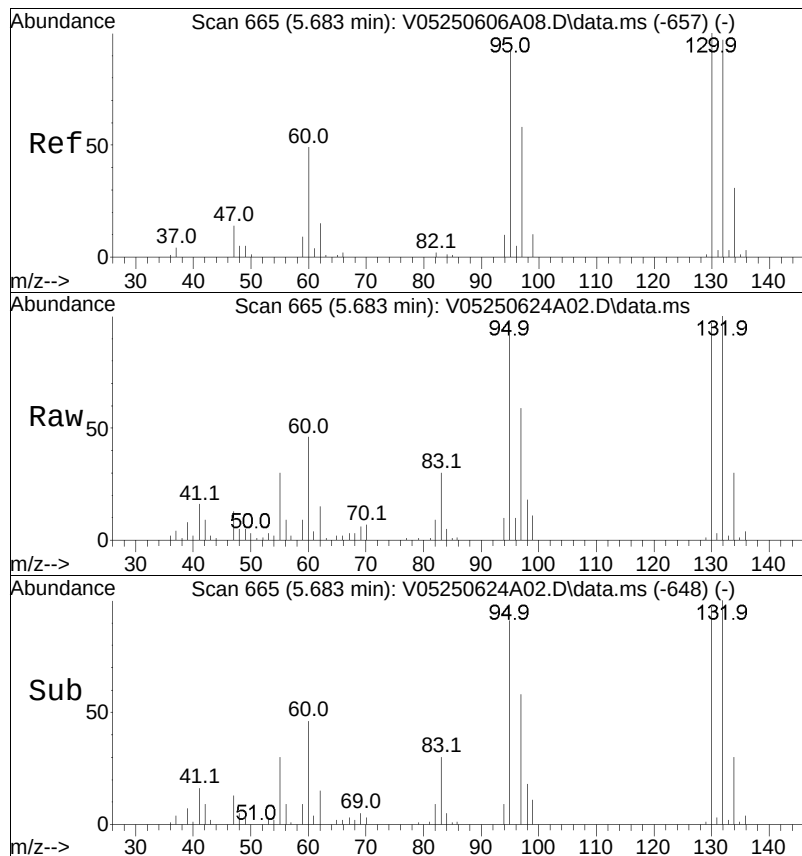




#47
Methyl cyclohexane
Concen: 9.61 ug/L
RT: 5.655 min Scan# 661
Delta R.T. -0.000 min
Lab File: V05250624A02.D
Acq: 24 Jun 2025 7:59 am

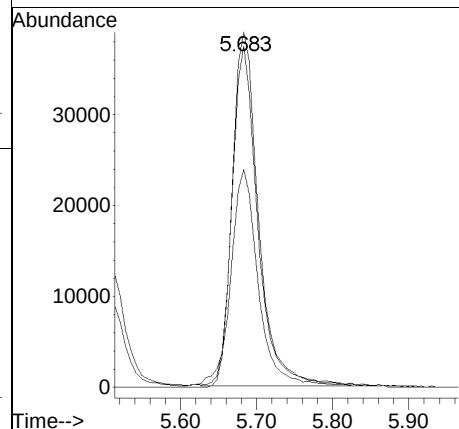
Tgt Ion	Ratio	Lower	Upper
83	100		
55	100.7	80.2	120.4

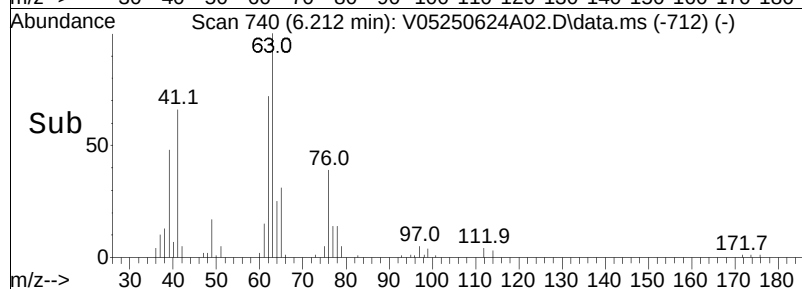
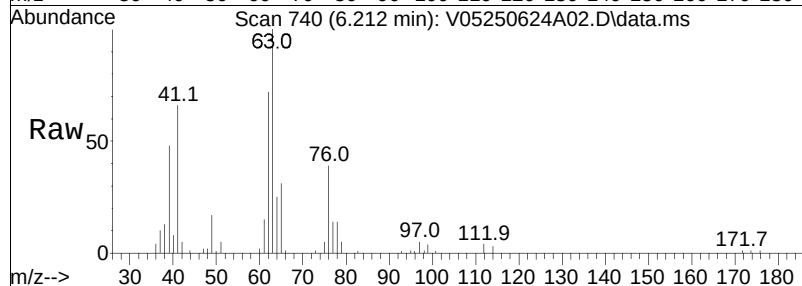
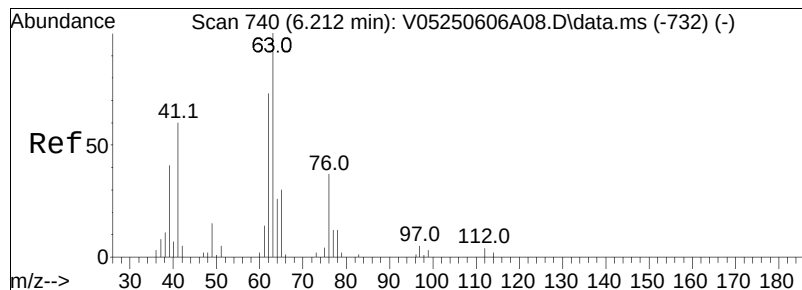




#48
 Trichloroethene
 Concen: 9.60 ug/L
 RT: 5.683 min Scan# 665
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	88518		
97	67.1		54.6	82.0
130	108.3		82.9	124.3





#51

1,2-Dichloropropane

Concen: 9.07 ug/L

RT: 6.212 min Scan# 740

Delta R.T. 0.000 min

Lab File: V05250624A02.D

Acq: 24 Jun 2025 7:59 am

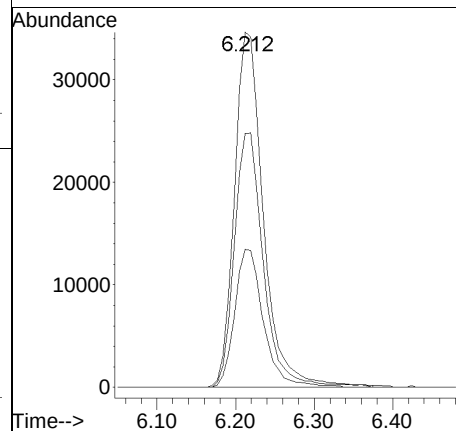
Tgt Ion: 63 Resp: 89072

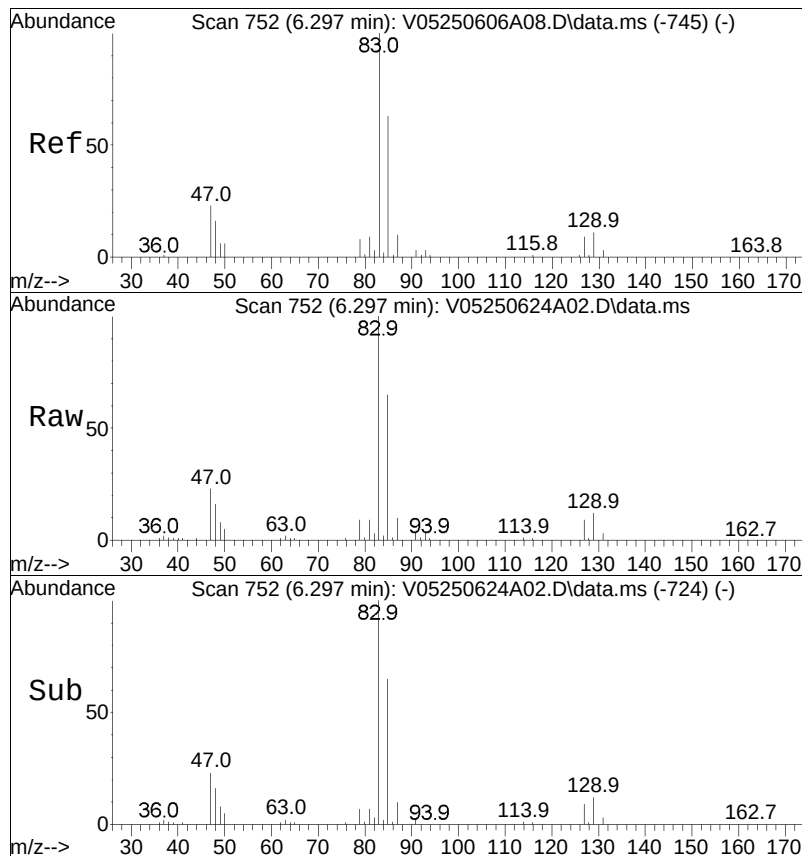
Ion Ratio Lower Upper

63 100

62 71.9 58.0 87.0

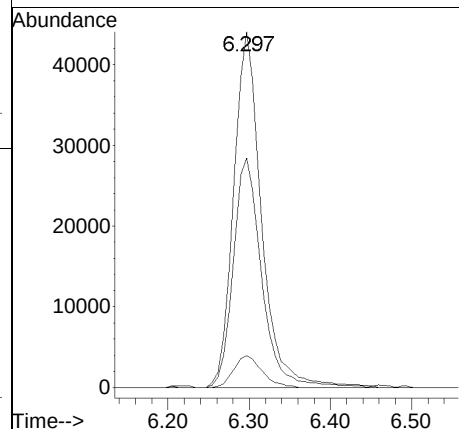
76 38.6 29.0 43.4

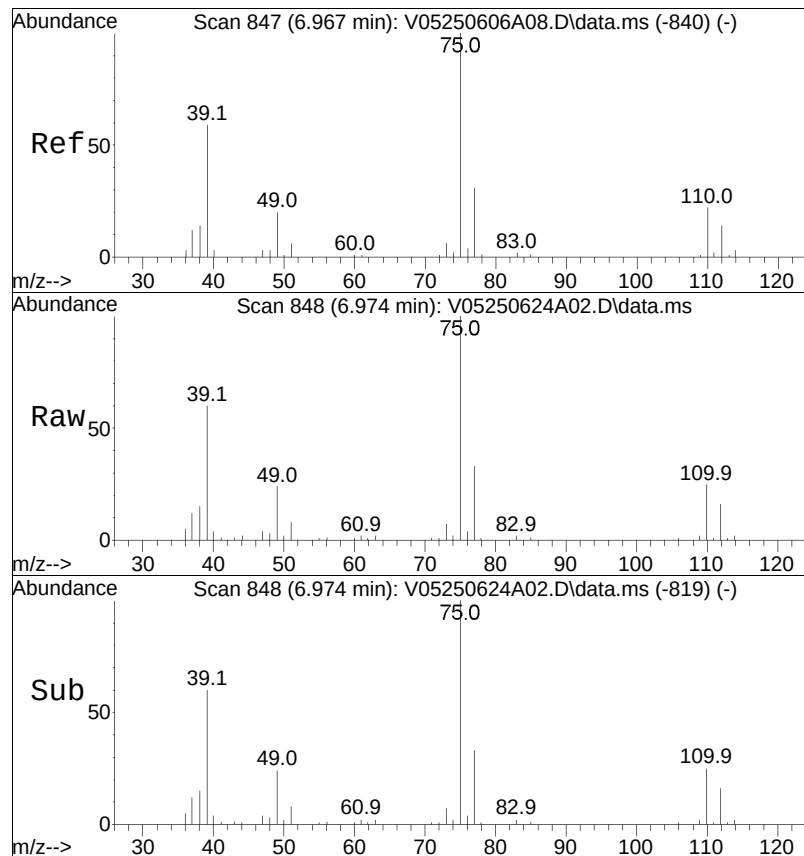




#54
 Bromodichloromethane
 Concen: 9.28 ug/L
 RT: 6.297 min Scan# 752
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

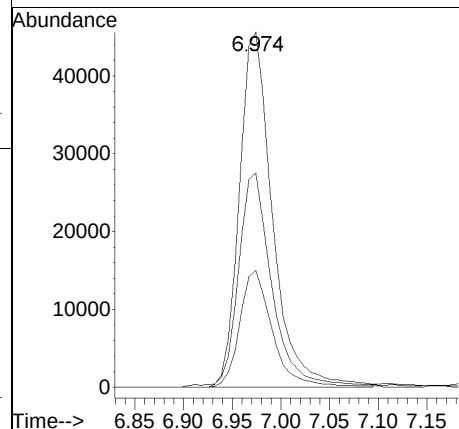
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	51.3	76.9
127	9.0	6.7	10.1

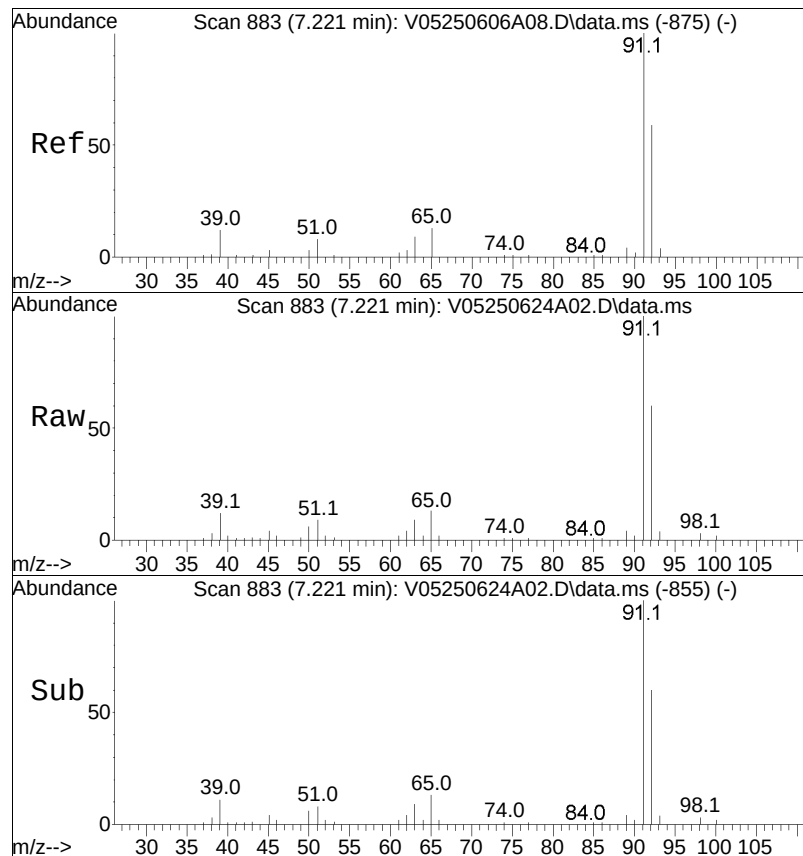




#58
 cis-1,3-Dichloropropene
 Concen: 8.27 ug/L
 RT: 6.974 min Scan# 848
 Delta R.T. 0.007 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

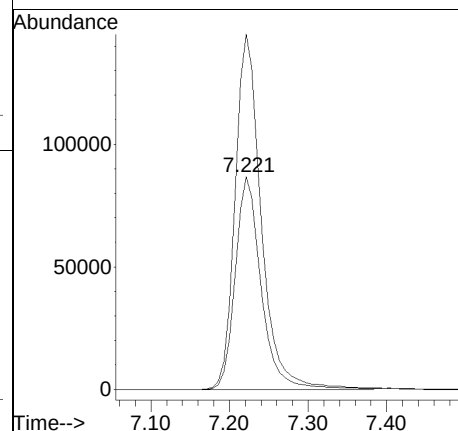
Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.6	25.4	38.2
39	61.7	49.1	73.7

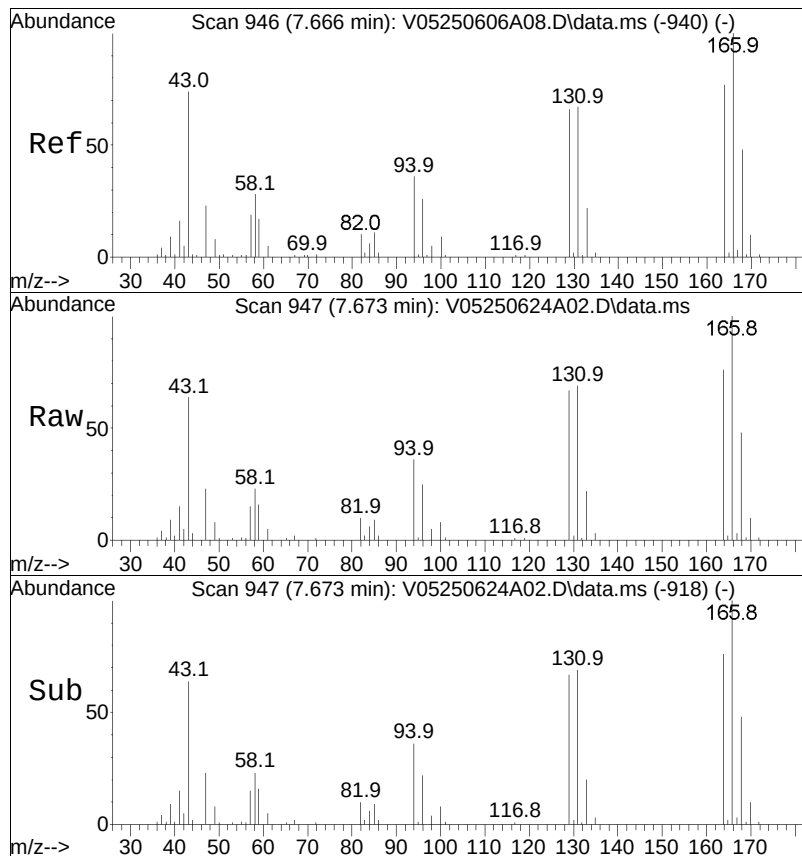




#61
Toluene
Concen: 8.89 ug/L
RT: 7.221 min Scan# 883
Delta R.T. 0.000 min
Lab File: V05250624A02.D
Acq: 24 Jun 2025 7:59 am

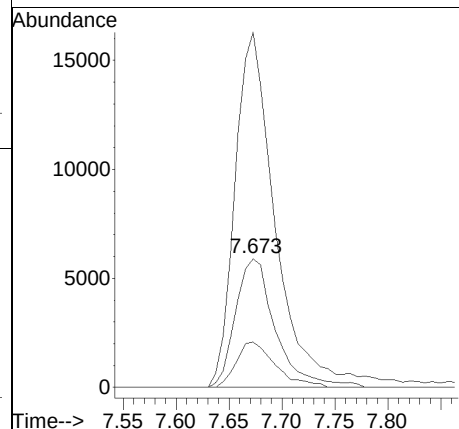
Tgt	Ion	Resp	Lower	Upper
92	100			
91	168.2	134.6	202.0	

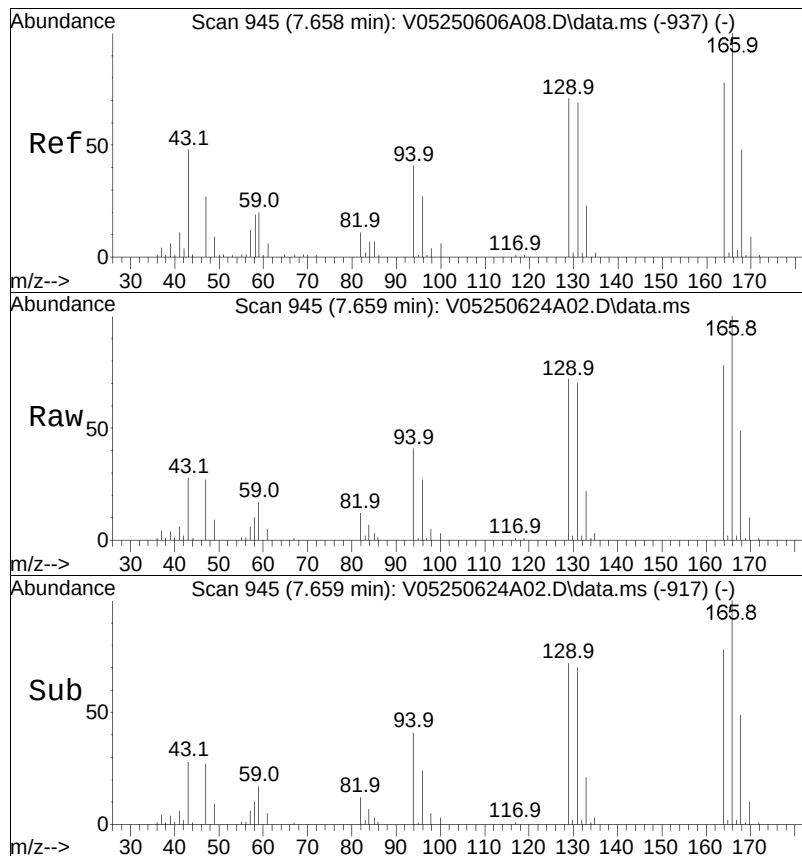




#62
 4-Methyl-2-pentanone
 Concen: 6.66 ug/L
 RT: 7.673 min Scan# 947
 Delta R.T. 0.007 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

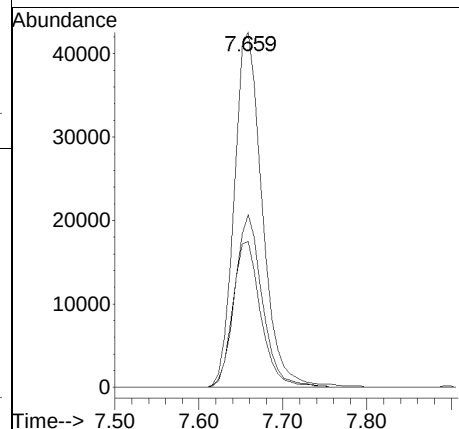
Tgt	Ion: 58	Resp:	15540
Ion	Ratio	Lower	Upper
58	100		
100	34.7	26.2	39.2
43	283.8	211.2	316.8

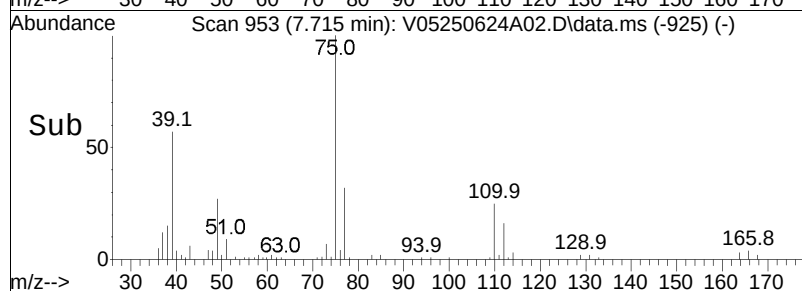
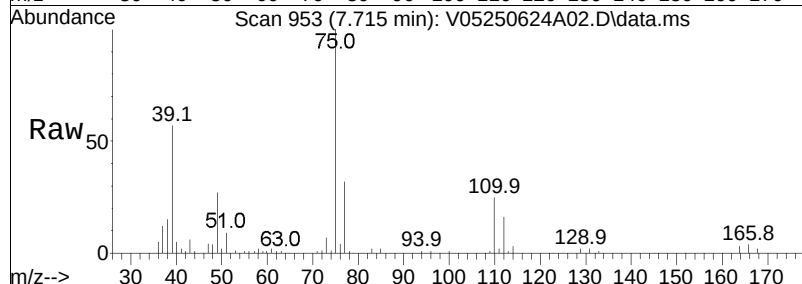
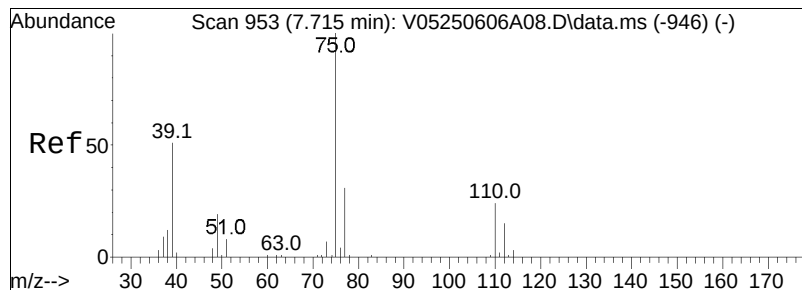




#63
 Tetrachloroethene
 Concen: 10.36 ug/L
 RT: 7.659 min Scan# 945
 Delta R.T. 0.001 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

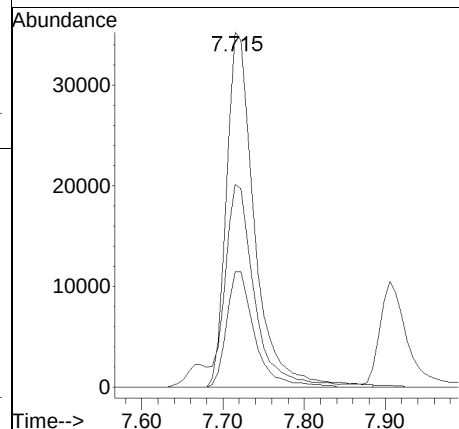
Tgt Ion	Ratio	Lower	Upper
166	100		
168	47.7	27.4	67.4
94	41.3	20.5	60.5

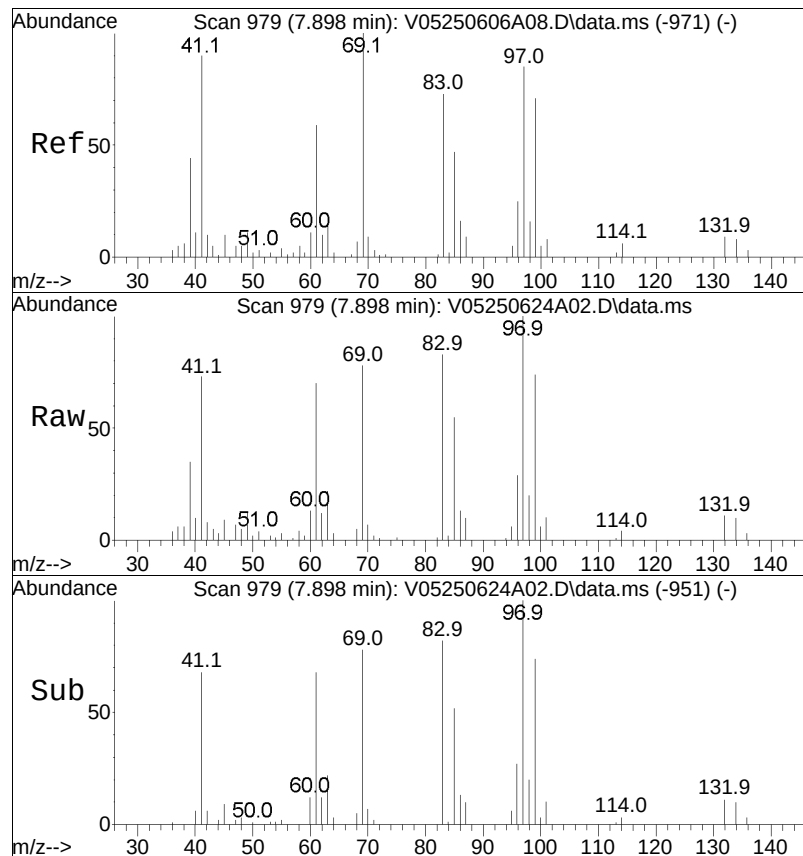




#65
trans-1,3-Dichloropropene
Concen: 7.64 ug/L
RT: 7.715 min Scan# 953
Delta R.T. -0.000 min
Lab File: V05250624A02.D
Acq: 24 Jun 2025 7:59 am

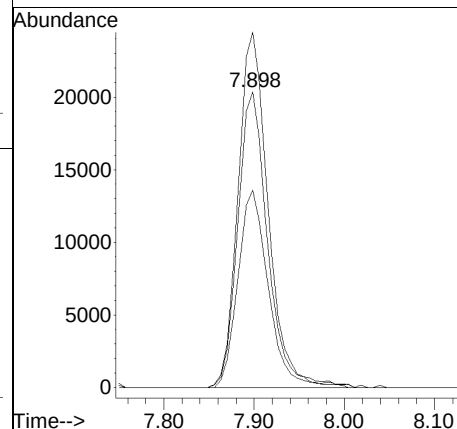
Tgt Ion:	75	Resp:	85274
Ion Ratio	Lower	Upper	
75	100		
77	32.6	11.9	51.9
39	64.5	37.0	77.0

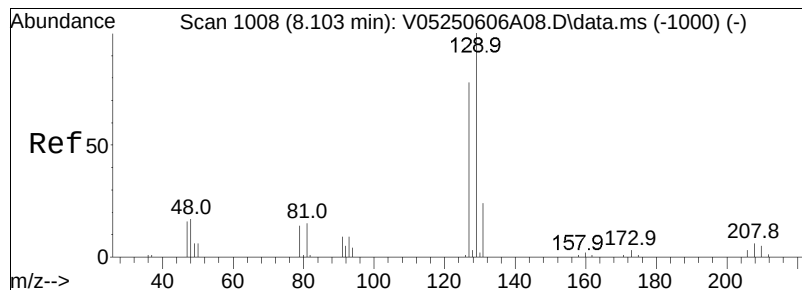




#68
 1,1,2-Trichloroethane
 Concen: 8.67 ug/L
 RT: 7.898 min Scan# 979
 Delta R.T. 0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

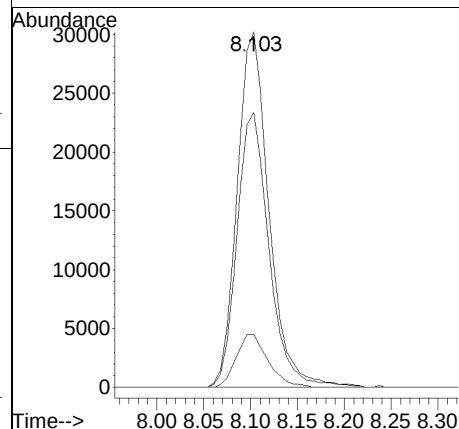
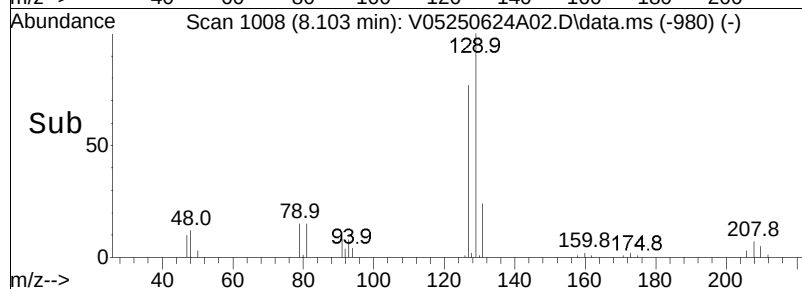
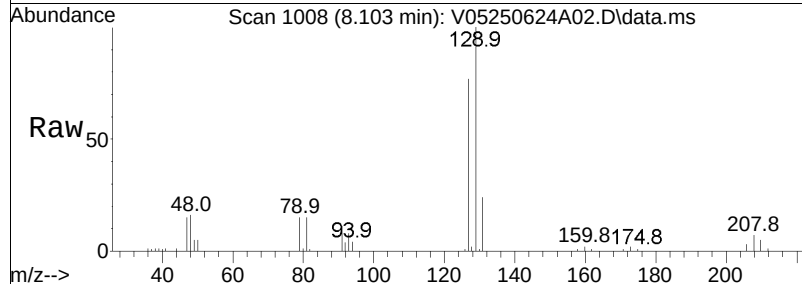
Tgt Ion	Ratio	Lower	Upper
83	100		
97	121.6	97.2	137.2
85	68.2	46.3	86.3

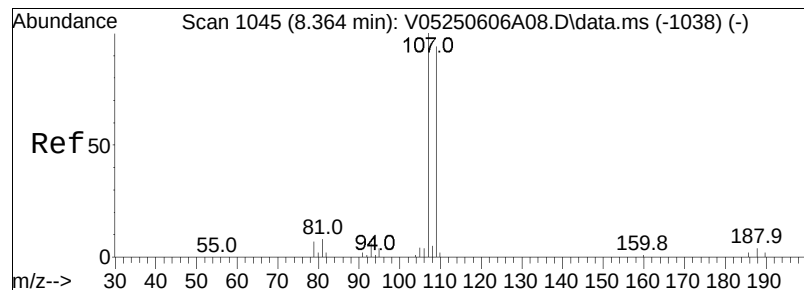




#69
 Chlorodibromomethane
 Concen: 8.82 ug/L
 RT: 8.103 min Scan# 1008
 Delta R.T. 0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

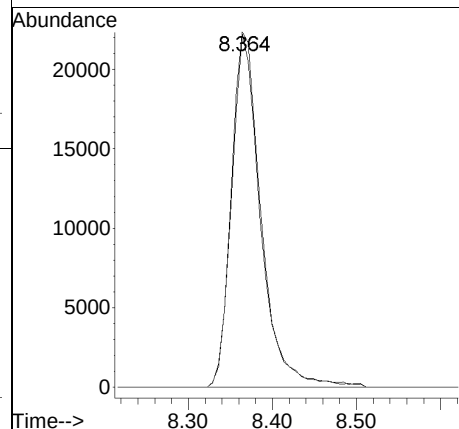
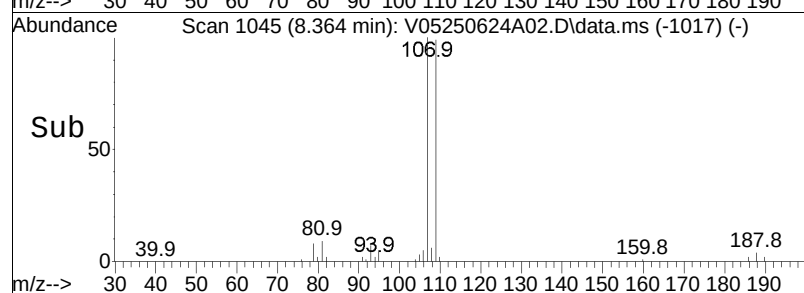
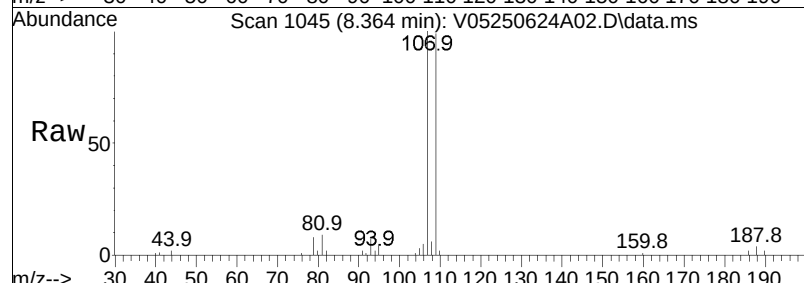
Tgt Ion	Ratio	Lower	Upper
129	100		
81	15.0	0.0	34.5
127	78.0	57.5	97.5

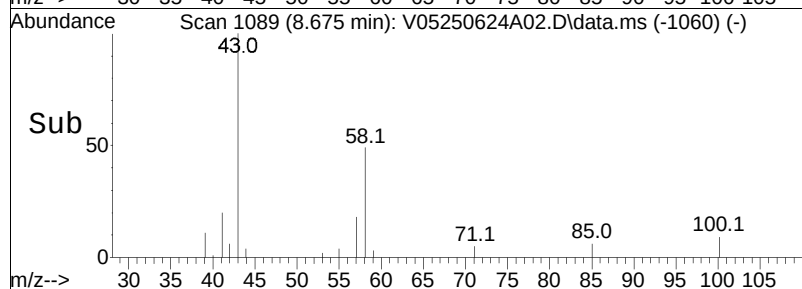
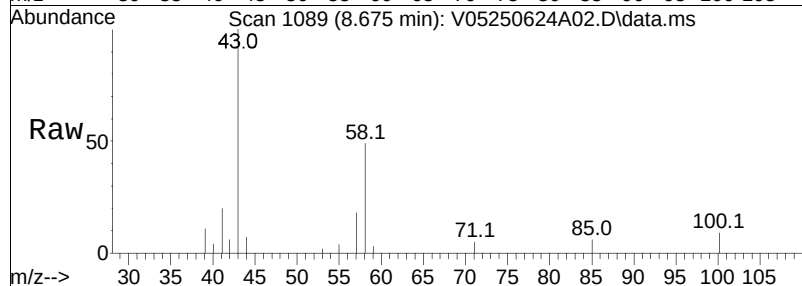
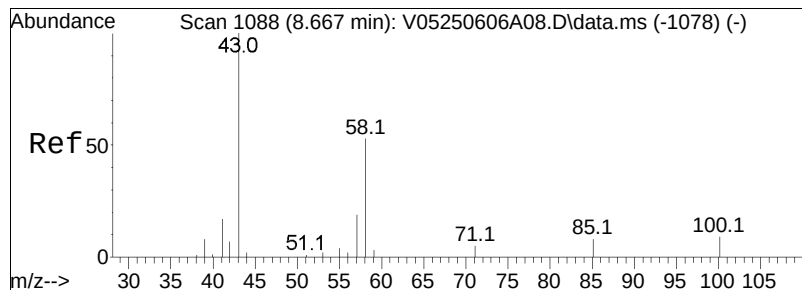




#71
 1,2-Dibromoethane
 Concen: 8.83 ug/L
 RT: 8.364 min Scan# 1045
 Delta R.T. 0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.8	75.1	112.7





#72

2-Hexanone

Concen: 6.86 ug/L

RT: 8.675 min Scan# 1089

Delta R.T. 0.008 min

Lab File: V05250624A02.D

Acq: 24 Jun 2025 7:59 am

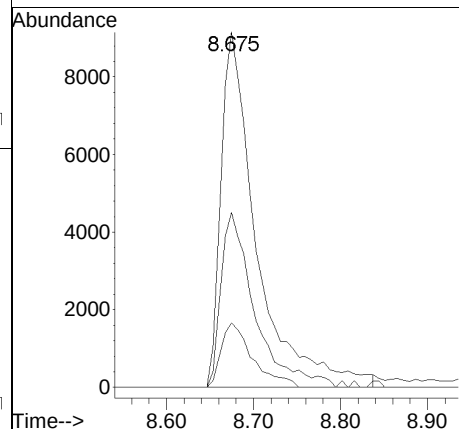
Tgt Ion: 43 Resp: 26192

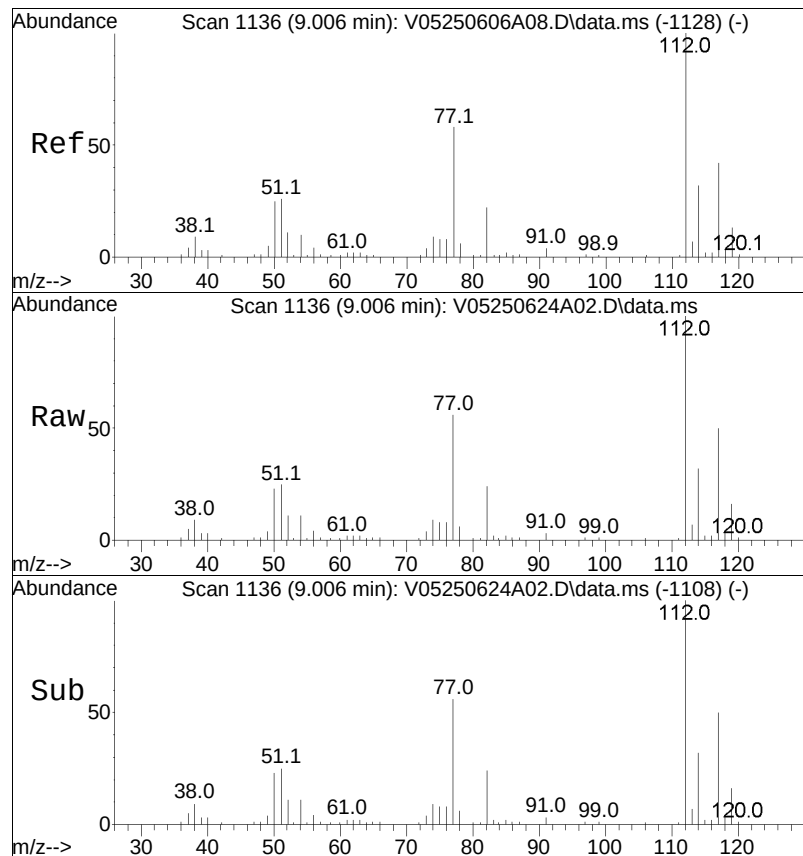
Ion Ratio Lower Upper

43 100

58 46.5 42.5 63.7

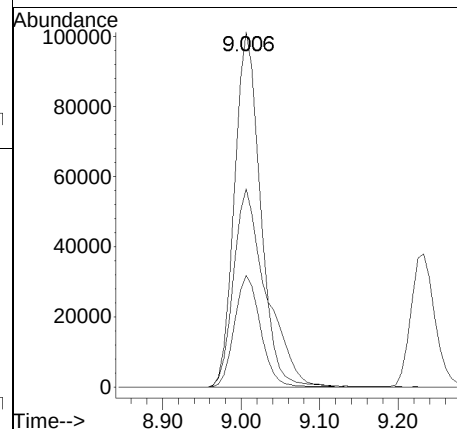
57 16.0 16.2 24.4#

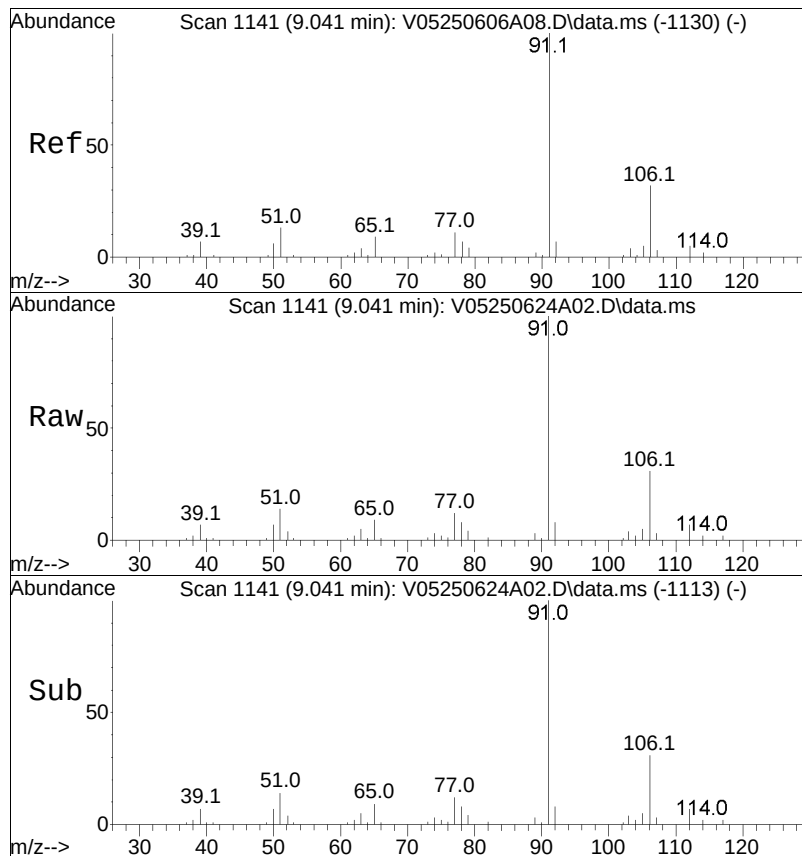




#73
 Chlorobenzene
 Concen: 9.37 ug/L
 RT: 9.006 min Scan# 1136
 Delta R.T. 0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

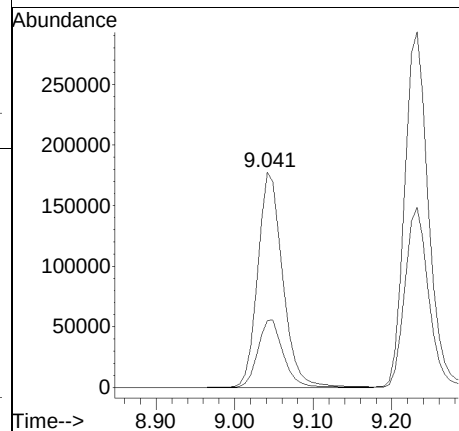
Tgt	Ion	Ratio	Resp	Lower	Upper
112	100		233290		
77	71.3	59.0		88.4	
114	31.9	25.4		38.2	

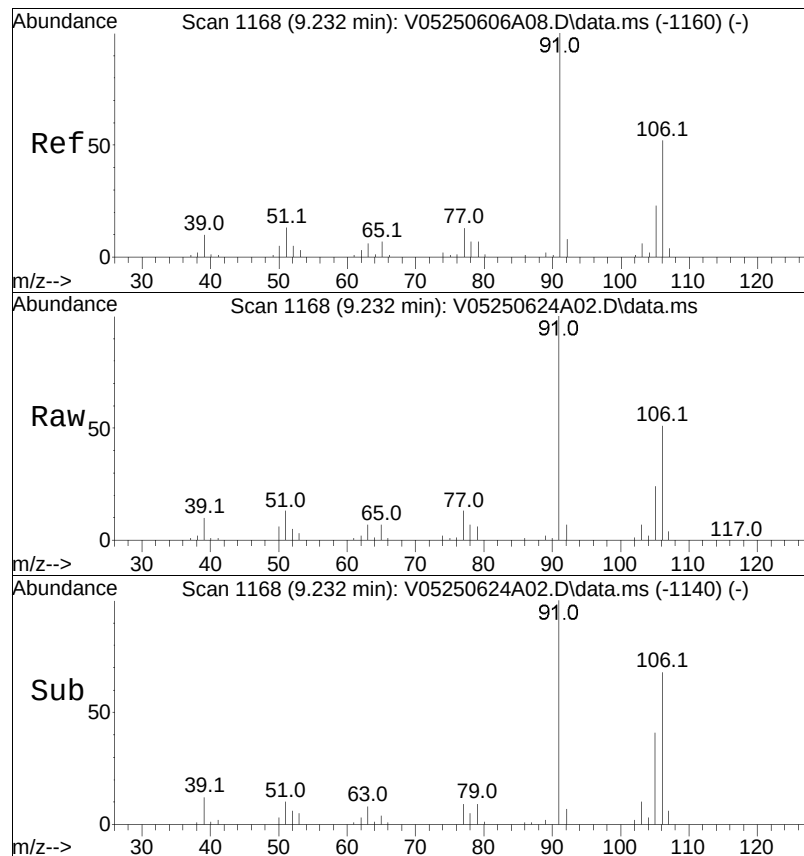




#74
 Ethylbenzene
 Concen: 9.07 ug/L
 RT: 9.041 min Scan# 1141
 Delta R.T. 0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

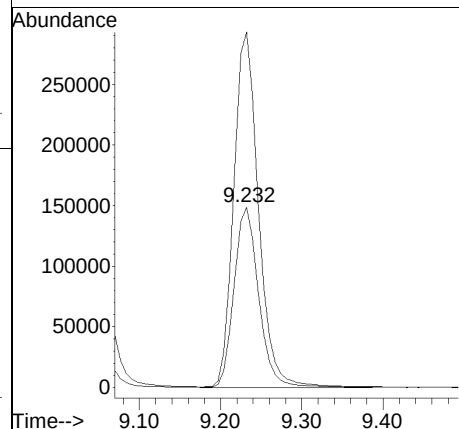
Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.7	38.5

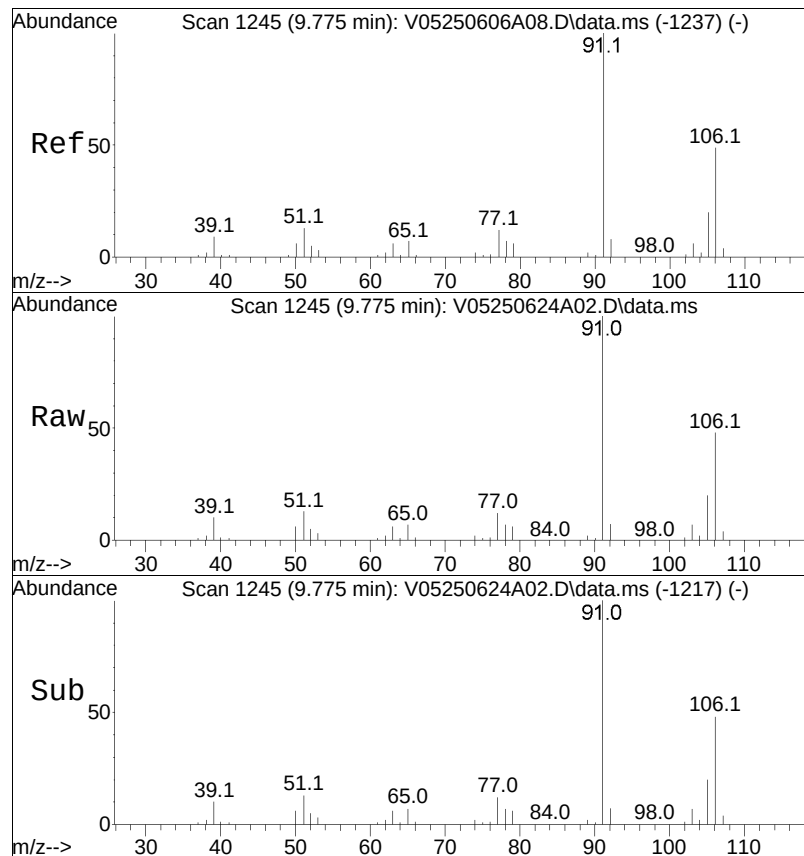




#76
 p/m Xylene
 Concen: 18.92 ug/L
 RT: 9.232 min Scan# 1168
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

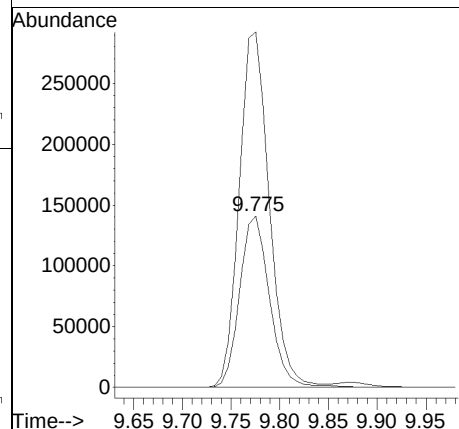
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	195.7	155.4	233.0	

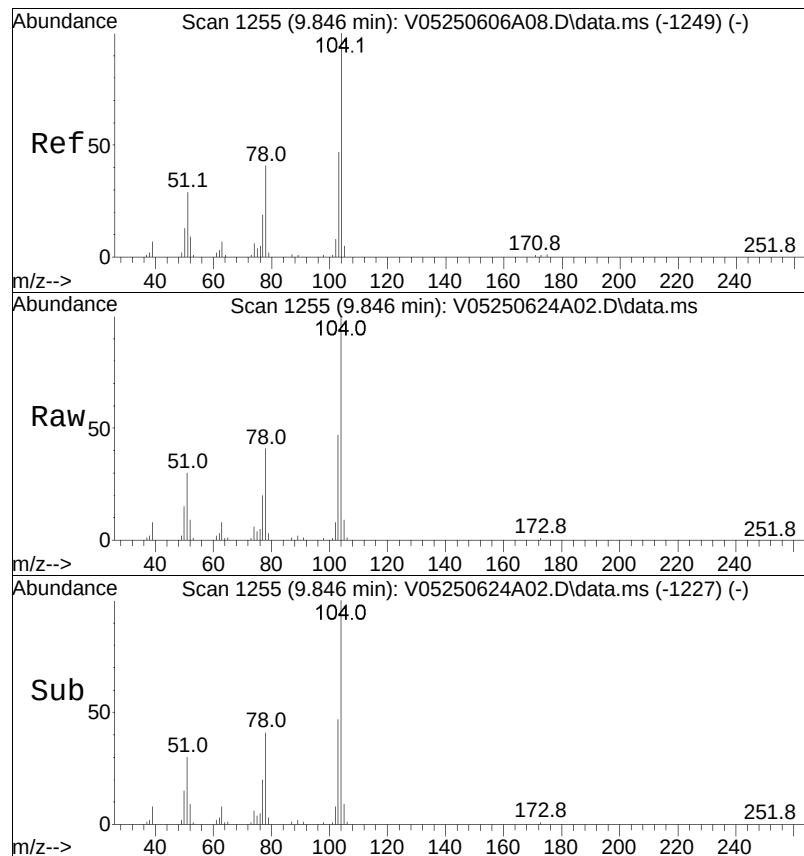




#77
 o Xylene
 Concen: 18.59 ug/L
 RT: 9.775 min Scan# 1245
 Delta R.T. 0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

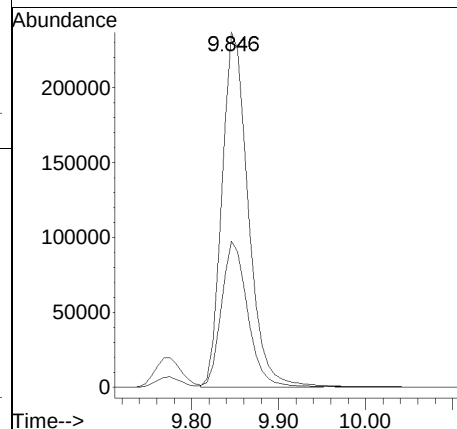
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	207.6	165.6	248.4	

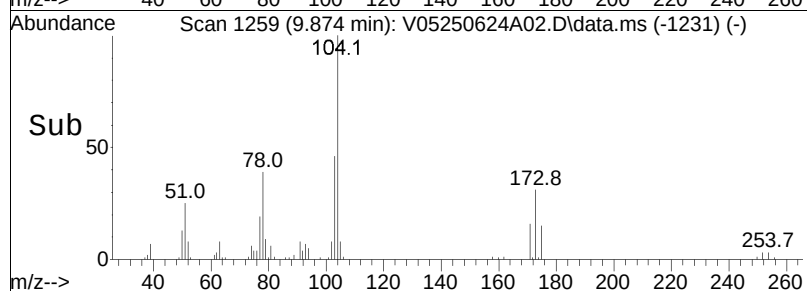
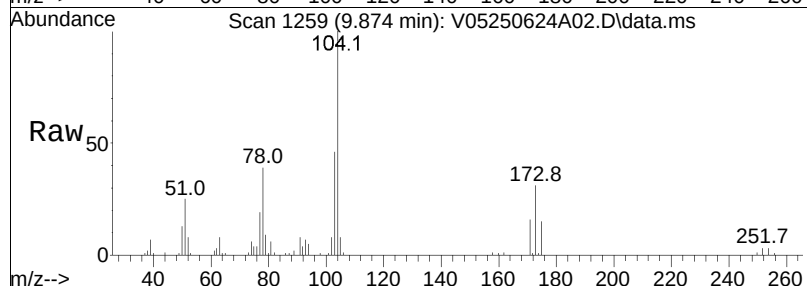
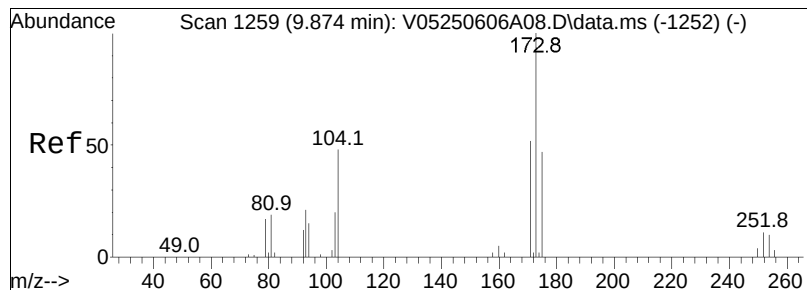




#78
 Styrene
 Concen: 18.81 ug/L
 RT: 9.846 min Scan# 1255
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

Tgt	Ion	Ratio	Lower	Upper
104	100			
78	41.4	33.8	50.6	





#80

Bromoform

Concen: 7.64 ug/L

RT: 9.874 min Scan# 1259

Delta R.T. 0.000 min

Lab File: V05250624A02.D

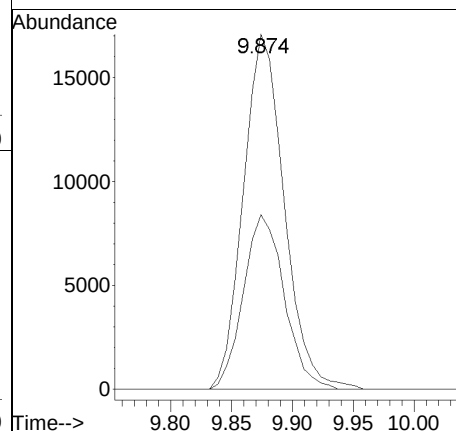
Acq: 24 Jun 2025 7:59 am

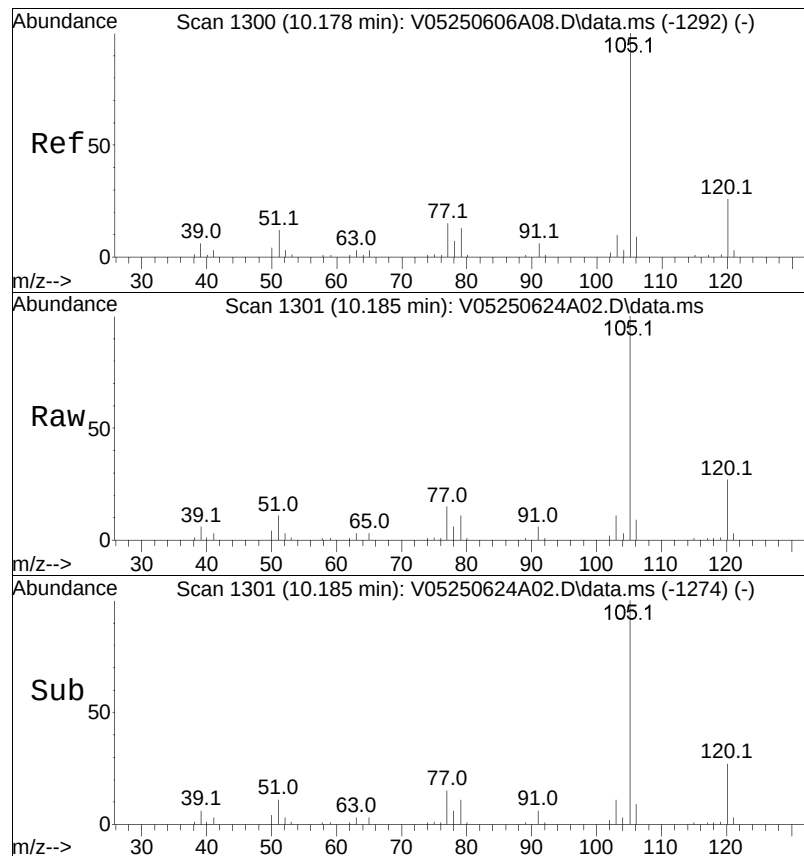
Tgt Ion:173 Resp: 39896

Ion Ratio Lower Upper

173 100

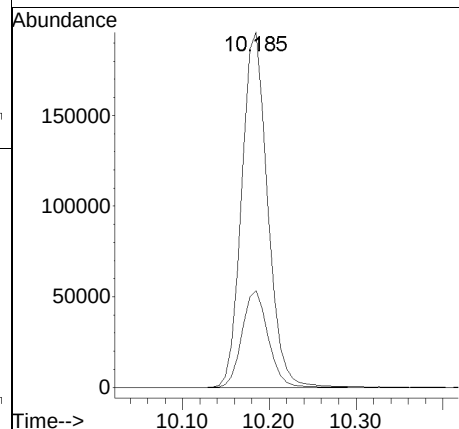
175 49.3 28.6 68.6

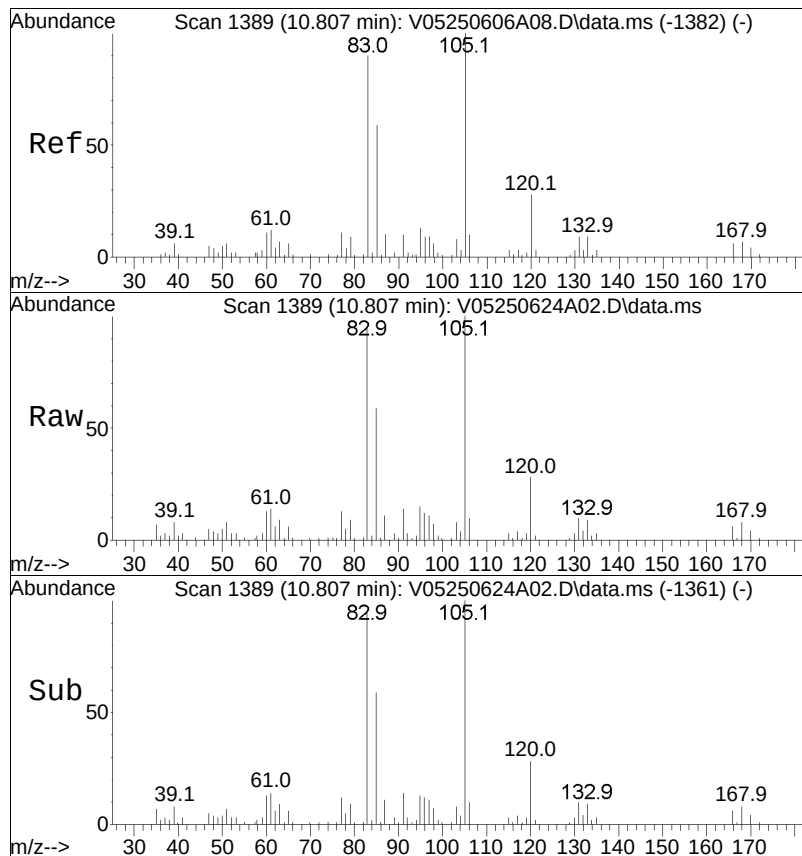




#82
 Isopropylbenzene
 Concen: 8.17 ug/L
 RT: 10.185 min Scan# 1301
 Delta R.T. 0.007 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

Tgt	Ion	Resp	Lower	Upper
105	100	407494		
120	27.4	6.2	46.2	





#87

1,1,2,2-Tetrachloroethane

Concen: 7.56 ug/L

RT: 10.807 min Scan# 1389

Delta R.T. 0.000 min

Lab File: V05250624A02.D

Acq: 24 Jun 2025 7:59 am

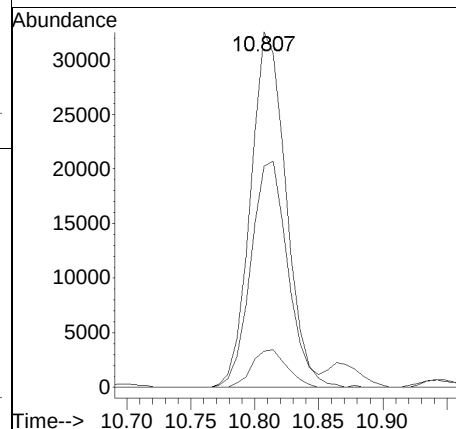
Tgt Ion: 83 Resp: 62680

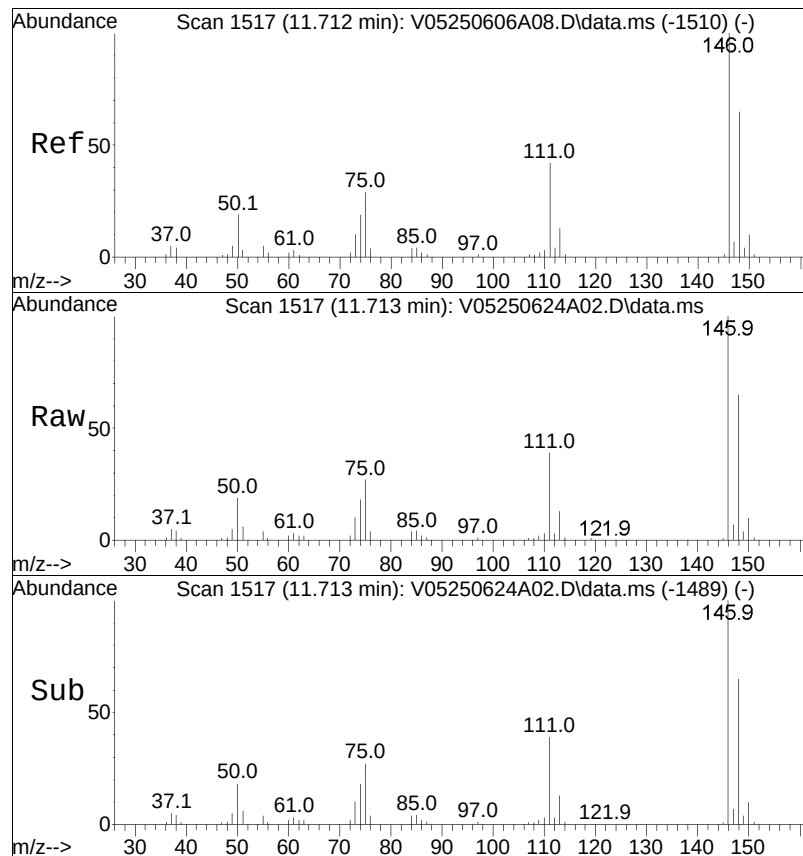
Ion Ratio Lower Upper

83 100

131 10.6 0.0 29.8

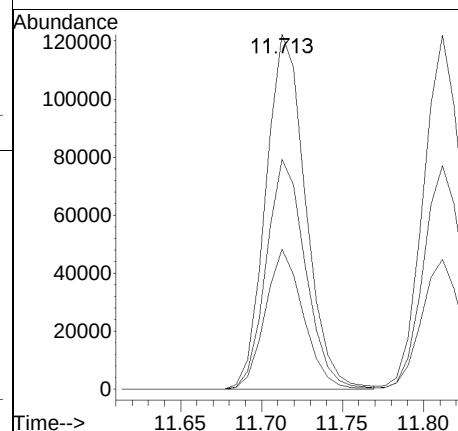
85 66.5 46.1 86.1

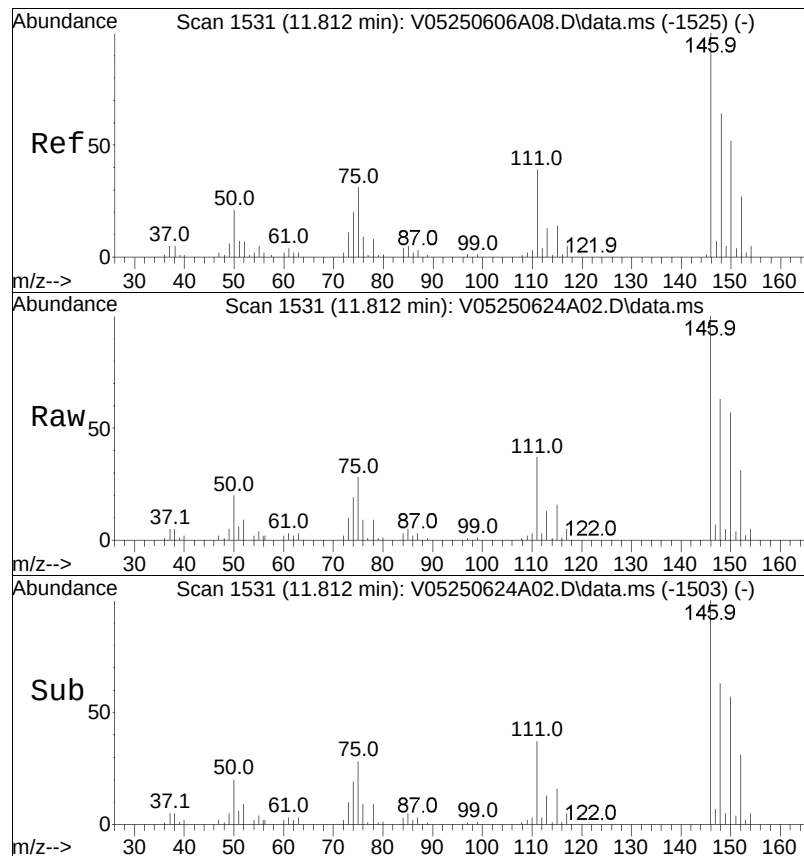




#100
 1,3-Dichlorobenzene
 Concen: 9.63 ug/L
 RT: 11.713 min Scan# 1517
 Delta R.T. 0.001 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

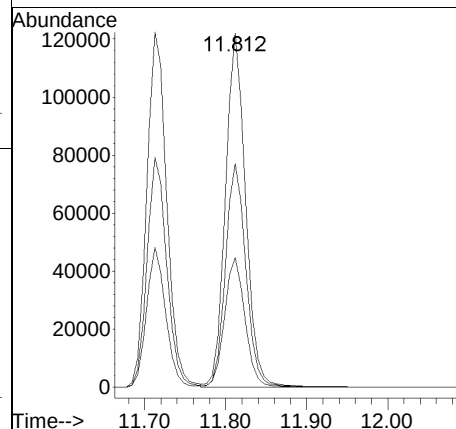
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	26.7	55.5
148	63.9	41.7	86.7

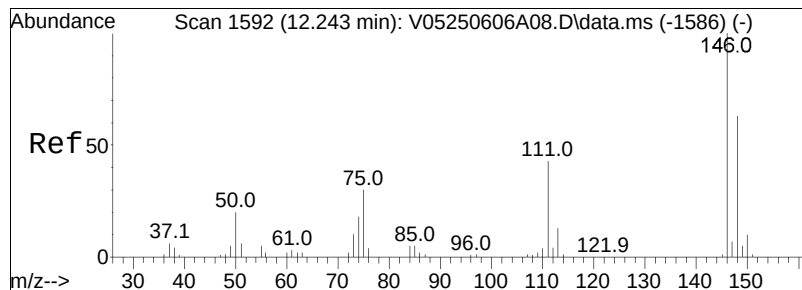




#101
 1,4-Dichlorobenzene
 Concen: 9.50 ug/L
 RT: 11.812 min Scan# 1531
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

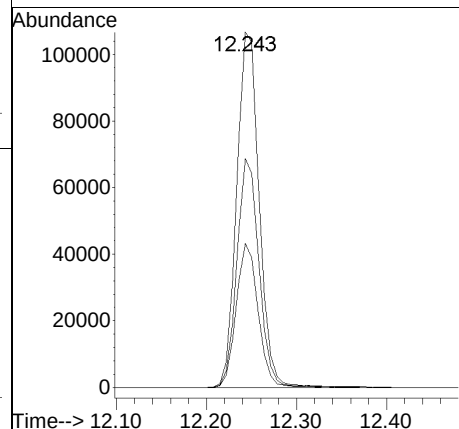
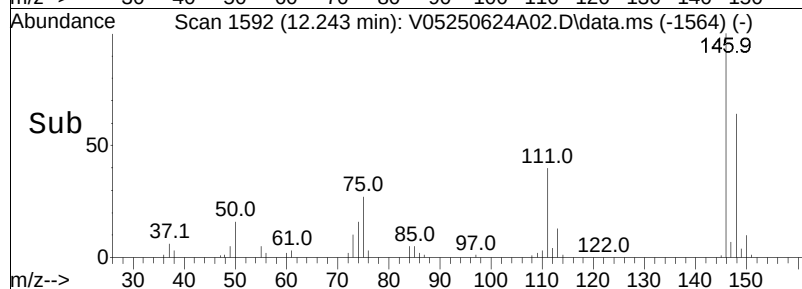
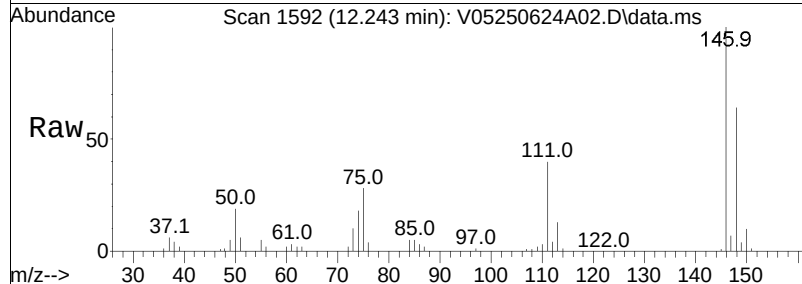
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	31.9	47.9
148	64.4	50.9	76.3

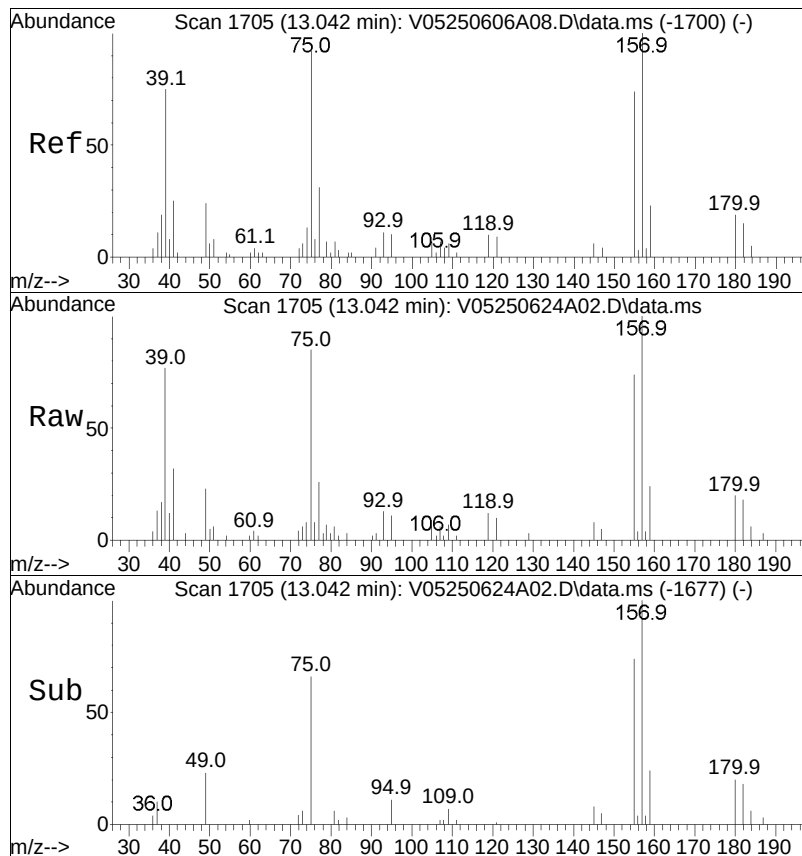




#104
 1,2-Dichlorobenzene
 Concen: 9.43 ug/L
 RT: 12.243 min Scan# 1592
 Delta R.T. 0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

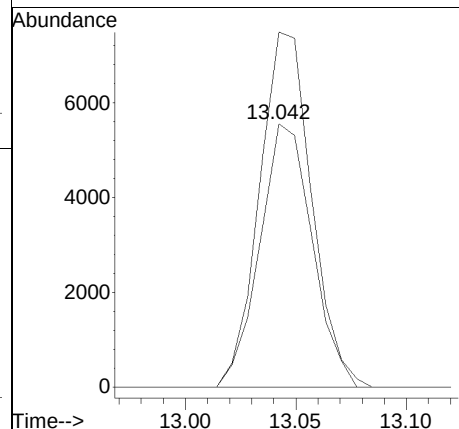
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	27.1	56.3
148	63.1	41.1	85.3

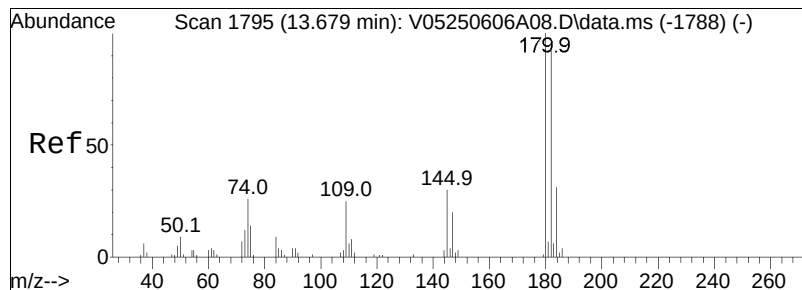




#106
 1,2-Dibromo-3-chloropropane
 Concen: 7.43 ug/L
 RT: 13.042 min Scan# 1705
 Delta R.T. 0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

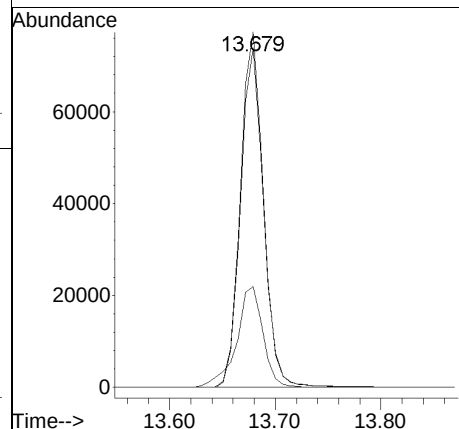
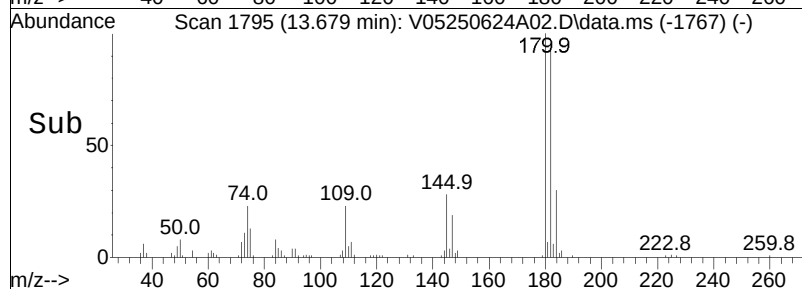
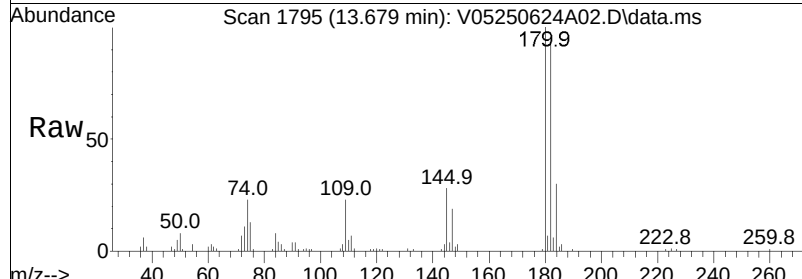
Tgt Ion:155 Resp: 9173
 Ion Ratio Lower Upper
 155 100
 157 134.0 103.8 155.6

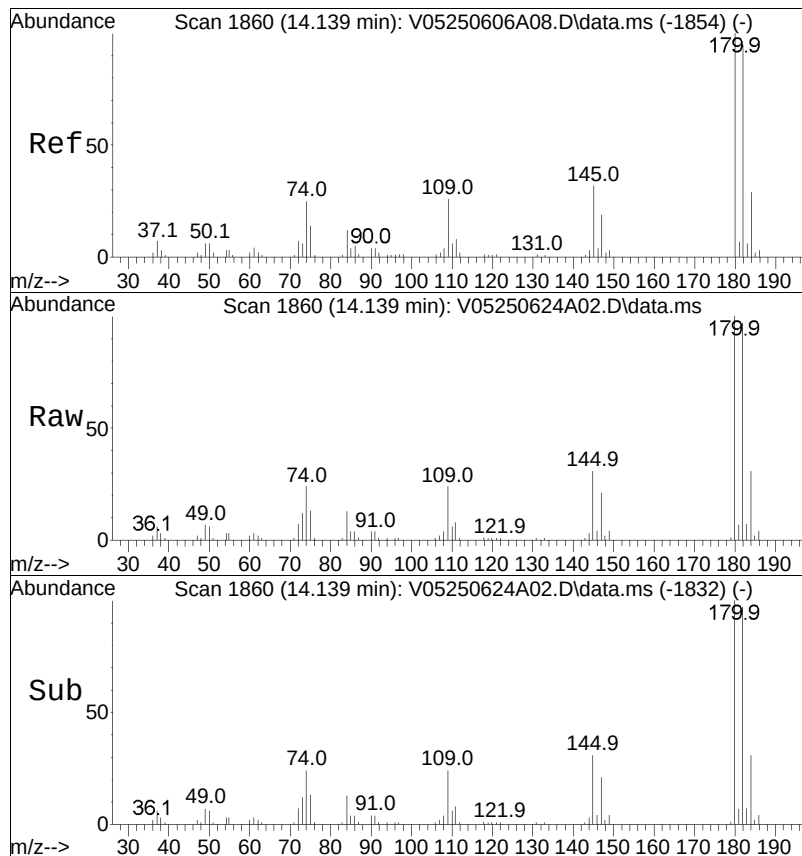




#109
 1,2,4-Trichlorobenzene
 Concen: 9.38 ug/L
 RT: 13.679 min Scan# 1795
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

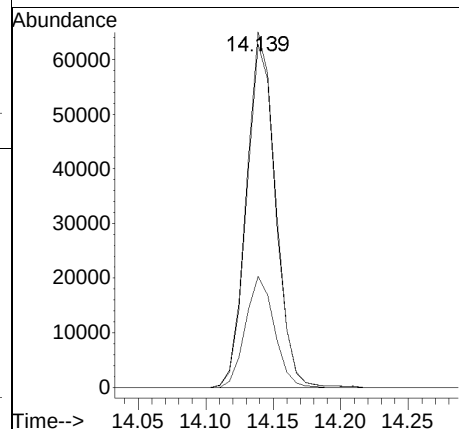
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.0	114.0
145	32.6	27.3	40.9





#111
 1,2,3-Trichlorobenzene
 Concen: 9.28 ug/L
 RT: 14.139 min Scan# 1860
 Delta R.T. -0.000 min
 Lab File: V05250624A02.D
 Acq: 24 Jun 2025 7:59 am

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	75.8	113.8
145	30.8	25.9	38.9



Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A02.d
 Acq On : 24 Jun 2025 7:59 am
 Operator : VOA108:PID
 Sample : WG2083759-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 24 08:26:23 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250624A\V08250624A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	262081	10.000	ug/L	0.00
Standard Area 1 = 263696			Recovery	=	99.39%	
59) Chlorobenzene-d5	9.409	117	200951	10.000	ug/L	0.00
Standard Area 1 = 211062			Recovery	=	95.21%	
79) 1,4-Dichlorobenzene-d4	12.130	152	124545	10.000	ug/L	0.00
Standard Area 1 = 135210			Recovery	=	92.11%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	84616	10.023	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.23%	
43) 1,2-Dichloroethane-d4	5.619	65	84525	10.482	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	104.82%	
60) Toluene-d8	7.576	98	260462	10.606	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	106.06%	
83) 4-Bromofluorobenzene	10.916	95	84416	9.942	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.42%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.617	85	63832	9.726	ug/L	98
3) Chloromethane	1.803	50	58438	8.565	ug/L	98
4) Vinyl chloride	1.877	62	83328	10.239	ug/L	99
5) Bromomethane	2.176	94	37401	6.368	ug/L	99
6) Chloroethane	2.276	64	68431	11.668	ug/L	99
7) Trichlorofluoromethane	2.422	101	222938	11.660	ug/L	98
10) 1,1-Dichloroethene	2.894	96	106591	12.057	ug/L	95
11) Carbon disulfide	2.927	76	335539	12.608	ug/L	98
12) Freon-113	2.934	101	117271	13.514	ug/L	96
15) Methylene chloride	3.439	84	65971	8.955	ug/L	97
17) Acetone	3.479	43	13862	10.543	ug/L	97
18) trans-1,2-Dichloroethene	3.586	96	65095	9.847	ug/L	96
19) Methyl acetate	3.592	43	37573	11.771	ug/L	94
20) Methyl tert-butyl ether	3.686	73	167785	10.508	ug/L	99
23) 1,1-Dichloroethane	4.158	63	122763	10.201	ug/L	100
28) cis-1,2-Dichloroethene	4.670	96	74094	9.797	ug/L	96
30) Bromochloromethane	4.856	128	43465	9.944	ug/L	99
31) Cyclohexane	4.863	56	99686	10.163	ug/L	97
32) Chloroform	4.936	83	130074	9.645	ug/L	98
34) Carbon tetrachloride	5.062	117	112915	10.284	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A02.d
 Acq On : 24 Jun 2025 7:59 am
 Operator : VOA108:PID
 Sample : WG2083759-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 24 08:26:23 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250624A\V08250624A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	5.122	97	117663	10.486	ug/L	99
39)	2-Butanone	5.222	43	21033	10.693	ug/L	90
41)	Benzene	5.489	78	272353	10.218	ug/L	99
44)	1,2-Dichloroethane	5.694	62	83652	10.129	ug/L	98
47)	Methyl cyclohexane	6.070	83	94463	9.460	ug/L	98
48)	Trichloroethene	6.084	95	69040	9.402	ug/L	97
51)	1,2-Dichloropropane	6.618	63	63039	9.949	ug/L	99
54)	Bromodichloromethane	6.693	83	94303	9.988	ug/L	100
58)	cis-1,3-Dichloropropene	7.377	75	100416	10.564	ug/L	96
61)	Toluene	7.637	92	150709	9.831	ug/L	99
62)	4-Methyl-2-pentanone	8.068	58	14433	11.486	ug/L	87
63)	Tetrachloroethene	8.082	166	69449	9.631	ug/L	95
65)	trans-1,3-Dichloropropene	8.116	75	84056	11.031	ug/L	95
68)	1,1,2-Trichloroethane	8.301	83	45798	10.616	ug/L	99
69)	Chlorodibromomethane	8.513	129	75902	10.646	ug/L	96
71)	1,2-Dibromoethane	8.780	107	53031	11.306	ug/L	93
72)	2-Hexanone	9.067	43	26372	10.008	ug/L	97
73)	Chlorobenzene	9.430	112	187702	9.796	ug/L	98
74)	Ethylbenzene	9.471	91	303419	9.872	ug/L	98
76)	p/m Xylene	9.649	106	247709	18.386	ug/L	96
77)	o Xylene	10.196	106	244598	18.421	ug/L	95
78)	Styrene	10.265	104	392963	16.584	ug/L	100
80)	Bromoform	10.292	173	43339	9.149	ug/L	95
82)	Isopropylbenzene	10.587	105	314668	9.557	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.163	83	69052	11.084	ug/L	99
100)	1,3-Dichlorobenzene	12.055	146	172946	9.408	ug/L	99
101)	1,4-Dichlorobenzene	12.144	146	178530	9.537	ug/L	99
104)	1,2-Dichlorobenzene	12.569	146	162207	9.606	ug/L	97
106)	1,2-Dibromo-3-chloropr...	13.351	155	11136	11.266	ug/L	91
109)	1,2,4-Trichlorobenzene	13.982	180	103191	9.310	ug/L	96
111)	1,2,3-Trichlorobenzene	14.442	180	97176	9.769	ug/L	99

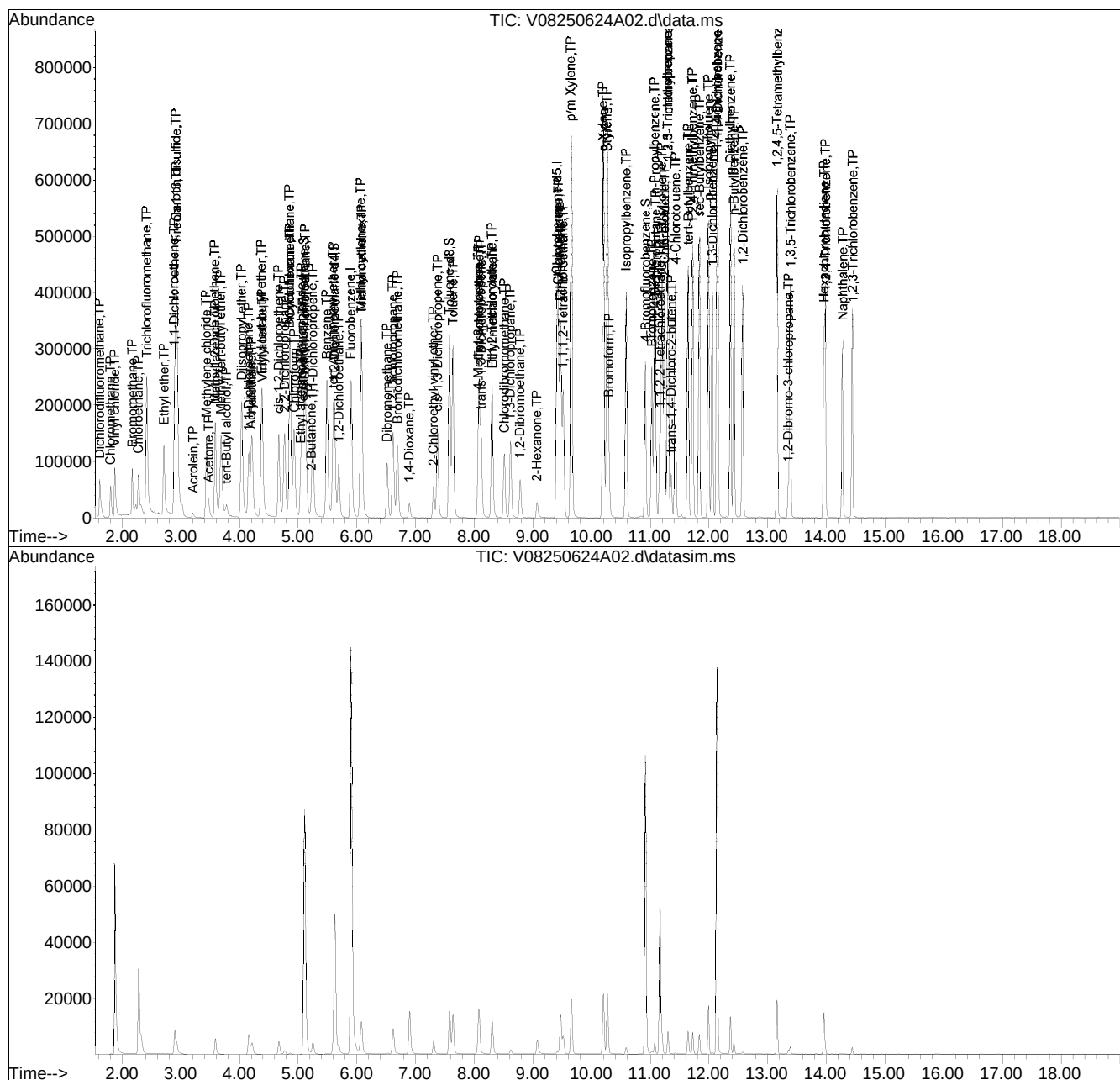
(#) = qualifier out of range (m) = manual integration (+) = signals summed

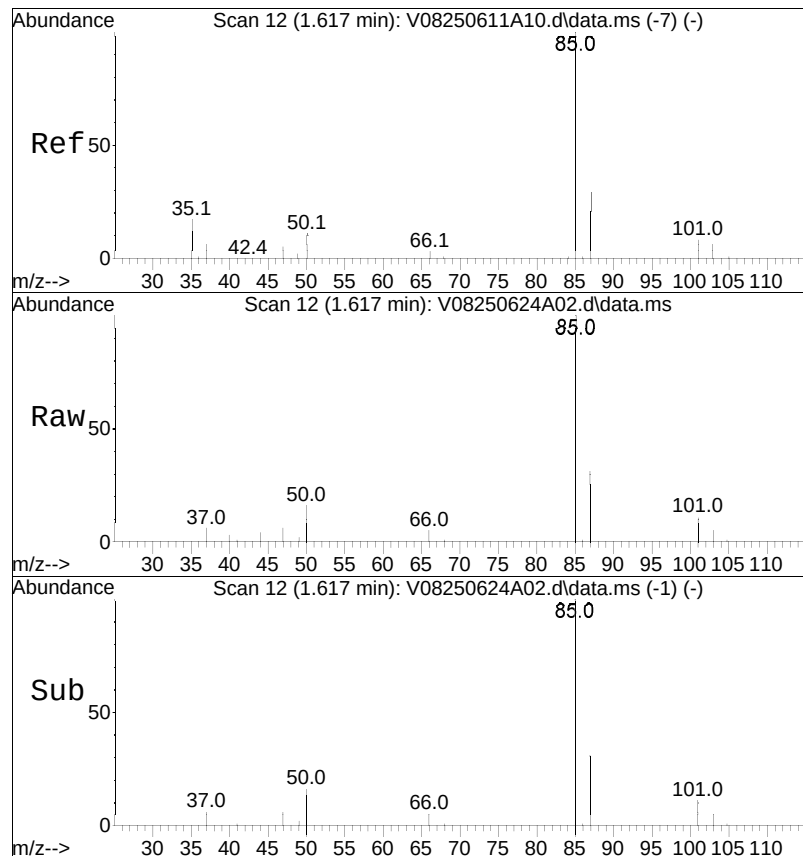
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250624A\
 Data File : V08250624A02.d
 Acq On : 24 Jun 2025 7:59 am
 Operator : VOA108:PID
 Sample : WG2083759-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2083759,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 24 08:26:23 2025
 Quant Method : K:\VOA108\2025\250624A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

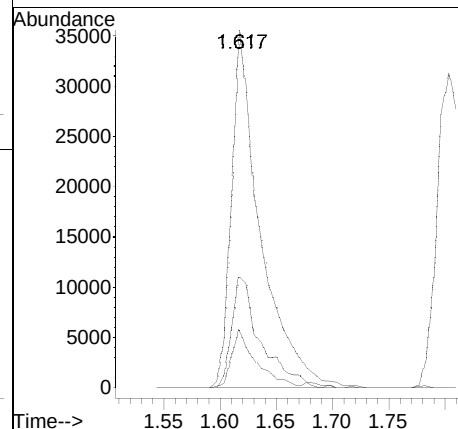
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

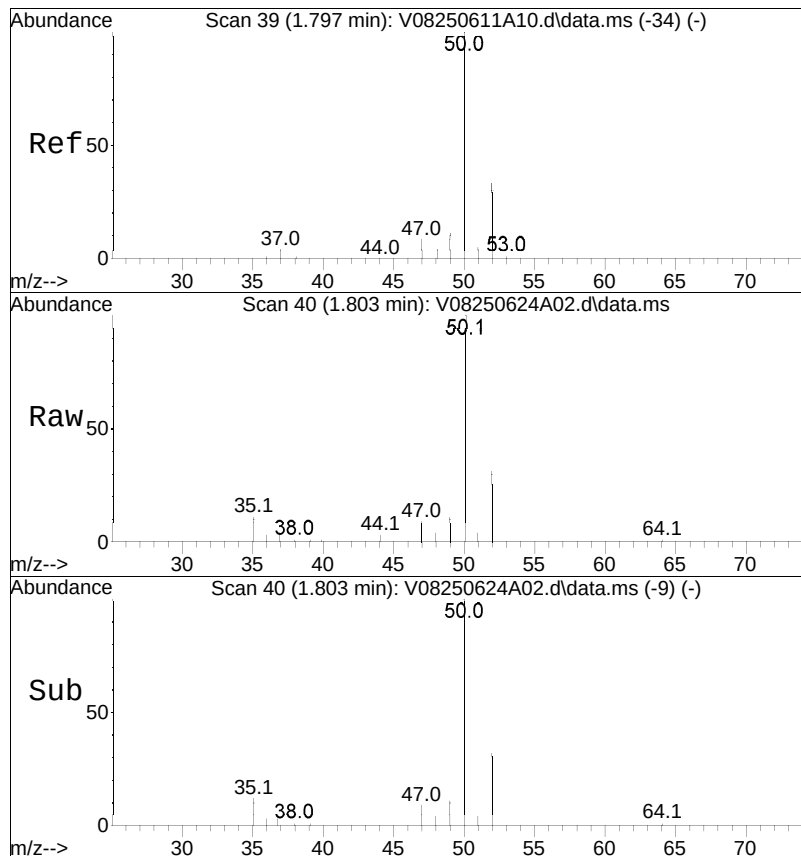




#2
 Dichlorodifluoromethane
 Concen: 9.73 ug/L
 RT: 1.617 min Scan# 12
 Delta R.T. 0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

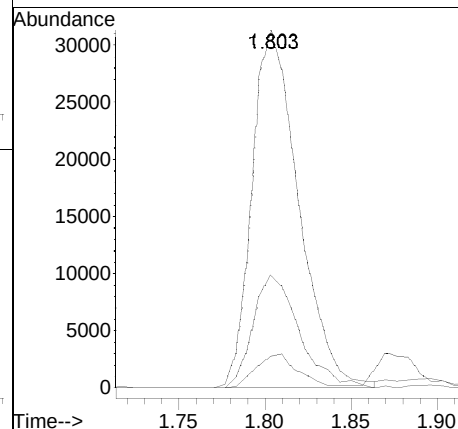
Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.5	20.8	43.2
50	14.5	8.4	17.4

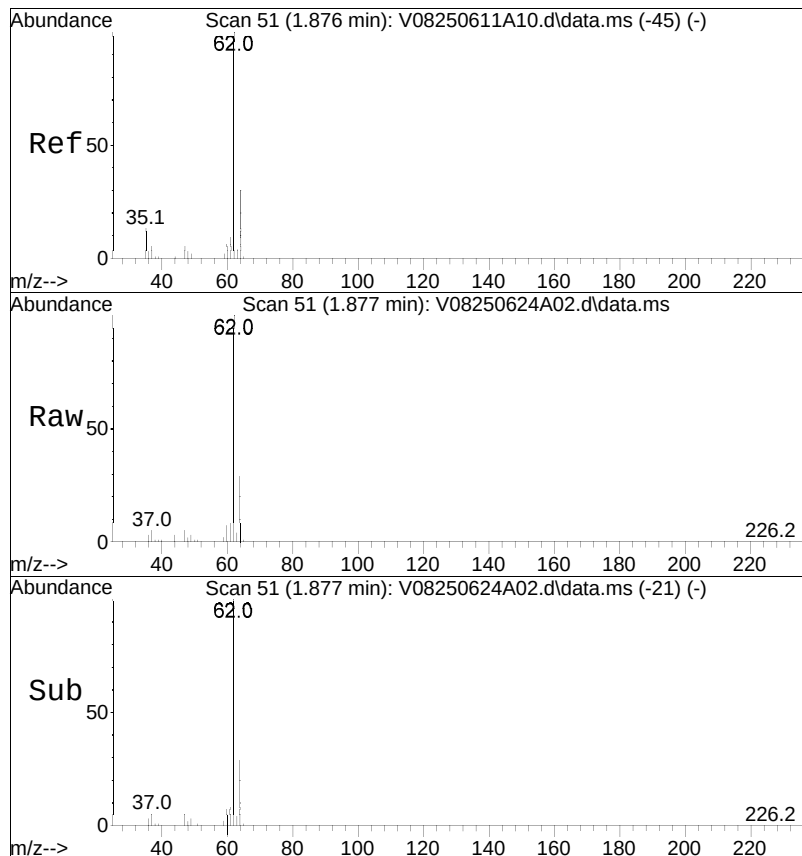




#3
 Chloromethane
 Concen: 8.57 ug/L
 RT: 1.803 min Scan# 40
 Delta R.T. 0.006 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

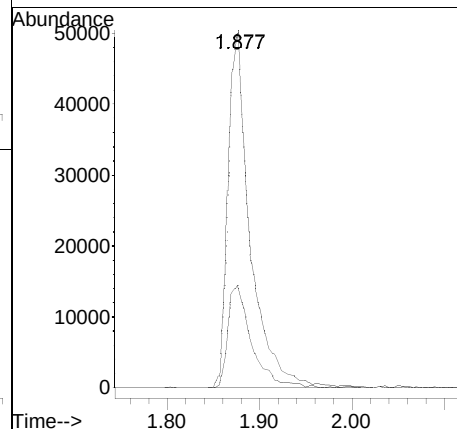
Tgt Ion:	50	Resp:	58438
Ion Ratio	Lower	Upper	
50	100		
52	31.5	12.4	52.4
47	8.9	0.0	28.0

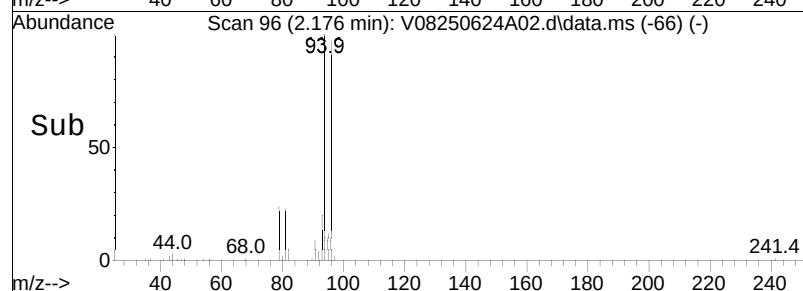
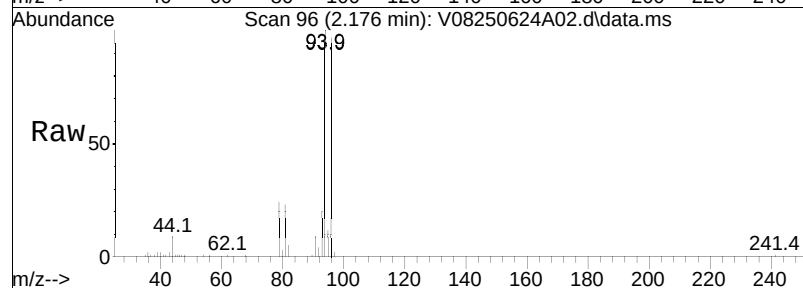
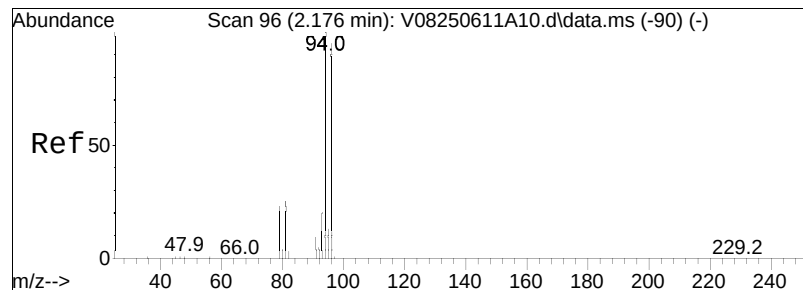




#4
 Vinyl chloride
 Concen: 10.24 ug/L
 RT: 1.877 min Scan# 51
 Delta R.T. 0.001 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

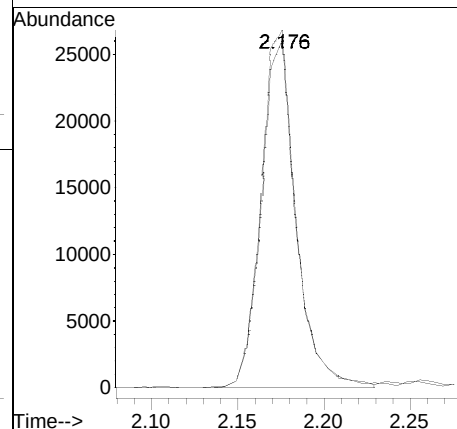
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.1	10.5	50.5

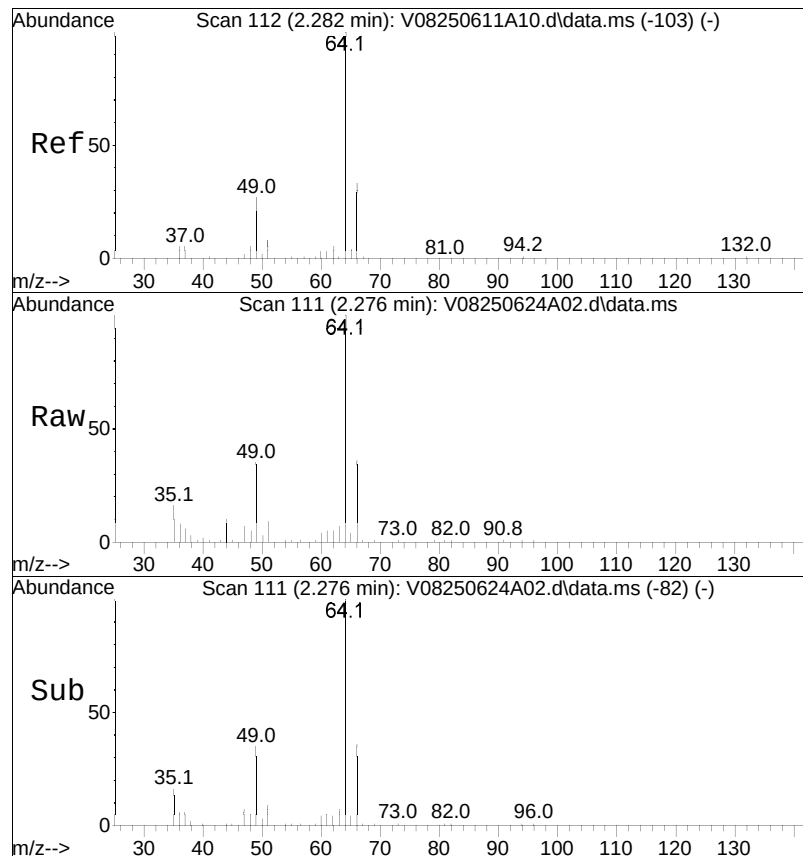




#5
 Bromomethane
 Concen: 6.37 ug/L
 RT: 2.176 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

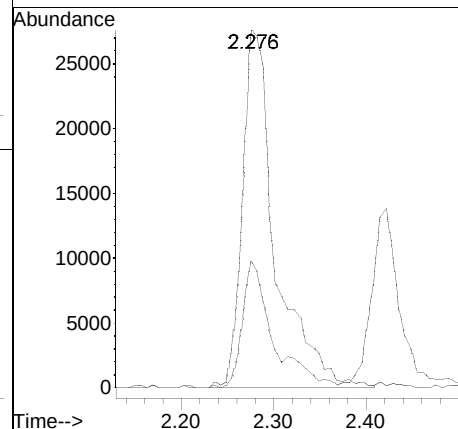
Tgt Ion	Ratio	Lower	Upper
94	100		
96	96.9	77.7	117.7

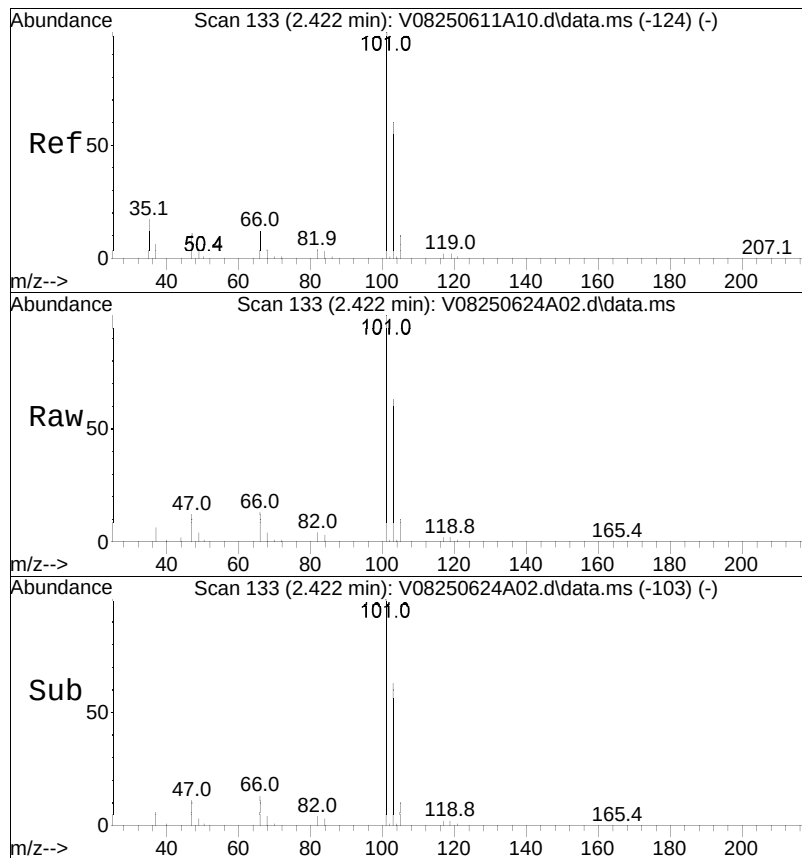




#6
 Chloroethane
 Concen: 11.67 ug/L
 RT: 2.276 min Scan# 111
 Delta R.T. -0.006 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

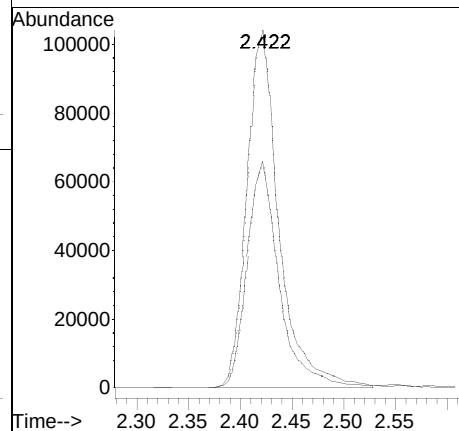
Tgt Ion	Ratio	Lower	Upper
64	100		
66	33.2	13.7	53.7

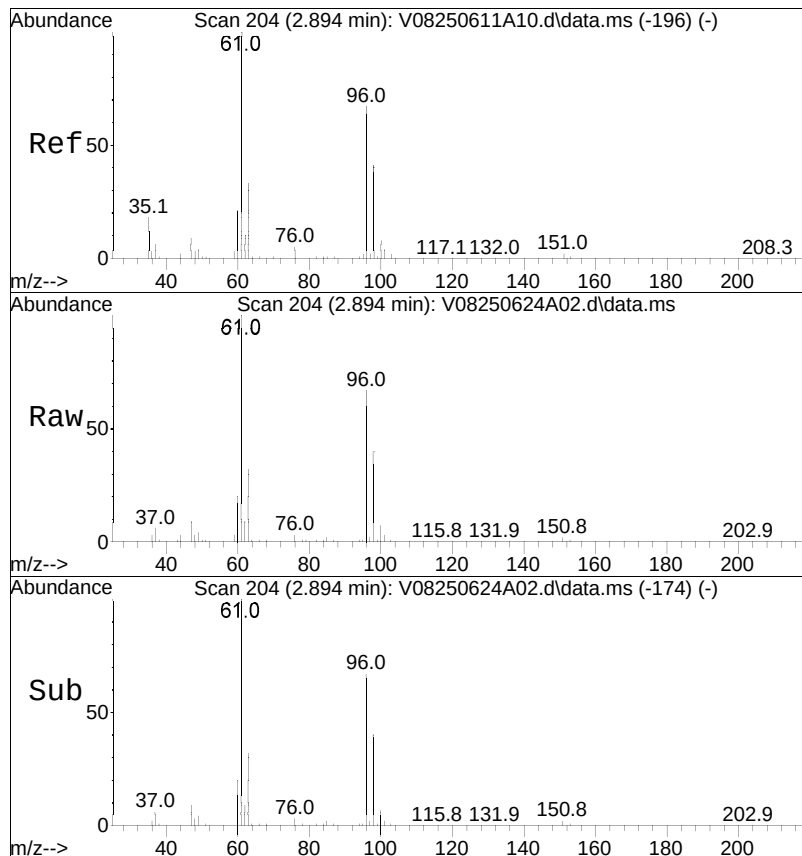




#7
 Trichlorofluoromethane
 Concen: 11.66 ug/L
 RT: 2.422 min Scan# 133
 Delta R.T. -0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

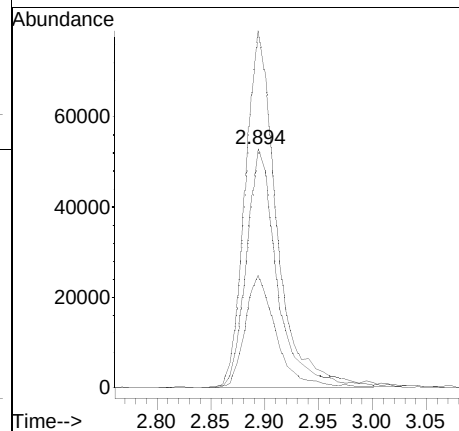
Tgt	Ion	Ratio	Resp	Lower	Upper
101	100		222938		
103	64.0	49.8	74.6		

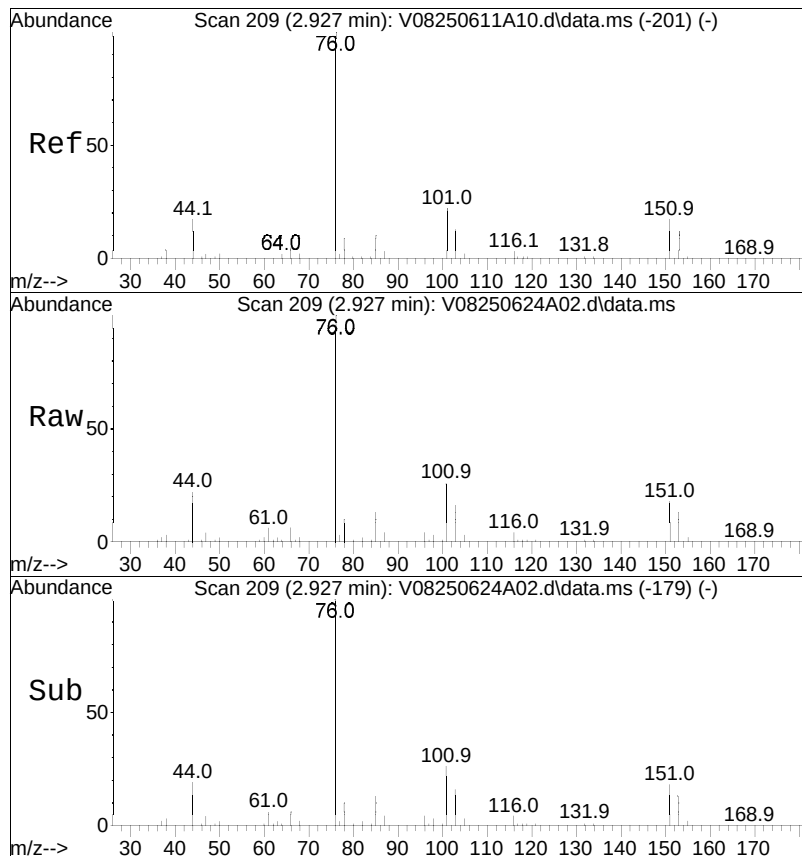




#10
 1,1-Dichloroethene
 Concen: 12.06 ug/L
 RT: 2.894 min Scan# 204
 Delta R.T. 0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

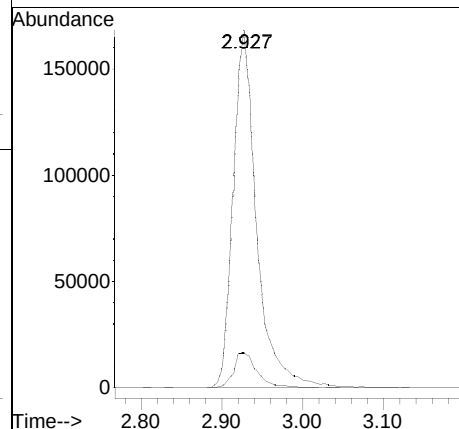
Tgt	Ion: 96	Resp:	106591
Ion	Ratio	Lower	Upper
96	100		
61	153.6	129.4	194.2
63	47.8	39.0	58.6

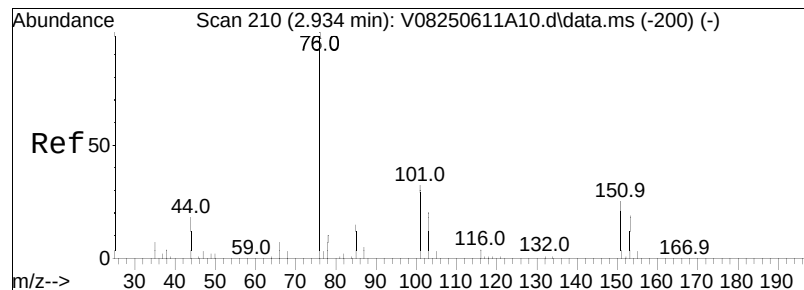




#11
 Carbon disulfide
 Concen: 12.61 ug/L
 RT: 2.927 min Scan# 209
 Delta R.T. 0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

Tgt Ion	Ratio	Lower	Upper
76	100		
78	10.1	6.0	12.6





#12

Freon-113

Concen: 13.51 ug/L

RT: 2.934 min Scan# 210

Delta R.T. 0.000 min

Lab File: V08250624A02.d

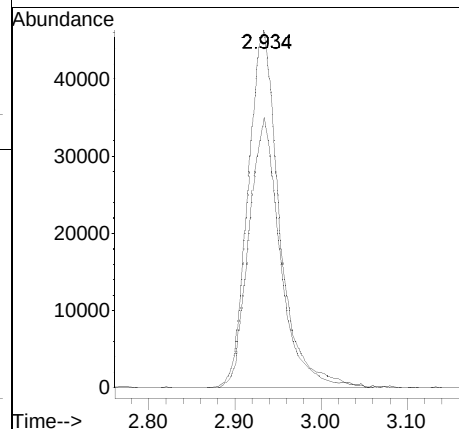
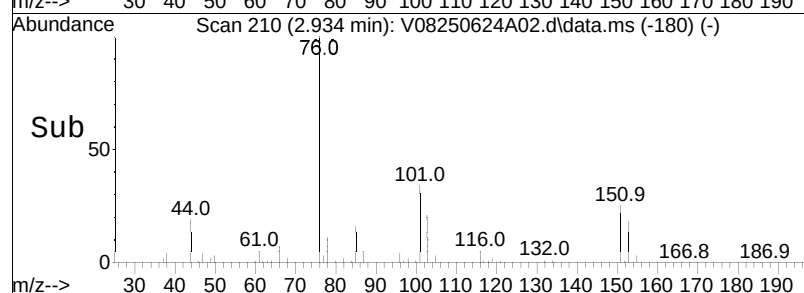
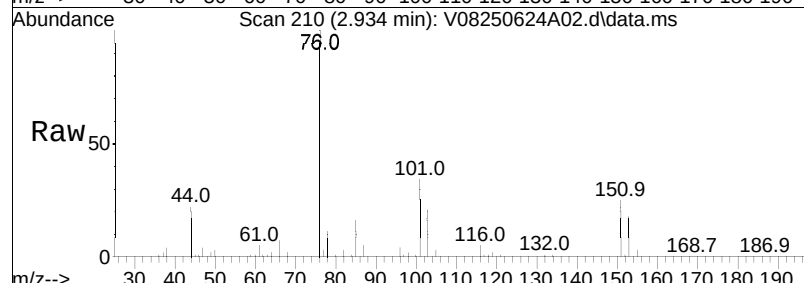
Acq: 24 Jun 2025 7:59 am

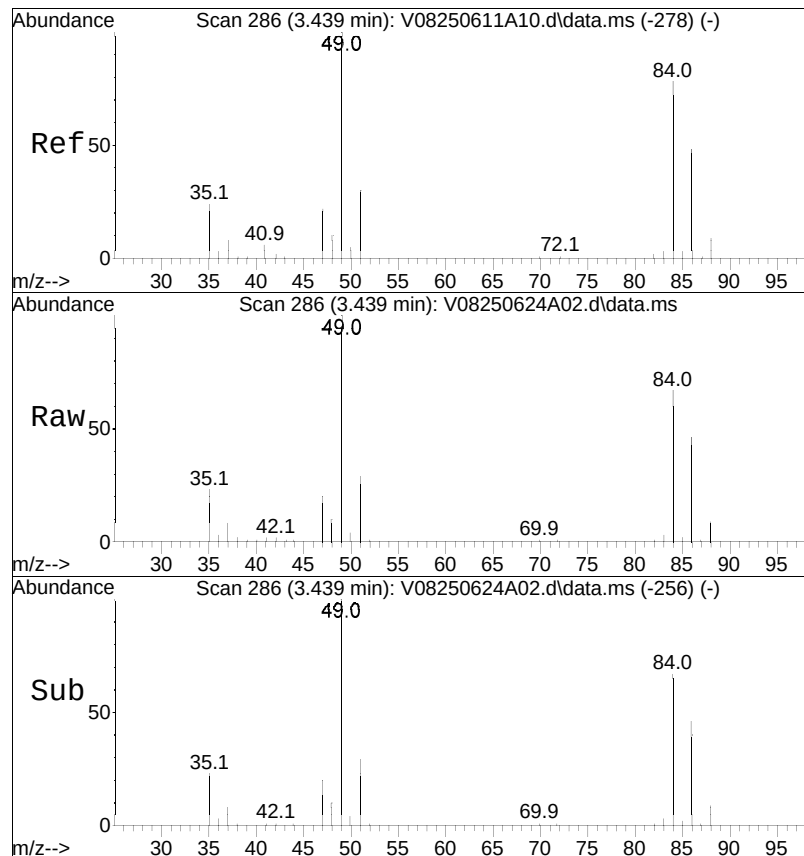
Tgt Ion:101 Resp: 117271

Ion Ratio Lower Upper

101 100

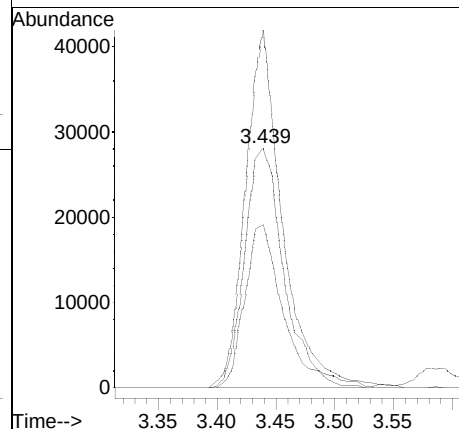
151 76.0 63.5 95.3

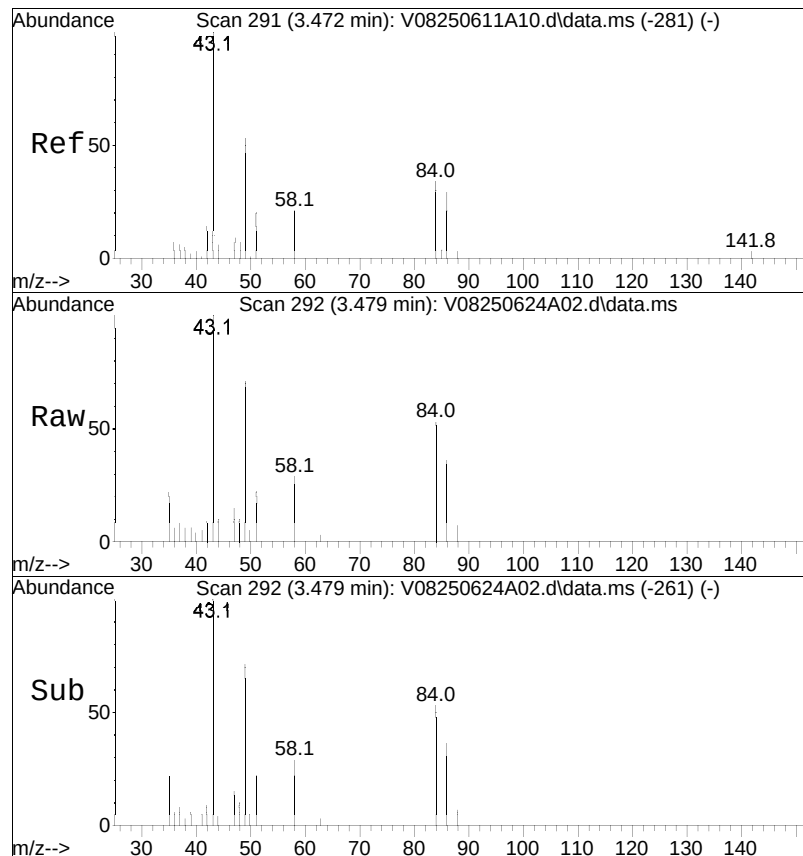




#15
Methylene chloride
Concen: 8.96 ug/L
RT: 3.439 min Scan# 286
Delta R.T. 0.000 min
Lab File: V08250624A02.d
Acq: 24 Jun 2025 7:59 am

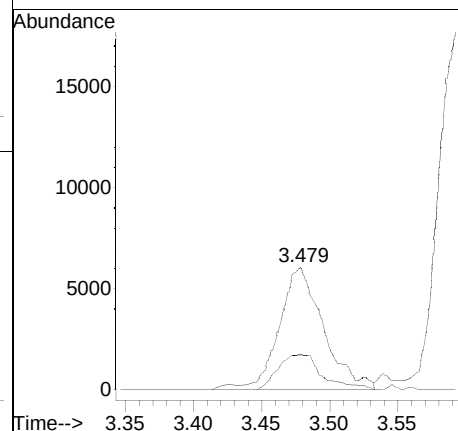
Tgt Ion:	84	Resp:	65971
Ion Ratio	Lower	Upper	
84	100		
86	65.3	41.1	85.5
49	138.4	87.2	181.0

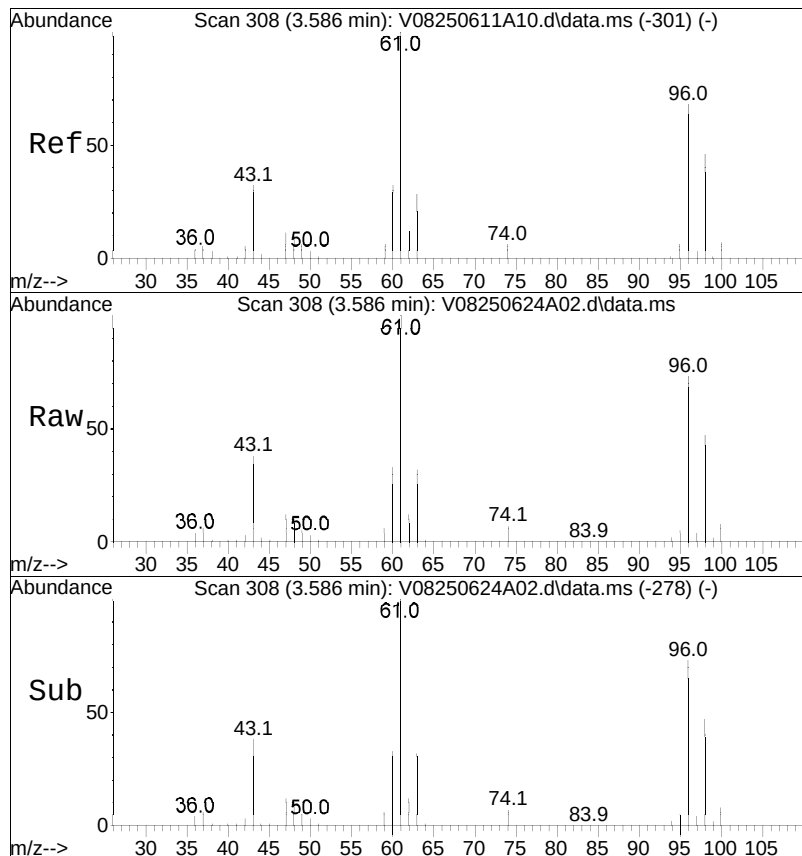




#17
 Acetone
 Concen: 10.54 ug/L
 RT: 3.479 min Scan# 292
 Delta R.T. 0.007 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

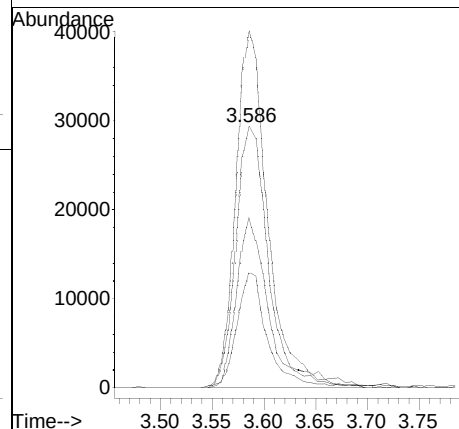
Tgt	Ion	Resp	Lower	Upper
43	100			
58	28.6	21.6	32.4	

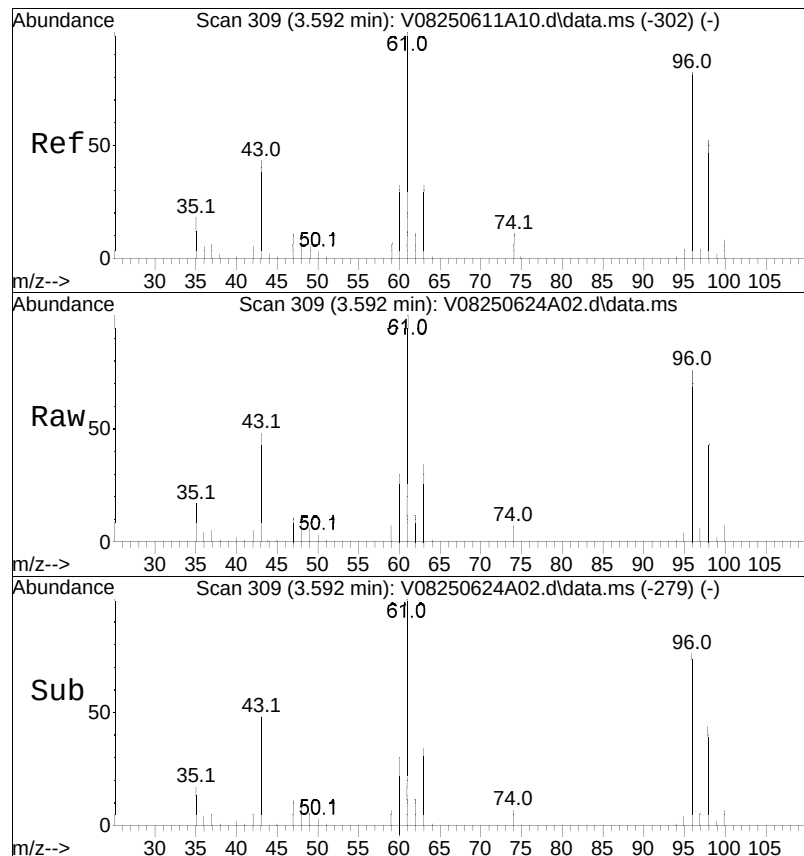




#18
 trans-1,2-Dichloroethene
 Concen: 9.85 ug/L
 RT: 3.586 min Scan# 308
 Delta R.T. -0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

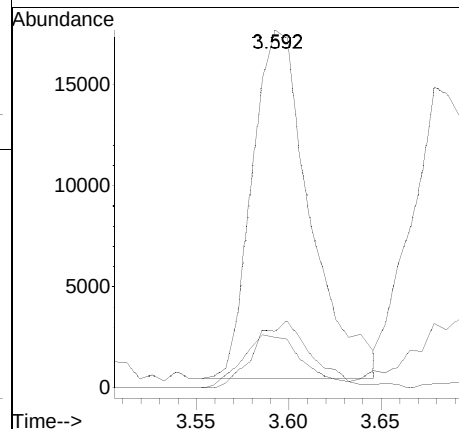
Tgt Ion:	96	Resp:	65095
Ion Ratio	Lower	Upper	
96	100		
61	133.7	90.2	187.4
98	63.0	42.2	87.6
63	40.7	27.6	57.4

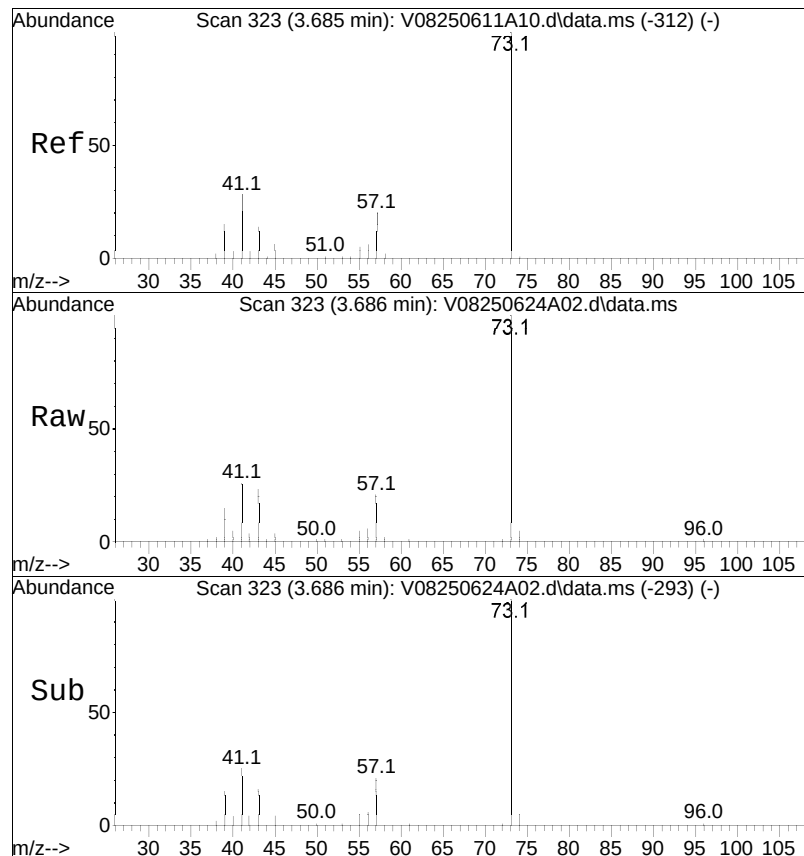




#19
Methyl acetate
Concen: 11.77 ug/L
RT: 3.592 min Scan# 309
Delta R.T. 0.000 min
Lab File: V08250624A02.d
Acq: 24 Jun 2025 7:59 am

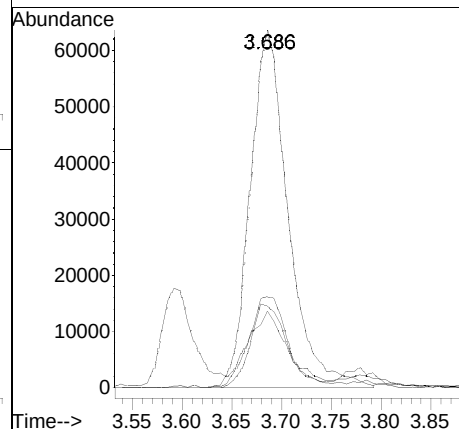
Tgt Ion:	43	Resp:	37573
Ion Ratio	Lower	Upper	
43	100		
74	18.8	17.8	26.8
59	17.0	14.7	22.1

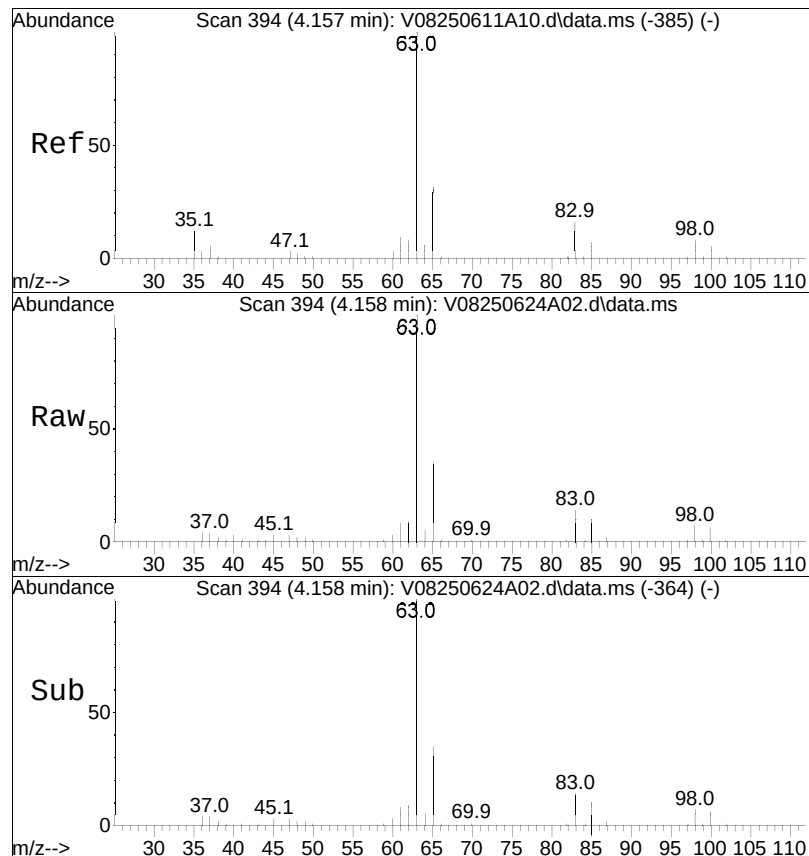




#20
Methyl tert-butyl ether
Concen: 10.51 ug/L
RT: 3.686 min Scan# 323
Delta R.T. 0.001 min
Lab File: V08250624A02.d
Acq: 24 Jun 2025 7:59 am

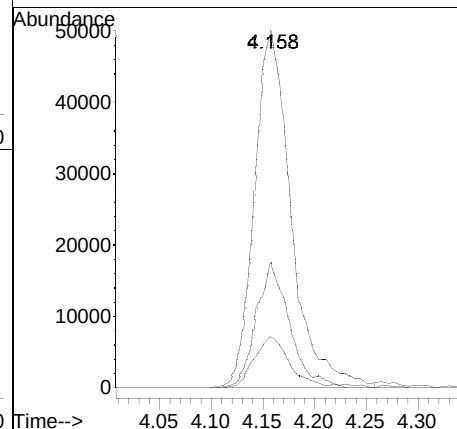
Tgt Ion:	73	Resp:	167785
Ion	Ratio	Lower	Upper
73	100		
57	21.0	13.6	28.2
43	23.5	15.7	32.5
41	27.0	18.0	37.4

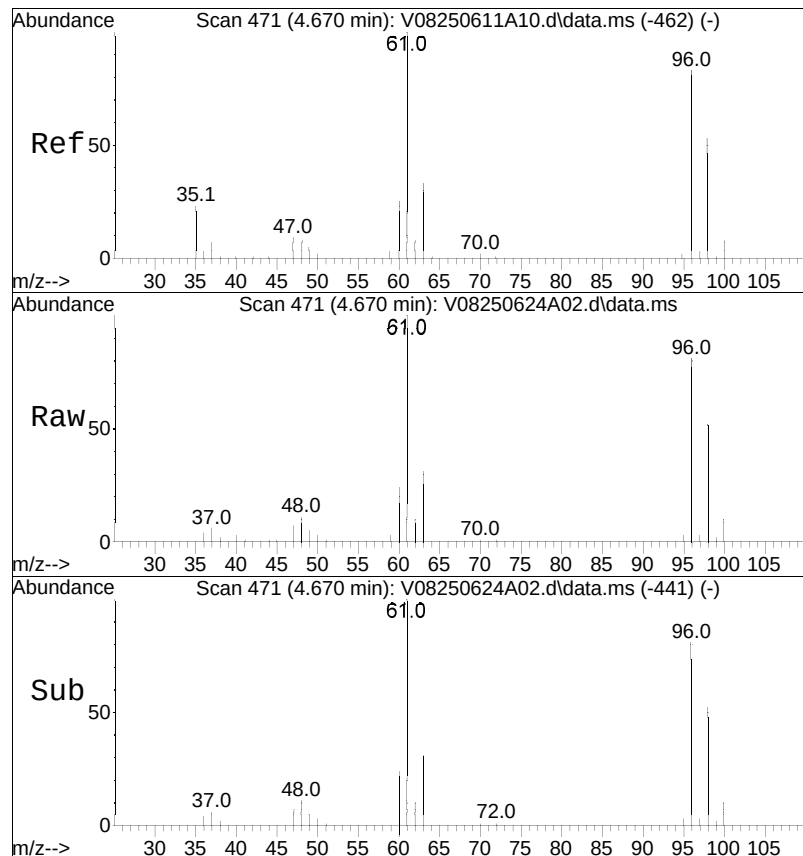




#23
 1,1-Dichloroethane
 Concen: 10.20 ug/L
 RT: 4.158 min Scan# 394
 Delta R.T. 0.001 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

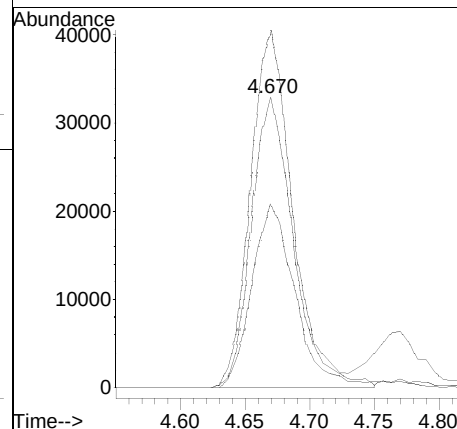
Tgt	Ion	Resp	Lower	Upper
63	100	122763		
65	32.3		12.4	52.4
83	14.0		0.0	33.8

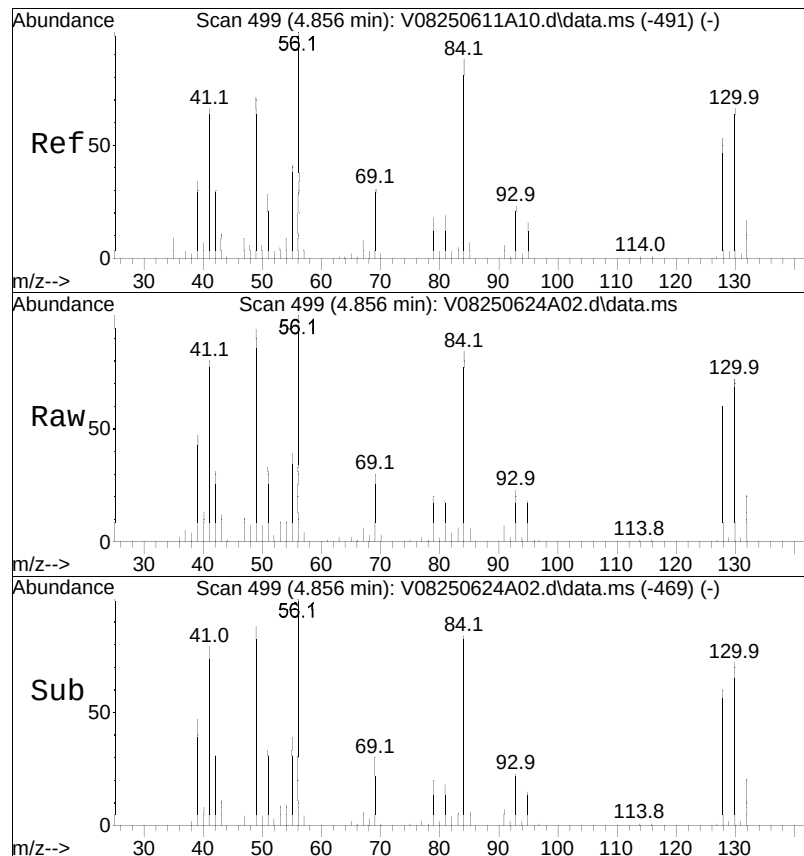




#28
 cis-1,2-Dichloroethene
 Concen: 9.80 ug/L
 RT: 4.670 min Scan# 471
 Delta R.T. -0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

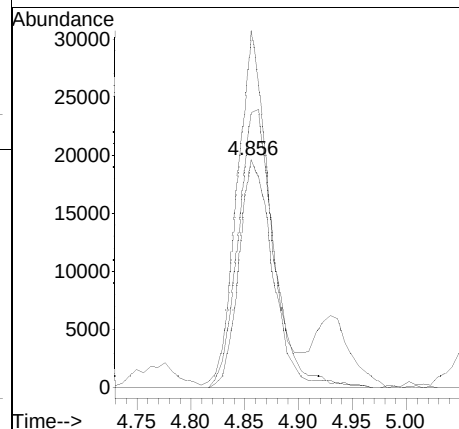
Tgt Ion	Ratio	Lower	Upper
96	100		
61	122.6	93.7	140.5
98	65.0	50.3	75.5

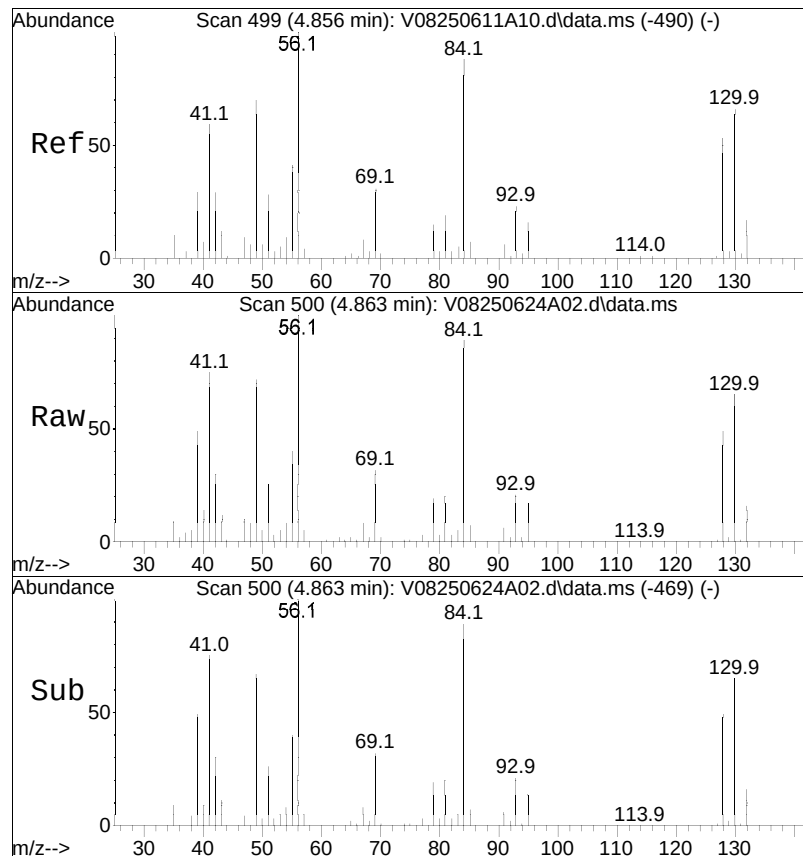




#30
 Bromochloromethane
 Concen: 9.94 ug/L
 RT: 4.856 min Scan# 499
 Delta R.T. 0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

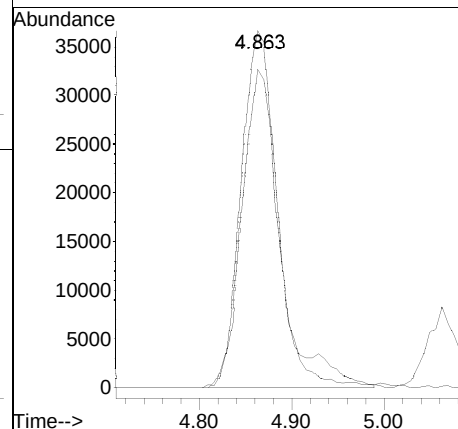
Tgt Ion:	128	Resp:	43465
Ion Ratio	Lower	Upper	
128	100		
49	147.4	119.6	179.4
130	127.4	100.7	151.1

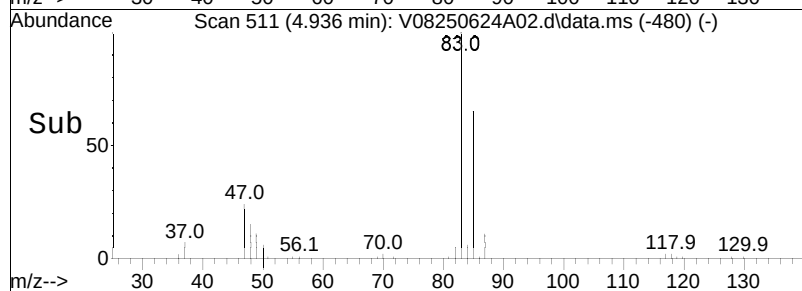
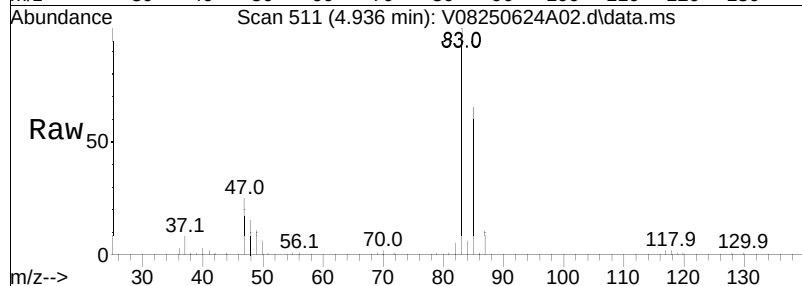
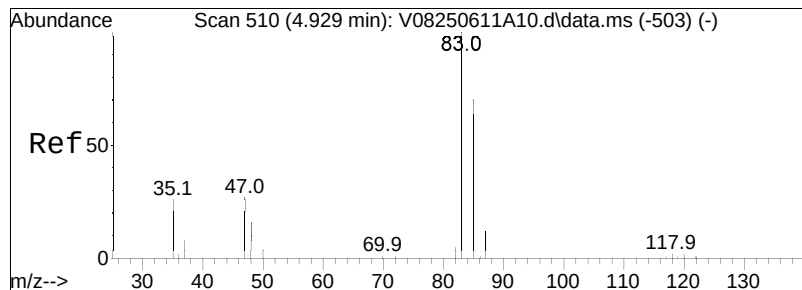




#31
 Cyclohexane
 Concen: 10.16 ug/L
 RT: 4.863 min Scan# 500
 Delta R.T. 0.007 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

Tgt Ion	Ratio	Lower	Upper
56	100		
84	87.9	55.3	114.8





#32

Chloroform

Concen: 9.64 ug/L

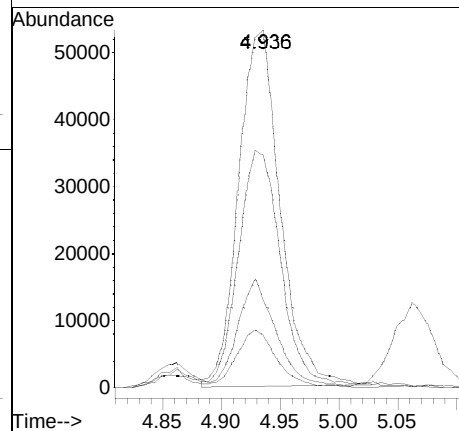
RT: 4.936 min Scan# 511

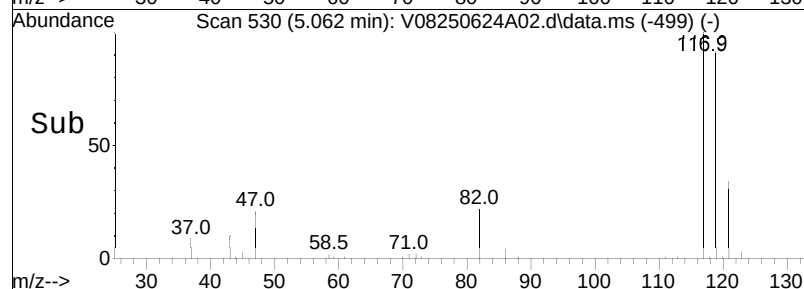
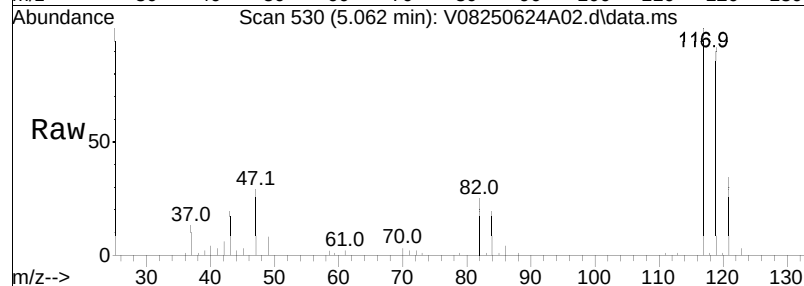
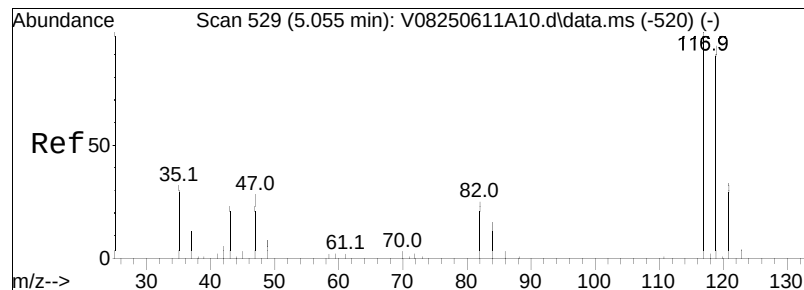
Delta R.T. 0.007 min

Lab File: V08250624A02.d

Acq: 24 Jun 2025 7:59 am

Tgt Ion:	83	Resp:	130074
Ion Ratio	Lower	Upper	
83	100		
85	66.7	42.1	87.3
47	27.5	17.7	36.7
48	16.1	9.1	18.9





#34

Carbon tetrachloride

Concen: 10.28 ug/L

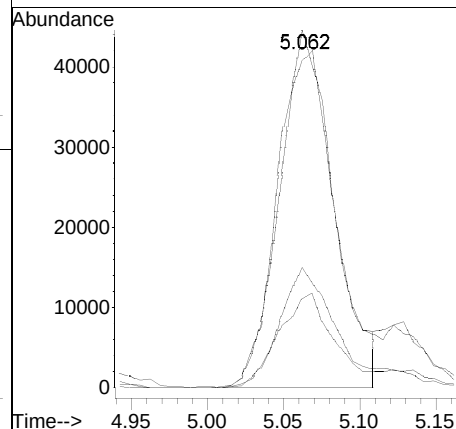
RT: 5.062 min Scan# 530

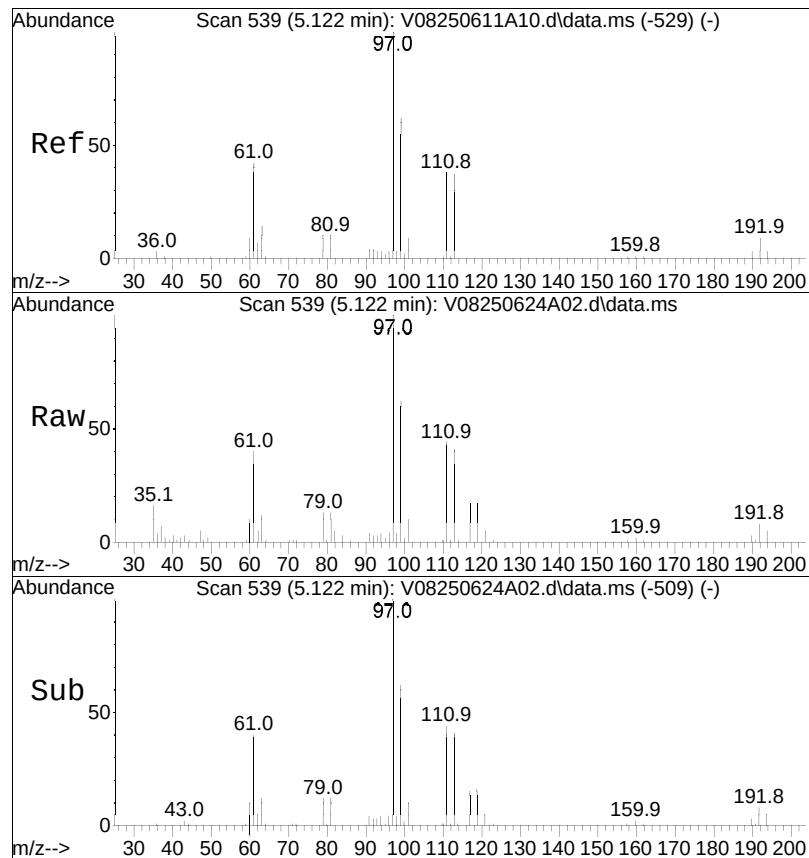
Delta R.T. 0.007 min

Lab File: V08250624A02.d

Acq: 24 Jun 2025 7:59 am

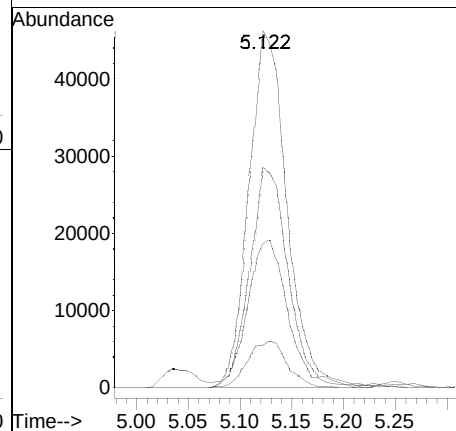
Tgt Ion:	117	Resp:	112915
Ion Ratio	Lower	Upper	
117	100		
119	98.1	61.4	127.6
121	37.8	20.5	42.7
82	27.3	16.3	33.8

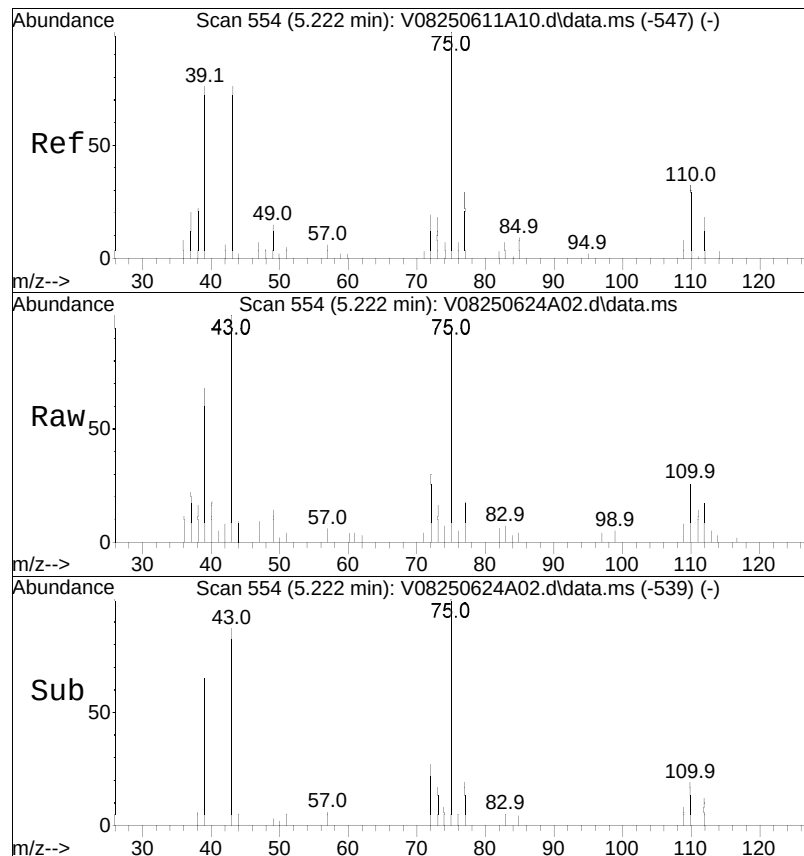




#37
 1,1,1-Trichloroethane
 Concen: 10.49 ug/L
 RT: 5.122 min Scan# 539
 Delta R.T. 0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

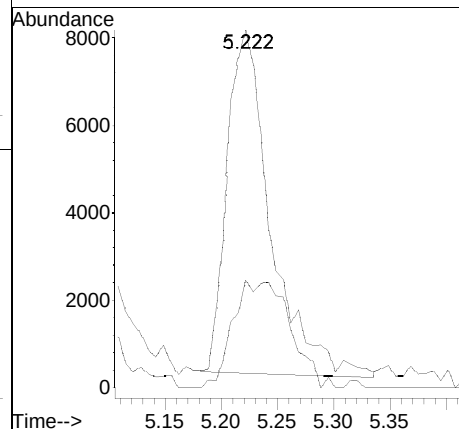
Tgt Ion:	97	Resp:	117663
Ion	Ratio	Lower	Upper
97	100		
99	62.3	40.2	83.4
61	44.3	28.6	59.4
63	13.8	9.2	19.2

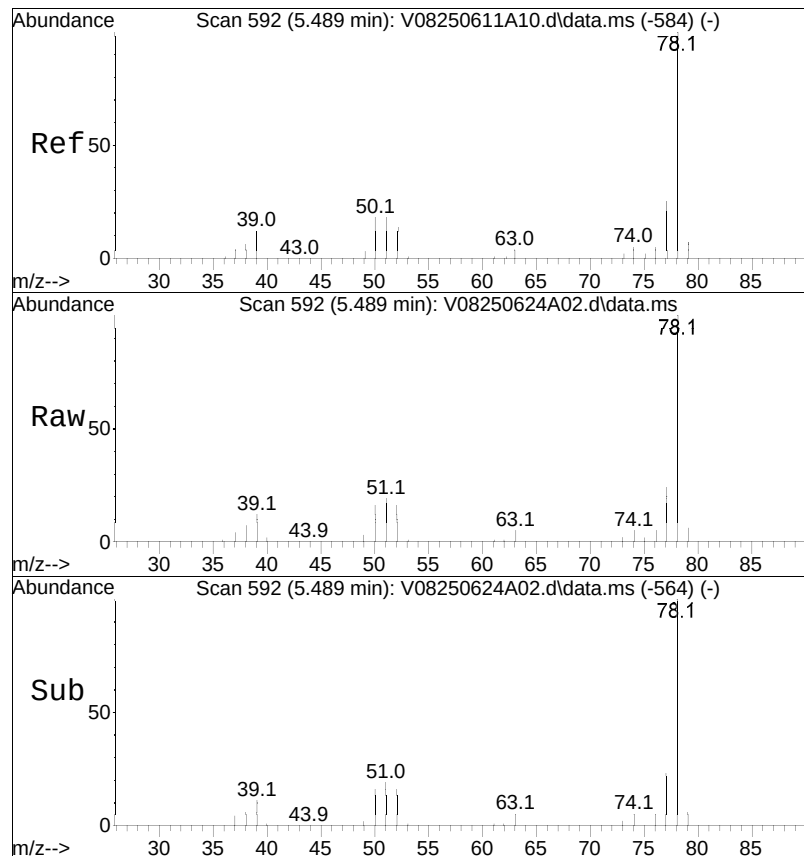




#39
 2-Butanone
 Concen: 10.69 ug/L
 RT: 5.222 min Scan# 554
 Delta R.T. -0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

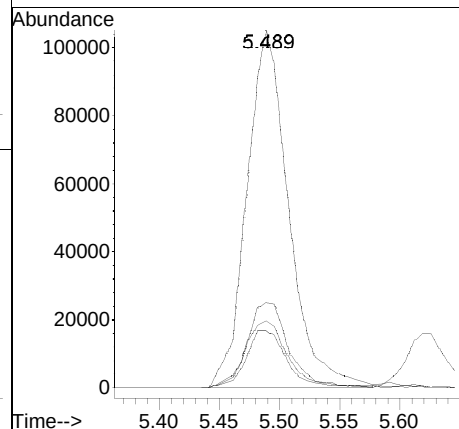
Tgt Ion	Ratio	Lower	Upper
43	100		
72	41.0	38.2	57.4

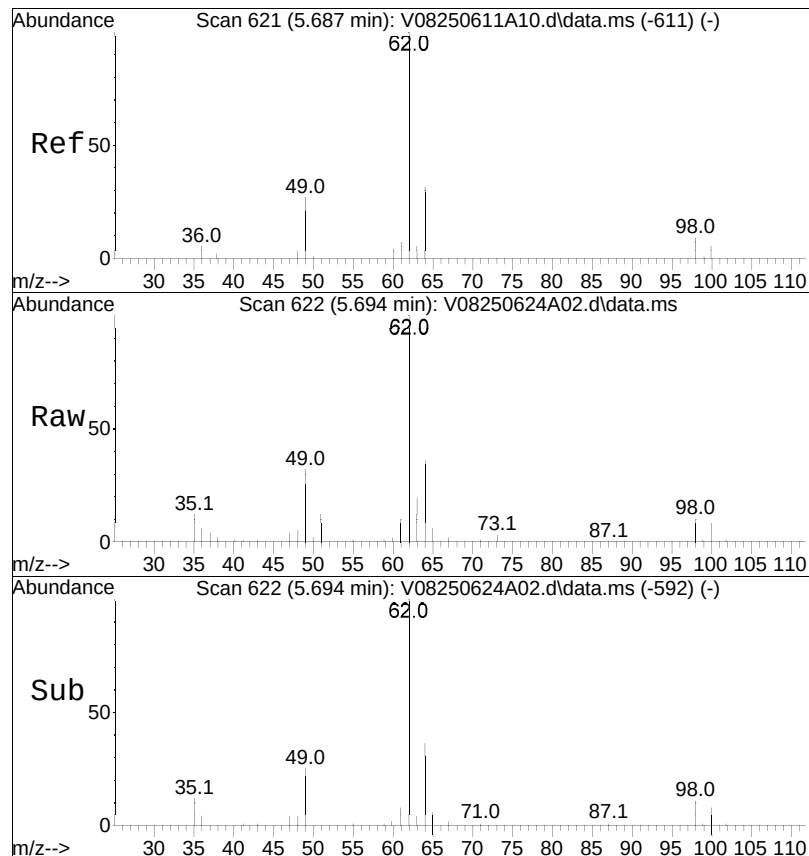




#41
Benzene
Concen: 10.22 ug/L
RT: 5.489 min Scan# 592
Delta R.T. -0.000 min
Lab File: V08250624A02.d
Acq: 24 Jun 2025 7:59 am

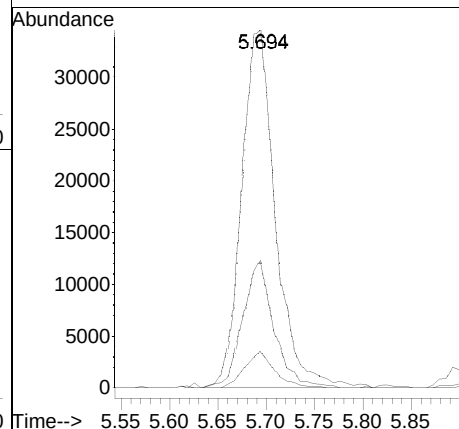
Tgt Ion: 78	Resp: 272353
Ion Ratio	Lower Upper
78 100	
77 24.1	15.7 32.7
51 19.6	12.4 25.7
52 15.9	10.6 22.0

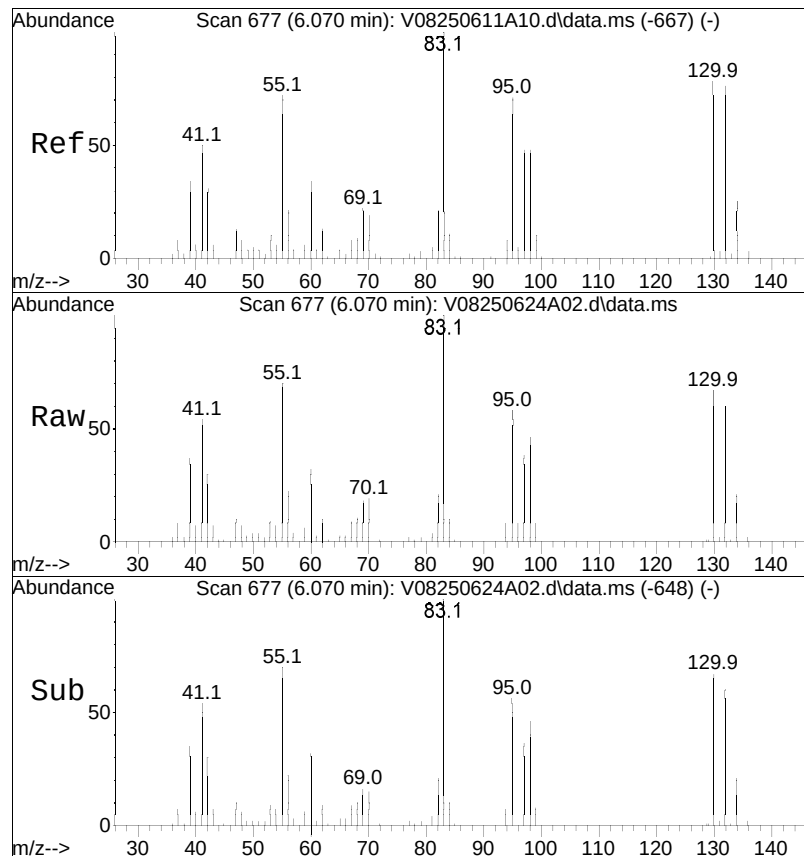




#44
 1,2-Dichloroethane
 Concen: 10.13 ug/L
 RT: 5.694 min Scan# 622
 Delta R.T. 0.007 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

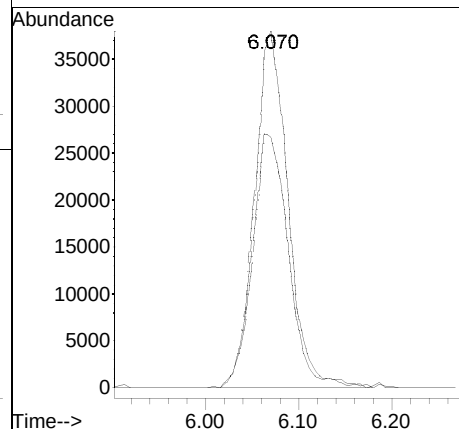
Tgt Ion:	62	Resp:	83652
Ion Ratio	Lower	Upper	
62	100		
64	33.0	11.3	51.3
98	9.2	0.0	29.3

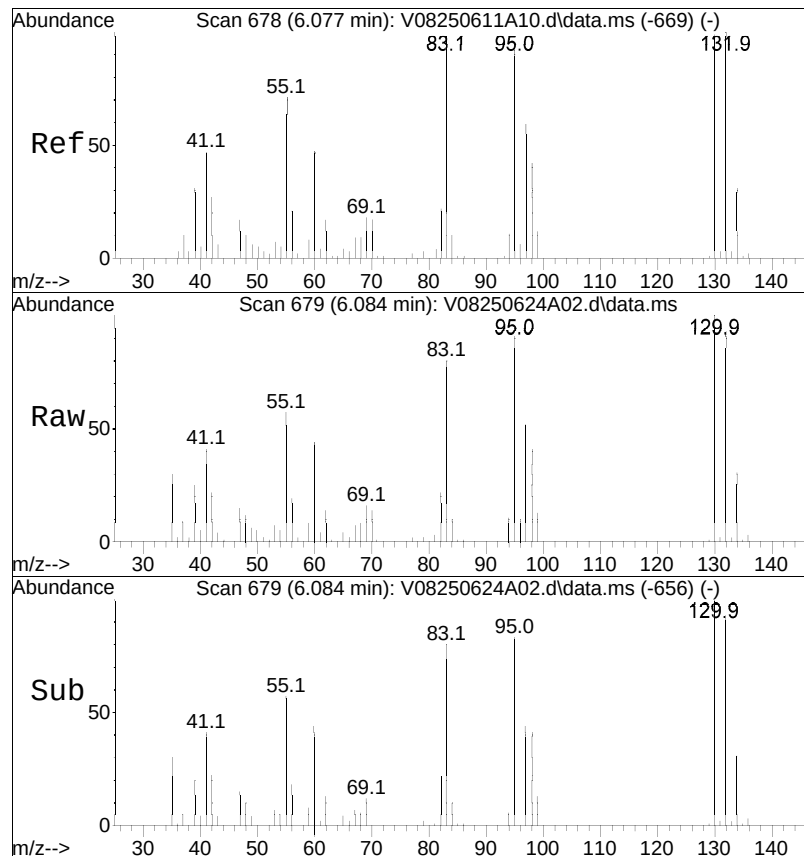




#47
Methyl cyclohexane
Concen: 9.46 ug/L
RT: 6.070 min Scan# 677
Delta R.T. 0.000 min
Lab File: V08250624A02.d
Acq: 24 Jun 2025 7:59 am

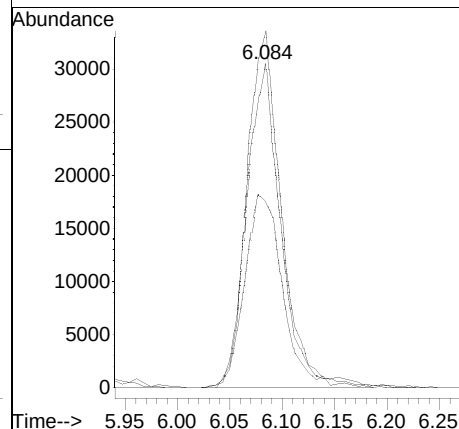
Tgt Ion: 83 Resp: 94463
Ion Ratio Lower Upper
83 100
55 76.1 62.4 93.6

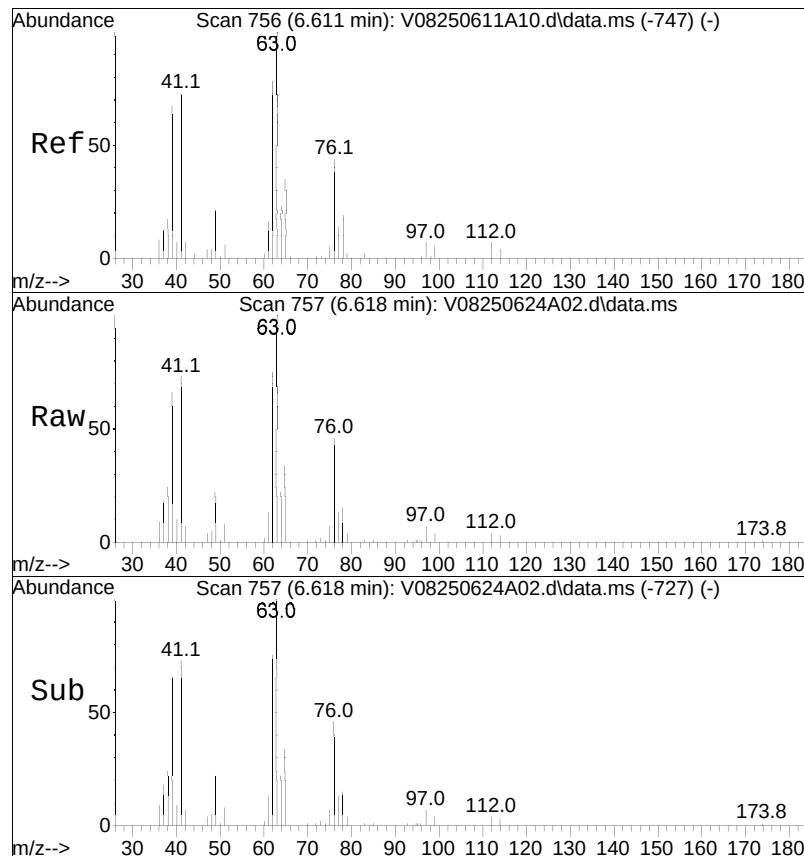




#48
 Trichloroethene
 Concen: 9.40 ug/L
 RT: 6.084 min Scan# 679
 Delta R.T. 0.007 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

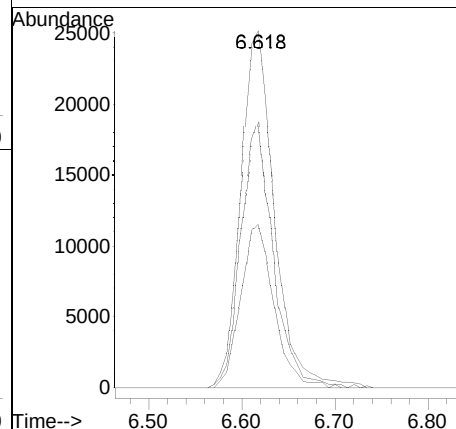
Tgt Ion:	95	Resp:	69040
Ion Ratio	Lower	Upper	
95	100		
97	66.5	54.7	82.1
130	109.1	84.7	127.1

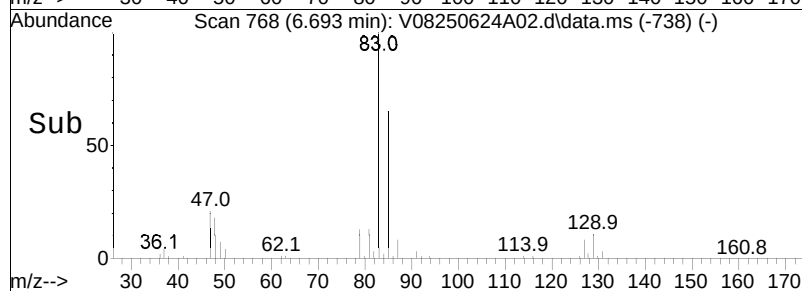
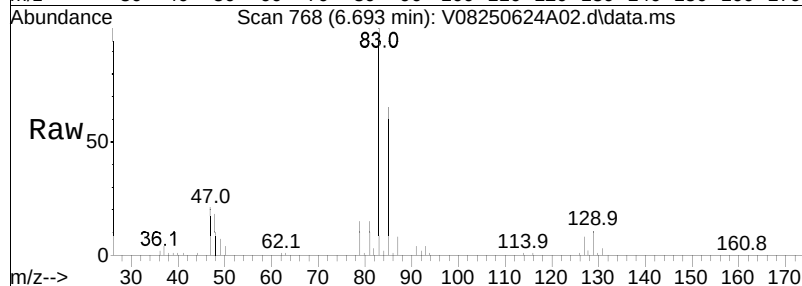
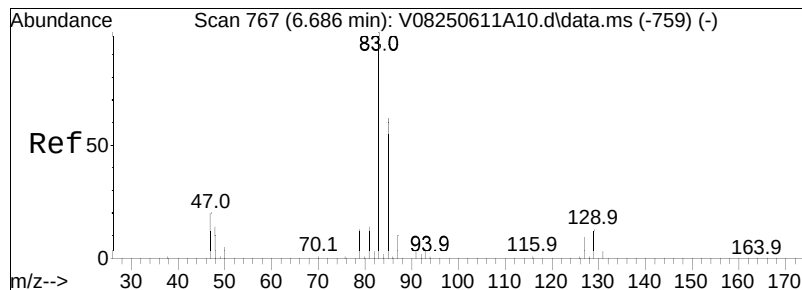




#51
 1,2-Dichloropropane
 Concen: 9.95 ug/L
 RT: 6.618 min Scan# 757
 Delta R.T. 0.007 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

Tgt	Ion: 63	Resp:	63039
Ion	Ratio	Lower	Upper
63	100		
62	71.6	58.2	87.4
76	45.6	35.9	53.9





#54

Bromodichloromethane

Concen: 9.99 ug/L

RT: 6.693 min Scan# 768

Delta R.T. 0.007 min

Lab File: V08250624A02.d

Acq: 24 Jun 2025 7:59 am

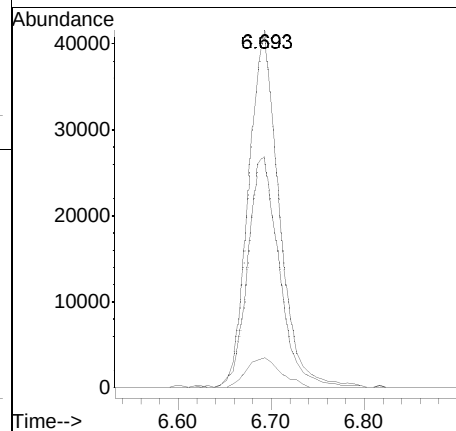
Tgt Ion: 83 Resp: 94303

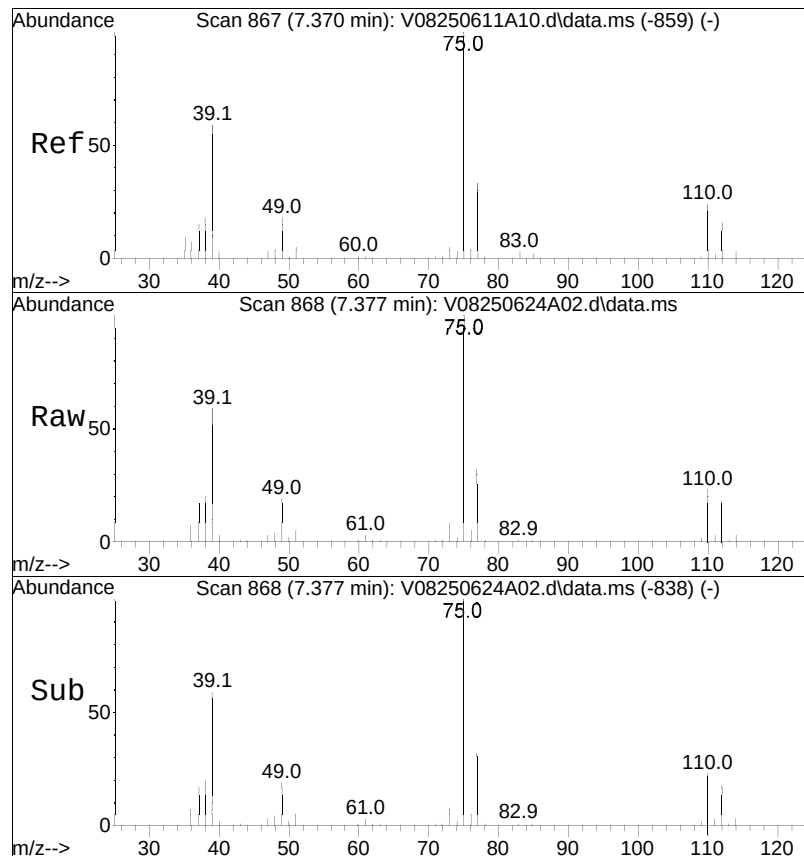
Ion Ratio Lower Upper

83 100

85 66.6 53.0 79.6

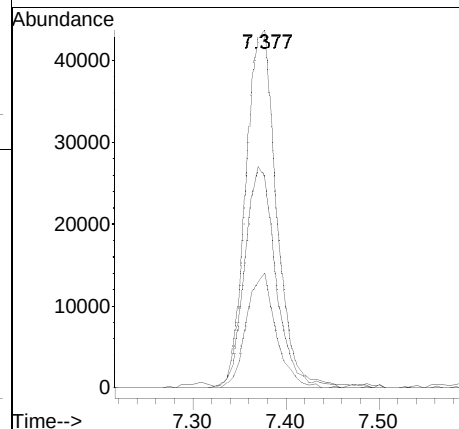
127 9.4 7.8 11.6

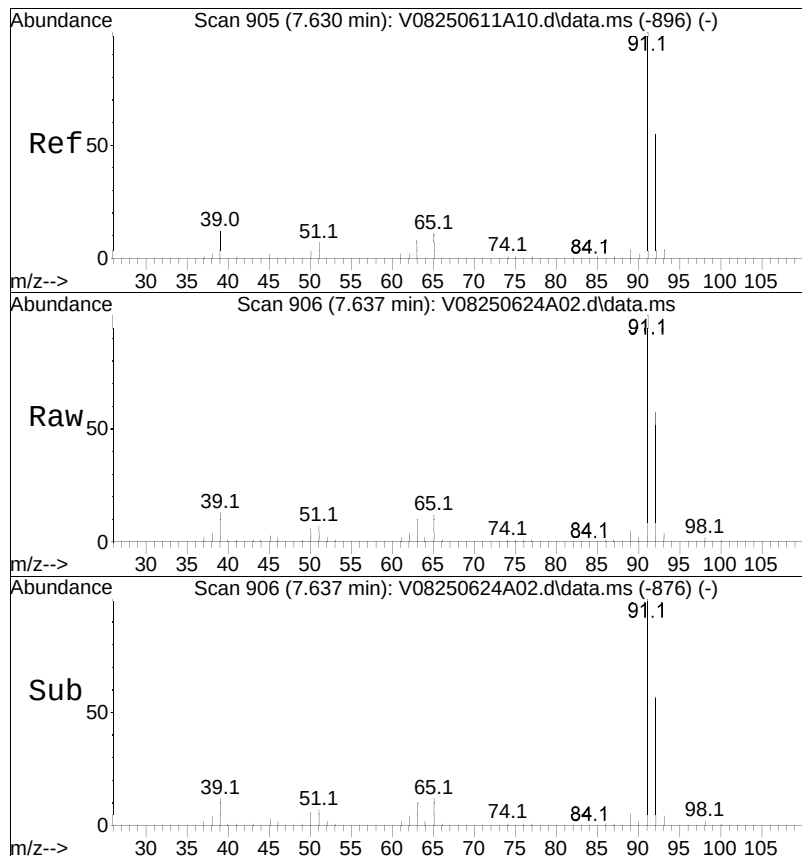




#58
 cis-1,3-Dichloropropene
 Concen: 10.56 ug/L
 RT: 7.377 min Scan# 868
 Delta R.T. 0.007 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

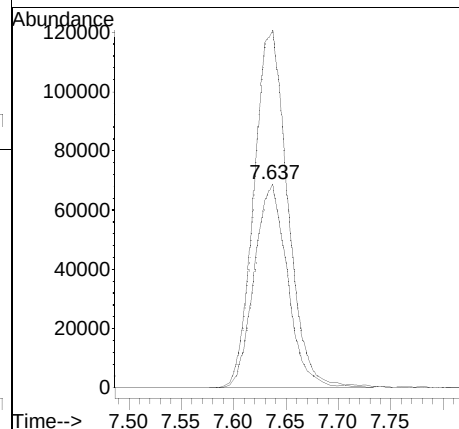
Tgt Ion:	75	Resp:	100416
Ion Ratio	Lower	Upper	
75	100		
77	30.6	25.5	38.3
39	62.2	46.9	70.3

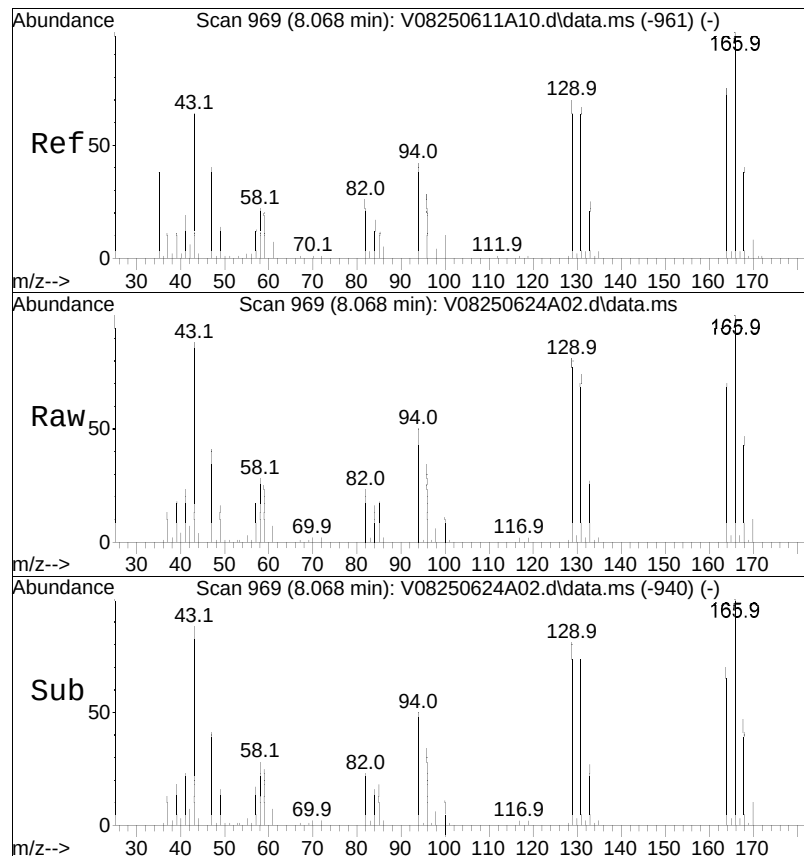




#61
 Toluene
 Concen: 9.83 ug/L
 RT: 7.637 min Scan# 906
 Delta R.T. 0.007 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

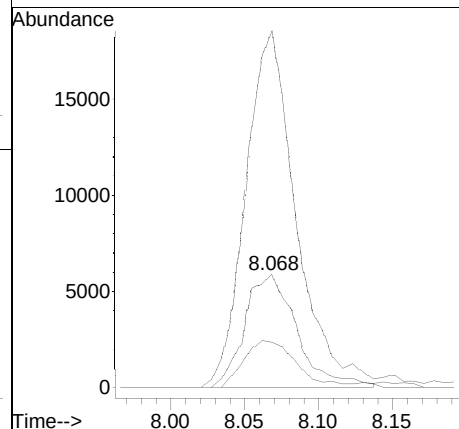
Tgt Ion:	92	Resp:	150709
Ion Ratio	Lower	Upper	
92	100		
91	178.0	140.8	211.2

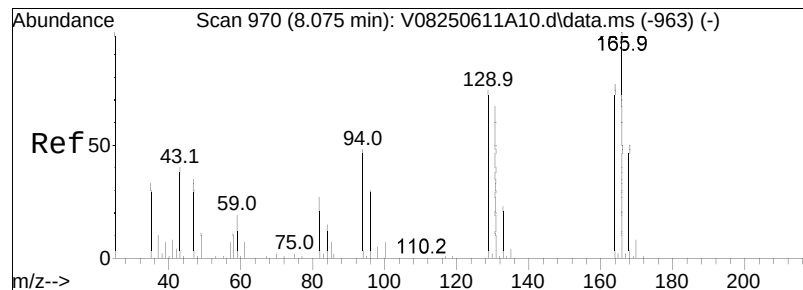




#62
 4-Methyl-2-pentanone
 Concen: 11.49 ug/L
 RT: 8.068 min Scan# 969
 Delta R.T. 0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

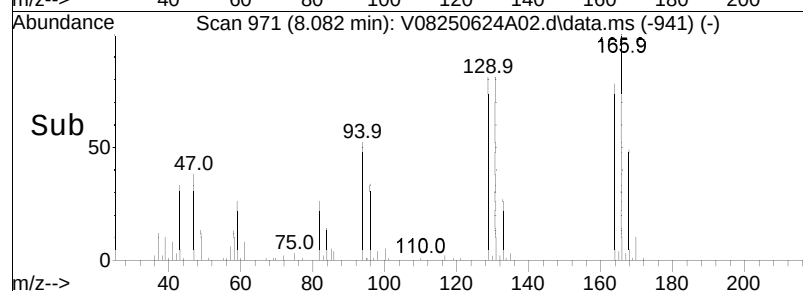
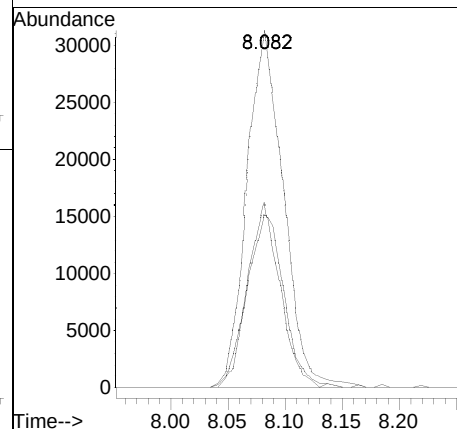
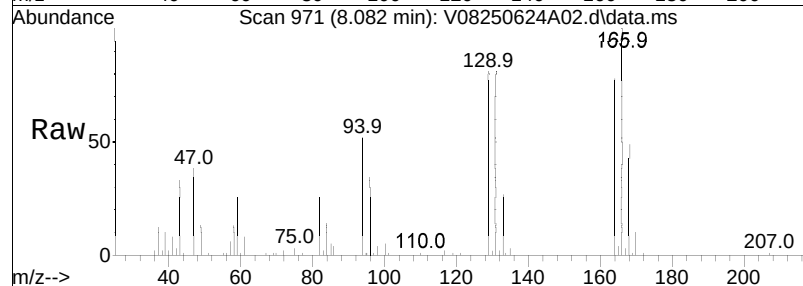
Tgt Ion:	58	Resp:	14433
Ion Ratio	Lower	Upper	
58	100		
100	43.1	33.6	50.4
43	308.8	271.0	406.6

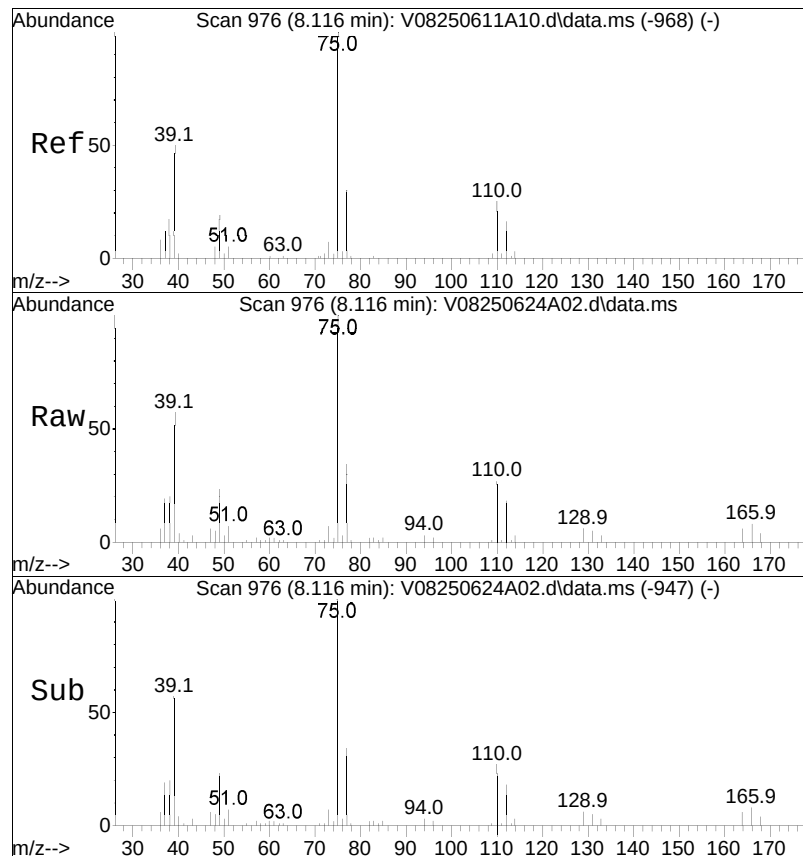




#63
 Tetrachloroethene
 Concen: 9.63 ug/L
 RT: 8.082 min Scan# 971
 Delta R.T. 0.007 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

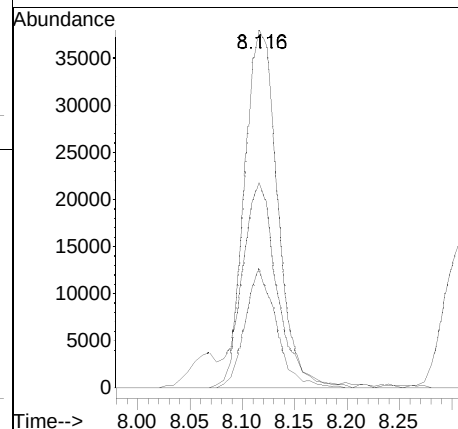
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	69449		
168	48.6		26.2	66.2
94	47.2		23.6	63.6

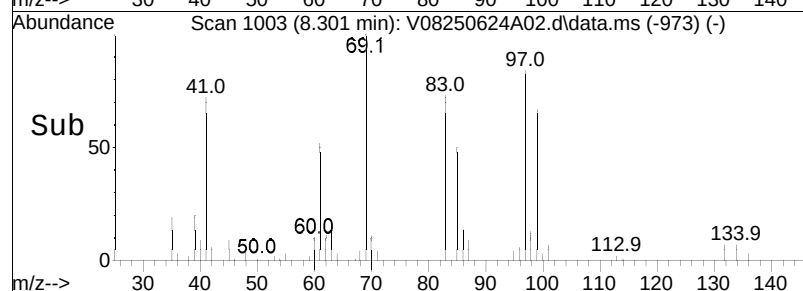
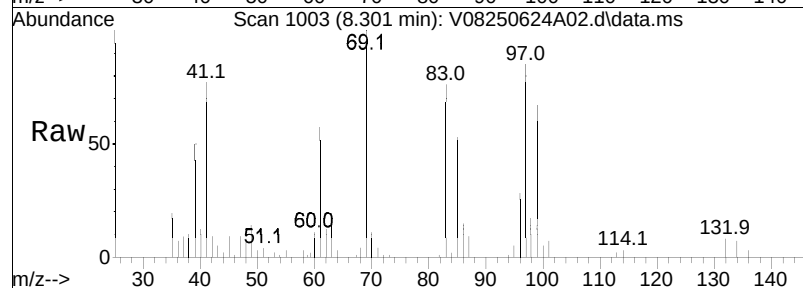
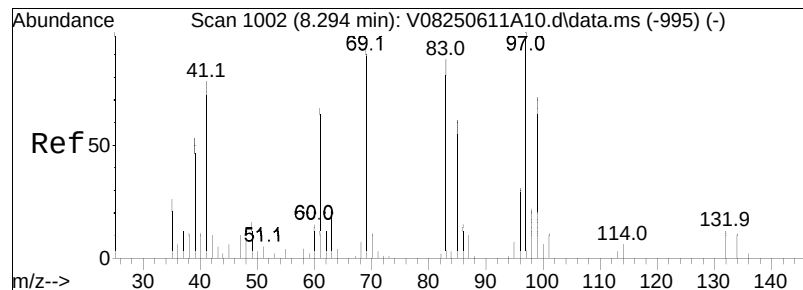




#65
 trans-1,3-Dichloropropene
 Concen: 11.03 ug/L
 RT: 8.116 min Scan# 976
 Delta R.T. 0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

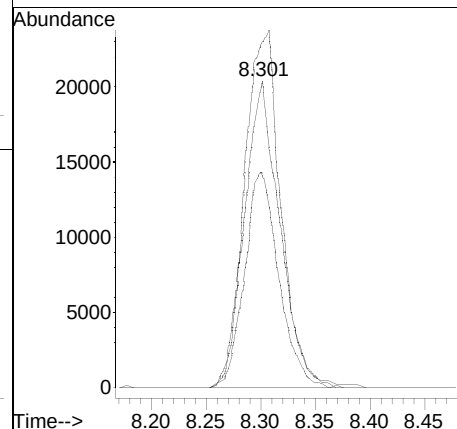
Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.4	9.8	49.8
39	60.9	45.2	85.2

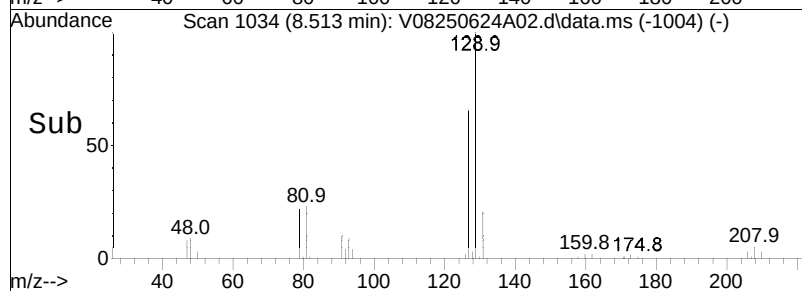
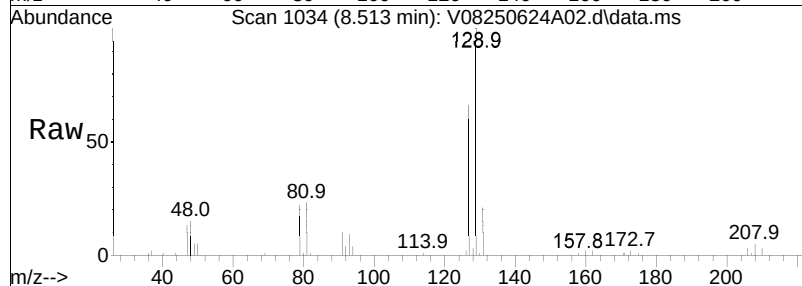
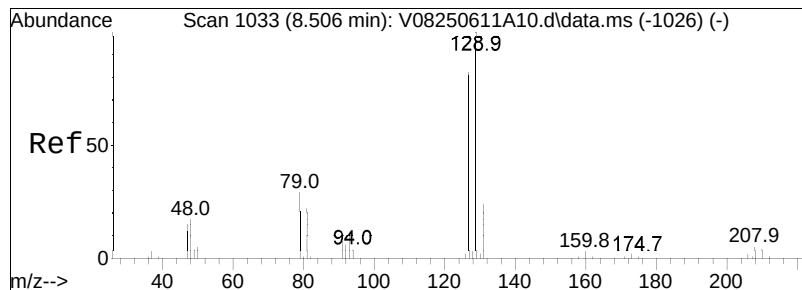




#68
 1,1,2-Trichloroethane
 Concen: 10.62 ug/L
 RT: 8.301 min Scan# 1003
 Delta R.T. 0.007 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

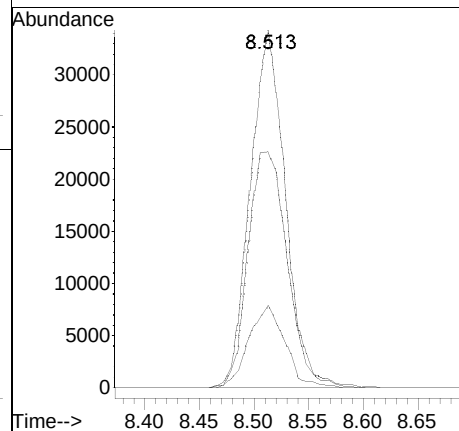
Tgt Ion:	83	Resp:	45798
Ion Ratio	Lower	Upper	
83	100		
97	118.6	98.2	138.2
85	68.0	49.9	89.9

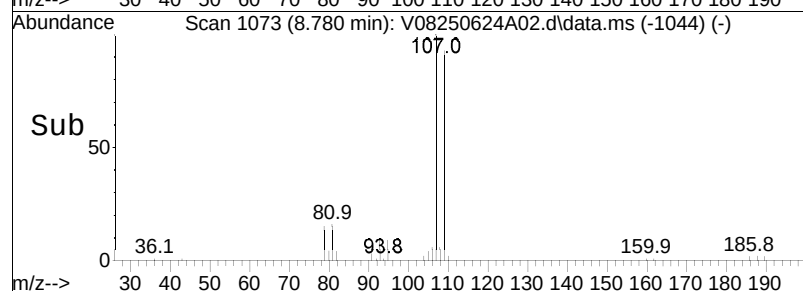
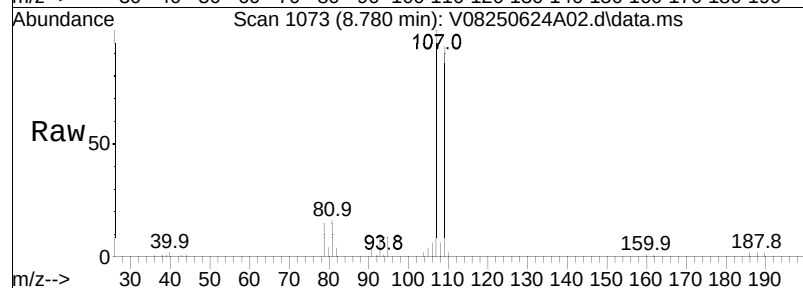
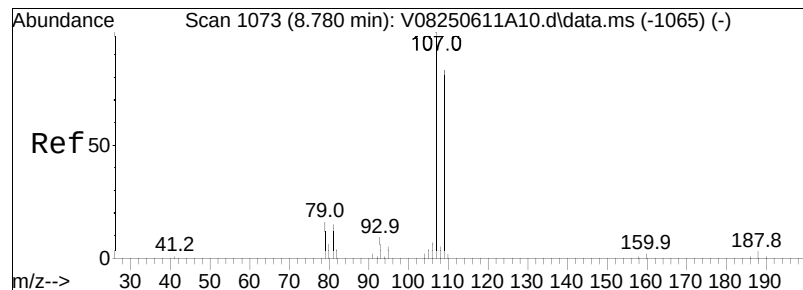




#69
 Chlorodibromomethane
 Concen: 10.65 ug/L
 RT: 8.513 min Scan# 1034
 Delta R.T. 0.007 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

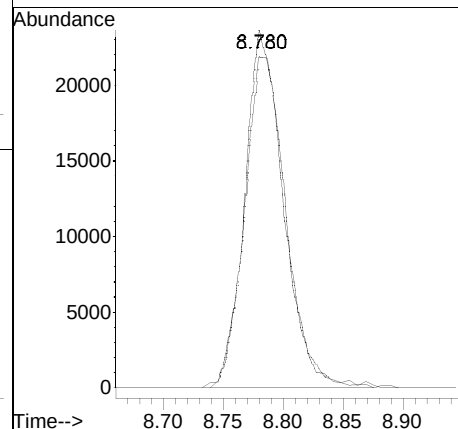
Tgt Ion	Ratio	Lower	Upper
129	100		
81	24.1	3.3	43.3
127	73.7	58.2	98.2

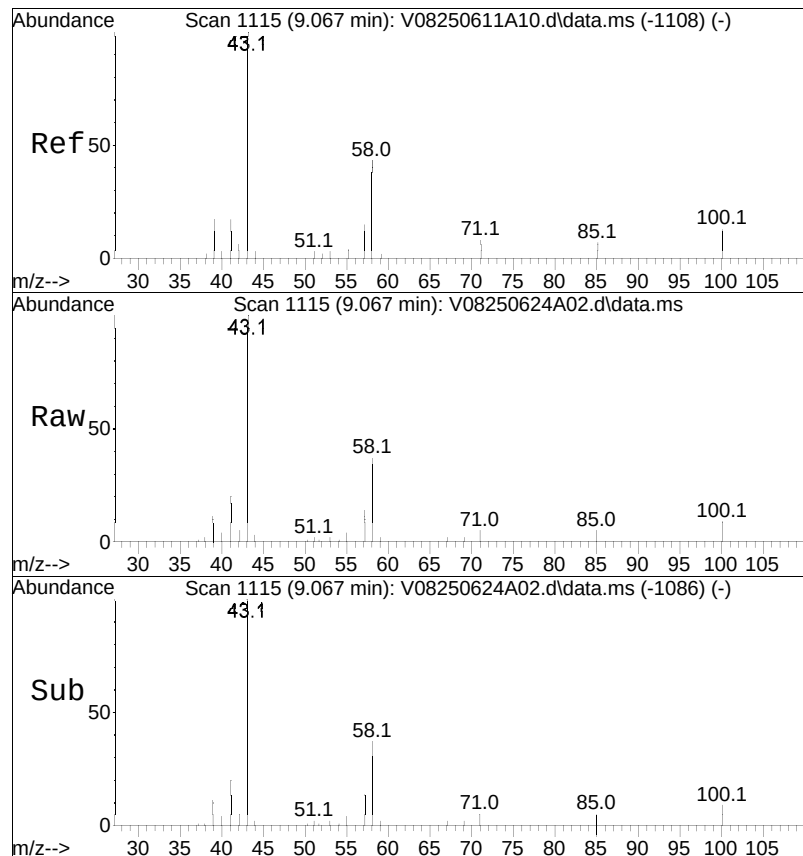




#71
 1,2-Dibromoethane
 Concen: 11.31 ug/L
 RT: 8.780 min Scan# 1073
 Delta R.T. -0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

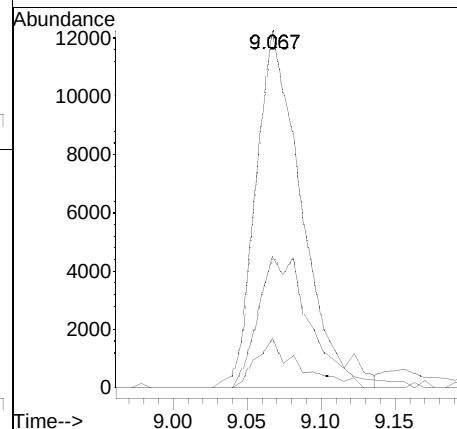
Tgt Ion	Ratio	Lower	Upper
107	100		
109	97.5	73.0	109.4

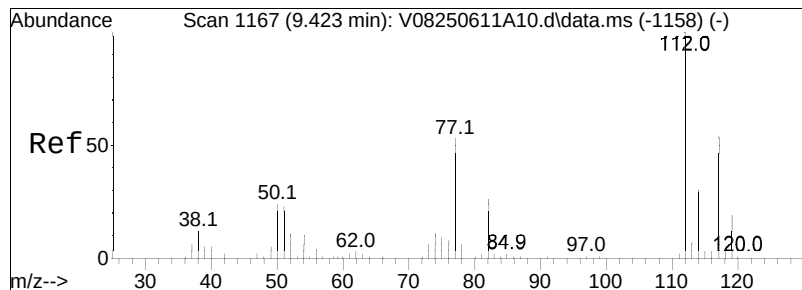




#72
 2-Hexanone
 Concen: 10.01 ug/L
 RT: 9.067 min Scan# 1115
 Delta R.T. 0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

Tgt Ion:	43	58	57	Ratio	100	42.7	13.1	Resp:	26372	Lower	Upper
43	100										
58		42.7			33.5	50.3					
57			13.1		12.6	18.8					





#73

Chlorobenzene

Concen: 9.80 ug/L

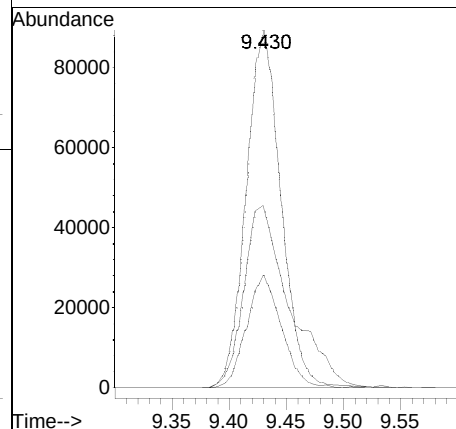
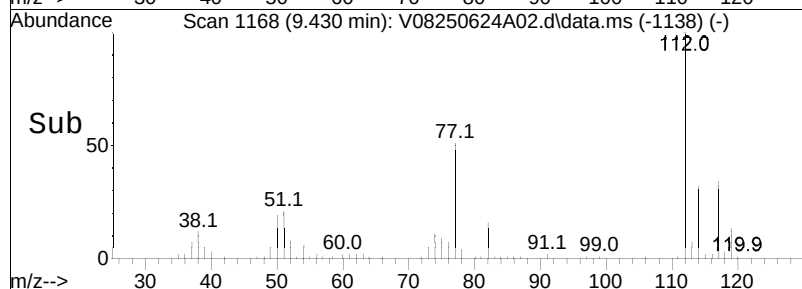
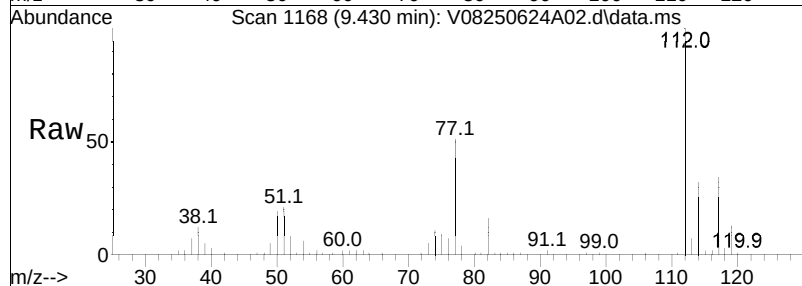
RT: 9.430 min Scan# 1168

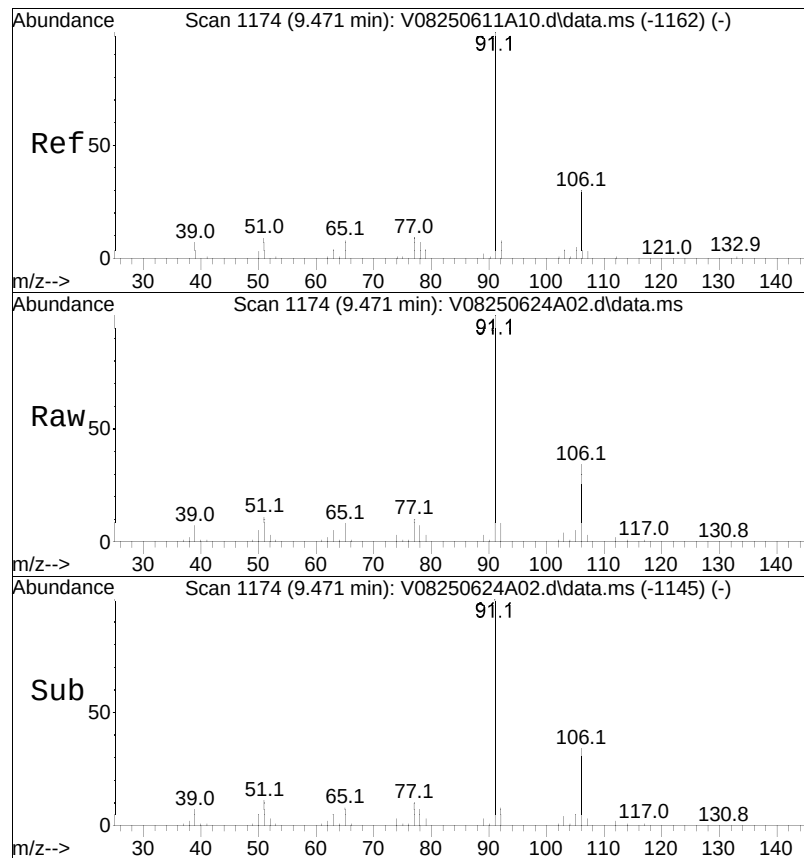
Delta R.T. 0.007 min

Lab File: V08250624A02.d

Acq: 24 Jun 2025 7:59 am

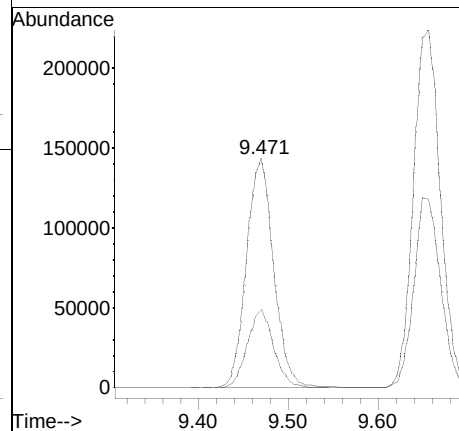
Tgt	Ion:112	Resp:	187702
Ion	Ratio	Lower	Upper
112	100		
77	67.1	55.3	82.9
114	31.7	25.4	38.2

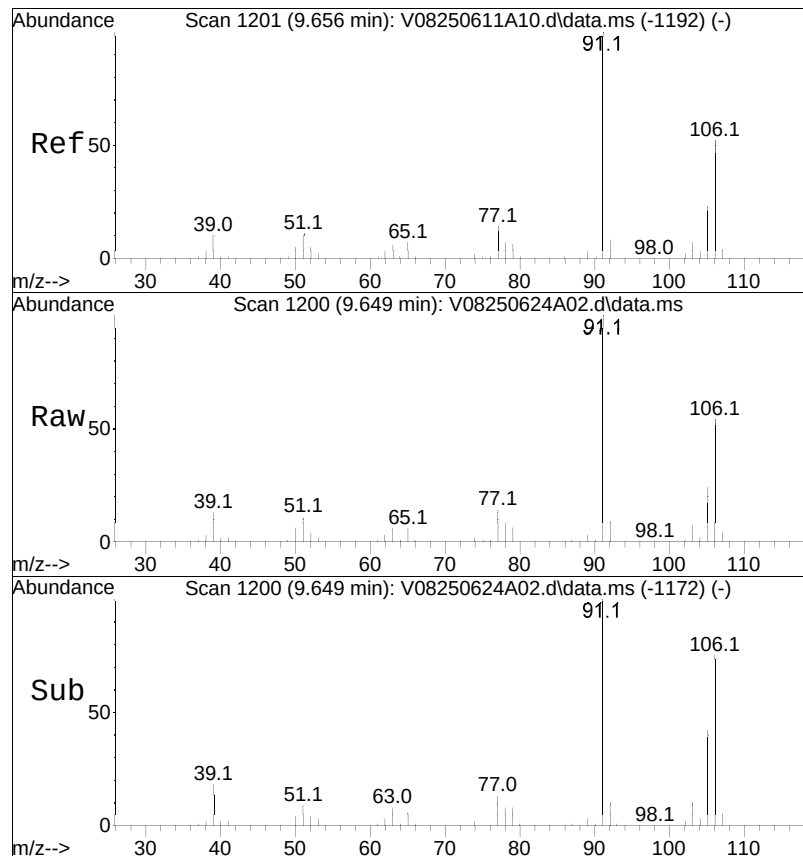




#74
 Ethylbenzene
 Concen: 9.87 ug/L
 RT: 9.471 min Scan# 1174
 Delta R.T. 0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

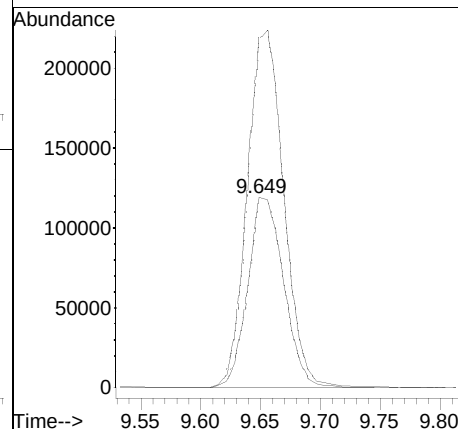
Tgt	Ion	Resp	303419
91	100	Lower	Upper
106	32.9	25.4	38.0

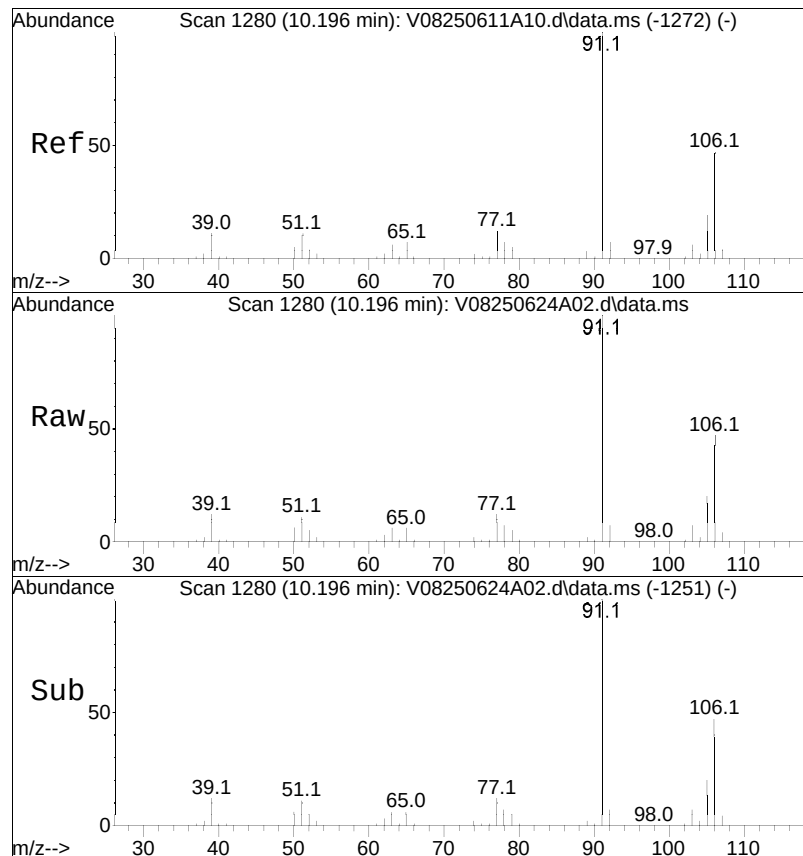




#76
 p/m Xylene
 Concen: 18.39 ug/L
 RT: 9.649 min Scan# 1200
 Delta R.T. -0.007 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

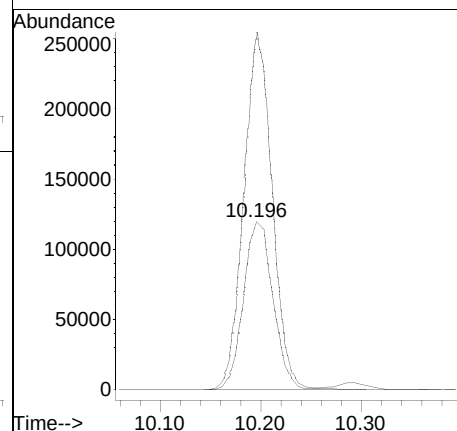
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	189.1	155.4	233.2	

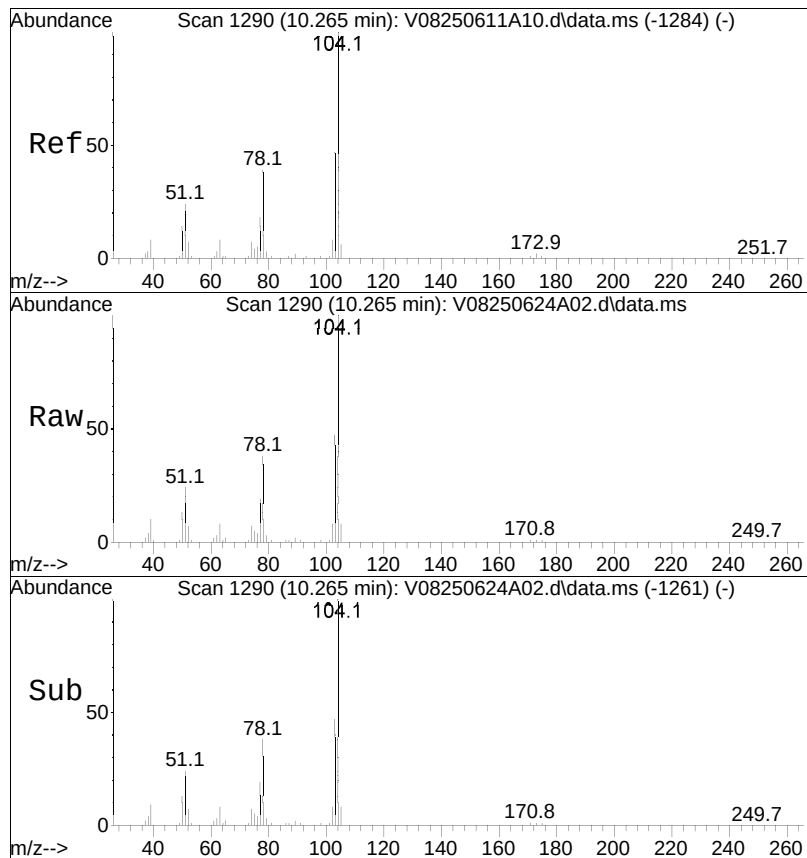




#77
 o Xylene
 Concen: 18.42 ug/L
 RT: 10.196 min Scan# 1280
 Delta R.T. 0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

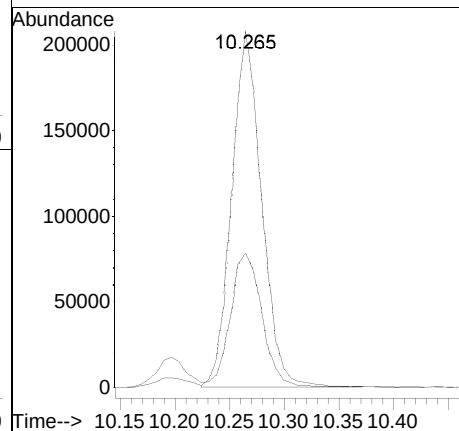
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	201.7	167.4	251.0	

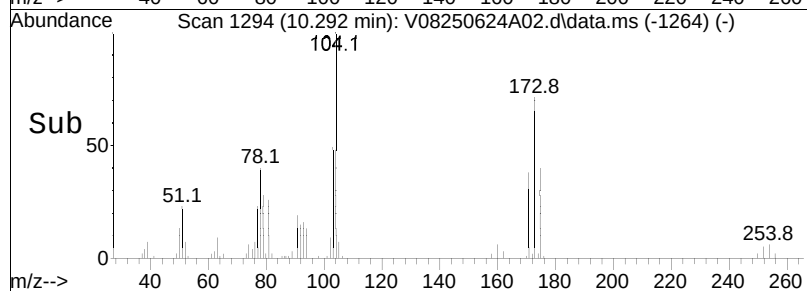
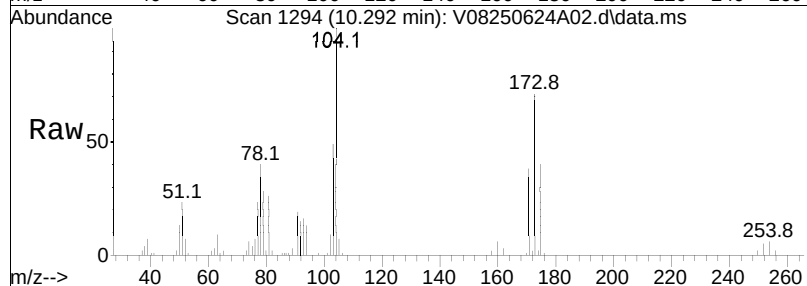
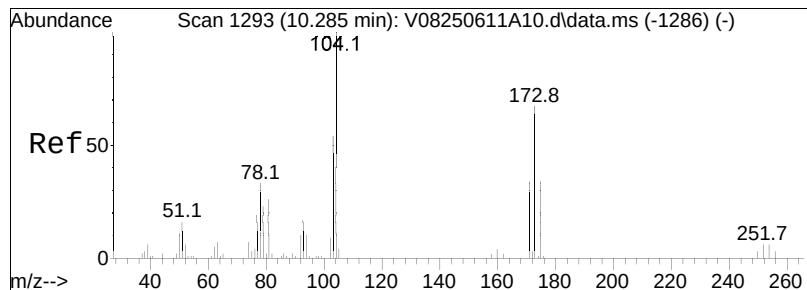




#78
 Styrene
 Concen: 16.58 ug/L
 RT: 10.265 min Scan# 1290
 Delta R.T. -0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

Tgt	Ion	Ratio	Lower	Upper
104	100			
78	39.9	31.9	47.9	





#80

Bromoform

Concen: 9.15 ug/L

RT: 10.292 min Scan# 1294

Delta R.T. 0.007 min

Lab File: V08250624A02.d

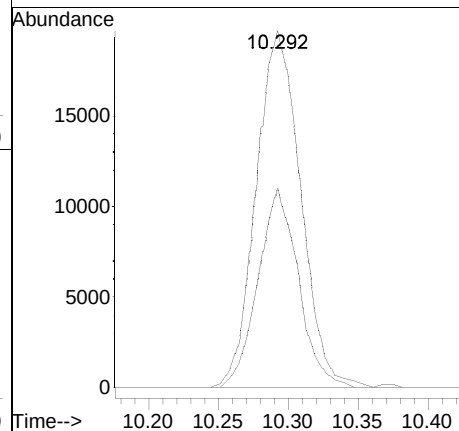
Acq: 24 Jun 2025 7:59 am

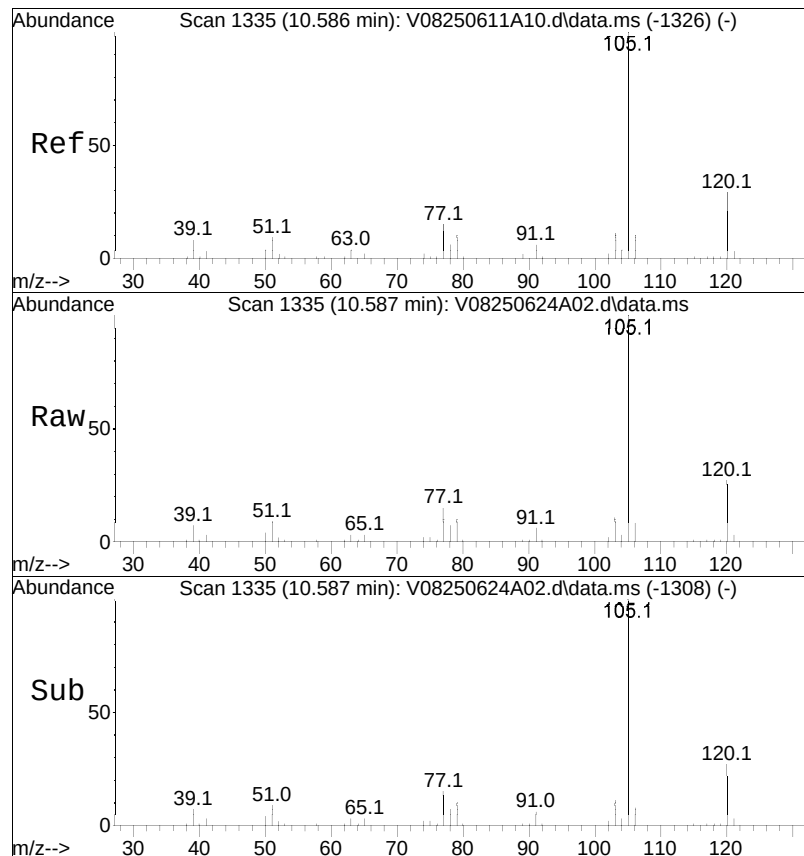
Tgt Ion:173 Resp: 43339

Ion Ratio Lower Upper

173 100

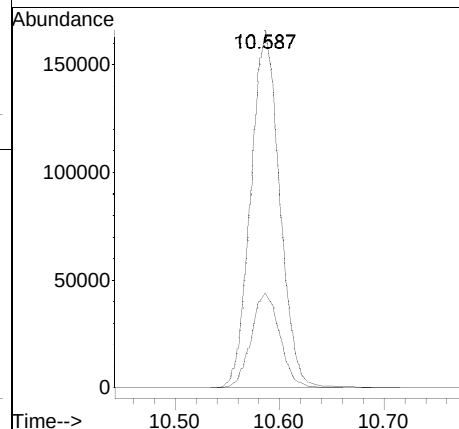
175 50.6 27.4 67.4

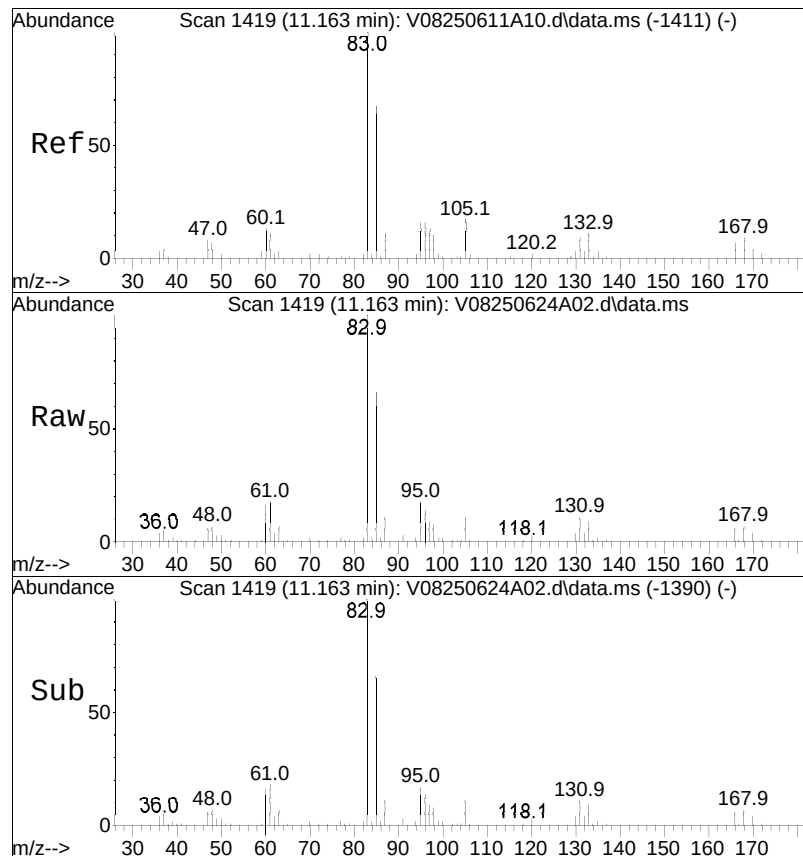




#82
 Isopropylbenzene
 Concen: 9.56 ug/L
 RT: 10.587 min Scan# 1335
 Delta R.T. 0.001 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

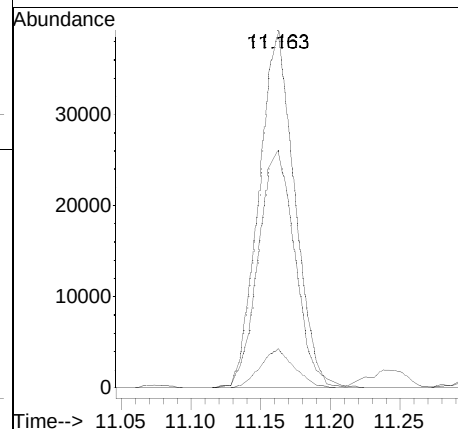
Tgt Ion	105	120	Ratio	Lower	Upper
105	100				
120	26.5		7.3		47.3

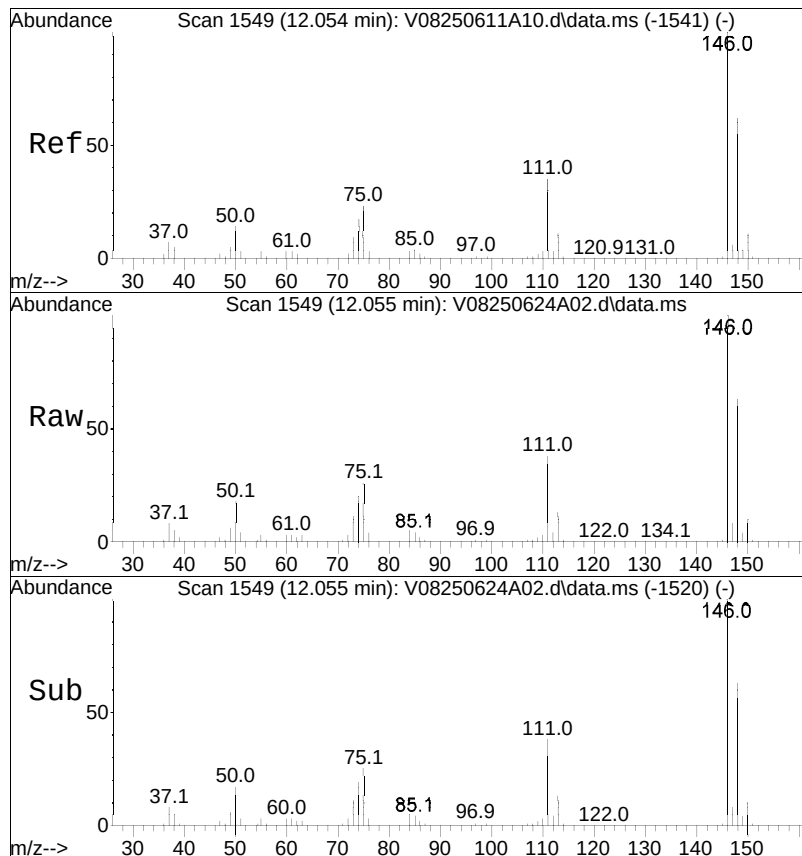




#87
 1,1,2,2-Tetrachloroethane
 Concen: 11.08 ug/L
 RT: 11.163 min Scan# 1419
 Delta R.T. -0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

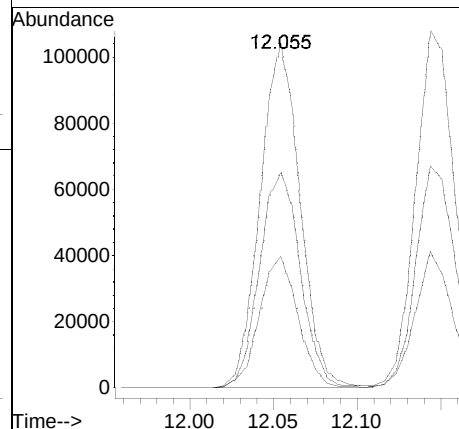
Tgt Ion	Ratio	Lower	Upper
83	100		
131	10.6	0.0	29.6
85	68.9	49.7	89.7

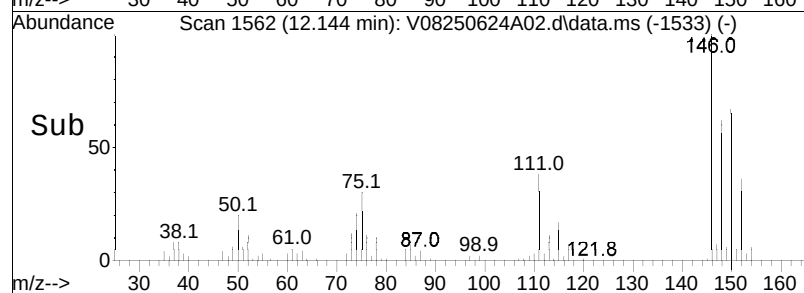
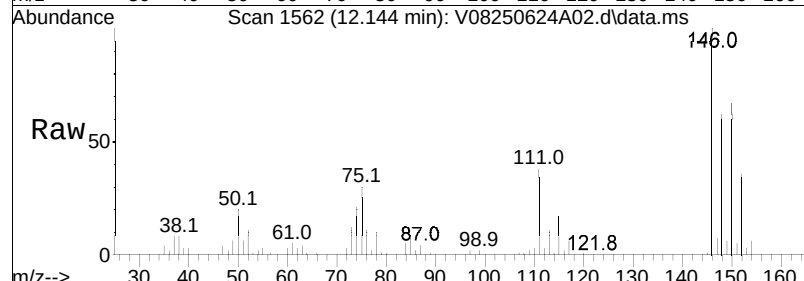
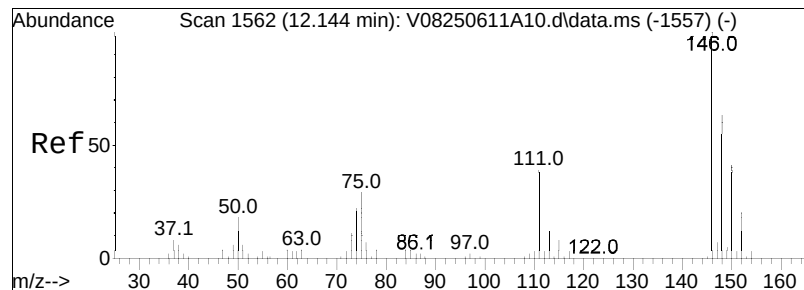




#100
 1,3-Dichlorobenzene
 Concen: 9.41 ug/L
 RT: 12.055 min Scan# 1549
 Delta R.T. 0.001 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

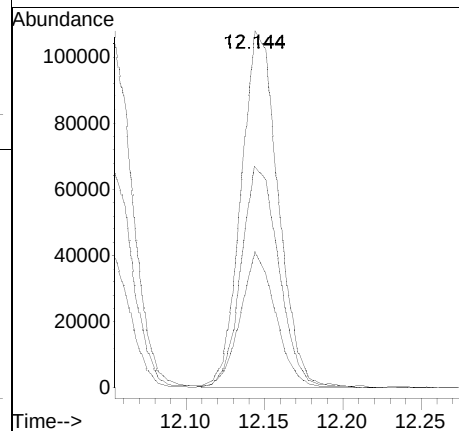
Tgt Ion:	146	Resp:	172946
Ion Ratio	Lower	Upper	
146	100		
111	37.1	24.4	50.6
148	64.0	41.0	85.2

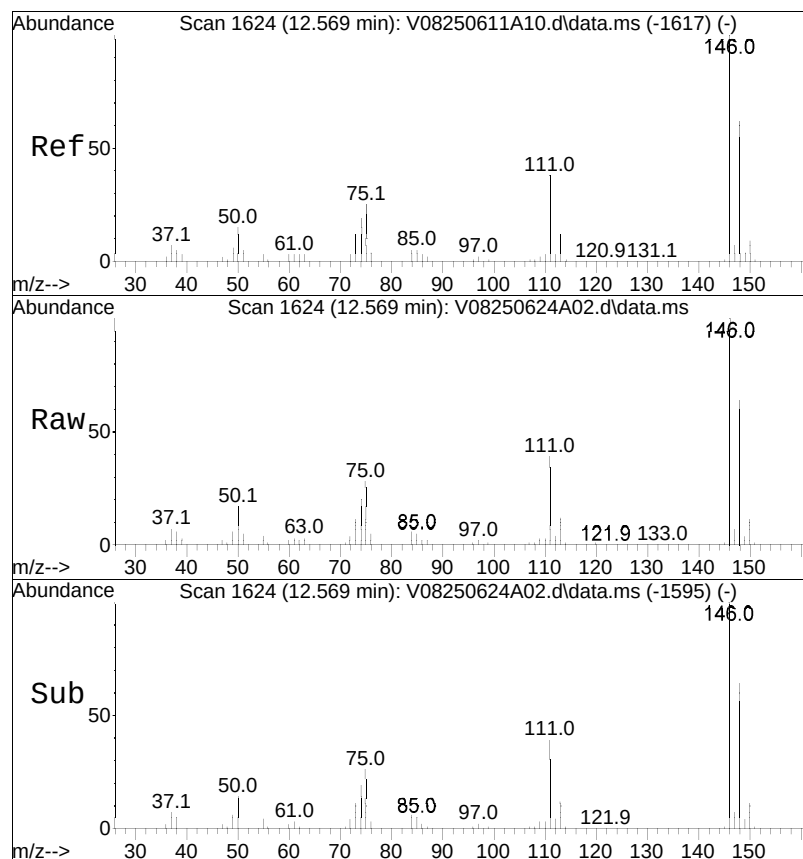




#101
 1,4-Dichlorobenzene
 Concen: 9.54 ug/L
 RT: 12.144 min Scan# 1562
 Delta R.T. -0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

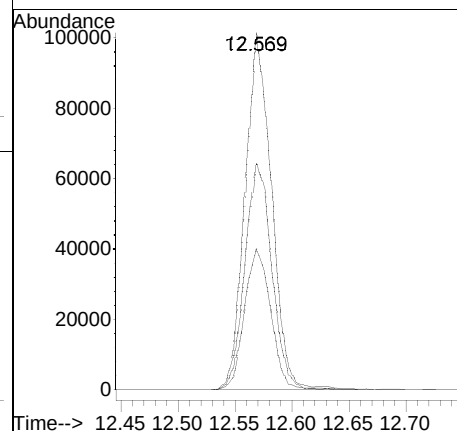
Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.7	29.8	44.6
148	63.2	50.9	76.3

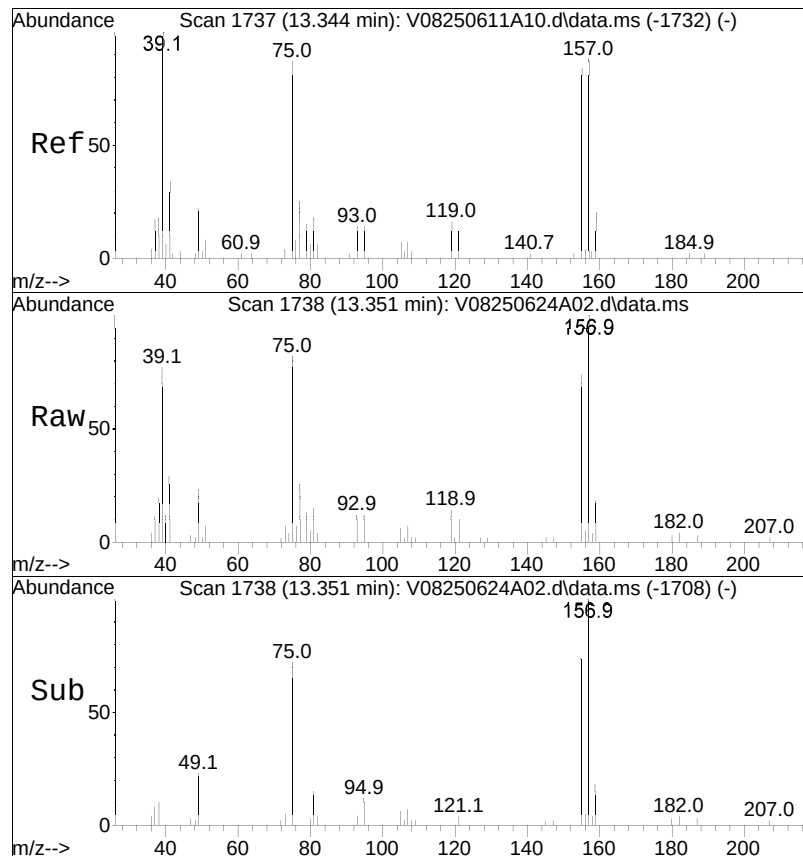




#104
 1,2-Dichlorobenzene
 Concen: 9.61 ug/L
 RT: 12.569 min Scan# 1624
 Delta R.T. 0.000 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

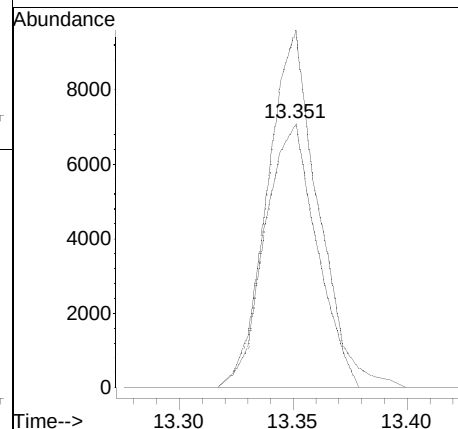
Tgt Ion:	146	Resp:	162207
Ion Ratio	Lower	Upper	
146	100		
111	39.3	25.0	51.8
148	64.6	40.0	83.2

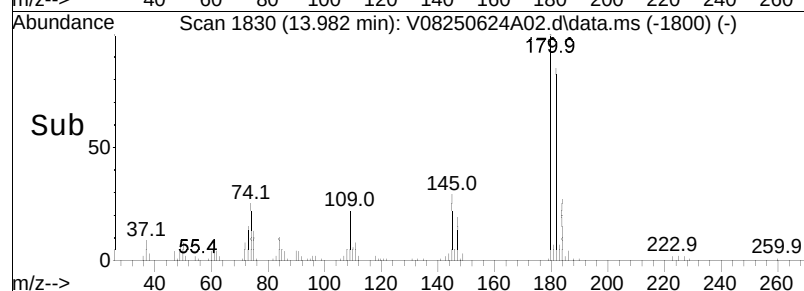
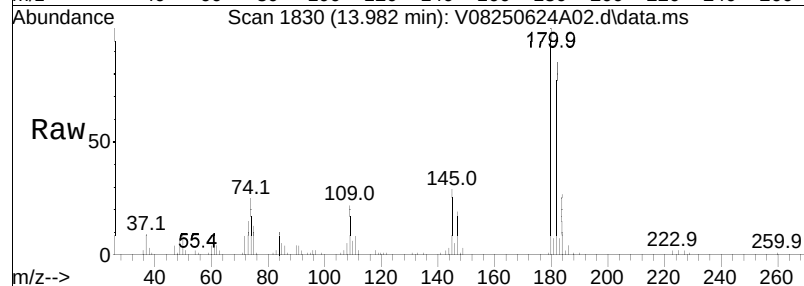
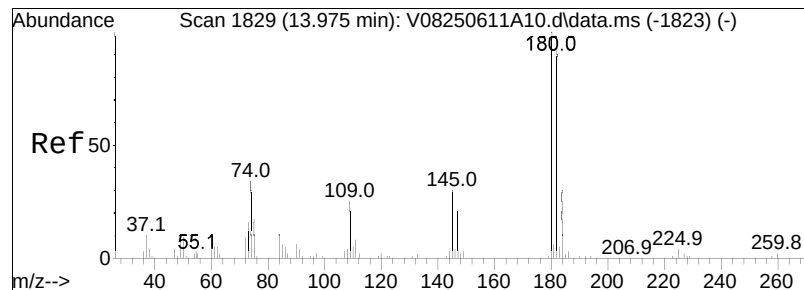




#106
 1,2-Dibromo-3-chloropropane
 Concen: 11.27 ug/L
 RT: 13.351 min Scan# 1738
 Delta R.T. 0.007 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

Tgt Ion	Ratio	Lower	Upper
155	100		
157	132.0	97.9	146.9





#109

1,2,4-Trichlorobenzene

Concen: 9.31 ug/L

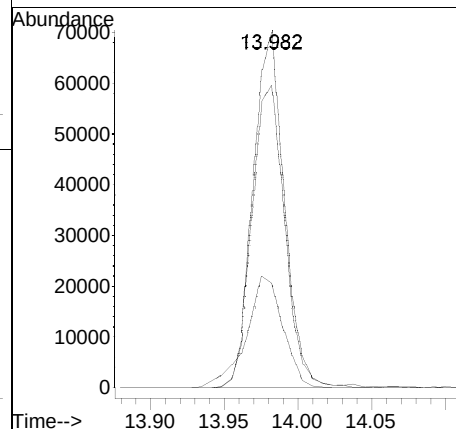
RT: 13.982 min Scan# 1830

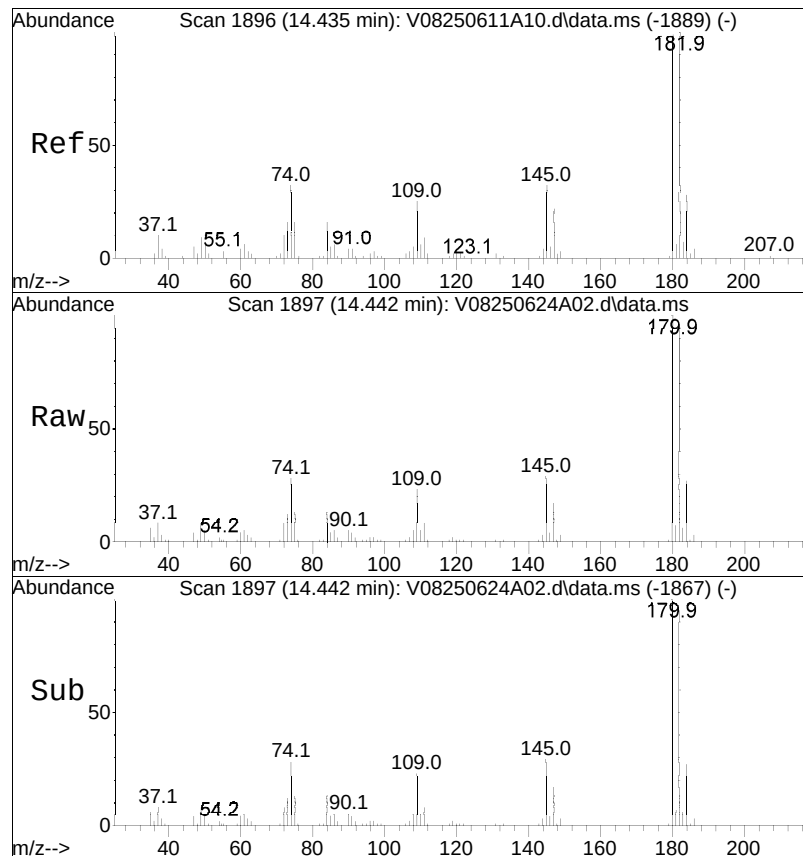
Delta R.T. 0.007 min

Lab File: V08250624A02.d

Acq: 24 Jun 2025 7:59 am

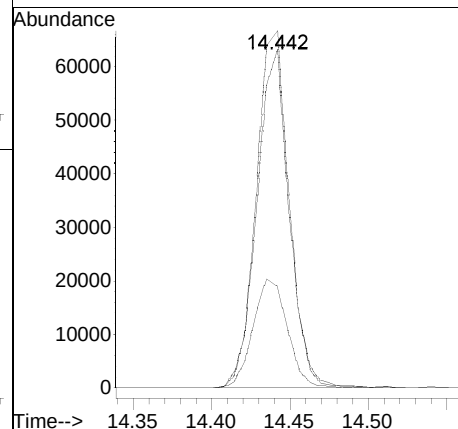
Tgt	Ion:180	Resp:	103191
Ion	Ratio	Lower	Upper
180	100		
182	89.0	74.1	111.1
145	36.8	27.8	41.8





#111
 1,2,3-Trichlorobenzene
 Concen: 9.77 ug/L
 RT: 14.442 min Scan# 1897
 Delta R.T. 0.007 min
 Lab File: V08250624A02.d
 Acq: 24 Jun 2025 7:59 am

Tgt Ion:	180	Resp:	97176
Ion Ratio	Lower	Upper	
180	100		
182	93.6	76.1	114.1
145	32.1	25.9	38.9



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)

Jul 02 2025, 09:32 am

Work Group: WG2083406 for Department: 31 GC/MS - Volatiles

Created: 25-JUN-25 Due: Operator: AJK

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2537605-01	WC-MWDRUM05_061625	S NYTCL-8260	WATER	DONE	U	0630	0625	S0	Vial-B
L2537655-01	MW-11S	S NYTCL-8260	WATER	DONE	U	0630	0625	S0	Vial-B
L2537655-02	MW-11D	S NYTCL-8260	WATER	DONE	U	0630	0625	S0	Vial-B
L2537655-03	EQUIPMENT BLANK	S NYTCL-8260	WATER	DONE	U	0630	0625	S0	Vial-B
L2537655-04	MW-1DRZ	S NYTCL-8260	WATER	DONE	U	0630	0625	S0	Vial-B
L2537655-05	MW-1SR	S NYTCL-8260	WATER	DONE	U	0630	0625	S0	Vial-B
L2538431-04	WCSOFB01_061825	S NYTCL-8260	WATER	DONE	U	0702	0625	S0	Vial-B
L2538431-05	WCSOTB01_061825	S NYTCL-8260	WATER	DONE	U	0702	0625	S0	Vial-B
L2538558-01	DRF3.TMW-04.20250618	S NYTCL-8260	WATER	DONE	U	0702	0625	1D	Vial-B
L2538558-02	TB01_061825	S NYTCL-8260	WATER	DONE	U	0702	0625	1D	Vial-B
L2538558-03	DRF3.TMW-06.20250618	S NYTCL-8260	WATER	DONE	U	0702	0625	1D	Vial-B
L2538558-04	DRF3.TMW-07.20250618	S NYTCL-8260	WATER	DONE	U	0702	0625	1D	Vial-B
WG2083406-1	MS BFB Tune Standard	S NYTCL-8260	WATER	DONE	U				
WG2083406-2	Continuing Calibrati	S NYTCL-8260	WATER	DONE	U				
WG2083406-3	Laboratory Control S	S NYTCL-8260	WATER	DONE	U				
WG2083406-4	LCS Duplicate	S NYTCL-8260	WATER	DONE	U				
WG2083406-5	Laboratory Method Bl	S NYTCL-8260	WATER	DONE	U				
Comments:									
WG2083406-4	WG2083406-3								

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Jul 02 2025, 09:32 am

Work Group: WG2083759 for Department: 31 GC/MS - Volatiles

Created: 26-JUN-25 Due: Operator: kab

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2537655-06	TRIP BLANK	S NYTCL-8260	WATER	DONE	U	0630	0702	S0	Vial-B
L2538013-01	MW-13S	S NYTCL-8260	WATER	DONE	U	0701	0625	S0	Vial-B
L2538013-02	MW-13D	S NYTCL-8260	WATER	DONE	U	0701	0625	S0	Vial-B
L2538013-03	DUP_06172025	S NYTCL-8260	WATER	DONE	U	0701	0625	S0	Vial-B
L2538013-04	MP-1S	S NYTCL-8260	WATER	DONE	U	0701	0625	S0	Vial-B
L2538013-05	MP-1D	S NYTCL-8260	WATER	DONE	U	0701	0625	S0	Vial-B
L2538013-06	PZ-6	S NYTCL-8260	WATER	DONE	U	0701	0625	S0	Vial-B
L2538013-07	MW-6D	S NYTCL-8260	WATER	DONE	U	0701	0625	S0	Vial-B
L2538013-08	TRIP BLANK	S NYTCL-8260	WATER	DONE	U	0701	0702	S0	Vial-B
WG2083759-1	MS BFB Tune Standard	S NYTCL-8260	WATER	DONE	U				
WG2083759-2	Continuing Calibrati	S NYTCL-8260	WATER	DONE	U				
WG2083759-3	Laboratory Control S	S NYTCL-8260	WATER	DONE	U				
WG2083759-4	LCS Duplicate	S NYTCL-8260	WATER	DONE	U				
WG2083759-5	Laboratory Method Bl	S NYTCL-8260	WATER	DONE	U				
WG2083759-6	Matrix Spike	S NYTCL-8260	WATER	DONE	U				
WG2083759-7	Matrix Spike Duplica	S NYTCL-8260	WATER	DONE	U				
Comments:									
WG2083759-4	WG2083759-3								
WG2083759-6	L2538013-01								
WG2083759-7	L2538013-01								

Method

GC: 8260

Autosampler: 8260wate

Concentrator: 8260



Inst: VOA105

BFB: V11220

Initials: PID

IS/SS: V11213

Date: 06/06/25

ICAL: V11214C,V11225

Run: A

ICV: V11180, V11196, V11199, V11217, V11216, V11197

QC: _____ Seq: _____

Vial	Data File	Sample	
1	V05250606ABF1	BFB TUNE	14:16
1	V05250606A01	BLK	
2	V05250606A02	BLK	
3	V05250606A03	I8260STD0.19PPB	
4	V05250606A04	I8260STD0.5PPB	
5	V05250606A05	I8260STD0.5PPB	
6	V05250606A06	I8260STD2.0PPB	
7	V05250606A07	I8260STD2.0PPB	
8	V05250606A08	I8260STD10PPB	
9	V05250606A09	I8260STD30PPB	
10	V05250606A10	I8260STD80PPB	
11	V05250606A11	I8260STD120PPB	
12	V05250606A12	I8260STD200PPB	
13	V05250606A13	BLK	
14	V05250606A14	BLK	
15	V05250606A15	BLK	
16	V05250606A16	BLK	
17	V05250606A17	C8260STD10PPB	
18	V05250606A18	C8260STD10PPB	
19	V05250606A19	BLK	
20	V05250606A20	BLK	
21	V05250606A21	MDL METHOD BLK	
22	V05250606A22	MDL L11	
23	V05250606A23	MDL L11	
24	V05250606A24	MDL L1	
25	V05250606A25	MDL L1	
26	V05250606A26	MDL L2	
27	V05250606A27	MDL L2	
28	V05250606A28	BLK	

Inst: VOA108 BFB: V11220 Method GC: 8260-ATOMX
Initials: TMS IS/SS: V11228 Autosampler: 8260
Date 06/11/25 ICAL: V11214D,V11236 Concentrator: 8260
Run A ICV: V11237,V11196,V11199,V11217,V11216,V11197 QC: _____ Seq: _____



			pH<2
Vial	DATA FILE	SAMPLE	
1	V08250611ABF1	BFB TUNE	
1	V08250611A01	BLK	
2	V08250611A02	BLK	
3	V08250611A03	BLK	
4	V08250611A04	I8260STD0.19PPB	
5	V08250611A05	I8260STD0.19PPB	
6	V08250611A06	I8260STD0.5PPB	
7	V08250611A07	I8260STD0.5PPB	
8	V08250611A08	I8260STD2PPB	
9	V08250611A09	I8260STD2PPB	
10	V08250611A10	I8260STD10PPB	
11	V08250611A11	I8260STD30PPB	
12	V08250611A12	I8260STD80PPB	
13	V08250611A13	I8260STD120PPB	
14	V08250611A14	I8260STD200PPB	
15	V08250611A15	BLK	
16	V08250611A16	BLK	
17	V08250611A17	BLK	
18	V08250611A18	BLK	
19	V08250611A19	C8260STD10PPB	
20	V08250611A20	C8260STD10PPB	
21	V08250611A21	BLK	

Method

GC: 8260

Autosampler: 8260wate

Concentrator: 8260



Inst: VOA105

BFB: V11220

Initials: MJV

IS/SS: V11263

Date: 06/24/25

ICAL: V11254A,V11257

Run: A

QC: _____ Seq: _____

Vial	Data File	Sample	
1	V05250624ABF1	BFB TUNE 07:20	
1	V05250624A01	8260 CCAL LCS	
2	V05250624A02	8260 CCAL LCSD	
3	V05250624A03	8260 CCAL	
4	V05250624A04	BLK	
5	V05250624A05	METHOD BLK	
6	V05250624A06	I2535886-06d,31,0.00010,10,,c 8260	COMP OOH HS pH>2
7	V05250624A07	I2535886-05d2,31,0.0000050,108260/DCM	COMP OOH HS pH<2
8	V05250624A08	I2535886-02d2,31,0.001,10,,c 8260/DCM	COMP OOH HS pH>2
9	V05250624A09	I2538558-01,31,10,10,,a,r1d NYTCL	pH<2
10	V05250624A10	I2538558-02,31,10,10,,a,r1d NYTCL	TB pH<2
11	V05250624A11	I2538558-03,31,10,10,,a,r1d NYTCL	pH<2
12	V05250624A12	I2538558-04,31,10,10,,a,r1d NYTCL	pH<2
13	V05250624A13	I2538380-03,31,10,10,,a,r1d PA8260/TBA/15	FB pH<2
14	V05250624A14	I2537605-01,31,10.0,10,,a NYCURVE	pH<2
15	V05250624A15	I2537671-01d,31,0.5,10,,a 8260	OILY pH>2
16	V05250624A16	I2537671-02d,31,1.0,10,,a 8260	FOAM pH>2
17	V05250624A17	I2538431-04,31,10,10,,a NYCURVE	FB pH<2
18	V05250624A18	L2538431-05,31,10,10,,a NYCURVE	TB pH<2
19	V05250624A19	I2537653-06,31,10,10,,a 8260	pH<2
20	V05250624A20	I2537655-01,31,10,10,,a NYCURVE	pH<2
21	V05250624A21	I2537655-02,31,10,10,,a NYCURVE	pH<2
22	V05250624A22	I2537655-03,31,10,10,,a NYCURVE	pH<2
23	V05250624A23	I2537655-04,31,10,10,,a NYCURVE	pH<2
24	V05250624A24	I2537655-05,31,10,10,,a NYCURVE	pH<2
25	V05250624A25	I2538529-01d,31,0.05,10,,a 8260/BTEX	pH<2
26	V05250624A26	HBM	
27	V05250624A27	BLK	

Inst: VOA108 BFB: V11220
 Initials: PID IS/SS: V11263
 Date **06/24/25** ICAL: V11254A,V11257
 Run **A**

Method
 GC: 8260-ATOMX
 Autosampler: 8260
 Concentrator: 8260



QC: _____ Seq: _____

Vial	DATA FILE	SAMPLE		pH<2
1	V08250624ABF1	BFB TUNE	07:21	
1	V08250624A01	8260 CCAL	LCS	
2	V08250624A02	8260 CCAL	LCSD	
3	V08250624A03	8260 CCAL		
4	V08250624A04	BLK		
5	V08250624A05	METHOD BLK		
6	V08250624A06	L2536572-13,31,10,10,,B	8260 TB	pH<2
7	V08250624A07	L2538013-01,31,10,10,,A	NYCURVE	pH<2
8	V08250624A08	L2538013-02,31,10,10,,A	NYCURVE	pH<2
9	V08250624A09	L2538013-03,31,10,10,,A	NYCURVE	pH<2
10	V08250624A10	L2538013-04,31,10,10,,A	NYCURVE	pH<2
11	V08250624A11	L2538013-05,31,10,10,,A	NYCURVE	pH<2
12	V08250624A12	L2538013-06,31,10,10,,A	NYCURVE	pH<2
13	V08250624A13	L2538013-07,31,10,10,,A	NYCURVE	pH<2
14	V08250624A14	L2538013-08,31,10,10,,A	NYCURVE TB	pH<2
15	V08250624A15	L2537655-06,31,10,10,,A	NYCURVE TB	pH<2
16	V08250624A16	L2537250-01,31,10,10,,A	8260/10	pH<2
17	V08250624A17	L2537250-02,31,10,10,,A	8260/10	pH<2
18	V08250624A18	L2537250-03,31,10,10,,A	8260/10	pH<2
19	V08250624A19	L2537250-04,31,10,10,,A	8260/10	pH<2
20	V08250624A20	L2537250-05,31,10,10,,A	8260/10	pH<2
21	V08250624A21	L2537250-06,31,10,10,,A	8260/10	pH<2
22	V08250624A22	L2537250-07,31,10,10,,A	8260/10	pH<2
23	V08250624A23	L2537250-08,31,10,10,,A	8260/10	pH<2
24	V08250624A24	L2537250-09,31,10,10,,A	8260/10 TB	pH<2
25	V08250624A25	L2537412-01,31,10,10,,A	8260	pH<2
26	V08250624A26	L2538013-01MS,31,10,10,,A1	NYCURVE	pH<2
27	V08250624A27	L2538013-01MSD,31,10,10,,A2	NYCURVE	pH<2
28	V08250624A28	BLK		

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Surrogate Recovery Summary

Form 2

Semivolatiles

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

Lab Number: L2537655
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-11S (L2537655-01)	43	32	73	78	92	86	0
MW-11D (L2537655-02)	50	33	80	85	95	94	0
EQUIPMENT BLANK (L2537655-03)	32	23	56	65	75	69	0
MW-1DRZ (L2537655-04)	39	29	64	73	91	78	0
MW-1SR (L2537655-05)	38	34	59	66	79	75	0
WG2080671-1BLANK	43	30	73	70	58	70	0
WG2080671-2LCS	48	40	87	61	82	75	0
WG2080671-3LCSD	41	33	59	62	79	86	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-RVT



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2537655
 Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG2080671-2 Analysis Date : 06/19/25 09:57 File ID : 080671-2
 LCSD Sample ID : WG2080671-3 Analysis Date : 06/19/25 10:20 File ID : 080671-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
3,3'-Dichlorobenzidine	20	11.	56	20	11.	57	2	40-140	30
2,4-Dinitrotoluene	20	17.	85	20	17.	87	2	48-143	30
2,6-Dinitrotoluene	20	14.	70	20	16.	82	16	40-140	30
4-Chlorophenyl phenyl ether	20	15.	76	20	14.	68	11	40-140	30
4-Bromophenyl phenyl ether	20	14.	72	20	14.	69	4	40-140	30
Bis(2-chloroisopropyl)ether	20	14.	68	20	9.0	45	41 Q	40-140	30
Bis(2-chloroethoxy)methane	20	15.	73	20	9.8	49	39 Q	40-140	30
Hexachlorocyclopentadiene	20	9.0	45	20	8.2	41	9	40-140	30
Isophorone	20	15.	77	20	11.	55	33 Q	40-140	30
Nitrobenzene	20	16.	80	20	11.	54	39 Q	40-140	30
NDPA/DPA	20	15.	74	20	15.	74	0	40-140	30
n-Nitrosodi-n-propylamine	20	15.	76	20	11.	56	30	29-132	30
Bis(2-ethylhexyl)phthalate	20	14.	71	20	16.	80	12	40-140	30
Butyl benzyl phthalate	20	16.	80	20	19.	94	16	40-140	30
Di-n-butylphthalate	20	14.	72	20	16.	79	9	40-140	30
Di-n-octylphthalate	20	14.	72	20	16.	80	11	40-140	30
Diethyl phthalate	20	16.	78	20	16.	79	1	40-140	30
Dimethyl phthalate	20	12.	60	20	14.	71	17	40-140	30
Biphenyl	20	12.	61	20	13.	63	3	40-140	30
4-Chloroaniline	20	6.1	30 Q	20	4.9	24 Q	22	40-140	30
2-Nitroaniline	20	14.	72	20	17.	83	14	52-143	30
3-Nitroaniline	20	13.	64	20	12.	62	3	25-145	30
4-Nitroaniline	20	18.	89	20	18.	90	1	51-143	30
Dibenzofuran	20	14.	70	20	13.	64	9	40-140	30
1,2,4,5-Tetrachlorobenzene	20	12.	59	20	11.	56	5	2-134	30
Acetophenone	20	15.	76	20	12.	59	25	39-129	30



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2537655
 Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG2080671-2 Analysis Date : 06/19/25 09:57 File ID : 080671-2
 LCSD Sample ID : WG2080671-3 Analysis Date : 06/19/25 10:20 File ID : 080671-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
2,4,6-Trichlorophenol	20	12.	60	20	12.	62	3	30-130	30
p-Chloro-m-cresol	20	12.	59	20	11.	55	7	23-97	30
2-Chlorophenol	20	14.	71	20	10.	52	31 Q	27-123	30
2,4-Dichlorophenol	20	14.	69	20	11.	55	23	30-130	30
2,4-Dimethylphenol	20	13.	66	20	8.2	41	47 Q	30-130	30
2-Nitrophenol	20	18.	91	20	12.	62	38 Q	30-130	30
4-Nitrophenol	20	12.	59	20	12.	61	3	10-80	30
2,4-Dinitrophenol	20	13.	64	20	15.	74	14	20-130	30
4,6-Dinitro-o-cresol	20	16.	79	20	16.	82	4	20-164	30
Phenol	20	8.0	40	20	7.0	35	13	12-110	30
2-Methylphenol	20	10.	52	20	7.0	35	39 Q	30-130	30
3-Methylphenol/4-Methylphenol	20	12.	60	20	9.1	45	29	30-130	30
2,4,5-Trichlorophenol	20	13.	67	20	15.	74	10	30-130	30
Carbazole	20	15.	76	20	16.	79	4	55-144	30
Atrazine	20	16.	82	20	17.	86	5	40-140	30
Benzaldehyde	20	15.	73	20	12.	62	16	40-140	30
Caprolactam	20	5.7	28	20	5.0	25	11	10-130	30



**Method Blank Summary
Form 4
Semivolatiles**

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab Sample ID	: WG2080671-1	Lab File ID	: 080671-1
Instrument ID	: SV106	Extraction Date	: 06/18/25
Matrix	: WATER	Analysis Date	: 06/19/25 10:44
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2080671-2LCS	WG2080671-2	06/19/25 09:57
WG2080671-3LCSD	WG2080671-3	06/19/25 10:20
MW-11S	L2537655-01	06/19/25 13:26
MW-11D	L2537655-02	06/19/25 13:48
EQUIPMENT BLANK	L2537655-03	06/19/25 14:11
MW-1DRZ	L2537655-04	06/19/25 14:34
MW-1SR	L2537655-05	06/19/25 14:56

Instrument Performance Check (Tune) Summary

Form 5

Semivolatiles

Decafluorotriphenylphosphine (DFTPP)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : SV106	Analysis Date : 03/11/25 16:27
Tune Standard : R1939674-1	Tune File ID : Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	41.5
68	Less than 2.0% of mass 69	0.4 (1.1)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	43.9
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	25.9
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	16.7
442	Base Peak, or >50% of mass 198	74.8
443	15.0 - 24.0% of mass 442	14.9 (20)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	R1939674-12	ABNL9	03/11/25 16:50
ABNL8	R1939674-10	ABNL8	03/11/25 17:14
ABNL7	R1939674-9	ABNL7	03/11/25 17:37
ABNL6	R1939674-8	ABNL6	03/11/25 18:01
ABNL5	R1939674-7	ABNL5	03/11/25 18:24
ABNL4	R1939674-6	ABNL4	03/11/25 18:48
ABNL3	R1939674-5	ABNL3	03/11/25 19:11
ABNL2	R1939674-4	ABNL2	03/11/25 19:34
ABNL1	R1939674-3	ABNL1	03/11/25 19:58
ABN ICV Quant Report	R1939674-30	ABNICV	03/11/25 22:18



Instrument Performance Check (Tune) Summary

Form 5

Semivolatiles

Decafluorotriphenylphosphine (DFTPP)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : SV106	Analysis Date : 03/11/25 23:05
Tune Standard : R1939674-2	Tune File ID : Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	41.4
68	Less than 2.0% of mass 69	0.3 (.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	43.7
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	6.6
275	10.0 - 60.0% of Base Peak	25.6
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	72.8
443	15.0 - 24.0% of mass 442	14.2 (19.6)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
AP9L9	R1939674-29	AP9L9	03/11/25 23:29
AP9L8	R1939674-28	AP9L8	03/11/25 23:52
AP9L7	R1939674-27	AP9L7	03/12/25 00:15
AP9L6	R1939674-26	AP9L6	03/12/25 00:39
AP9L5	R1939674-25	AP9L5	03/12/25 01:02
AP9L4	R1939674-24	AP9L4	03/12/25 01:26
AP9L3	R1939674-22	AP9L3	03/12/25 01:49
AP9L2	R1939674-23	AP9L2	03/12/25 02:12
AP9L1	R1939674-19	AP9L1	03/12/25 02:36
ADPL9	R1939674-20	ADPL9	03/12/25 02:59
ADPL8	R1939674-21	ADPL8	03/12/25 03:23
ADPL7	R1939674-18	ADPL7	03/12/25 03:46
ADPL6	R1939674-16	ADPL6	03/12/25 04:09
ADPL5	R1939674-17	ADPL5	03/12/25 04:33
ADPL4	R1939674-15	ADPL4	03/12/25 04:56
ADPL3	R1939674-14	ADPL3	03/12/25 05:20
ADPL2	R1939674-13	ADPL2	03/12/25 05:43
ADPL1	R1939674-11	ADPL1	03/12/25 06:06
AP9 ICV Quant Report	R1939674-32	AP9ICV	03/12/25 06:30
ADP ICV Quant Report	R1939674-31	ADPICV	03/12/25 06:53



Instrument Performance Check (Tune) Summary

Form 5

Semivolatiles

Decafluorotriphenylphosphine (DFTPP)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : SV106	Analysis Date : 06/19/25 06:35
Tune Standard : WG2080865-1	Tune File ID : DEG0619_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	44.3
68	Less than 2.0% of mass 69	0.7 (1.8)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	43.8
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	6.6
275	10.0 - 60.0% of Base Peak	25
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than 24% of mass 442	17
442	Base Peak, or >50% of mass 198	71.4
443	15.0 - 24.0% of mass 442	13.8 (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
WG2080865-6TFACTOR-B	WG2080865-6	DEG0619	06/19/25 06:35
WG2080865-7TFACTOR-P	WG2080865-7	DEG0619	06/19/25 06:35
WG2080865-3CCAL	WG2080865-3	ABN0619	06/19/25 06:58
WG2080865-4CCAL	WG2080865-4	AP90619	06/19/25 07:22
WG2080865-5CCAL	WG2080865-5	ADP0619	06/19/25 07:45
WG2080671-2LCS	WG2080671-2	080671-2	06/19/25 09:57
WG2080671-3LCSD	WG2080671-3	080671-3	06/19/25 10:20
WG2080671-1BLANK	WG2080671-1	080671-1	06/19/25 10:44



Instrument Performance Check (Tune) Summary

Form 5

Semivolatiles

Decafluorotriphenylphosphine (DFTPP)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : DAKOTA	Analysis Date : 04/16/25 17:04
Tune Standard : R1954658-31	Tune File ID : Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	40.1
68	Less than 2.0% of mass 69	0.5 (1.3)1
69		100
70	Less than 2.0% of mass 69	0.3 (.7)1
127	10.0 - 80.0% of Base Peak	40.8
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	24.7
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	18.3
442	Base Peak, or >50% of mass 198	68.4
443	15.0 - 24.0% of mass 442	12.9 (18.8)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	R1954658-9	ABNL9	04/16/25 17:27
ABNL8	R1954658-8	ABNL8	04/16/25 17:49
ABNL7	R1954658-7	ABNL7	04/16/25 18:12
ABNL6	R1954658-6	ABNL6	04/16/25 18:35
ABNL5	R1954658-5	ABNL5	04/16/25 18:57
ABNL4	R1954658-4	ABNL4	04/16/25 19:19
ABNL3	R1954658-3	ABNL3	04/16/25 19:42
ABNL2	R1954658-2	ABNL2	04/16/25 20:04
ABNL1	R1954658-1	ABNL1	04/16/25 20:27
AP9L9	R1954658-27	AP9L9	04/16/25 20:49
AP9L8	R1954658-26	AP9L8	04/16/25 21:12
AP9L7	R1954658-25	AP9L7	04/16/25 21:35
AP9L6	R1954658-22	AP9L6	04/16/25 21:57
AP9L5	R1954658-23	AP9L5	04/16/25 22:20
AP9L4	R1954658-24	AP9L4	04/16/25 22:42
AP9L3	R1954658-20	AP9L3	04/16/25 23:05
AP9L2	R1954658-21	AP9L2	04/16/25 23:28
AP9L1	R1954658-19	AP9L1	04/16/25 23:50
ABN ICV Quant Report	R1954658-28	ABNICV	04/17/25 00:13
AP9 ICV Quant Report	R1954658-30	AP9ICV	04/17/25 00:36



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

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : DAKOTA	Analysis Date : 04/17/25 00:58
Tune Standard : R1954658-32	Tune File ID : Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	39.6
68	Less than 2.0% of mass 69	0.5 (1.2)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	41.4
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	6.5
275	10.0 - 60.0% of Base Peak	25.9
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	17.2
442	Base Peak, or >50% of mass 198	70.6
443	15.0 - 24.0% of mass 442	13.5 (19.2)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	R1954658-18	ADPL9	04/17/25 01:20
ADPL8	R1954658-17	ADPL8	04/17/25 01:43
ADPL7	R1954658-16	ADPL7	04/17/25 02:05
ADPL6	R1954658-15	ADPL6	04/17/25 02:28
ADPL5	R1954658-14	ADPL5	04/17/25 02:50
ADPL4	R1954658-13	ADPL4	04/17/25 03:13
ADPL3	R1954658-12	ADPL3	04/17/25 03:35
ADPL2	R1954658-11	ADPL2	04/17/25 03:58
ADPL1	R1954658-10	ADPL1	04/17/25 04:21
ADP ICV Quant Report	R1954658-29	ADPICV	04/17/25 04:43



Instrument Performance Check (Tune) Summary

Form 5

Semivolatiles

Decafluorotriphenylphosphine (DFTPP)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : DAKOTA	Analysis Date : 06/19/25 10:26
Tune Standard : WG2080969-1	Tune File ID : DEG0619_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36.4
68	Less than 2.0% of mass 69	0.4 (1.1)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	37.7
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	6.7
275	10.0 - 60.0% of Base Peak	25.7
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	17.7
442	Base Peak, or >50% of mass 198	76.1
443	15.0 - 24.0% of mass 442	14.2 (18.7)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
WG2080969-6TFACTOR-B	WG2080969-6	DEG0619	06/19/25 10:26
WG2080969-7TFACTOR-P	WG2080969-7	DEG0619	06/19/25 10:26
WG2080969-3CCAL	WG2080969-3	ABN0619	06/19/25 10:48
WG2080969-4CCAL	WG2080969-4	AP90619	06/19/25 11:11
WG2080969-5CCAL	WG2080969-5	ADP0619	06/19/25 11:33
MW-11S	L2537655-01	37655-01	06/19/25 13:26
MW-11D	L2537655-02	37655-02	06/19/25 13:48
EQUIPMENT BLANK	L2537655-03	37655-03	06/19/25 14:11
MW-1DRZ	L2537655-04	37655-04	06/19/25 14:34
MW-1SR	L2537655-05	37655-05	06/19/25 14:56



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV106
 Sample No : WG2080865-3

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Analysis Date : 06/19/25 06:58:00
 Lab File ID : ABN0619

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2080865-3	62704	6.56	233073	7.97	146915	9.74
Upper Limit	125408	7.06	466146	8.47	293830	10.24
Lower Limit	31352	6.06	116537	7.47	73458	9.24
Sample ID						
WG2080865-4 CCAL	60457	6.56	221512	7.97	141624	9.74
WG2080865-5 CCAL	52647	6.55	-	-	115193	9.74
WG2080671-2 LCS	77543	6.55	293544	7.97	147870	9.74
WG2080671-3 LCSD	69720	6.55	235952	7.97	146667	9.74
WG2080671-1 BLANK	67415	6.55	242505	7.97	163961	9.74

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
 Project Name : CORAM MATERIALS
 Instrument ID : SV106
 Sample No : WG2080865-3

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Analysis Date : 06/19/25 06:58:00
 Lab File ID : ABN0619

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2080865-3	296755	11.19	309276	13.85	304124	15.33
Upper Limit	593510	11.69	618552	14.35	608248	15.83
Lower Limit	148378	10.69	154638	13.35	152062	14.83
Sample ID						
WG2080865-4 CCAL	294404	11.19	-	-	-	-
WG2080865-5 CCAL	248688	11.19	-	-	-	-
WG2080671-2 LCS	302535	11.19	309810	13.85	311002	15.34
WG2080671-3 LCSD	299023	11.19	336935	13.85	342302	15.34
WG2080671-1 BLANK	315537	11.19	329197	13.85	314358	15.34

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
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Sample No : WG2080969-3

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Analysis Date : 06/19/25 10:48:00
 Lab File ID : ABN0619

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2080969-3	40269	4.65	141165	5.89	108362	7.59
Upper Limit	80538	5.15	282330	6.39	216724	8.09
Lower Limit	20135	4.15	70583	5.39	54181	7.09
Sample ID						
WG2080969-4 CCAL	39277	4.65	138132	5.89	102291	7.59
WG2080969-5 CCAL	33358	4.65	-	-	80426	7.59
MW-11S	39792	4.65	132244	5.89	98482	7.59
MW-11D	37966	4.65	127606	5.89	94824	7.59
EQUIPMENT BLANK	39042	4.65	132253	5.89	99769	7.59
MW-1DRZ	40387	4.65	133569	5.89	98688	7.59
MW-1SR	38474	4.65	128084	5.89	91801	7.59

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
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Sample No : WG2080969-3

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Analysis Date : 06/19/25 10:48:00
 Lab File ID : ABN0619

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2080969-3	250799	9.02	307987	11.63	355260	13.09
Upper Limit	501598	9.52	615974	12.13	710520	13.59
Lower Limit	125400	8.52	153994	11.13	177630	12.59
Sample ID						
WG2080969-4 CCAL	244254	9.01	-	-	-	-
WG2080969-5 CCAL	191146	9.02	-	-	-	-
MW-11S	227668	9.01	276724	11.63	339863	13.08
MW-11D	216541	9.01	269779	11.63	321929	13.08
EQUIPMENT BLANK	228385	9.01	281838	11.63	334562	13.08
MW-1DRZ	231824	9.01	284451	11.63	337529	13.09
MW-1SR	214761	9.01	267163	11.63	310894	13.09

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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Created By: Jason Hebert
File: PM19302-1
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ABN Extractables - EPA 8270E (RVT) (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 100ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	0.403	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	6.01	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.977	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.452	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.392	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.35	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.329	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.315	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.391	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	1.85	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.541	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.845	ug/l	40-140	30	40-140	30	30			
Azobenzene	122-66-7	2	0.418	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.411	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.386	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.244	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	0.403	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	0.842	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.355	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	1.23	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.203	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.862	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.542	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.205	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.924	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.906	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.42	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	2.61	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.957	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	2.26	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	0.765	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	0.916	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.323	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.368	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.533	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.621	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.222	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.315	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.467	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.369	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	0.439	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.419	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 Pace Analytical Services.



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File: PM19302-1
Page: 2

ABN Extractables - EPA 8270E (RVT) (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 100ml 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	0.286	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.484	ug/l	40-140	30	40-140	30	30			
Pyrene	129-00-0	2	0.407	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2	0.196	ug/l	40-140	30	40-140	30	30			
Aniline	62-53-3	2	0.67	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5	0.468	ug/l	40-140	30	40-140	30	30			
1-Methylnaphthalene	90-12-0	2	0.415	ug/l	41-103	30	41-103	30	30			
2-Nitroaniline	88-74-4	5	1.03	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	1.16	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	1.45	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.401	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2	0.372	ug/l	40-140	30	40-140	30	30			
n-Nitrosodimethylamine	62-75-9	2	0.44	ug/l	22-74	30	22-74	30	30			
2,4,6-Trichlorophenol	88-06-2	5	2.09	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.606	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.653	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	1.7	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	2.04	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	1.95	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.42	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	5.42	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	2.31	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10	2.51	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5	0.35	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	2.31	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5	1.39	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	2.07	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	2.62	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2	0.381	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2	0.309	ug/l	55-144	30	55-144	30	30			
Pyridine	110-86-1	3.5	0.308	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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Semivolatile Sample Data

Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-01
 Client ID : MW-11S
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 37655-01
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 12:05
 Date Received : 06/16/25
 Date Analyzed : 06/19/25 13:26
 Date Extracted : 06/19/25
 Dilution Factor : 1
 Analyst : JG
 Instrument ID : DAKOTA
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-01
 Client ID : MW-11S
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 37655-01
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 12:05
 Date Received : 06/16/25
 Date Analyzed : 06/19/25 13:26
 Date Extracted : 06/19/25
 Dilution Factor : 1
 Analyst : JG
 Instrument ID : DAKOTA
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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 Project Name : CORAM MATERIALS Lab ID : L2537655-02 Client ID : MW-11D Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 37655-02 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2537655 Project Number : 2232.0006Y005 Date Collected : 06/16/25 12:08 Date Received : 06/16/25 Date Analyzed : 06/19/25 13:48 Date Extracted : 06/19/25 Dilution Factor : 1 Analyst : JG Instrument ID : DAKOTA GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
--	---

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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 Project Name : CORAM MATERIALS Lab ID : L2537655-02 Client ID : MW-11D Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 37655-02 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2537655 Project Number : 2232.0006Y005 Date Collected : 06/16/25 12:08 Date Received : 06/16/25 Date Analyzed : 06/19/25 13:48 Date Extracted : 06/19/25 Dilution Factor : 1 Analyst : JG Instrument ID : DAKOTA GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
--	---

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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 Project Name : CORAM MATERIALS Lab ID : L2537655-03 Client ID : EQUIPMENT BLANK Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : Equipment Blank Analytical Method : 1,8270E Lab File ID : 37655-03 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2537655 Project Number : 2232.0006Y005 Date Collected : 06/16/25 12:30 Date Received : 06/16/25 Date Analyzed : 06/19/25 14:11 Date Extracted : 06/19/25 Dilution Factor : 1 Analyst : JG Instrument ID : DAKOTA GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
---	---

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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 Project Name : CORAM MATERIALS Lab ID : L2537655-03 Client ID : EQUIPMENT BLANK Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : Equipment Blank Analytical Method : 1,8270E Lab File ID : 37655-03 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2537655 Project Number : 2232.0006Y005 Date Collected : 06/16/25 12:30 Date Received : 06/16/25 Date Analyzed : 06/19/25 14:11 Date Extracted : 06/19/25 Dilution Factor : 1 Analyst : JG Instrument ID : DAKOTA GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
---	---

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-04
 Client ID : MW-1DRZ
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 37655-04
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 13:45
 Date Received : 06/16/25
 Date Analyzed : 06/19/25 14:34
 Date Extracted : 06/19/25
 Dilution Factor : 1
 Analyst : JG
 Instrument ID : DAKOTA
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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 Project Name : CORAM MATERIALS Lab ID : L2537655-04 Client ID : MW-1DRZ Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 37655-04 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2537655 Project Number : 2232.0006Y005 Date Collected : 06/16/25 13:45 Date Received : 06/16/25 Date Analyzed : 06/19/25 14:34 Date Extracted : 06/19/25 Dilution Factor : 1 Analyst : JG Instrument ID : DAKOTA GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
---	---

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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 Project Name : CORAM MATERIALS Lab ID : L2537655-05 Client ID : MW-1SR Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 37655-05 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2537655 Project Number : 2232.0006Y005 Date Collected : 06/16/25 13:50 Date Received : 06/16/25 Date Analyzed : 06/19/25 14:56 Date Extracted : 06/19/25 Dilution Factor : 1 Analyst : JG Instrument ID : DAKOTA GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
--	---

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-05
 Client ID : MW-1SR
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 37655-05
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 13:50
 Date Received : 06/16/25
 Date Analyzed : 06/19/25 14:56
 Date Extracted : 06/19/25
 Dilution Factor : 1
 Analyst : JG
 Instrument ID : DAKOTA
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : WG2080671-1
 Client ID : WG2080671-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 080671-1
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/19/25 10:44
 Date Extracted : 06/18/25
 Dilution Factor : 1
 Analyst : JG
 Instrument ID : SV106
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : WG2080671-1
 Client ID : WG2080671-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 080671-1
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/19/25 10:44
 Date Extracted : 06/18/25
 Dilution Factor : 1
 Analyst : JG
 Instrument ID : SV106
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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



Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-01.D
 Acq On : 19 Jun 2025 1:26 pm
 Operator : Dakota:jg
 Sample : L2537655-01,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 15:18:27 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.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...	4.654	152	39792	4.000	ug/ml	0.00
Standard Area 1 = 40269			Recovery =	98.82%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	39792	4.000	ug/ml	0.00
Standard Area 3 = 39277			Recovery =	101.31%		
37) IS1_Naphthalene-d8	5.888	136	132244	4.000	ug/ml	# 0.00
Standard Area 1 = 141165			Recovery =	93.68%		
57) IS2_Naphthalene-d8	5.888	136	132244	4.000	ug/ml	# 0.00
Standard Area 3 = 138132			Recovery =	95.74%		
65) IS1_Acenaphthene-d10	7.585	164	98482	4.000	ug/ml	0.00
Standard Area 1 = 108362			Recovery =	90.88%		
85) IS2_Acenaphthene-d10	7.585	164	98482	4.000	ug/ml	0.00
Standard Area 3 = 102291			Recovery =	96.28%		
88) IS3_Acenaphthene-d10	7.585	164	98482	4.000	ug/ml	0.00
Standard Area 2 = 80426			Recovery =	122.45%		
90) IS1_Phenanthrene-d10	9.012	188	227668	4.000	ug/ml	0.00
Standard Area 1 = 250799			Recovery =	90.78%		
102) IS3_Phenanthrene-d10	9.012	188	227668	4.000	ug/ml	0.00
Standard Area 2 = 191146			Recovery =	119.11%		
106) IS1_Chrysene-d12	11.629	240	276724	4.000	ug/ml	# 0.00
Standard Area 1 = 307987			Recovery =	89.85%		
115) IS1_Perylene-d12	13.083	264	339863	4.000	ug/ml	0.00
Standard Area 1 = 355260			Recovery =	95.67%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	8798	0.861	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	43.05%		
7) Phenol-d6	4.337	99	8025	0.637	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	31.85%		
19) Nitrobenzene-d5	5.192	82	9864	0.730	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	73.00%		
48) 2-Fluorobiphenyl	6.954	172	26730	0.776	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	77.60%		
81) 2,4,6-Tribromophenol	8.347	330	10672	1.841	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	92.05%		
98) 4-Terphenyl-d14	10.584	244	52114	0.856	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	85.60%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-01.D
 Acq On : 19 Jun 2025 1:26 pm
 Operator : Dakota:jg
 Sample : L2537655-01,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 15:18:27 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.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.		
40) 4-Chloroaniline	0.000		0	N.D.		
42) p-Chloro-m-cresol	0.000		0	N.D.		
45) Hexachlorocyclopentadiene	0.000		0	N.D.		
46) 2,4,6-Trichlorophenol	0.000		0	N.D.		
47) 2,4,5-Trichlorophenol	0.000		0	N.D.		
50) 2-Nitroaniline	0.000		0	N.D.		
53) Dimethyl phthalate	0.000		0	N.D.	d	
55) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
62) Caprolactam	0.000		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
64) Biphenyl	0.000		0	N.D.		
66) 3-Nitroaniline	0.000		0	N.D.		
68) 2,4-Dinitrophenol	0.000		0	N.D.		
69) Dibenzofuran	0.000		0	N.D.		
70) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
71) 4-Nitrophenol	0.000		0	N.D.		
74) Diethyl phthalate	0.000		0	N.D.		
76) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
77) 4-Nitroaniline	0.000		0	N.D.		
78) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
79) NDPA/DPA	0.000		0	N.D.		
82) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-01.D
 Acq On : 19 Jun 2025 1:26 pm
 Operator : Dakota:jg
 Sample : L2537655-01,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 15:18:27 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	0.000		0		N.D.	
93)	Carbazole	0.000		0		N.D.	
94)	Di-n-butylphthalate	0.000		0		N.D.	d
99)	Butyl benzyl phthalate	0.000		0		N.D.	
108)	3,3'-Dichlorobenzidine	0.000		0		N.D.	
110)	Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	
111)	Di-n-octylphthalate	0.000		0		N.D.	d

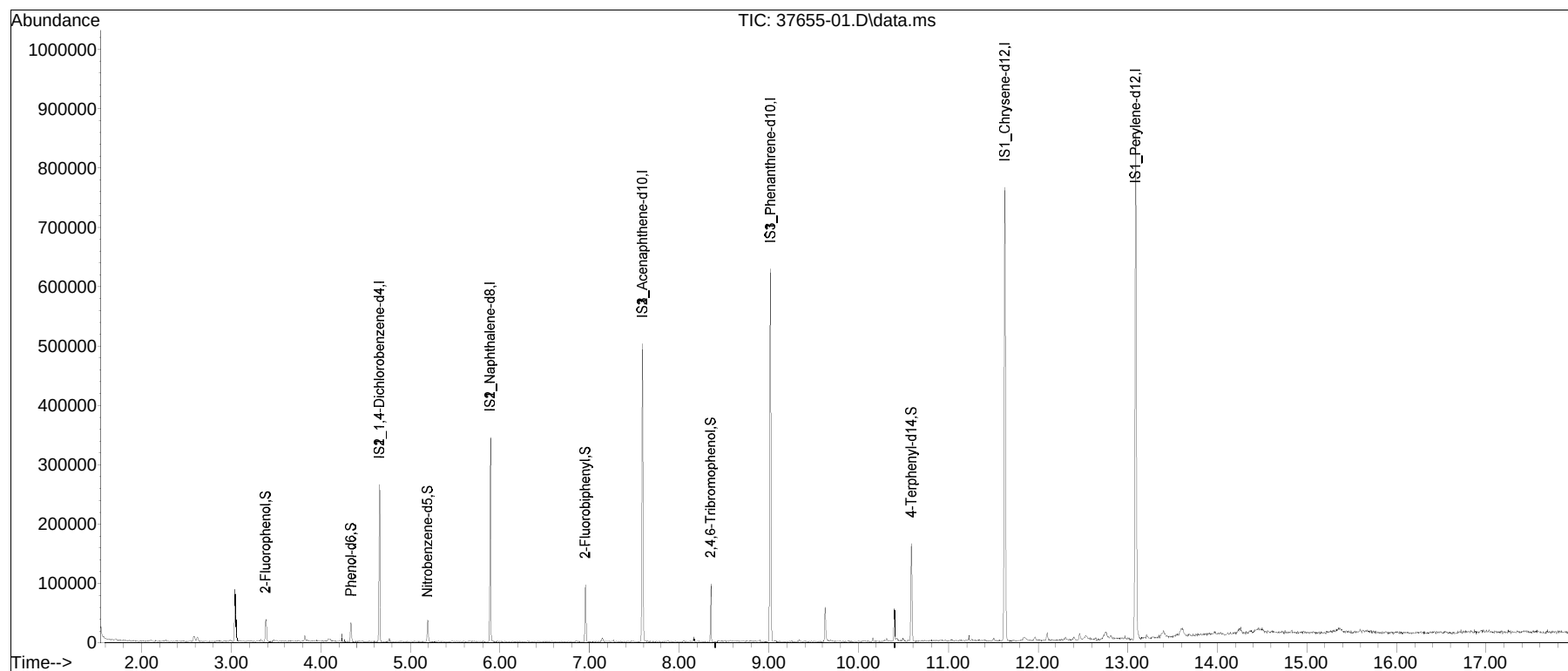
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-01.D
 Acq On : 19 Jun 2025 1:26 pm
 Operator : Dakota:jg
 Sample : L2537655-01,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 15:18:27 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP90619.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250619RVTa\QMethod	: FS250416RVT_Dakota.m
Data File	: 37655-01.D	Operator : Dakota:jg
Date Inj'd	: 6/19/2025 1:26 pm	Instrument : Dakota
Sample	: L2537655-01,32,,gmr	Quant Date : 6/19/2025 1:44 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-02.D
 Acq On : 19 Jun 2025 1:48 pm
 Operator : Dakota:jg
 Sample : L2537655-02,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 24 15:18:45 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.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...	4.654	152	37966	4.000	ug/ml	0.00
Standard Area 1 = 40269			Recovery =	94.28%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	37966	4.000	ug/ml	0.00
Standard Area 3 = 39277			Recovery =	96.66%		
37) IS1_Naphthalene-d8	5.888	136	127606	4.000	ug/ml	# 0.00
Standard Area 1 = 141165			Recovery =	90.39%		
57) IS2_Naphthalene-d8	5.888	136	127606	4.000	ug/ml	# 0.00
Standard Area 3 = 138132			Recovery =	92.38%		
65) IS1_Acenaphthene-d10	7.585	164	94824	4.000	ug/ml	0.00
Standard Area 1 = 108362			Recovery =	87.51%		
85) IS2_Acenaphthene-d10	7.585	164	94824	4.000	ug/ml	0.00
Standard Area 3 = 102291			Recovery =	92.70%		
88) IS3_Acenaphthene-d10	7.585	164	94824	4.000	ug/ml	0.00
Standard Area 2 = 80426			Recovery =	117.90%		
90) IS1_Phenanthrene-d10	9.012	188	216541	4.000	ug/ml	0.00
Standard Area 1 = 250799			Recovery =	86.34%		
102) IS3_Phenanthrene-d10	9.012	188	216541	4.000	ug/ml	0.00
Standard Area 2 = 191146			Recovery =	113.29%		
106) IS1_Chrysene-d12	11.629	240	269779	4.000	ug/ml	0.00
Standard Area 1 = 307987			Recovery =	87.59%		
115) IS1_Perylene-d12	13.084	264	321929	4.000	ug/ml	0.00
Standard Area 1 = 355260			Recovery =	90.62%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.386	112	9691	0.994	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	49.70%		
7) Phenol-d6	4.337	99	7873	0.655	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	32.75%		
19) Nitrobenzene-d5	5.195	82	10253	0.796	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	79.60%		
48) 2-Fluorobiphenyl	6.954	172	28216	0.849	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	84.90%		
81) 2,4,6-Tribromophenol	8.347	330	10598	1.898	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	94.90%		
98) 4-Terphenyl-d14	10.585	244	54293	0.938	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	93.80%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-02.D
 Acq On : 19 Jun 2025 1:48 pm
 Operator : Dakota:jg
 Sample : L2537655-02,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 24 15:18:45 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.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.		
40) 4-Chloroaniline	0.000		0	N.D.		
42) p-Chloro-m-cresol	0.000		0	N.D.		
45) Hexachlorocyclopentadiene	0.000		0	N.D.		
46) 2,4,6-Trichlorophenol	0.000		0	N.D.		
47) 2,4,5-Trichlorophenol	0.000		0	N.D.		
50) 2-Nitroaniline	0.000		0	N.D.		
53) Dimethyl phthalate	0.000		0	N.D.	d	
55) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
62) Caprolactam	0.000		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
64) Biphenyl	0.000		0	N.D.		
66) 3-Nitroaniline	0.000		0	N.D.		
68) 2,4-Dinitrophenol	0.000		0	N.D.		
69) Dibenzofuran	0.000		0	N.D.		
70) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
71) 4-Nitrophenol	0.000		0	N.D.		
74) Diethyl phthalate	0.000		0	N.D.		
76) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
77) 4-Nitroaniline	0.000		0	N.D.		
78) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
79) NDPA/DPA	0.000		0	N.D.		
82) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-02.D
 Acq On : 19 Jun 2025 1:48 pm
 Operator : Dakota:jg
 Sample : L2537655-02,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 24 15:18:45 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	0.000		0		N.D.	
93)	Carbazole	0.000		0		N.D.	
94)	Di-n-butylphthalate	0.000		0		N.D.	d
99)	Butyl benzyl phthalate	0.000		0		N.D.	
108)	3,3'-Dichlorobenzidine	0.000		0		N.D.	
110)	Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
111)	Di-n-octylphthalate	0.000		0		N.D.	d

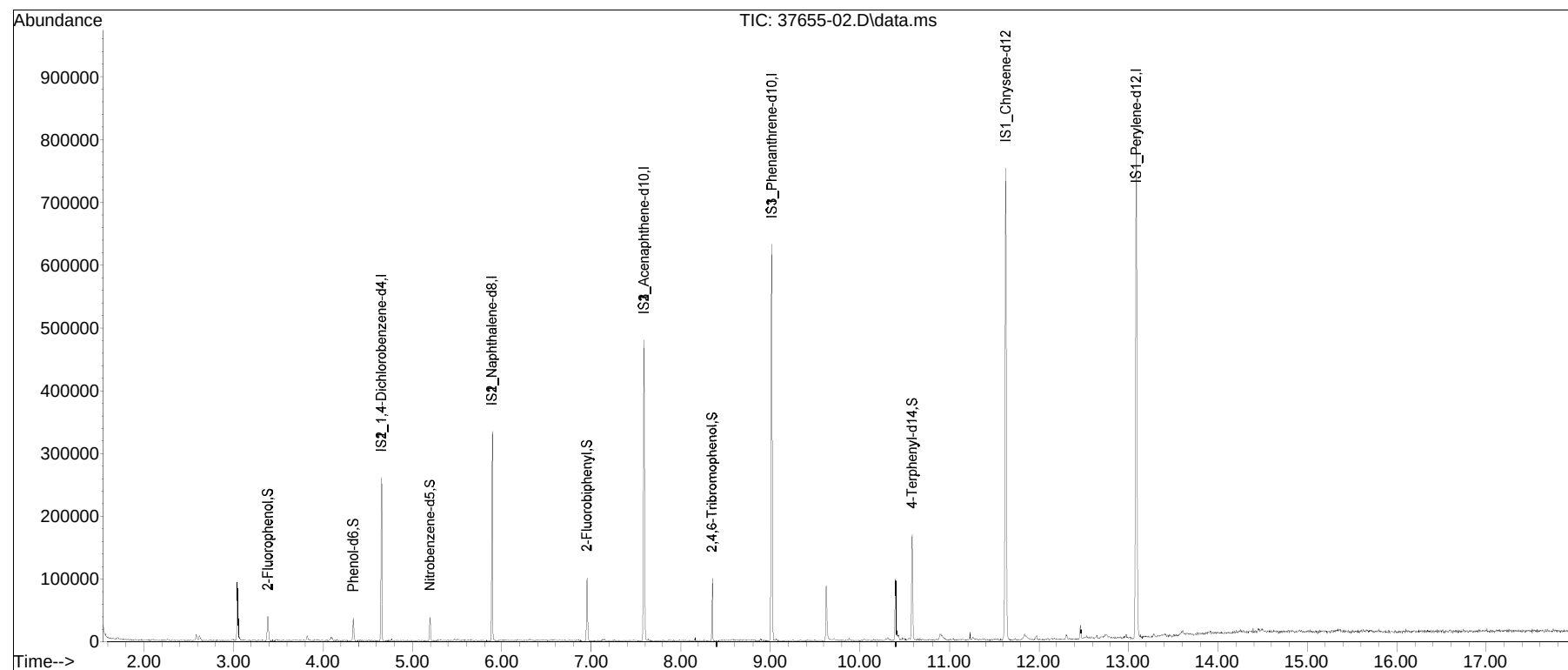
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-02.D
 Acq On : 19 Jun 2025 1:48 pm
 Operator : Dakota:jg
 Sample : L2537655-02,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 24 15:18:45 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP90619.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250619RVTa\QMethod	: FS250416RVT_Dakota.m
Data File	: 37655-02.D	Operator : Dakota:jg
Date Inj'd	: 6/19/2025 1:48 pm	Instrument : Dakota
Sample	: L2537655-02,32,,gmr	Quant Date : 6/19/2025 2:07 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-03.D
 Acq On : 19 Jun 2025 2:11 pm
 Operator : Dakota:jg
 Sample : L2537655-03,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 24 15:19:02 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.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...	4.654	152	39042	4.000	ug/ml	0.00
Standard Area 1 = 40269			Recovery =	96.95%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	39042	4.000	ug/ml	0.00
Standard Area 3 = 39277			Recovery =	99.40%		
37) IS1_Naphthalene-d8	5.885	136	132253	4.000	ug/ml	# 0.00
Standard Area 1 = 141165			Recovery =	93.69%		
57) IS2_Naphthalene-d8	5.885	136	132253	4.000	ug/ml	# 0.00
Standard Area 3 = 138132			Recovery =	95.74%		
65) IS1_Acenaphthene-d10	7.585	164	99769	4.000	ug/ml	0.00
Standard Area 1 = 108362			Recovery =	92.07%		
85) IS2_Acenaphthene-d10	7.585	164	99769	4.000	ug/ml	0.00
Standard Area 3 = 102291			Recovery =	97.53%		
88) IS3_Acenaphthene-d10	7.585	164	99769	4.000	ug/ml	0.00
Standard Area 2 = 80426			Recovery =	124.05%		
90) IS1_Phenanthrene-d10	9.012	188	228385	4.000	ug/ml	0.00
Standard Area 1 = 250799			Recovery =	91.06%		
102) IS3_Phenanthrene-d10	9.012	188	228385	4.000	ug/ml	0.00
Standard Area 2 = 191146			Recovery =	119.48%		
106) IS1_Chrysene-d12	11.632	240	281838	4.000	ug/ml	# 0.00
Standard Area 1 = 307987			Recovery =	91.51%		
115) IS1_Perylene-d12	13.084	264	334562	4.000	ug/ml	0.00
Standard Area 1 = 355260			Recovery =	94.17%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.386	112	6322	0.631	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	31.55%		
7) Phenol-d6	4.337	99	5613	0.454	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	22.70%		
19) Nitrobenzene-d5	5.195	82	7389	0.558	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	55.80%		
48) 2-Fluorobiphenyl	6.954	172	22441	0.651	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	65.10%		
81) 2,4,6-Tribromophenol	8.347	330	8811	1.500	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	75.00%		
98) 4-Terphenyl-d14	10.588	244	42271	0.692	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	69.20%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-03.D
 Acq On : 19 Jun 2025 2:11 pm
 Operator : Dakota:jg
 Sample : L2537655-03,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 24 15:19:02 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.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.		
40) 4-Chloroaniline	0.000		0	N.D.		
42) p-Chloro-m-cresol	0.000		0	N.D.		
45) Hexachlorocyclopentadiene	0.000		0	N.D.		
46) 2,4,6-Trichlorophenol	0.000		0	N.D.		
47) 2,4,5-Trichlorophenol	0.000		0	N.D.		
50) 2-Nitroaniline	0.000		0	N.D.		
53) Dimethyl phthalate	0.000		0	N.D.	d	
55) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
62) Caprolactam	0.000		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
64) Biphenyl	0.000		0	N.D.		
66) 3-Nitroaniline	0.000		0	N.D.		
68) 2,4-Dinitrophenol	0.000		0	N.D.		
69) Dibenzofuran	0.000		0	N.D.		
70) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
71) 4-Nitrophenol	0.000		0	N.D.		
74) Diethyl phthalate	0.000		0	N.D.		
76) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
77) 4-Nitroaniline	0.000		0	N.D.		
78) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
79) NDPA/DPA	0.000		0	N.D.		
82) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-03.D
 Acq On : 19 Jun 2025 2:11 pm
 Operator : Dakota:jg
 Sample : L2537655-03,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 24 15:19:02 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	0.000		0		N.D.	
93)	Carbazole	0.000		0		N.D.	
94)	Di-n-butylphthalate	0.000		0		N.D.	d
99)	Butyl benzyl phthalate	0.000		0		N.D.	
108)	3,3'-Dichlorobenzidine	0.000		0		N.D.	
110)	Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
111)	Di-n-octylphthalate	0.000		0		N.D.	d

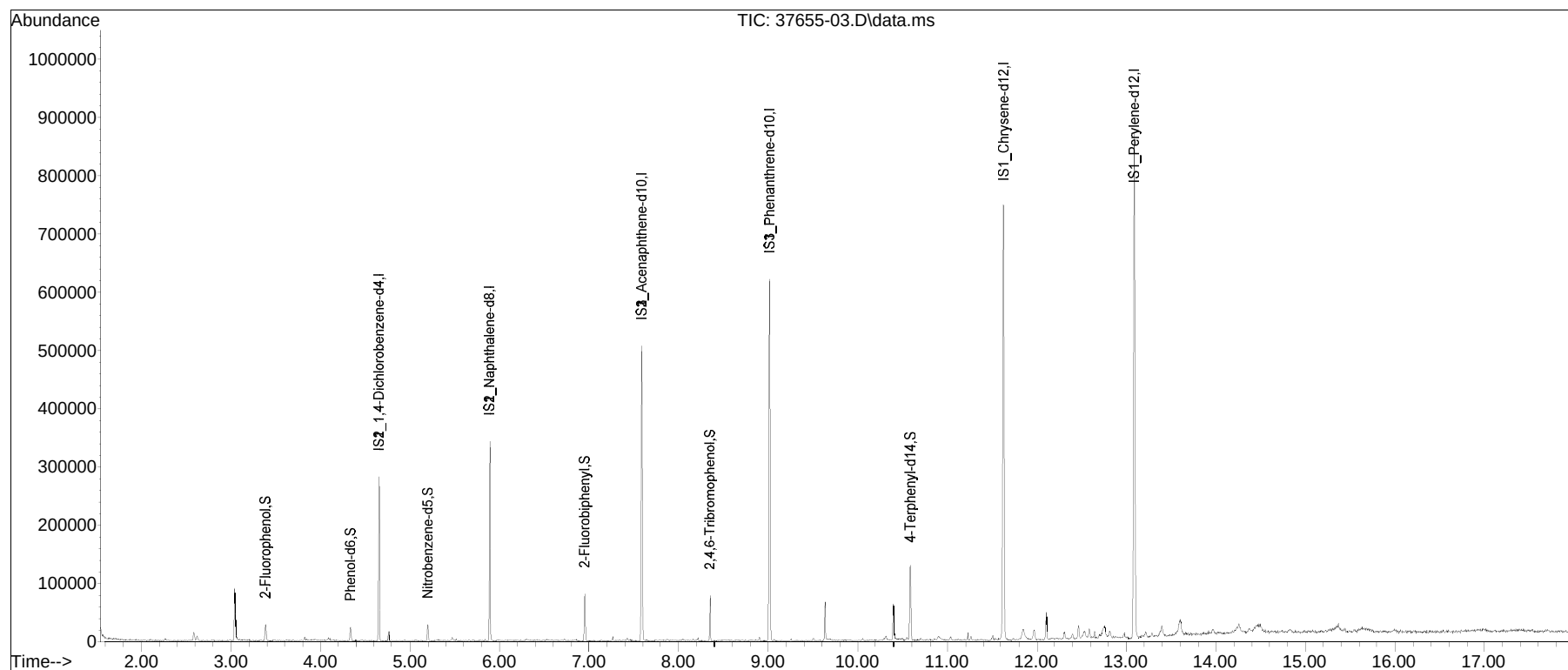
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-03.D
 Acq On : 19 Jun 2025 2:11 pm
 Operator : Dakota:jg
 Sample : L2537655-03,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 24 15:19:02 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP90619.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250619RVTa\QMethod	: FS250416RVT_Dakota.m
Data File	: 37655-03.D	Operator : Dakota:jg
Date Inj'd	: 6/19/2025 2:11 pm	Instrument : Dakota
Sample	: L2537655-03,32,,gmr	Quant Date : 6/19/2025 2:30 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-04.D
 Acq On : 19 Jun 2025 2:34 pm
 Operator : Dakota:jg
 Sample : L2537655-04,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 15:19:20 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.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...	4.654	152	40387	4.000	ug/ml	0.00
Standard Area 1 = 40269			Recovery =	100.29%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	40387	4.000	ug/ml	0.00
Standard Area 3 = 39277			Recovery =	102.83%		
37) IS1_Naphthalene-d8	5.885	136	133569	4.000	ug/ml	# 0.00
Standard Area 1 = 141165			Recovery =	94.62%		
57) IS2_Naphthalene-d8	5.885	136	133569	4.000	ug/ml	# 0.00
Standard Area 3 = 138132			Recovery =	96.70%		
65) IS1_Acenaphthene-d10	7.585	164	98688	4.000	ug/ml	0.00
Standard Area 1 = 108362			Recovery =	91.07%		
85) IS2_Acenaphthene-d10	7.585	164	98688	4.000	ug/ml	0.00
Standard Area 3 = 102291			Recovery =	96.48%		
88) IS3_Acenaphthene-d10	7.585	164	98688	4.000	ug/ml	0.00
Standard Area 2 = 80426			Recovery =	122.71%		
90) IS1_Phenanthrene-d10	9.012	188	231824	4.000	ug/ml	0.00
Standard Area 1 = 250799			Recovery =	92.43%		
102) IS3_Phenanthrene-d10	9.012	188	231824	4.000	ug/ml	0.00
Standard Area 2 = 191146			Recovery =	121.28%		
106) IS1_Chrysene-d12	11.632	240	284451	4.000	ug/ml	# 0.00
Standard Area 1 = 307987			Recovery =	92.36%		
115) IS1_Perylene-d12	13.087	264	337529	4.000	ug/ml	0.00
Standard Area 1 = 355260			Recovery =	95.01%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	8105	0.782	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	39.10%		
7) Phenol-d6	4.337	99	7376	0.577	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	28.85%		
19) Nitrobenzene-d5	5.192	82	8707	0.635	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	63.50%		
48) 2-Fluorobiphenyl	6.954	172	25232	0.725	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	72.50%		
81) 2,4,6-Tribromophenol	8.347	330	10605	1.825	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	91.25%		
98) 4-Terphenyl-d14	10.585	244	48118	0.777	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	77.70%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-04.D
 Acq On : 19 Jun 2025 2:34 pm
 Operator : Dakota:jg
 Sample : L2537655-04,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 15:19:20 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.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.		
40) 4-Chloroaniline	0.000		0	N.D.		
42) p-Chloro-m-cresol	0.000		0	N.D.		
45) Hexachlorocyclopentadiene	0.000		0	N.D.		
46) 2,4,6-Trichlorophenol	0.000		0	N.D.		
47) 2,4,5-Trichlorophenol	0.000		0	N.D.		
50) 2-Nitroaniline	0.000		0	N.D.		
53) Dimethyl phthalate	0.000		0	N.D.	d	
55) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
62) Caprolactam	0.000		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
64) Biphenyl	0.000		0	N.D.		
66) 3-Nitroaniline	0.000		0	N.D.		
68) 2,4-Dinitrophenol	0.000		0	N.D.		
69) Dibenzofuran	0.000		0	N.D.		
70) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
71) 4-Nitrophenol	0.000		0	N.D.	d	
74) Diethyl phthalate	0.000		0	N.D.		
76) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
77) 4-Nitroaniline	0.000		0	N.D.		
78) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
79) NDPA/DPA	0.000		0	N.D.		
82) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-04.D
 Acq On : 19 Jun 2025 2:34 pm
 Operator : Dakota:jg
 Sample : L2537655-04,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 15:19:20 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Atrazine	0.000		0		N.D.	
93) Carbazole	0.000		0		N.D.	
94) Di-n-butylphthalate	0.000		0		N.D. d	
99) Butyl benzyl phthalate	0.000		0		N.D.	
108) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
110) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	
111) Di-n-octylphthalate	0.000		0		N.D. d	

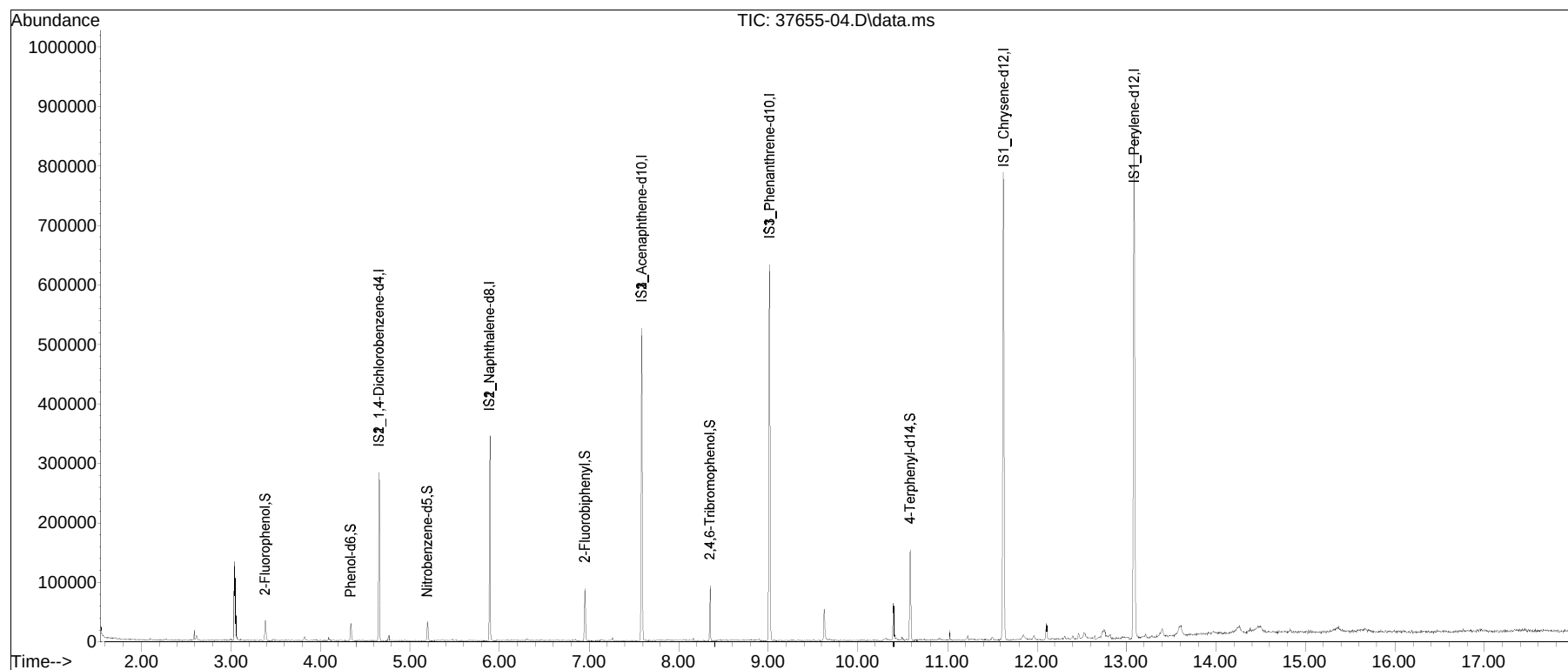
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
Data File : 37655-04.D
Acq On : 19 Jun 2025 2:34 pm
Operator : Dakota:jg
Sample : L2537655-04,32,,gmr
Misc : WG2080969,WG2080671,ical22203
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 15:19:20 2025
Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 19 11:56:44 2025
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP90619.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250619RVTa\QMethod : FS250416RVT_Dakota.m
Data File : 37655-04.D Operator : Dakota:jg
Date Inj'd : 6/19/2025 2:34 pm Instrument : Dakota
Sample : L2537655-04,32,,gmr Quant Date : 6/19/2025 2:52 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-05.D
 Acq On : 19 Jun 2025 2:56 pm
 Operator : Dakota:jg
 Sample : L2537655-05,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 15:19:37 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.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...	4.654	152	38474	4.000	ug/ml	0.00
Standard Area 1 = 40269			Recovery =	95.54%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	38474	4.000	ug/ml	0.00
Standard Area 3 = 39277			Recovery =	97.96%		
37) IS1_Naphthalene-d8	5.888	136	128084	4.000	ug/ml	# 0.00
Standard Area 1 = 141165			Recovery =	90.73%		
57) IS2_Naphthalene-d8	5.888	136	128084	4.000	ug/ml	# 0.00
Standard Area 3 = 138132			Recovery =	92.73%		
65) IS1_Acenaphthene-d10	7.585	164	91801	4.000	ug/ml	0.00
Standard Area 1 = 108362			Recovery =	84.72%		
85) IS2_Acenaphthene-d10	7.585	164	91801	4.000	ug/ml	0.00
Standard Area 3 = 102291			Recovery =	89.74%		
88) IS3_Acenaphthene-d10	7.585	164	91801	4.000	ug/ml	0.00
Standard Area 2 = 80426			Recovery =	114.14%		
90) IS1_Phenanthrene-d10	9.012	188	214761	4.000	ug/ml	0.00
Standard Area 1 = 250799			Recovery =	85.63%		
102) IS3_Phenanthrene-d10	9.012	188	214761	4.000	ug/ml	0.00
Standard Area 2 = 191146			Recovery =	112.35%		
106) IS1_Chrysene-d12	11.629	240	267163	4.000	ug/ml	# 0.00
Standard Area 1 = 307987			Recovery =	86.74%		
115) IS1_Perylene-d12	13.086	264	310894	4.000	ug/ml	0.00
Standard Area 1 = 355260			Recovery =	87.51%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	7553	0.765	ug/ml	0.00
Spiked Amount 2.000			Recovery =	38.25%		
7) Phenol-d6	4.337	99	8212	0.674	ug/ml	0.00
Spiked Amount 2.000			Recovery =	33.70%		
19) Nitrobenzene-d5	5.195	82	7654	0.586	ug/ml	0.00
Spiked Amount 1.000			Recovery =	58.60%		
48) 2-Fluorobiphenyl	6.954	172	21876	0.656	ug/ml	0.00
Spiked Amount 1.000			Recovery =	65.60%		
81) 2,4,6-Tribromophenol	8.347	330	8550	1.582	ug/ml	0.00
Spiked Amount 2.000			Recovery =	79.10%		
98) 4-Terphenyl-d14	10.584	244	42897	0.747	ug/ml	0.00
Spiked Amount 1.000			Recovery =	74.70%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-05.D
 Acq On : 19 Jun 2025 2:56 pm
 Operator : Dakota:jg
 Sample : L2537655-05,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 15:19:37 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.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.		
40) 4-Chloroaniline	0.000		0	N.D.		
42) p-Chloro-m-cresol	0.000		0	N.D.		
45) Hexachlorocyclopentadiene	0.000		0	N.D.		
46) 2,4,6-Trichlorophenol	0.000		0	N.D.		
47) 2,4,5-Trichlorophenol	0.000		0	N.D.		
50) 2-Nitroaniline	0.000		0	N.D.		
53) Dimethyl phthalate	0.000		0	N.D.	d	
55) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
62) Caprolactam	0.000		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
64) Biphenyl	0.000		0	N.D.		
66) 3-Nitroaniline	0.000		0	N.D.		
68) 2,4-Dinitrophenol	0.000		0	N.D.		
69) Dibenzofuran	0.000		0	N.D.		
70) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
71) 4-Nitrophenol	0.000		0	N.D.		
74) Diethyl phthalate	0.000		0	N.D.		
76) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
77) 4-Nitroaniline	0.000		0	N.D.		
78) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
79) NDPA/DPA	0.000		0	N.D.		
82) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 37655-05.D
 Acq On : 19 Jun 2025 2:56 pm
 Operator : Dakota:jg
 Sample : L2537655-05,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 15:19:37 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	0.000		0		N.D.	
93)	Carbazole	0.000		0		N.D.	
94)	Di-n-butylphthalate	0.000		0		N.D.	d
99)	Butyl benzyl phthalate	0.000		0		N.D.	
108)	3,3'-Dichlorobenzidine	0.000		0		N.D.	
110)	Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
111)	Di-n-octylphthalate	0.000		0		N.D.	d

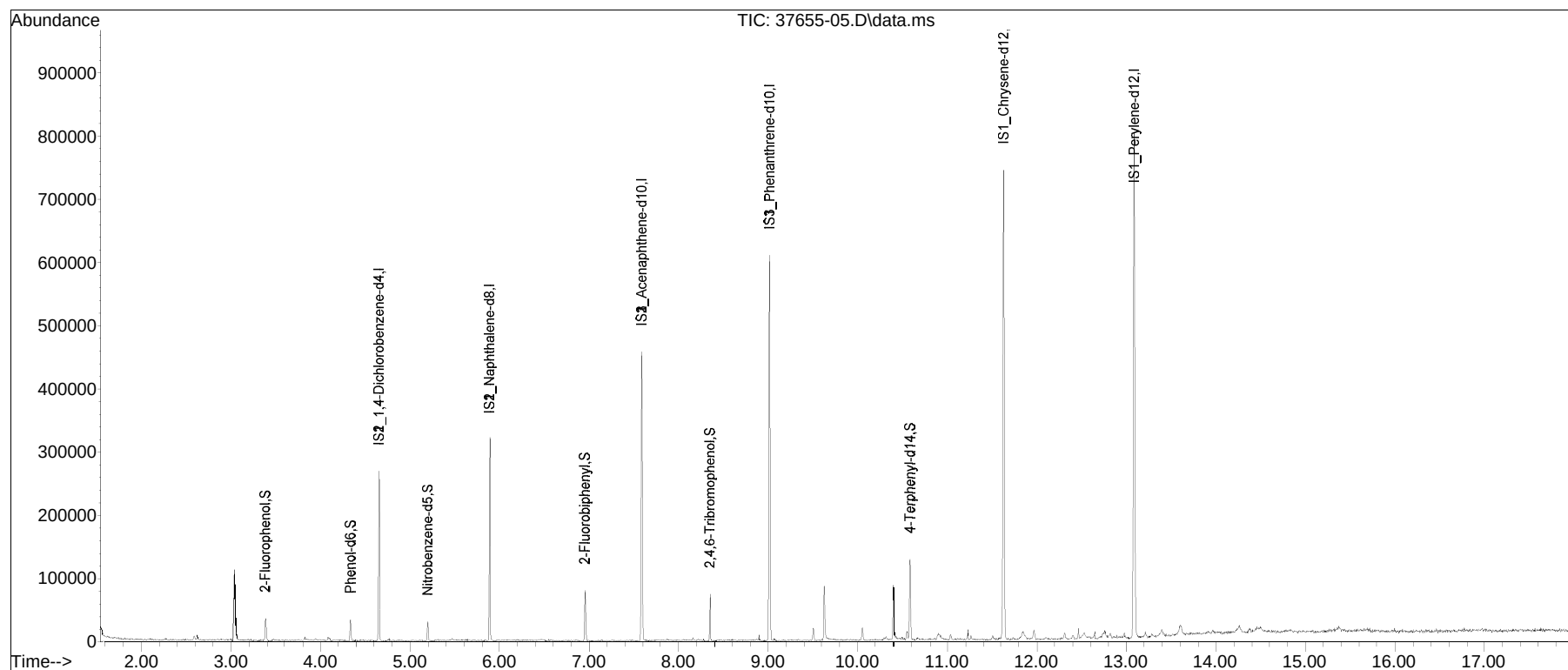
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
Data File : 37655-05.D
Acq On : 19 Jun 2025 2:56 pm
Operator : Dakota:jg
Sample : L2537655-05,32,,gmr
Misc : WG2080969,WG2080671,ical22203
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 15:19:37 2025
Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 19 11:56:44 2025
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP90619.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250619RVTa\QMethod	: FS250416RVT_Dakota.m
Data File	: 37655-05.D	Operator : Dakota:jg
Date Inj'd	: 6/19/2025 2:56 pm	Instrument : Dakota
Sample	: L2537655-05,32,,gmr	Quant Date : 6/19/2025 3:15 pm

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
 Project Name : CORAM MATERIALS
 Instrument ID : SV106
 Calibration dates : 03/11/25 16:50 03/12/25 06:06

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22075

Calibration Files

L1 =ABNL1.D L2 =ABNL2.D L3 =ABNL3.D L4 =ABNL4.D L5 =ABNL5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.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	0.783	0.639	0.806	0.721	0.661	0.702	0.699	0.722	0.729	0.718	7.31
3) t Pyridine	1.339	1.093	1.529	1.236	1.201	1.149	1.191	1.244	1.273	1.251	10.09
4) S 2-Fluorophenol	1.224	1.069	1.213	1.104	1.001	1.105	1.120	1.164	1.155	1.128	6.20
5) T Aniline	1.435	1.473	1.919	1.836	1.609	1.811	1.825	1.885	1.851	1.738	10.53
6) t 2-Chlorophenol	1.198	1.133	1.316	1.271	1.151	1.200	1.235	1.253	1.205	1.218	4.74
7) S Phenol-d6	1.413	1.195	1.418	1.380	1.214	1.307	1.307	1.353	1.318	1.323	5.98
8) T Phenol	1.689	1.351	1.550	1.470	1.327	1.425	1.435	1.468	1.418	1.459	7.41
9) T bis(2-Chloroethyl)ether	1.263	1.082	1.308	1.252	1.050	1.135	1.126	1.130	1.088	1.159	7.91
10) T 1,3-Dichlorobenzene	1.816	1.456	1.735	1.588	1.418	1.466	1.458	1.484	1.441	1.540	9.30
11) T 1,4-Dichlorobenzene	1.775	1.571	1.744	1.599	1.419	1.539	1.507	1.527	1.489	1.574	7.42
12) T 1,2-Dichlorobenzene	1.478	1.599	1.747	1.530	1.349	1.422	1.422	1.444	1.423	1.490	8.06
13) t Benzyl alcohol	0.936	0.785	0.924	0.877	0.840	0.905	0.944	0.994	0.988	0.910	7.45
14) T bis(2-chloroisopropyl)ether	3.091	2.730	3.138	2.726	2.446	2.605	2.535	2.564	2.500	2.704	9.30
15) T 2-Methylphenol	1.421	1.210	1.452	1.326	1.213	1.227	1.184	1.291	1.220	1.283	7.62
16) T Hexachloroethane	0.595	0.543	0.555	0.568	0.502	0.539	0.536	0.544	0.533	0.546	4.72
17) T n-Nitrosodi-n-propylamine	0.885	0.765	0.920	0.849	0.776	0.846	0.856	0.902	0.894	0.855	6.33
18) T 3-Methylphenol/4-Methylphenol	1.159	1.015	1.134	1.151	1.009	1.108	1.115	1.159	1.141	1.110	5.28
19) S Nitrobenzene-d5	1.074	0.972	1.124	1.108	0.964	1.102	1.139	1.210	1.168	1.096	7.53
20) T Nitrobenzene	1.087	1.017	1.105	1.088	1.032	1.137	1.184	1.229	1.185	1.118	6.41
21) T Isophorone	2.346	2.038	2.466	2.303	2.103	2.283	2.326	2.409	2.386	2.296	6.10
22) T 2-Nitrophenol	0.450	0.400	0.518	0.481	0.457	0.512	0.554	0.609	0.599	0.509	13.74
23) T 2,4-Dimethylphenol	1.252	1.058	1.221	1.170	1.096	1.227	1.222	1.278	1.261	1.198	6.32
24) T bis(2-Chloroethoxy)methane	2.026	1.644	1.872	1.648	1.492	1.468	1.436	1.469	1.695	1.639	12.36
25) T 2,4-Dichlorophenol	1.091	1.055	1.129	1.154	1.018	1.156	1.169	1.237	1.226	1.137	6.43
26) T 1,2,4-Trichlorobenzene	1.699	1.523	1.585	1.484	1.275	1.382	1.375	1.414	1.380	1.457	8.86
27) I IS2_1,4-Dichlorobenzene-d4	-----ISTD-----										
28) T Benzaldehyde	0.817	0.939	1.065	0.956	0.864	0.943	0.930	1.089	0.980	0.954	9.01
29) T Acetophenone	1.654	1.322	1.819	1.638	1.502	1.665	1.613	1.890	1.708	1.646	10.09
30) T m-Toluidine			1.266	1.297	1.394	1.557	1.561	1.856	1.668	1.514	13.95
31) T 2-Chloroaniline	1.346	1.252	1.654	1.465	1.369	1.470	1.496	1.744	1.531	1.481	10.28
32) I IS3_1,4-Dichlorobenzene-d4	-----ISTD-----										
33) t 1,4-Dioxane	0.690	0.570	0.697	0.523	0.467	0.467	0.470	0.547	0.500	0.548	16.44
34) T n-Decane	1.845	1.532	1.881	1.764	1.460	1.569	1.627	1.900	1.719	1.700	9.45
35) I IS1_Naphthalene-d8	-----ISTD-----										
36) T Naphthalene	1.239	1.058	1.194	1.095	0.950	1.020	1.014	1.024	1.003	1.066	8.86



Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV106
 Calibration dates : 03/11/25 16:50 03/12/25 06:06

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22075

Calibration Files

L1 =ABNL1.D L2 =ABNL2.D L3 =ABNL3.D L4 =ABNL4.D L5 =ABNL5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37) T Benzoic Acid			0.144	0.142	0.139	0.100	0.171	0.226		*Q	0.9979
38) T 4-Chloroaniline	0.134	0.133	0.135	0.133	0.119	0.133	0.132	0.135	0.131	0.132	3.68
39) T Hexachlorobutadiene	0.287	0.237	0.267	0.244	0.218	0.239	0.235	0.237	0.231	0.244	8.47
40) T p-Chloro-m-cresol	0.353	0.335	0.347	0.316	0.278	0.310	0.312	0.328	0.345	0.325	7.23
41) T 2-Methylnaphthalene	0.708	0.611	0.709	0.643	0.571	0.625	0.619	0.635	0.618	0.638	7.02
42) T 1-Methylnaphthalene	0.281	0.262	0.282	0.238	0.215	0.233	0.230	0.233	0.228	0.245	9.96
43) T Hexachlorocyclopentadiene	0.334	0.276	0.315	0.289	0.262	0.298	0.301	0.314	0.310	0.300	7.33
44) T 2,4,6-Trichlorophenol	0.279	0.224	0.250	0.236	0.219	0.252	0.258	0.271	0.272	0.251	8.55
45) T 2,4,5-Trichlorophenol	0.258	0.214	0.233	0.235	0.236	0.263	0.273	0.289	0.293	0.255	10.66
46) S 2-Fluorobiphenyl	1.075	0.922	1.017	0.923	0.824	0.893	0.877	0.899	0.879	0.923	8.35
47) T 2-Chloronaphthalene	0.915	0.720	0.839	0.749	0.679	0.734	0.718	0.733	0.721	0.756	9.69
48) T 2-Nitroaniline	0.133	0.138	0.149	0.146	0.144	0.174	0.188	0.211	0.213	0.166	18.82
49) T 1,4-Dinitrobenzene		0.014	0.011	0.014	0.012	0.015	0.025	0.053	0.099	*Q	1.0000
50) T 1,3-Dinitrobenzene					0.077	0.100	0.106	0.121	0.117	0.104	16.96
51) T Dimethyl phthalate	1.084	0.893	0.956	0.901	0.832	0.903	0.861	0.891	0.856	0.908	8.22
52) T Acenaphthylene	1.387	1.177	1.273	1.160	1.078	1.174	1.171	1.199	1.193	1.201	7.14
53) T 2,6-Dinitrotoluene	0.112	0.110	0.141	0.144	0.137	0.177	0.175	0.177	0.185	0.151	19.16
54) T 1,2-Dinitrobenzene		0.046	0.052	0.052	0.060	0.070	0.077	0.075	0.074	0.063	19.21
55) I IS2_Naphthalene-d8	-----ISTD-----										
56) T a-Terpeneol	0.284	0.221	0.279	0.261	0.252	0.272	0.276	0.325	0.305	0.275	10.91
57) T 3-Chloroaniline	0.123	0.115	0.152	0.150	0.129	0.140	0.141	0.160	0.145	0.139	10.56
58) T 2,6-Dichlorophenol	0.283	0.236	0.265	0.258	0.236	0.264	0.274	0.319	0.295	0.270	9.87
59) T 1-chloro-2-nitrobenzene	0.095	0.092	0.108	0.102	0.099	0.104	0.112	0.133	0.126	0.108	12.82
60) T Caprolactam	0.196	0.156	0.149	0.147	0.136	0.148	0.166	0.200	0.184	0.165	14.22
61) T 1,2,4,5-Tetrachlorobenzene	0.460	0.358	0.442	0.409	0.368	0.381	0.381	0.427	0.388	0.401	8.71
62) T Biphenyl	1.000	0.843	0.967	0.890	0.807	0.844	0.829	0.939	0.848	0.885	7.69
63) I IS1_Acenaphthene-d10	-----ISTD-----										
64) T 3-Nitroaniline	0.247	0.185	0.207	0.227	0.217	0.266	0.293	0.314	0.315	0.252	18.81
65) T Acenaphthene	1.498	1.192	1.163	1.100	0.919	1.022	0.989	1.000	1.032	1.101	15.61
66) T 2,4-Dinitrophenol	0.046	0.075	0.095	0.099	0.095	0.117	0.131	0.164	0.167	*Q	0.9956
67) T Dibenzofuran	2.170	1.878	2.090	1.916	1.548	1.689	1.667	2.098	2.168	1.914	12.29
68) T 2,4-Dinitrotoluene	0.235	0.253	0.260	0.286	0.272	0.331	0.353	0.446	0.491	*Q	0.9979
69) T 4-Nitrophenol	0.180	0.133	0.178	0.179	0.160	0.198	0.216	0.236	0.253	0.192	19.52
70) T 2,3,5,6-Tetrachlorophenol	0.352	0.283	0.362	0.334	0.303	0.354	0.501	0.397	0.401	0.365	17.53
71) T 2,3,4,6-Tetrachlorophenol	0.341	0.270	0.342	0.334	0.302	0.349	0.363	0.399	0.396	0.344	11.94
72) T Diethyl phthalate	1.402	1.330	1.450	1.366	1.180	1.342	1.308	1.422	1.431	1.359	6.11



Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV106
 Calibration dates : 03/11/25 16:50 03/12/25 06:06

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22075

Calibration Files

L1 =ABNL1.D L2 =ABNL2.D L3 =ABNL3.D L4 =ABNL4.D L5 =ABNL5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
73) T Fluorene	1.612	1.458	1.505	1.421	1.191	1.352	1.350	1.395	1.407	1.410	8.22
74) T 4-Chlorophenyl-phenylether	0.907	0.776	0.824	0.747	0.620	0.687	0.681	0.703	0.694	0.738	11.78
75) T 4-Nitroaniline	0.216	0.187	0.227	0.238	0.213	0.260	0.264	0.300	0.304	0.246	16.23
76) T 4,6-Dinitro-o-cresol			0.141	0.133	0.135	0.176	0.191	0.226	0.235	*L	0.9929
77) T NDPA/DPA	1.326	1.129	1.255	1.192	1.056	1.133	1.131	1.176	1.182	1.176	6.70
78) T Azobenzene	1.195	1.034	1.201	1.149	0.990	1.110	1.122	1.143	1.147	1.121	6.20
79) S 2,4,6-Tribromophenol	0.187	0.164	0.208	0.202	0.180	0.214	0.218	0.240	0.238	0.206	12.38
80) T 4-Bromophenyl-phenylether	0.558	0.465	0.502	0.462	0.388	0.440	0.433	0.457	0.463	0.463	10.17
81) T Hexachlorobenzene	0.590	0.600	0.659	0.542	0.450	0.501	0.500	0.525	0.520	0.543	11.65
82) T Pentachlorophenol			0.246	0.237	0.227	0.278	0.300	0.336	0.352	0.282	17.41
83) I IS2_Acenaphthene-d10	-----ISTD-----										
84) T Dichloran					0.086	0.107	0.121	0.165	0.167	*L	0.9986
85) T Pentachloronitrobenzene			0.134	0.111	0.119	0.132	0.147	0.185	0.180	0.144	19.92
86) I IS3_Acenaphthene-d10	-----ISTD-----										
87) T Atrazine	0.371	0.301	0.330	0.306	0.305	0.335	0.385	0.516	0.440	0.366	19.90
88) I IS1_Phenanthrene-d10	-----ISTD-----										
89) T Phenanthrene	1.467	1.201	1.229	1.130	0.984	1.066	1.050	1.070	1.022	1.135	13.04
90) T Anthracene	1.273	1.128	1.218	1.083	0.972	1.086	1.067	1.091	1.049	1.107	8.13
91) T Carbazole	1.007	0.946	1.055	0.993	0.902	0.996	0.987	1.014	1.000	0.989	4.36
92) T Di-n-butylphthalate	1.042	0.879	1.042	0.976	0.931	1.115	1.147	1.464	1.453	1.116	18.90
93) T Fluoranthene	1.518	1.269	1.388	1.260	1.152	1.255	1.257	1.322	1.257	1.298	8.00
94) T Benzidine			0.517	0.579	0.617	0.739	0.782	0.857	0.834	0.704	18.85
95) T Pyrene	1.623	1.313	1.486	1.366	1.236	1.328	1.280	1.330	1.268	1.359	9.00
96) S 4-Terphenyl-d14	1.198	1.044	1.129	1.026	0.928	1.001	0.974	1.018	1.020	1.038	7.80
97) T Butyl benzyl phthalate			0.360	0.335	0.347	0.440	0.470	0.554	0.567	*L	0.9941
98) I IS2_Phenanthrene-d10	-----ISTD-----										
99) T Diphenamid	0.384	0.336	0.383	0.352	0.358	0.426	0.442	0.538	0.495	0.413	16.71
100) I IS3_Phenanthrene-d10	-----ISTD-----										
101) T n-Octadecane	0.465	0.378	0.436	0.423	0.377	0.441	0.479	0.604	0.519	0.458	15.53
102) T Parathion			0.066	0.057	0.051	0.057	0.068	0.107		*Q	1.0000
103) T 3,3'-Dimethylbenzidine					0.486	0.597	0.764	1.061	0.970	*L	0.9945
104) I IS1_Chrysene-d12	-----ISTD-----										
105) T Benzo[a]anthracene	1.484	1.248	1.356	1.216	1.113	1.221	1.268	1.313	1.283	1.278	8.06
106) T 3,3'-Dichlorobenzidine	0.366	0.327	0.409	0.409	0.404	0.457	0.478	0.512	0.498	0.429	14.44
107) T Chrysene	1.563	1.341	1.467	1.269	1.114	1.190	1.140	1.179	1.140	1.267	12.56
108) T bis(2-Ethylhexyl)phthalate			0.435	0.532	0.503	0.541	0.652	0.677	0.758	0.770	*L 0.9961



Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV106
 Calibration dates : 03/11/25 16:50 03/12/25 06:06

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22075

Calibration Files

L1 =ABNL1.D L2 =ABNL2.D L3 =ABNL3.D L4 =ABNL4.D L5 =ABNL5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109) T Di-n-octylphthalate			0.787	0.753	0.799	1.040	1.119	1.350	1.382	*L	0.9931
110) T Benzo(b)fluoranthene	1.371	1.201	1.334	1.447	1.256	1.333	1.253	1.339	1.293	1.314	5.55
111) T Benzo(k)fluoranthene	1.449	1.230	1.429	1.106	1.048	1.187	1.224	1.191	1.137	1.222	11.12
112) T Benzo(a)pyrene	1.200	1.065	1.216	1.142	1.065	1.177	1.159	1.206	1.180	1.157	4.92
113) I IS1_Perylene-d12	-----ISTD-----										
114) T Indeno(1,2,3-cd)pyrene	1.094	0.997	1.068	1.000	0.977	1.136	1.132	1.161	1.045	1.068	6.34
115) T Dibenzo[a,h]anthracene	1.140	0.961	1.119	1.074	0.959	1.097	1.114	1.091	1.009	1.063	6.47
116) T Benzo(g,h,i)perylene	1.131	1.077	1.115	1.076	0.929	1.064	1.072	1.061	0.902	1.047	7.50



Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Calibration dates : 04/16/25 17:27 04/17/25 04:21

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22203

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.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	0.623	0.641	0.748	0.802	0.648	0.670	0.700	0.680	0.657	0.686	8.34
3) t Pyridine	1.198	1.345	1.253	1.154	1.149	1.145	1.196	1.167	1.201	1.201	5.69
4) S 2-Fluorophenol	1.156	1.128	1.093	1.019	0.929	1.017	0.984	0.974	0.944	1.027	7.87
5) T Aniline	1.416	1.465	1.844	1.798	1.694	1.780	1.750	1.705	1.676	1.681	8.74
6) t 2-Chlorophenol	1.329	1.065	1.224	1.092	1.073	1.118	1.126	1.113	1.093	1.137	7.54
7) S Phenol-d6	1.299	1.151	1.195	1.336	1.250	1.293	1.296	1.304	1.275	1.267	4.66
8) T Phenol	1.435	1.662	1.662	1.592	1.440	1.548	1.539	1.509	1.496	1.542	5.44
9) T Bis(2-chloroethyl)ether	0.930	0.996	1.161	1.024	0.972	0.965	0.980	0.988	0.946	0.996	6.80
10) T 1,3-Dichlorobenzene	1.714	1.628	1.685	1.478	1.393	1.427	1.470	1.405	1.379	1.509	8.69
11) T 1,4-Dichlorobenzene	1.953	1.616	1.645	1.559	1.432	1.463	1.467	1.455	1.407	1.555	10.98
12) T 1,2-Dichlorobenzene	1.679	1.408	1.476	1.535	1.363	1.386	1.395	1.409	1.355	1.445	7.23
13) t Benzyl alcohol	1.159	0.998	0.890	0.983	0.957	0.975	1.004	1.054	1.022	1.005	7.34
14) T Bis(2-chloroisopropyl)...	2.461	2.109	2.210	2.168	2.023	2.073	2.076	2.095	2.046	2.140	6.24
15) T 2-Methylphenol	0.835	1.107	1.090	1.016	0.980	1.015	1.008	1.044	1.028	1.014	7.72
16) T Hexachloroethane	0.593	0.457	0.591	0.546	0.500	0.531	0.541	0.530	0.517	0.534	7.95
17) T n-Nitrosodi-n-propylamine	0.735	0.854	0.897	0.969	0.900	0.908	0.940	0.997	0.966	0.907	8.65
18) T 3-Methylphenol/4-Methy...	1.021	1.085	1.060	1.122	1.055	1.096	1.103	1.131	1.101	1.086	3.21
19) S Nitrobenzene-d5	1.425	1.286	1.320	1.349	1.313	1.368	1.372	1.402	1.385	1.358	3.30
20) T Nitrobenzene	1.268	1.344	1.386	1.338	1.292	1.319	1.319	1.351	1.345	1.329	2.60
21) T Isophorone	2.633	2.286	2.448	2.415	2.312	2.386	2.475	2.525	2.492	2.441	4.39
22) T 2-Nitrophenol	0.421	0.579	0.543	0.570	0.585	0.618	0.651	0.655	0.658	0.587	12.73
23) T 2,4-Dimethylphenol	1.065	1.139	1.121	1.158	1.178	1.159	1.227	1.240	1.235	1.169	4.98
24) T Bis(2-chloroethoxy)met...	1.418	1.515	1.532	1.409	1.385	1.394	1.440	1.435	1.416	1.438	3.59
25) T 2,4-Dichlorophenol	1.088	1.121	1.207	1.251	1.173	1.204	1.270	1.292	1.308	1.213	6.22
26) T 1,2,4-Trichlorobenzene	1.750	1.367	1.595	1.563	1.445	1.492	1.478	1.481	1.481	1.517	7.20
27) I IS2_1,4-Dichlorobenzene-d4	-----ISTD-----										
28) T Benzaldehyde	0.668	0.920	0.605	0.970	0.861	0.871	0.902	0.859	0.898	0.839	14.41
29) T Acetophenone	1.362	1.478	1.066	1.625	1.531	1.521	1.586	1.541	1.621	1.481	11.82
30) T m-Toluidine	1.238	1.395	1.488	1.571	1.590	1.660	1.490	1.030			10.30
31) T 2-Chloroaniline	1.065	1.217	0.956	1.395	1.424	1.344	1.459	1.424	1.491	1.308	14.40
32) I IS3_1,4-Dichlorobenzene-d4	-----ISTD-----										
33) T 1,4-Dioxane	0.333	0.463	0.531	0.474	0.449	0.414	0.404	0.394	0.413	0.431	13.11
34) t n-Nitrosodieth	0.244	0.429	0.430	0.421	0.409	0.431	0.444	0.431	0.457	0.411	15.58
35) T n-Decane	1.255	1.429	1.467	1.356	1.385	1.315	1.305	1.268	1.327	1.345	5.30
36) t n-Nitrosopyrro	0.372	0.627	0.473	0.542	0.503	0.501	0.523	0.553	0.573	0.518	13.75



Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Calibration dates : 04/16/25 17:27 04/17/25 04:21

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22203

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37) I IS1_Naphthalene-d8	-----ISTD-----										
38) T Naphthalene	1.194	1.122	1.099	0.996	0.972	0.955	0.989	0.949	0.948	1.025	8.79
39) T Benzoic Acid					0.130	0.172	0.227	0.246	0.259	*L	0.9993
40) T 4-Chloroaniline	0.090	0.160	0.146	0.160	0.141	0.134	0.143	0.143	0.142	0.140	14.64
41) T Hexachlorobuta	0.263	0.228	0.286	0.263	0.243	0.242	0.254	0.249	0.246	0.253	6.57
42) T p-Chloro-m-cresol	0.245	0.252	0.296	0.291	0.286	0.280	0.307	0.301	0.305	0.285	7.82
43) T 2-Methylnaphth	0.631	0.676	0.705	0.666	0.662	0.660	0.678	0.666	0.650	0.666	3.05
44) T 1-Methylnaphth	0.215	0.233	0.234	0.227	0.223	0.222	0.233	0.225	0.224	0.226	2.77
45) T Hexachlorocycl	0.345	0.357	0.335	0.327	0.332	0.328	0.345	0.351	0.350	0.341	3.23
46) T 2,4,6-Trichlor	0.274	0.274	0.288	0.298	0.288	0.293	0.315	0.313	0.314	0.295	5.42
47) T 2,4,5-Trichlor	0.351	0.300	0.331	0.311	0.322	0.319	0.335	0.342	0.338	0.328	4.88
48) S 2-Fluorobiphenyl	1.136	1.059	1.061	1.063	1.035	0.967	1.039	1.011	1.007	1.042	4.54
49) T 2-Chloronaphth	0.800	0.910	0.894	0.843	0.812	0.800	0.841	0.830	0.821	0.839	4.66
50) T 2-Nitroaniline	0.196	0.199	0.199	0.191	0.214	0.211	0.235	0.240	0.243	0.214	9.41
51) T 1,4-Dinitroben	0.076	0.089	0.094	0.111	0.116	0.111	0.131	0.133	0.132	0.110	18.62
52) T 1,3-Dinitroben	0.110	0.129	0.139	0.121	0.130	0.138	0.150	0.148	0.148	0.135	10.15
53) T Dimethyl phtha	1.035	1.030	1.031	0.992	1.002	0.974	1.046	1.009	0.985	1.012	2.48
54) T Acenaphthylene	1.296	1.305	1.300	1.329	1.332	1.312	1.394	1.346	1.332	1.327	2.26
55) T 2,6-Dinitrotol	0.180	0.185	0.195	0.197	0.199	0.210	0.219	0.215	0.221	0.202	7.20
56) T 1,2-Dinitroben		0.077	0.071	0.089	0.080	0.081	0.094	0.091	0.090	0.084	9.63
57) I IS2_Naphthalene-d8	-----ISTD-----										
58) T a-Terpineol	0.254	0.260	0.206	0.316	0.291	0.310	0.325	0.325	0.326	0.290	14.43
59) T 3-Chloroaniline	0.113	0.179	0.099	0.174	0.147	0.152	0.154	0.160	0.158	0.149	17.80
60) T 2,6-Dichlorophenol	0.282	0.304	0.234	0.358	0.345	0.349	0.359	0.362	0.367	0.329	13.93
61) T 1-chloro-2-nitrobenzene	0.111	0.147	0.109	0.152	0.141	0.146	0.148	0.148	0.151	0.139	12.22
62) T Caprolactam				0.144	0.150	0.162	0.181	0.188	0.190	0.169	11.74
63) T 1,2,4,5-Tetrachloroben...	0.459	0.424	0.341	0.509	0.450	0.436	0.463	0.456	0.457	0.444	10.14
64) T Biphenyl	0.900	0.917	0.773	1.036	0.980	0.975	1.007	0.984	0.981	0.950	8.26
65) I IS1_Acenaphthene-d10	-----ISTD-----										
66) T 3-Nitroaniline	0.166	0.280	0.272	0.249	0.271	0.291	0.308	0.306	0.307	0.272	16.42
67) T Acenaphthene	1.044	1.113	1.071	1.090	1.028	1.002	1.022	1.025	1.023	1.046	3.51
68) T 2,4-Dinitrophenol		0.042	0.105	0.126	0.169	0.178	0.215	0.223		*Q	0.9978
69) T Dibenzofuran	2.096	2.025	1.962	1.885	1.831	1.757	1.799	1.752	1.758	1.874	6.79
70) T 2,4-Dinitrotol	0.306	0.340	0.377	0.401	0.427	0.414	0.451	0.442	0.446	0.400	12.61
71) T 4-Nitrophenol	0.210	0.195	0.237	0.245	0.252	0.252	0.279	0.275	0.278	0.247	11.95
72) T 2,3,5,6-Tetrac	0.406	0.350	0.393	0.362	0.410	0.408	0.438	0.433	0.440	0.404	7.88



Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Calibration dates : 04/16/25 17:27 04/17/25 04:21

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22203

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
73) T 2,3,4,6-Tetrachlorophenol	0.387	0.366	0.377	0.423	0.374	0.397	0.419	0.413	0.419	0.397	5.54
74) T Diethyl phthalate	1.462	1.416	1.428	1.387	1.393	1.336	1.443	1.378	1.383	1.403	2.72
75) T Fluorene	1.581	1.463	1.471	1.468	1.463	1.386	1.455	1.412	1.441	1.460	3.68
76) T 4-Chlorophenyl	0.919	0.754	0.836	0.744	0.747	0.675	0.718	0.704	0.710	0.756	10.01
77) T 4-Nitroaniline	0.208	0.225	0.272	0.285	0.311	0.311	0.331	0.317	0.314	0.286	15.16
78) T 4,6-Dinitro-o-			0.192	0.191	0.220	0.259	0.282	0.286	0.304	0.248	18.86
79) T NDPA/DPA	1.466	1.151	1.277	1.278	1.297	1.221	1.296	1.246	1.249	1.275	6.64
80) T Azobenzene	1.348	1.265	1.317	1.295	1.309	1.245	1.314	1.298	1.297	1.299	2.28
81) S 2,4,6-Tribromo	0.182	0.207	0.250	0.215	0.239	0.241	0.255	0.257	0.272	0.235	12.12
82) T 4-Bromophenyl	0.537	0.435	0.541	0.485	0.462	0.452	0.467	0.453	0.468	0.478	7.81
83) T Hexachlorobenzene	0.655	0.597	0.617	0.544	0.528	0.503	0.525	0.511	0.538	0.558	9.45
84) T Pentachlorophenol			0.273	0.259	0.315	0.323	0.356	0.387	0.401	0.331	16.29
85) I IS2_Acenaphthene-d10	-----ISTD-----										
86) T Dichloran				0.185	0.178	0.190	0.205	0.234	0.239	0.205	12.61
87) T Pentachloronitrobenzene		0.146	0.130	0.187	0.191	0.197	0.203	0.213	0.211	0.184	16.52
88) I IS3_Acenaphthene-d10	-----ISTD-----										
89) T Atrazine	0.351	0.407	0.426	0.407	0.422	0.398	0.451	0.468	0.481	0.423	9.32
90) I IS1_Phenanthrene-d10	-----ISTD-----										
91) T Phenanthrene	1.222	1.158	1.236	1.218	1.122	1.092	1.118	1.084	1.101	1.150	5.24
92) T Anthracene	1.120	1.066	1.156	1.163	1.132	1.095	1.152	1.117	1.137	1.127	2.76
93) T Carbazole	1.091	1.055	1.033	1.094	1.055	1.045	1.085	1.035	1.049	1.060	2.23
94) T Di-n-butylphth	1.114	1.034	1.040	1.035	1.077	1.088	1.179	1.171	1.166	1.100	5.44
95) T Fluoranthene	1.372	1.340	1.405	1.361	1.338	1.331	1.385	1.331	1.334	1.355	2.00
96) T Benzidine			0.609	0.715	0.799	0.824	0.936	0.908	0.931	0.817	14.93
97) T Pyrene	1.618	1.426	1.468	1.483	1.458	1.433	1.485	1.411	1.409	1.466	4.36
98) S 4-Terphenyl-d14	1.139	1.125	1.071	1.039	1.035	1.030	1.087	1.051	1.045	1.069	3.75
99) T Butyl benzyl p	0.372	0.432	0.400	0.437	0.482	0.495	0.555	0.562	0.563	0.478	15.10
100) I IS2_Phenanthrene-d10	-----ISTD-----										
101) T Diphenamid	0.379	0.406	0.348	0.461	0.490	0.501	0.516	0.545	0.547	0.466	15.60
102) I IS3_Phenanthrene-d10	-----ISTD-----										
103) T n-Octadecane	0.426	0.328	0.405	0.395	0.378	0.387	0.410	0.406	0.398	0.392	7.06
104) T Parathion				0.075	0.074	0.082	0.098	0.119	0.127	*Q	0.9977
105) T 3,3'-Dimethylb				0.452	0.661	0.715	0.824	0.964	1.014	*L	0.9962
106) I IS1_Chrysene-d12	-----ISTD-----										
107) T Benzo(a)anthra	1.403	1.324	1.338	1.293	1.310	1.287	1.326	1.292	1.248	1.313	3.27
108) T 3,3'-Dichlorob	0.401	0.426	0.436	0.452	0.472	0.472	0.505	0.511	0.504	0.464	8.36



Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Calibration dates : 04/16/25 17:27 04/17/25 04:21

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22203

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109) T Chrysene	1.490	1.463	1.355	1.312	1.238	1.198	1.220	1.200	1.160	1.293	9.29
110) T Bis(2-ethylhex	0.547	0.578	0.582	0.586	0.681	0.700	0.760	0.767	0.750	0.661	13.39
111) T Di-n-octylphth	0.818	0.840	0.880	0.947	1.114	1.157	1.299	1.333	1.280	1.074	19.27
112) T Benzo(b)fluora	1.373	1.282	1.406	1.339	1.335	1.338	1.342	1.295	1.281	1.332	3.11
113) T Benzo(k)fluora	1.335	1.441	1.330	1.426	1.354	1.343	1.320	1.370	1.276	1.355	3.81
114) T Benzo(a)pyrene	1.225	1.288	1.256	1.327	1.247	1.276	1.284	1.285	1.249	1.271	2.38
115) I IS1_Perylene-d12	-----ISTD-----										
116) T Indeno(1,2,3-c	1.205	1.085	1.213	1.247	1.239	1.254	1.271	1.307	1.362	1.242	6.15
117) T Dibenzo(a,h)an	1.070	1.235	1.241	1.221	1.206	1.163	1.199	1.205	1.235	1.197	4.45
118) T Benzo(ghi)pery	1.256	1.169	1.238	1.224	1.173	1.145	1.184	1.186	1.203	1.198	2.97



Response Factor Report SV 106

Method Path : I:\8270\SV106\250311RVTical\
 Method File : FS250311SV106.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Mar 12 12:21:00 2025
 Response Via : Initial Calibration

Calibration Files

L1 =ABNL1.D L2 =ABNL2.D L3 =ABNL3.D L4 =ABNL4.D L5 =ABNL5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.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	0.783	0.639	0.806	0.721	0.661	0.702	0.699	0.722	0.729	0.718	7.31
3) t Pyridine	1.339	1.093	1.529	1.236	1.201	1.149	1.191	1.244	1.273	1.251	10.09
4) S 2-Fluorophenol	1.224	1.069	1.213	1.104	1.001	1.105	1.120	1.164	1.155	1.128	6.20
5) T Aniline	1.435	1.473	1.919	1.836	1.609	1.811	1.825	1.885	1.851	1.738	10.53
6) t 2-Chlorophenol	1.198	1.133	1.316	1.271	1.151	1.200	1.235	1.253	1.205	1.218	4.74
7) S Phenol-d6	1.413	1.195	1.418	1.380	1.214	1.307	1.307	1.353	1.318	1.323	5.98
8) T Phenol	1.689	1.351	1.550	1.470	1.327	1.425	1.435	1.468	1.418	1.459	7.41
9) T bis(2-Chloroethyl)ether	1.263	1.082	1.308	1.252	1.050	1.135	1.126	1.130	1.088	1.159	7.91
10) T 1,3-Dichlorobenzene	1.816	1.456	1.735	1.588	1.418	1.466	1.458	1.484	1.441	1.540	9.30
11) T 1,4-Dichlorobenzene	1.775	1.571	1.744	1.599	1.419	1.539	1.507	1.527	1.489	1.574	7.42
12) T 1,2-Dichlorobenzene	1.478	1.599	1.747	1.530	1.349	1.422	1.422	1.444	1.423	1.490	8.06
13) t Benzyl alcohol	0.936	0.785	0.924	0.877	0.840	0.905	0.944	0.994	0.988	0.910	7.45
14) T bis(2-chloroisopropyl)ether	3.091	2.730	3.138	2.726	2.446	2.605	2.535	2.564	2.500	2.704	9.30
15) T 2-Methylphenol	1.421	1.210	1.452	1.326	1.213	1.227	1.184	1.291	1.220	1.283	7.62
16) T Hexachloroethane	0.595	0.543	0.555	0.568	0.502	0.539	0.536	0.544	0.533	0.546	4.72
17) T n-Nitrosodi-n-propylamine	0.885	0.765	0.920	0.849	0.776	0.846	0.856	0.902	0.894	0.855	6.33
18) T 3-Methylphenol/4-Methylphenol	1.159	1.015	1.134	1.151	1.009	1.108	1.115	1.159	1.141	1.110	5.28
19) S Nitrobenzene-d5	1.074	0.972	1.124	1.108	0.964	1.102	1.139	1.210	1.168	1.096	7.53
20) T Nitrobenzene	1.087	1.017	1.105	1.088	1.032	1.137	1.184	1.229	1.185	1.118	6.41
21) T Isophorone	2.346	2.038	2.466	2.303	2.103	2.283	2.326	2.409	2.386	2.296	6.10
22) T 2-Nitrophenol	0.450	0.400	0.518	0.481	0.457	0.512	0.554	0.609	0.599	0.509	13.74
23) T 2,4-Dimethylphenol	1.252	1.058	1.221	1.170	1.096	1.227	1.222	1.278	1.261	1.198	6.32
24) T bis(2-Chloroethoxy)methane	2.026	1.644	1.872	1.648	1.492	1.468	1.436	1.469	1.695	1.639	12.36
25) T 2,4-Dichlorophenol	1.091	1.055	1.129	1.154	1.018	1.156	1.169	1.237	1.226	1.137	6.43
26) T 1,2,4-Trichlorobenzene	1.699	1.523	1.585	1.484	1.275	1.382	1.375	1.414	1.380	1.457	8.86
27) I IS2_1,4-Dichlorobenzene-d4	-----ISTD-----										
28) T Benzaldehyde	0.817	0.939	1.065	0.956	0.864	0.943	0.930	1.089	0.980	0.954	9.01
29) T Acetophenone	1.654	1.322	1.819	1.638	1.502	1.665	1.613	1.890	1.708	1.646	10.09
30) T m-Toluidine			1.266	1.297	1.394	1.557	1.561	1.856	1.668	1.514	13.95
31) T 2-Chloroaniline	1.346	1.252	1.654	1.465	1.369	1.470	1.496	1.744	1.531	1.481	10.28
32) I IS3_1,4-Dichlorobenzene-d4	-----ISTD-----										
33) t 1,4-Dioxane	0.690	0.570	0.697	0.523	0.467	0.467	0.470	0.547	0.500	0.548	16.44
34) T n-Decane	1.845	1.532	1.881	1.764	1.460	1.569	1.627	1.900	1.719	1.700	9.45
35) I IS1_Naphthalene-d8	-----ISTD-----										
36) T Naphthalene	1.239	1.058	1.194	1.095	0.950	1.020	1.014	1.024	1.003	1.066	8.86
37) T Benzoic Acid			0.144	0.142	0.139	0.100	0.171	0.226		*Q	0.9979
38) T 4-Chloroaniline	0.134	0.133	0.135	0.133	0.119	0.133	0.132	0.135	0.131	0.132	3.68
39) T Hexachlorobutadiene	0.287	0.237	0.267	0.244	0.218	0.239	0.235	0.237	0.231	0.244	8.47
40) T p-Chloro-m-cresol	0.353	0.335	0.347	0.316	0.278	0.310	0.312	0.328	0.345	0.325	7.23
41) T 2-Methylnaphthalene	0.708	0.611	0.709	0.643	0.571	0.625	0.619	0.635	0.618	0.638	7.02
42) T 1-Methylnaphthalene	0.281	0.262	0.282	0.238	0.215	0.233	0.230	0.233	0.228	0.245	9.96
43) T Hexachlorocyclopentadiene	0.334	0.276	0.315	0.289	0.262	0.298	0.301	0.314	0.310	0.300	7.33
44) T 2,4,6-Trichlorophenol	0.279	0.224	0.250	0.236	0.219	0.252	0.258	0.271	0.272	0.251	8.55
45) T 2,4,5-Trichlorophenol	0.258	0.214	0.233	0.235	0.236	0.263	0.273	0.289	0.293	0.255	10.66

Response Factor Report SV 106

Method Path : I:\8270\SV106\250311RVTical\
 Method File : FS250311SV106.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Mar 12 12:21:00 2025
 Response Via : Initial Calibration

Calibration Files

L1 =ABNL1.D L2 =ABNL2.D L3 =ABNL3.D L4 =ABNL4.D L5 =ABNL5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46) S 2-Fluorobiphenyl	1.075	0.922	1.017	0.923	0.824	0.893	0.877	0.899	0.879	0.923	8.35
47) T 2-Chloronaphthalene	0.915	0.720	0.839	0.749	0.679	0.734	0.718	0.733	0.721	0.756	9.69
48) T 2-Nitroaniline	0.133	0.138	0.149	0.146	0.144	0.174	0.188	0.211	0.213	0.166	18.82
49) T 1,4-Dinitrobenzene		0.014	0.011	0.014	0.012	0.015	0.025	0.053	0.099	*Q	1.0000
50) T 1,3-Dinitrobenzene					0.077	0.100	0.106	0.121	0.117	0.104	16.96
51) T Dimethyl phthalate	1.084	0.893	0.956	0.901	0.832	0.903	0.861	0.891	0.856	0.908	8.22
52) T Acenaphthylene	1.387	1.177	1.273	1.160	1.078	1.174	1.171	1.199	1.193	1.201	7.14
53) T 2,6-Dinitrotoluene	0.112	0.110	0.141	0.144	0.137	0.177	0.175	0.177	0.185	0.151	19.16
54) T 1,2-Dinitrobenzene		0.046	0.052	0.052	0.060	0.070	0.077	0.075	0.074	0.063	19.21
55) I IS2_Naphthalene-d8	-----ISTD-----										
56) T a-Terpineol	0.284	0.221	0.279	0.261	0.252	0.272	0.276	0.325	0.305	0.275	10.91
57) T 3-Chloroaniline	0.123	0.115	0.152	0.150	0.129	0.140	0.141	0.160	0.145	0.139	10.56
58) T 2,6-Dichlorophenol	0.283	0.236	0.265	0.258	0.236	0.264	0.274	0.319	0.295	0.270	9.87
59) T 1-chloro-2-nitrobenzene	0.095	0.092	0.108	0.102	0.099	0.104	0.112	0.133	0.126	0.108	12.82
60) T Caprolactam	0.196	0.156	0.149	0.147	0.136	0.148	0.166	0.200	0.184	0.165	14.22
61) T 1,2,4,5-Tetrachlorobenzene	0.460	0.358	0.442	0.409	0.368	0.381	0.381	0.427	0.388	0.401	8.71
62) T Biphenyl	1.000	0.843	0.967	0.890	0.807	0.844	0.829	0.939	0.848	0.885	7.69
63) I IS1_Acenaphthene-d10	-----ISTD-----										
64) T 3-Nitroaniline	0.247	0.185	0.207	0.227	0.217	0.266	0.293	0.314	0.315	0.252	18.81
65) T Acenaphthene	1.498	1.192	1.163	1.100	0.919	1.022	0.989	1.000	1.032	1.101	15.61
66) T 2,4-Dinitrophenol	0.046	0.075	0.095	0.099	0.095	0.117	0.131	0.164	0.167	*Q	0.9956
67) T Dibenzofuran	2.170	1.878	2.090	1.916	1.548	1.689	1.667	2.098	2.168	1.914	12.29
68) T 2,4-Dinitrotoluene	0.235	0.253	0.260	0.286	0.272	0.331	0.353	0.446	0.491	*Q	0.9979
69) T 4-Nitrophenol	0.180	0.133	0.178	0.179	0.160	0.198	0.216	0.236	0.253	0.192	19.52
70) T 2,3,5,6-Tetrachlorophenol	0.352	0.283	0.362	0.334	0.303	0.354	0.501	0.397	0.401	0.365	17.53
71) T 2,3,4,6-Tetrachlorophenol	0.341	0.270	0.342	0.334	0.302	0.349	0.363	0.399	0.396	0.344	11.94
72) T Diethyl phthalate	1.402	1.330	1.450	1.366	1.180	1.342	1.308	1.422	1.431	1.359	6.11
73) T Fluorene	1.612	1.458	1.505	1.421	1.191	1.352	1.350	1.395	1.407	1.410	8.22
74) T 4-Chlorophenyl-phenylether	0.907	0.776	0.824	0.747	0.620	0.687	0.681	0.703	0.694	0.738	11.78
75) T 4-Nitroaniline	0.216	0.187	0.227	0.238	0.213	0.260	0.264	0.300	0.304	0.246	16.23
76) T 4,6-Dinitro-o-cresol			0.141	0.133	0.135	0.176	0.191	0.226	0.235	*L	0.9929
77) T NDPA/DPA	1.326	1.129	1.255	1.192	1.056	1.133	1.131	1.176	1.182	1.176	6.70
78) T Azobenzene	1.195	1.034	1.201	1.149	0.990	1.110	1.122	1.143	1.147	1.121	6.20
79) S 2,4,6-Tribromophenol	0.187	0.164	0.208	0.202	0.180	0.214	0.218	0.240	0.238	0.206	12.38
80) T 4-Bromophenyl-phenylether	0.558	0.465	0.502	0.462	0.388	0.440	0.433	0.457	0.463	0.463	10.17
81) T Hexachlorobenzene	0.590	0.600	0.659	0.542	0.450	0.501	0.500	0.525	0.520	0.543	11.65
82) T Pentachlorophenol			0.246	0.237	0.227	0.278	0.300	0.336	0.352	0.282	17.41
83) I IS2_Acenaphthene-d10	-----ISTD-----										
84) T Dichloran					0.086	0.107	0.121	0.165	0.167	*L	0.9986
85) T Pentachloronitrobenzene			0.134	0.111	0.119	0.132	0.147	0.185	0.180	0.144	19.92
86) I IS3_Acenaphthene-d10	-----ISTD-----										
87) T Atrazine	0.371	0.301	0.330	0.306	0.305	0.335	0.385	0.516	0.440	0.366	19.90
88) I IS1_Phenanthrene-d10	-----ISTD-----										
89) T Phenanthrene	1.467	1.201	1.229	1.130	0.984	1.066	1.050	1.070	1.022	1.135	13.04
90) T Anthracene	1.273	1.128	1.218	1.083	0.972	1.086	1.067	1.091	1.049	1.107	8.13

Response Factor Report SV 106

Method Path : I:\8270\SV106\250311RVTical\
 Method File : FS250311SV106.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Mar 12 12:21:00 2025
 Response Via : Initial Calibration

Calibration Files

L1 =ABNL1.D L2 =ABNL2.D L3 =ABNL3.D L4 =ABNL4.D L5 =ABNL5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91) T	Carbazole	1.007	0.946	1.055	0.993	0.902	0.996	0.987	1.014	1.000	0.989	4.36
92) T	Di-n-butylphthalate	1.042	0.879	1.042	0.976	0.931	1.115	1.147	1.464	1.453	1.116	18.90
93) T	Fluoranthene	1.518	1.269	1.388	1.260	1.152	1.255	1.257	1.322	1.257	1.298	8.00
94) T	Benzidine			0.517	0.579	0.617	0.739	0.782	0.857	0.834	0.704	18.85
95) T	Pyrene	1.623	1.313	1.486	1.366	1.236	1.328	1.280	1.330	1.268	1.359	9.00
96) S	4-Terphenyl-d14	1.198	1.044	1.129	1.026	0.928	1.001	0.974	1.018	1.020	1.038	7.80
97) T	Butyl benzyl phthalate			0.360	0.335	0.347	0.440	0.470	0.554	0.567	*L	0.9941
98) I	IS2_Phenanthrene-d10	-----ISTD-----										
99) T	Diphenamid	0.384	0.336	0.383	0.352	0.358	0.426	0.442	0.538	0.495	0.413	16.71
100) I	IS3_Phenanthrene-d10	-----ISTD-----										
101) T	n-Octadecane	0.465	0.378	0.436	0.423	0.377	0.441	0.479	0.604	0.519	0.458	15.53
102) T	Parathion			0.066	0.057	0.051	0.057	0.068	0.107		*Q	1.0000
103) T	3,3'-Dimethylbenzidine					0.486	0.597	0.764	1.061	0.970	*L	0.9945
104) I	IS1_Chrysene-d12	-----ISTD-----										
105) T	Benzo[a]anthracene	1.484	1.248	1.356	1.216	1.113	1.221	1.268	1.313	1.283	1.278	8.06
106) T	3,3'-Dichlorobenzidine	0.366	0.327	0.409	0.409	0.404	0.457	0.478	0.512	0.498	0.429	14.44
107) T	Chrysene	1.563	1.341	1.467	1.269	1.114	1.190	1.140	1.179	1.140	1.267	12.56
108) T	bis(2-Ethylhexyl)phthalate		0.435	0.532	0.503	0.541	0.652	0.677	0.758	0.770	*L	0.9961
109) T	Di-n-octylphthalate			0.787	0.753	0.799	1.040	1.119	1.350	1.382	*L	0.9931
110) T	Benzo(b)fluoranthene	1.371	1.201	1.334	1.447	1.256	1.333	1.253	1.339	1.293	1.314	5.55
111) T	Benzo(k)fluoranthene	1.449	1.230	1.429	1.106	1.048	1.187	1.224	1.191	1.137	1.222	11.12
112) T	Benzo(a)pyrene	1.200	1.065	1.216	1.142	1.065	1.177	1.159	1.206	1.180	1.157	4.92
113) I	IS1_Perylene-d12	-----ISTD-----										
114) T	Indeno(1,2,3-cd)pyrene	1.094	0.997	1.068	1.000	0.977	1.136	1.132	1.161	1.045	1.068	6.34
115) T	Dibenzo[a,h]anthracene	1.140	0.961	1.119	1.074	0.959	1.097	1.114	1.091	1.009	1.063	6.47
116) T	Benzo(g,h,i)perylene	1.131	1.077	1.115	1.076	0.929	1.064	1.072	1.061	0.902	1.047	7.50

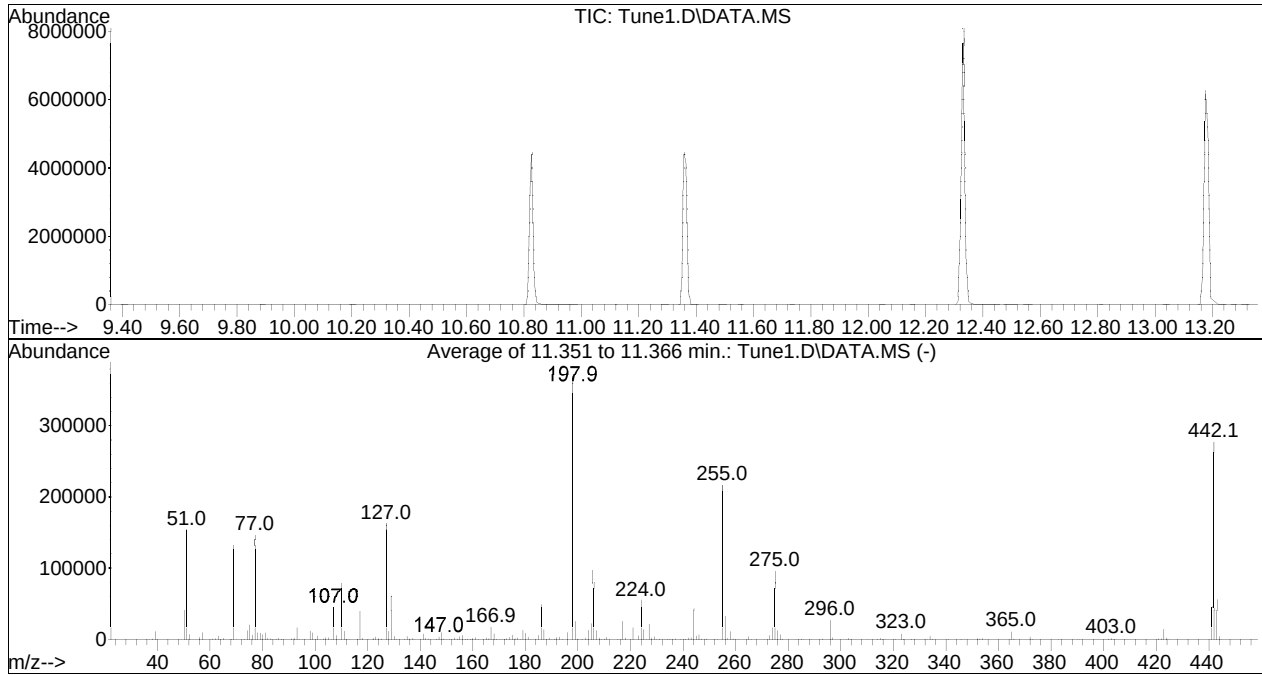
(#) = Out of Range

DFTPP

Data Path : I:\8270\SV106\250311RVTical\
 Data File : Tune1.D
 Acq On : 11 Mar 2025 4:27 pm
 Operator : SV106:ljg
 Sample : Tune1 Lot# 11459
 Misc : WG2039658,,ical
 ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Mar 12 12:21:00 2025



Spectrum Information: Average of 11.351 to 11.366 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.5	153869	PASS
68	69	0.00	2	1.1	1405	PASS
69	69	100	100	100.0	132147	PASS
70	69	0.00	2	0.5	601	PASS
127	198	10	80	43.9	162464	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	370389	PASS
199	198	5	9	6.9	25422	PASS
275	198	10	60	25.9	96095	PASS
365	198	1	100	3.0	11191	PASS
441	442	0.01	24	16.7	46163	PASS
442	198	50	100	74.8	277043	PASS
443	442	15	24	20.0	55370	PASS

Data Path : I:\8270\SV106\250311RVTical\

Data File : Tune1.D

Acq On : 11 Mar 2025 4:27 pm

Operator : SV106:ljj

Sample : Tune1 Lot# 11459

Misc : WG2039658,,ical

ALS Vial : 141 Sample Multiplier: 1

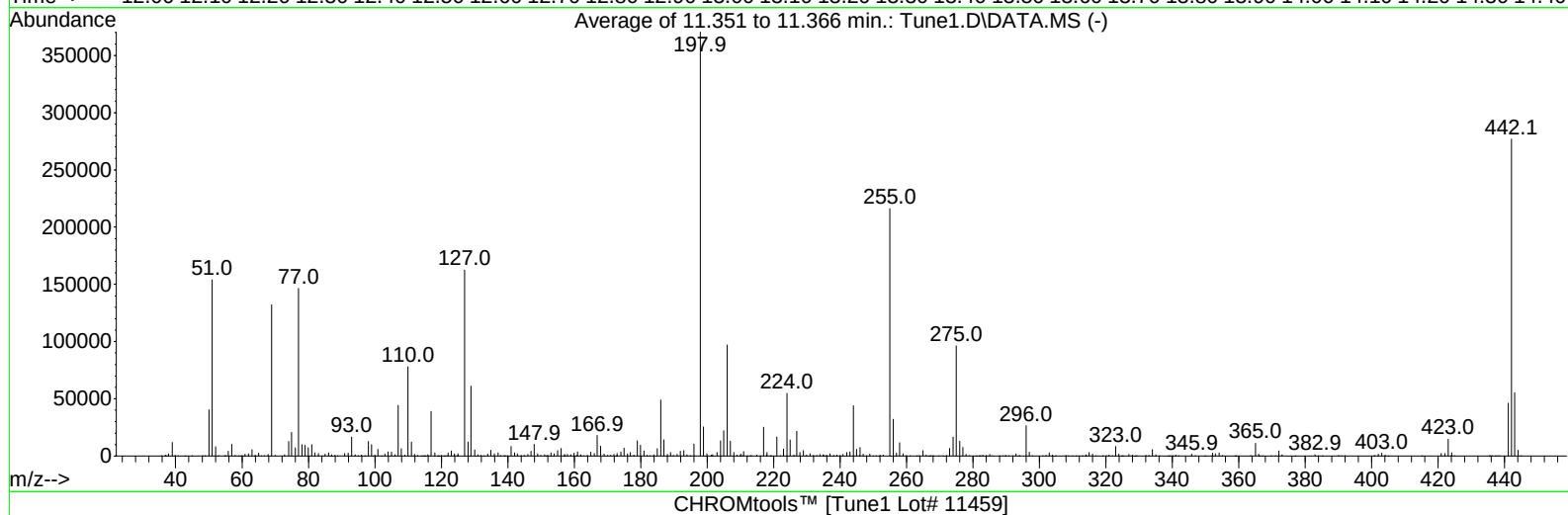
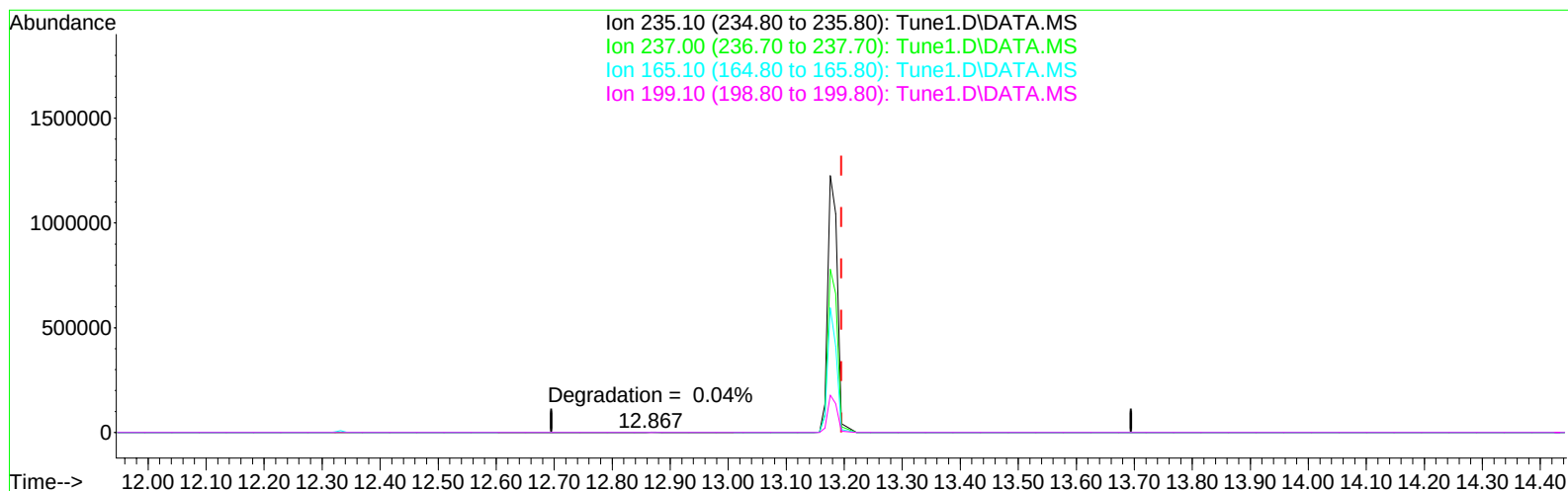
Quant Time: Mar 11 16:46:29 2025

Quant Method : I:\8270\SV106\250311RVTical\DftppSV106.m

Quant Title : Semivolatiles by GC/MS by modified 8270

QLast Update : Thu Mar 06 00:46:17 2025

Response via : Initial Calibration



(6) DDT (T)

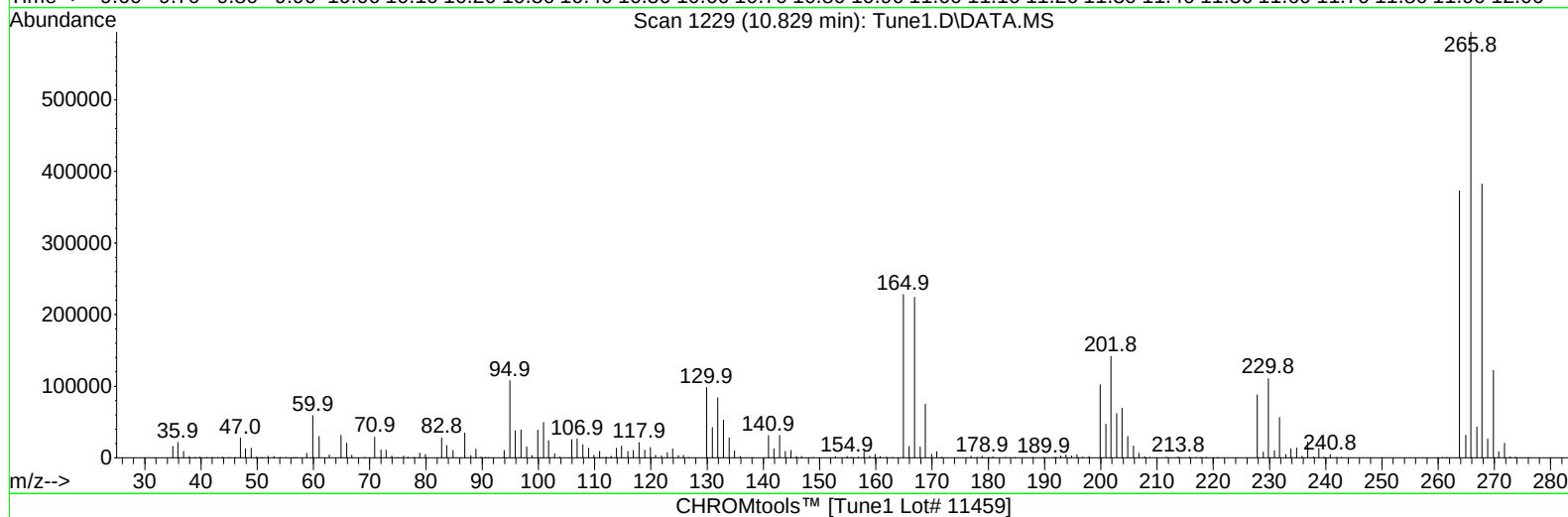
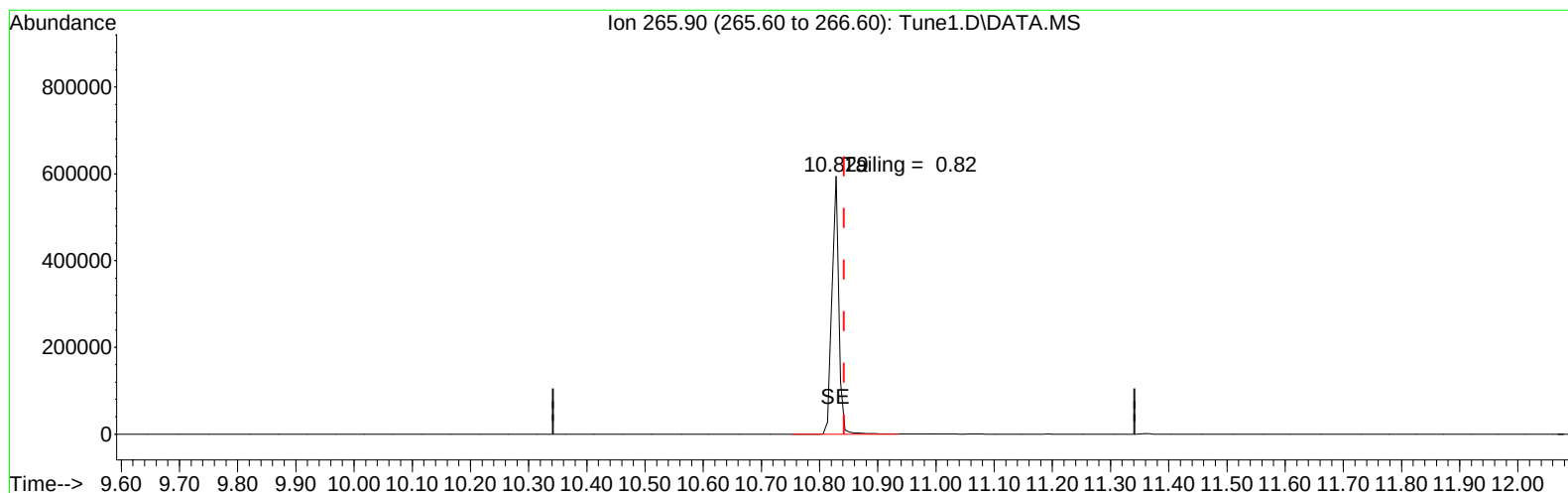
13.176min (-0.019) 251.38

response 1532361

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	64.95
165.10	44.50	43.25
199.10	14.80	14.31

Data Path : I:\8270\SV106\250311RVTical\
Data File : Tune1.D
Acq On : 11 Mar 2025 4:27 pm
Operator : SV106:ljj
Sample : Tune1 Lot# 11459
Misc : WG2039658,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 11 16:46:29 2025
Quant Method : I:\8270\SV106\250311RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 00:46:17 2025
Response via : Initial Calibration



(1) Pentachlorophenol (T)

10.829min (-0.013) 233.79

response 491035

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 (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL9.D
 Acq On : 11 Mar 2025 4:50 pm
 Operator : SV106:ljl
 Sample : IL2,32,,ABNL50 Lot# 11425
 Misc : WG2039658,,ical
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 06:29:44 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	56414	4.000	ug/ml	# 0.00
Standard Area 1 = 55857			Recovery =	101.00%		
35) IS1_Naphthalene-d8	7.790	136	211060	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery =	103.06%		
63) IS1_Acenaphthene-d10	9.561	164	132829	4.000	ug/ml	0.01
Standard Area 1 = 132560			Recovery =	100.20%		
88) IS1_Phenanthrene-d10	10.995	188	274942	4.000	ug/ml	# 0.00
Standard Area 1 = 260564			Recovery =	105.52%		
104) IS1_Chrysene-d12	13.633	240	292872	4.000	ug/ml	0.02
Standard Area 1 = 281321			Recovery =	104.11%		
113) IS1_Perylene-d12	15.095	264	312016	4.000	ug/ml	0.02
Standard Area 1 = 300591			Recovery =	103.80%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.363	112	814728	46.417	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	2320.85%#		
7) Phenol-d6	5.985	99	929330	43.990	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	2199.50%#		
19) Nitrobenzene-d5	7.017	82	823850	42.975	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	4297.50%#		
46) 2-Fluorobiphenyl	8.918	172	2319699	47.487	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	4748.70%#		
79) 2,4,6-Tribromophenol	10.328	330	395303	52.601	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	2630.05%#		
96) 4-Terphenyl-d14	12.585	244	3506305	47.520	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	4752.00%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.990	74	514038	47.945	ug/ml#	83
3) Pyridine	2.019	79	897374	52.209	ug/ml	80
5) Aniline	5.943	93	1304932	52.242	ug/ml	99
6) 2-Chlorophenol	6.087	128	850044	44.148	ug/ml	95
8) Phenol	6.002	94	999952	45.609	ug/ml	98
9) Bis(2-chloroethyl)ether	6.070	93	767083	42.481	ug/ml#	75
10) 1,3-Dichlorobenzene	6.274	146	1015878	43.165	ug/ml	97
11) 1,4-Dichlorobenzene	6.368	146	1049941	43.797	ug/ml	97
12) 1,2-Dichlorobenzene	6.555	146	1003707	43.657	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL9.D
 Acq On : 11 Mar 2025 4:50 pm
 Operator : SV106:ljj
 Sample : IL2,32,,ABNL50 Lot# 11425
 Misc : WG2039658,,ical
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 06:29:44 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	6.572	79	696740	46.599	ug/ml	98
14)	Bis(2-chloroisopropyl)...	6.754	45	1762991	62.078	ug/ml#	68
15)	2-Methylphenol	6.747	108	860451	54.313	ug/ml	86
16)	Hexachloroethane	6.942	117	375982	43.426	ug/ml#	53
17)	n-Nitrosodi-n-propylamine	6.897	70	630754	47.567	ug/ml	94
18)	3-Methylphenol/4-Methy...	6.935	108	804297	46.548	ug/ml	96
20)	Nitrobenzene	7.040	77	835656	42.664	ug/ml	97
21)	Isophorone	7.325	82	1682727	49.384	ug/ml	98
22)	2-Nitrophenol	7.400	139	422717	42.060	ug/ml	89
23)	2,4-Dimethylphenol	7.506	107	889366	56.375	ug/ml	97
24)	Bis(2-chloroethoxy)met...	7.603	93	1195458	52.513	ug/ml	96
25)	2,4-Dichlorophenol	7.667	162	864592	49.044	ug/ml#	94
26)	1,2,4-Trichlorobenzene	7.747	180	973161	47.627	ug/ml	97
36)	Naphthalene	7.811	128	2646005	44.406	ug/ml	99
37)	Benzoic Acid	7.682	105	632143	42.095	ug/ml	94
38)	4-Chloroaniline	7.898	65	345107	51.640	ug/ml	85
39)	Hexachlorobutadiene	7.977	225	608872	48.332	ug/ml	99
40)	p-Chloro-m-cresol	8.431	107	910250	58.235	ug/ml	96
41)	2-Methylnaphthalene	8.528	142	1631008	41.078	ug/ml	95
42)	1-Methylnaphthalene	8.626	115	601863	46.854	ug/ml	98
43)	Hexachlorocyclopentadiene	8.708	237	816572	59.093	ug/ml	98
44)	2,4,6-Trichlorophenol	8.828	196	718596	49.485	ug/ml	99
45)	2,4,5-Trichlorophenol	8.858	196	772320	51.373	ug/ml	98
47)	2-Chloronaphthalene	9.008	162	1902715	45.965	ug/ml	95
48)	2-Nitroaniline	9.128	138	562484	47.736	ug/ml	85
49)	1,4-Dinitrobenzene	9.266	168	260630M3	43.318	ug/ml	
50)	1,3-Dinitrobenzene	9.339	168	308852	46.830	ug/ml#	1
51)	Dimethyl phthalate	9.339	163	2258620	46.804	ug/ml#	99
52)	Acenaphthylene	9.413	152	3147550	51.001	ug/ml	99
53)	2,6-Dinitrotoluene	9.382	165	487004M6	49.637	ug/ml	
54)	1,2-Dinitrobenzene	9.424	168	195142	45.884	ug/ml#	1
64)	3-Nitroaniline	9.540	138	522686	48.729	ug/ml	88
65)	Acenaphthene	9.592	154	1713189	44.587	ug/ml	91
66)	2,4-Dinitrophenol	9.635	184	276500	33.841	ug/ml#	83
67)	Dibenzofuran	9.761	168	3600263	57.921	ug/ml	89
68)	2,4-Dinitrotoluene	9.772	165	815049	58.555	ug/ml	89
69)	4-Nitrophenol	9.729	65	420070	52.950	ug/ml#	25
70)	2,3,5,6-Tetrachlorophenol	9.849	232	665759M3	51.351	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL9.D
 Acq On : 11 Mar 2025 4:50 pm
 Operator : SV106:ljb
 Sample : IL2,32,,ABNL50 Lot# 11425
 Misc : WG2039658,,ical
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 06:29:44 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.891	232	657340	51.372	ug/ml	97
72)	Diethyl phthalate	10.039	149	2375342	47.123	ug/ml	98
73)	Fluorene	10.096	166	2336759	48.136	ug/ml	96
74)	4-Chlorophenyl phenyl ...	10.117	204	1151487	46.213	ug/ml#	86
75)	4-Nitroaniline	10.131	138	505299	46.296	ug/ml	85
76)	4,6-Dinitro-o-cresol	10.166	198	389939	38.916	ug/ml#	62
77)	NDPA/DPA	10.237	169	1963169	46.873	ug/ml	95
78)	Azobenzene	10.265	77	1903913	46.522	ug/ml#	91
80)	4-Bromophenyl phenyl e...	10.586	248	768129	49.764	ug/ml#	82
81)	Hexachlorobenzene	10.632	284	863219	49.389	ug/ml#	80
82)	Pentachlorophenol	10.829	266	584512	55.264	ug/ml	100
89)	Phenanthrene	11.018	178	3512739	43.545	ug/ml	100
90)	Anthracene	11.071	178	3604023	44.805	ug/ml	100
91)	Carbazole	11.237	167	3436562	47.449	ug/ml	99
92)	Di-n-butylphthalate	11.631	149	4992018	55.064	ug/ml#	98
93)	Fluoranthene	12.172	202	4319676	46.434	ug/ml#	92
94)	Benzidine	12.332	184	2865842	53.739	ug/ml#	95
95)	Pyrene	12.388	202	4357129	44.396	ug/ml	100
97)	Butyl benzyl phthalate	13.110	149	1949769	51.156	ug/ml	93
105)	Benzo(a)anthracene	13.625	228	4697248	46.514	ug/ml	100
106)	3,3'-Dichlorobenzidine	13.625	252	1824617	55.000	ug/ml#	96
107)	Chrysene	13.665	228	4173219	43.060	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.752	149	2820117	46.516	ug/ml	95
109)	Di-n-octylphthalate	14.434	149	5058845	50.317	ug/ml#	75
110)	Benzo(b)fluoranthene	14.729	252	4731985	48.561	ug/ml#	93
111)	Benzo(k)fluoranthene	14.760	252	4164174	45.877	ug/ml#	93
112)	Benzo(a)pyrene	15.039	252	4318958M3	51.071	ug/ml	
114)	Indeno(1,2,3-cd)pyrene	16.069	276	4077645M6	43.109	ug/mL	
115)	Dibenzo(a,h)anthracene	16.092	278	3933954	43.729	ug/ml#	88
116)	Benzo(ghi)perylene	16.314	276	3517262	41.757	ug/ml#	86

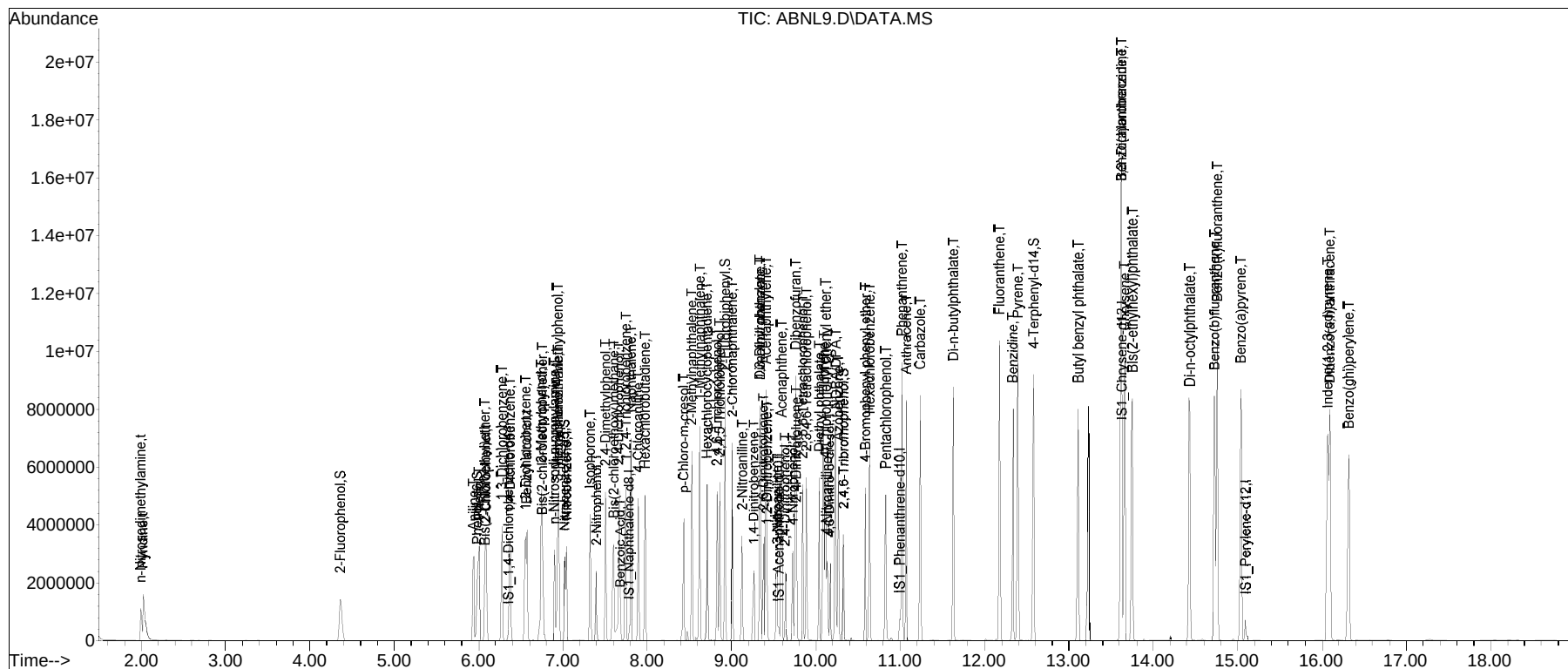
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : I:\8270\SV106\250311RVTical\
Data File  : ABNL9.D
Acq On     : 11 Mar 2025    4:50 pm
Operator   : SV106:l jg
Sample     : IL2, 32,, ABNL50 Lot# 11425
Misc       : WG2039658,, ical
ALS Vial   : 1    Sample Multiplier: 1
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Quant Time: Mar 12 06:29:44 2025
Quant Method : I:\8270\SV106\250311RV\Tical\F250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

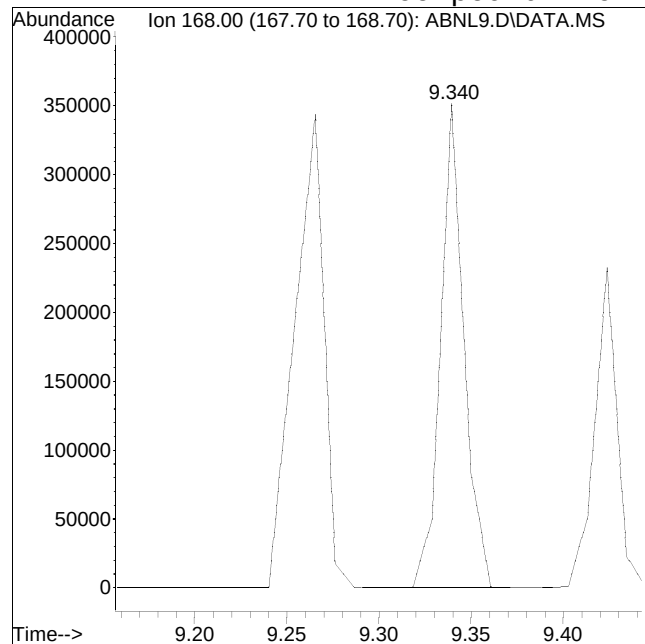
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



Manual Integration Report

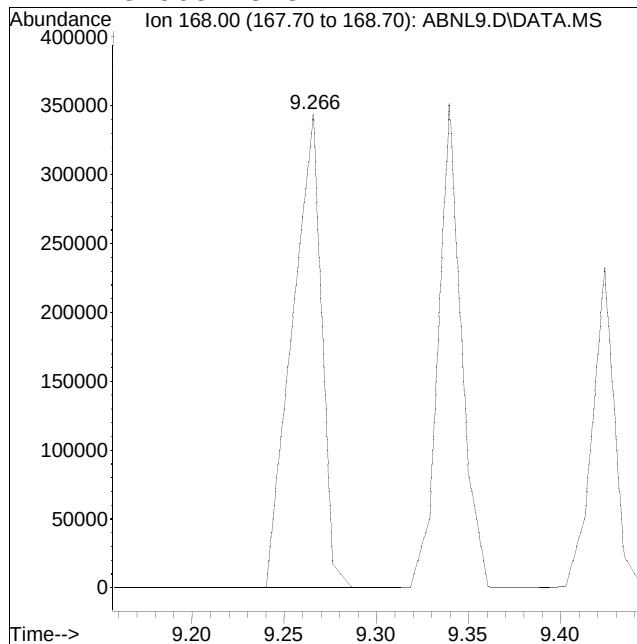
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL9.D Operator : SV106:ljpg
Date Inj'd : 3/11/2025 4:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11425 Quant Date : 3/12/2025 6:14 am

Compound #49: 1,4-Dinitrobenzene



Original Peak Response = 308852

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.

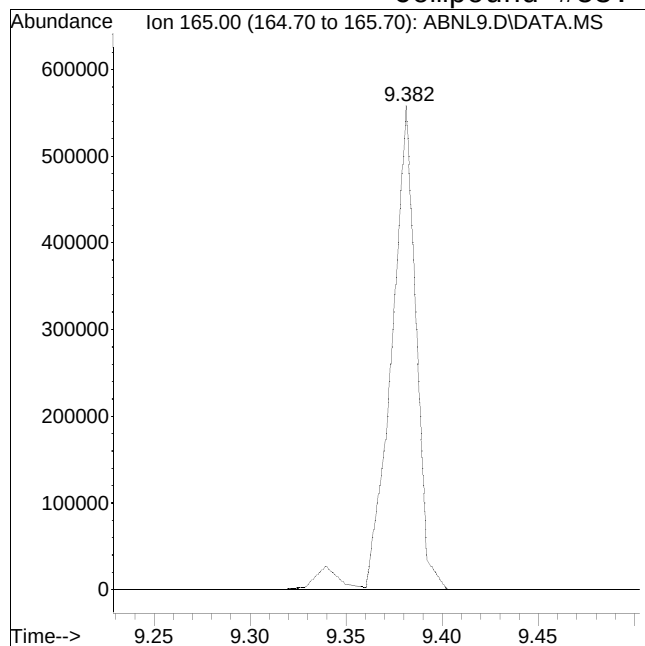


Manual Peak Response = 260630 M3

Manual Integration Report

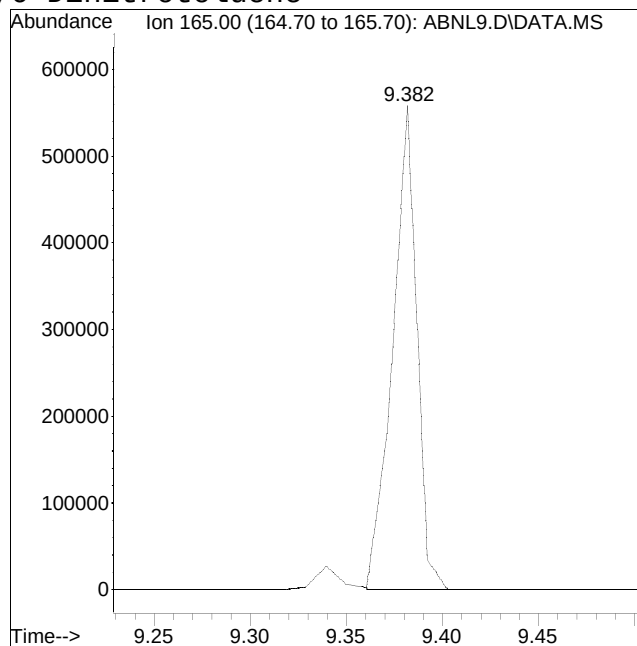
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL9.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 4:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11425 Quant Date : 3/12/2025 6:14 am

Compound #53: 2,6-Dinitrotoluene



Original Peak Response = 512576

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

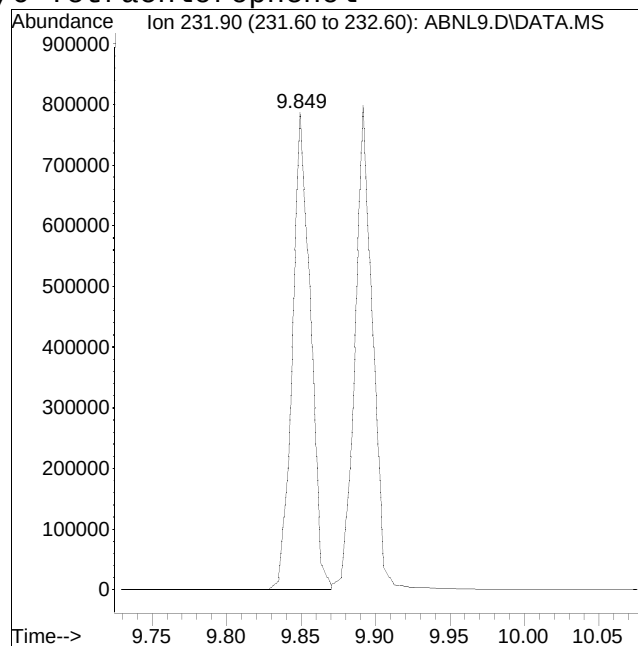
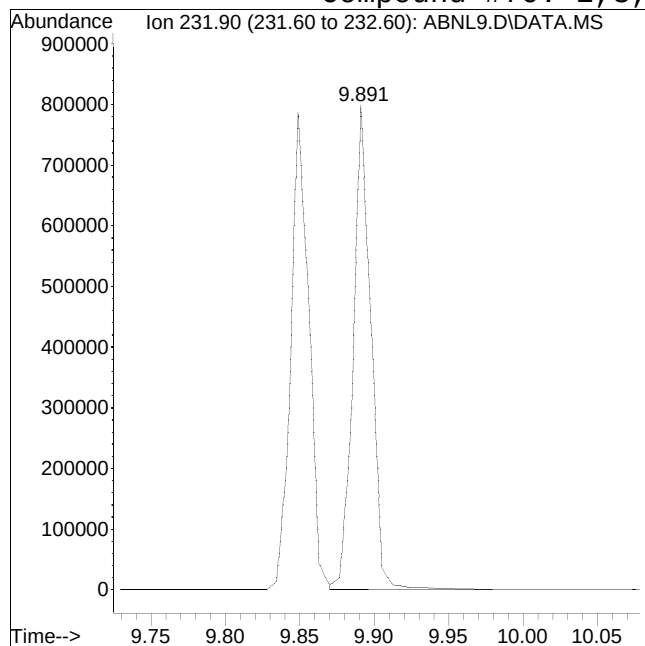


Manual Peak Response = 487004 M6

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL9.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 4:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11425 Quant Date : 3/12/2025 6:14 am

Compound #70: 2,3,5,6-Tetrachlorophenol



Original Peak Response = 657340

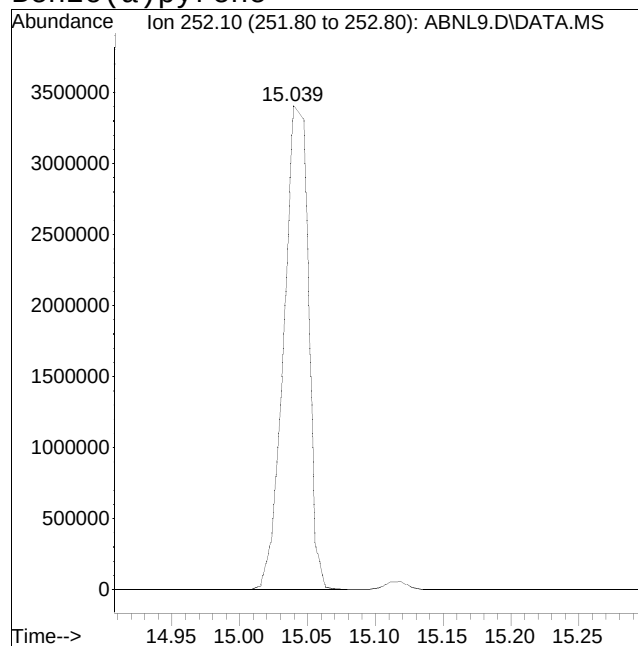
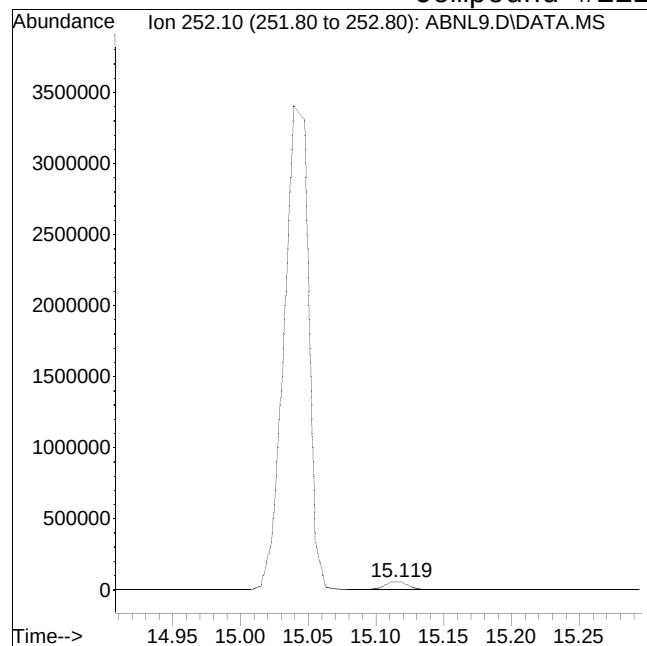
Manual Peak Response = 665759 M3

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\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL9.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 4:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11425 Quant Date : 3/12/2025 6:14 am

Compound #112: Benzo(a)pyrene



Original Peak Response = 78121

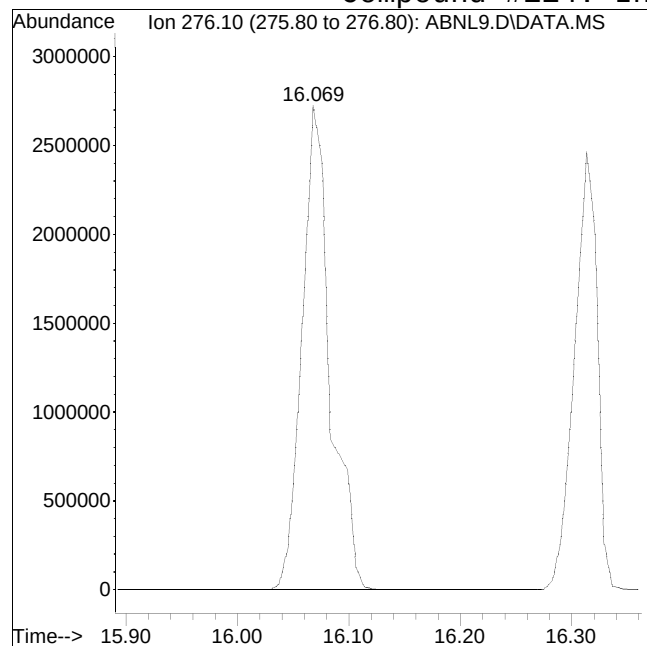
Manual Peak Response = 4318958 M3

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

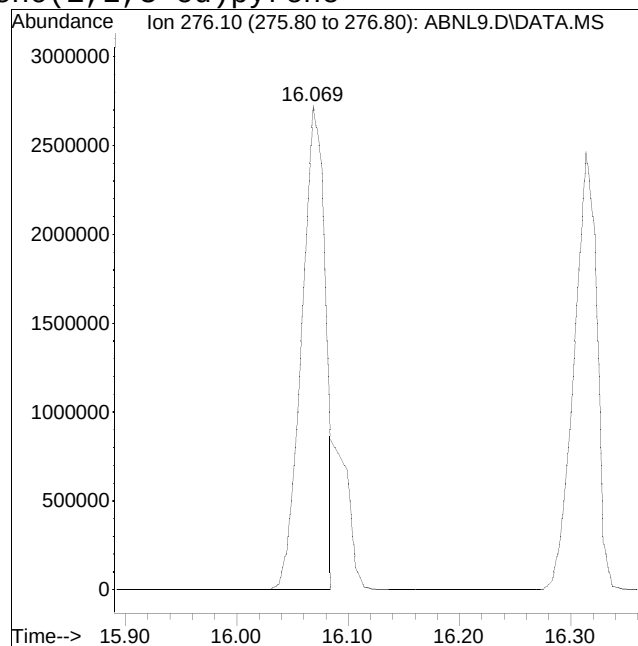
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL9.D Operator : SV106:ljb
Date Inj'd : 3/11/2025 4:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11425 Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 4812701

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



Manual Peak Response = 4077645 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL8.D
 Acq On : 11 Mar 2025 5:14 pm
 Operator : SV106:ljb
 Sample : IL3,32,,ABNL25 Lot# 11426
 Misc : WG2039658,,ical
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 06:28:27 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	54880	4.000	ug/ml	# 0.00
Standard Area 1 = 55857			Recovery =	98.25%		
35) IS1_Naphthalene-d8	7.790	136	204419	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery =	99.82%		
63) IS1_Acenaphthene-d10	9.550	164	127809	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery =	96.42%		
88) IS1_Phenanthrene-d10	10.995	188	261169	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery =	100.23%		
104) IS1_Chrysene-d12	13.625	240	282451	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery =	100.40%		
113) IS1_Perylene-d12	15.087	264	296909	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery =	98.78%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.370	112	399263	23.383	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	1169.15%#		
7) Phenol-d6	5.985	99	464099	22.582	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	1129.10%#		
19) Nitrobenzene-d5	7.017	82	415004	22.253	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	2225.30%#		
46) 2-Fluorobiphenyl	8.918	172	1148043	24.265	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	2426.50%#		
79) 2,4,6-Tribromophenol	10.321	330	191425	26.473	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	1323.65%#		
96) 4-Terphenyl-d14	12.576	244	1662213	23.715	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	2371.50%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.997	74	247797	23.758	ug/ml#	83
3) Pyridine	2.033	79	426611	25.514	ug/ml	83
5) Aniline	5.943	93	646412	26.602	ug/ml	99
6) 2-Chlorophenol	6.087	128	429692	22.940	ug/ml	95
8) Phenol	6.002	94	503505	23.607	ug/ml	98
9) Bis(2-chloroethyl)ether	6.070	93	387688	22.071	ug/ml#	74
10) 1,3-Dichlorobenzene	6.274	146	508954	22.230	ug/ml	97
11) 1,4-Dichlorobenzene	6.376	146	523842	22.462	ug/ml	97
12) 1,2-Dichlorobenzene	6.555	146	495237	22.143	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL8.D
 Acq On : 11 Mar 2025 5:14 pm
 Operator : SV106:ljb
 Sample : IL3,32,,ABNL25 Lot# 11426
 Misc : WG2039658,,ical
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 06:28:27 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.572	79	341006	23.445	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.755	45	879325	31.828	ug/ml#	68
15) 2-Methylphenol	6.739	108	442752	28.729	ug/ml	91
16) Hexachloroethane	6.942	117	186727	22.170	ug/ml#	53
17) n-Nitrosodi-n-propylamine	6.897	70	309547	23.996	ug/ml	95
18) 3-Methylphenol/4-Methy...	6.927	108	397593	23.653	ug/ml	96
20) Nitrobenzene	7.040	77	421476	22.120	ug/ml	97
21) Isophorone	7.318	82	826238	24.926	ug/ml	98
22) 2-Nitrophenol	7.400	139	208890	21.365	ug/ml	90
23) 2,4-Dimethylphenol	7.506	107	438289	28.559	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.595	93	503954	22.756	ug/ml	91
25) 2,4-Dichlorophenol	7.667	162	424352	24.744	ug/ml#	94
26) 1,2,4-Trichlorobenzene	7.747	180	484851	24.392	ug/ml	98
36) Naphthalene	7.811	128	1307693	22.659	ug/ml	99
37) Benzoic Acid	7.639	105	288977	20.552	ug/ml	94
38) 4-Chloroaniline	7.898	65	172808	26.698	ug/ml	87
39) Hexachlorobutadiene	7.977	225	302546	24.796	ug/ml	99
40) p-Chloro-m-cresol	8.424	107	419246	27.693	ug/ml	90
41) 2-Methylnaphthalene	8.529	142	811020	21.090	ug/ml	96
42) 1-Methylnaphthalene	8.626	115	297824	23.938	ug/ml	97
43) Hexachlorocyclopentadiene	8.708	237	400793	29.946	ug/ml	98
44) 2,4,6-Trichlorophenol	8.828	196	345596	24.572	ug/ml	98
45) 2,4,5-Trichlorophenol	8.858	196	369236	25.359	ug/ml	98
47) 2-Chloronaphthalene	9.008	162	936375	23.355	ug/ml	95
48) 2-Nitroaniline	9.128	138	269282	23.596	ug/ml	85
49) 1,4-Dinitrobenzene	9.266	168	67162	11.525	ug/ml#	50
50) 1,3-Dinitrobenzene	9.340	168	155084	24.279	ug/ml#	1
51) Dimethyl phthalate	9.340	163	1137781	24.343	ug/ml#	99
52) Acenaphthylene	9.413	152	1532009	25.630	ug/ml	99
53) 2,6-Dinitrotoluene	9.371	165	226355M6	23.820	ug/ml	
54) 1,2-Dinitrobenzene	9.413	168	95785	23.253	ug/ml#	1
64) 3-Nitroaniline	9.529	138	250728	24.293	ug/ml	92
65) Acenaphthene	9.582	154	798630	21.601	ug/ml	91
66) 2,4-Dinitrophenol	9.635	184	130658	17.227	ug/ml#	80
67) Dibenzofuran	9.761	168	1676280	28.027	ug/ml	91
68) 2,4-Dinitrotoluene	9.761	165	355965	26.578	ug/ml	88
69) 4-Nitrophenol	9.719	65	188136	24.646	ug/ml#	27
70) 2,3,5,6-Tetrachlorophenol	9.849	232	317479M3	25.450	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL8.D
 Acq On : 11 Mar 2025 5:14 pm
 Operator : SV106:ljj
 Sample : IL3,32,,ABNL25 Lot# 11426
 Misc : WG2039658,,ical
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 06:28:27 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.891	232	318972	25.907	ug/ml	99
72)	Diethyl phthalate	10.032	149	1135790	23.417	ug/ml	98
73)	Fluorene	10.089	166	1114170	23.853	ug/ml	96
74)	4-Chlorophenyl phenyl ...	10.110	204	561636	23.426	ug/ml#	87
75)	4-Nitroaniline	10.124	138	239664M6	22.821	ug/ml	
76)	4,6-Dinitro-o-cresol	10.159	198	180916	18.942	ug/ml#	63
77)	NDPA/DPA	10.230	169	939385	23.310	ug/ml	94
78)	Azobenzene	10.265	77	912863	23.182	ug/ml#	90
80)	4-Bromophenyl phenyl e...	10.579	248	365379	24.601	ug/ml#	82
81)	Hexachlorobenzene	10.632	284	419531	24.946	ug/ml#	81
82)	Pentachlorophenol	10.821	266	268650	26.398	ug/ml	99
89)	Phenanthrene	11.018	178	1746300	22.790	ug/ml	99
90)	Anthracene	11.063	178	1781459	23.315	ug/ml	100
91)	Carbazole	11.238	167	1655382	24.061	ug/ml	99
92)	Di-n-butylphthalate	11.631	149	2389757	27.750	ug/ml#	96
93)	Fluoranthene	12.172	202	2157909	24.419	ug/ml#	92
94)	Benzidine	12.322	184	1398190	27.601	ug/ml#	95
95)	Pyrene	12.388	202	2171200	23.290	ug/ml	100
97)	Butyl benzyl phthalate	13.101	149	904168	24.974	ug/ml	86
105)	Benzo(a)anthracene	13.617	228	2318562	23.806	ug/ml	100
106)	3,3'-Dichlorobenzidine	13.617	252	903815	28.249	ug/ml#	96
107)	Chrysene	13.657	228	2080936	22.264	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.744	149	1337881	22.882	ug/ml	95
109)	Di-n-octylphthalate	14.426	149	2382433	24.571	ug/ml#	76
110)	Benzo(b)fluoranthene	14.721	252	2364370	25.159	ug/ml#	93
111)	Benzo(k)fluoranthene	14.752	252	2102995	24.024	ug/ml#	93
112)	Benzo(a)pyrene	15.031	252	2129092M3	26.105	ug/ml	
114)	Indeno(1,2,3-cd)pyrene	16.061	276	2155023M6	23.942	ug/mL	
115)	Dibenzo(a,h)anthracene	16.084	278	2023783	23.641	ug/ml#	88
116)	Benzo(ghi)perylene	16.306	276	1968083	24.554	ug/ml#	86

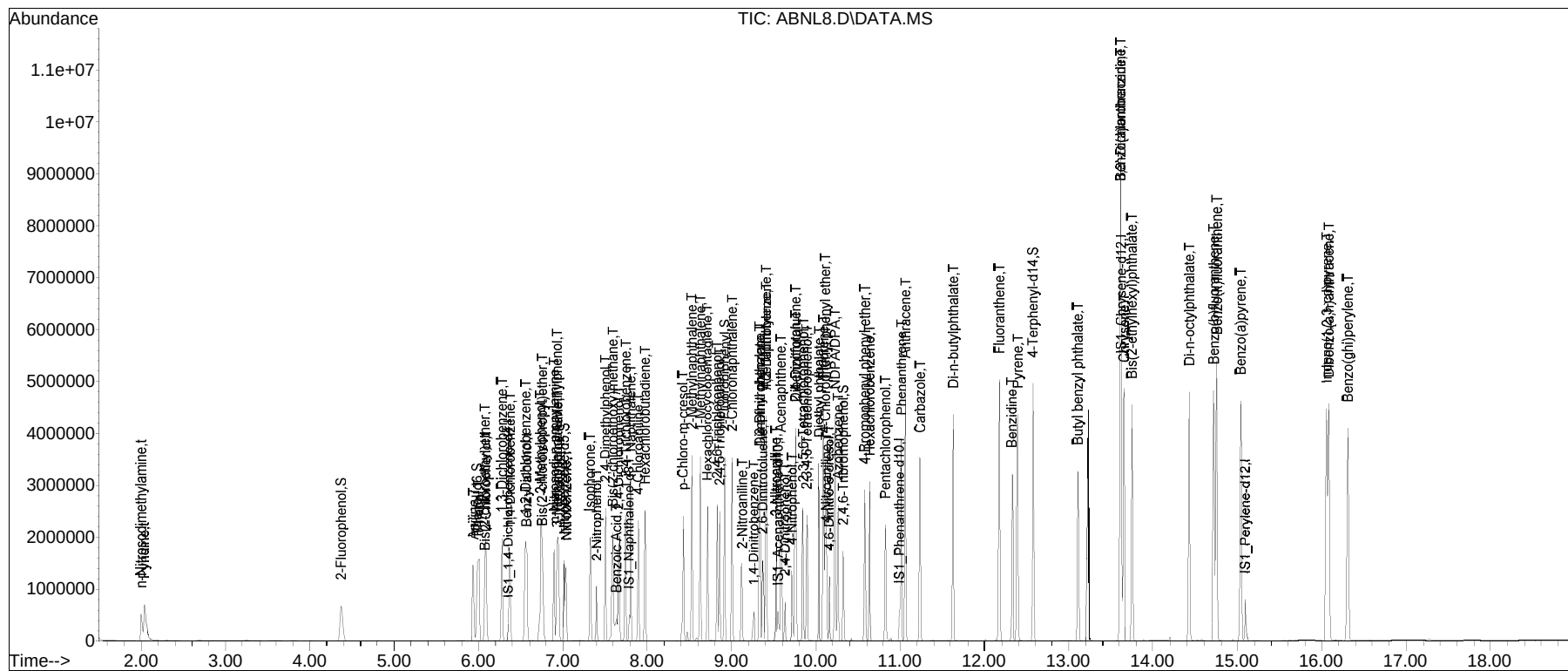
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL8.D
Acq On : 11 Mar 2025 5:14 pm
Operator : SV106:lvg
Sample : IL3,32,,ABNL25 Lot# 11426
Misc : WG2039658,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 06:28:27 2025
Quant Method : I:\8270\SV106\250311RVTical\F250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

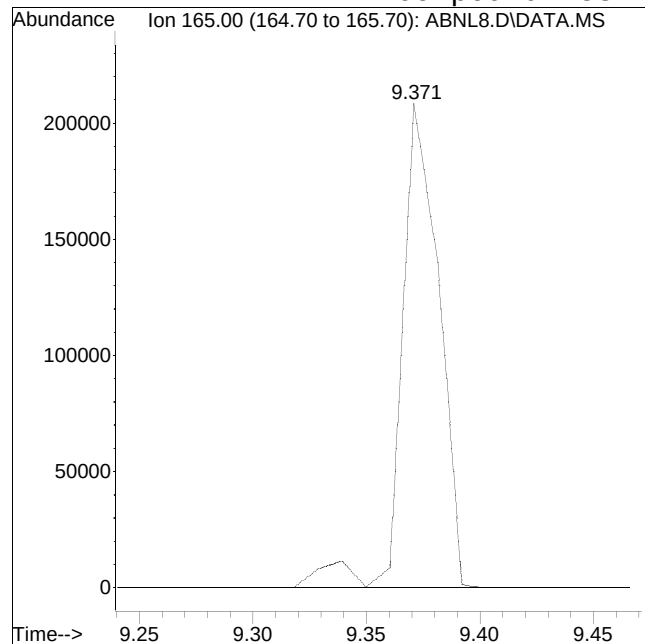
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



Manual Integration Report

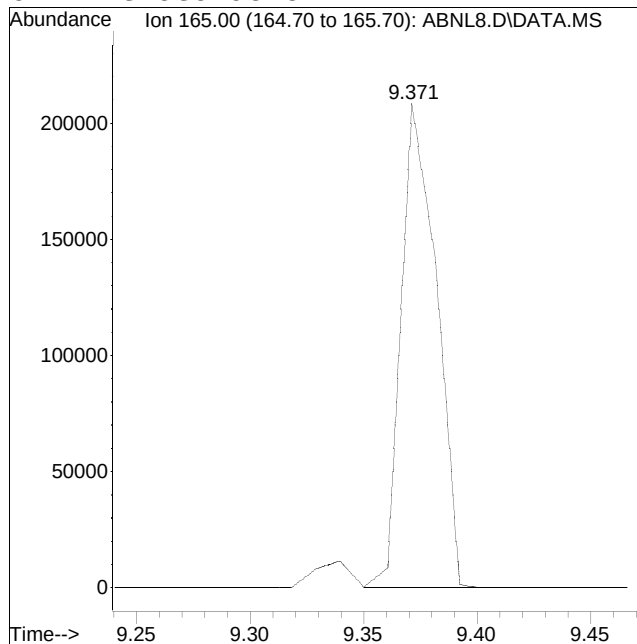
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL8.D Operator : SV106:ljpg
Date Inj'd : 3/11/2025 5:14 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11426 Quant Date : 3/12/2025 6:14 am

Compound #53: 2,6-Dinitrotoluene



Original Peak Response = 239105

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

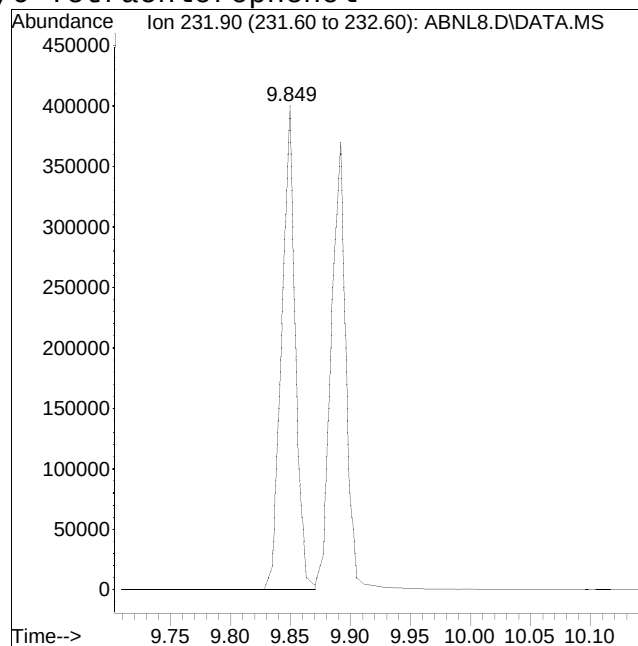
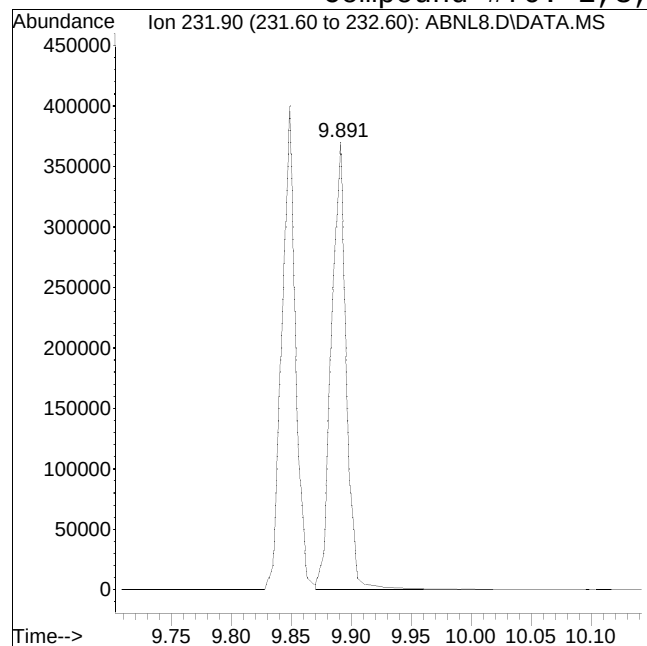


Manual Peak Response = 226355 M6

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL8.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 5:14 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11426 Quant Date : 3/12/2025 6:14 am

Compound #70: 2,3,5,6-Tetrachlorophenol



Original Peak Response = 318972

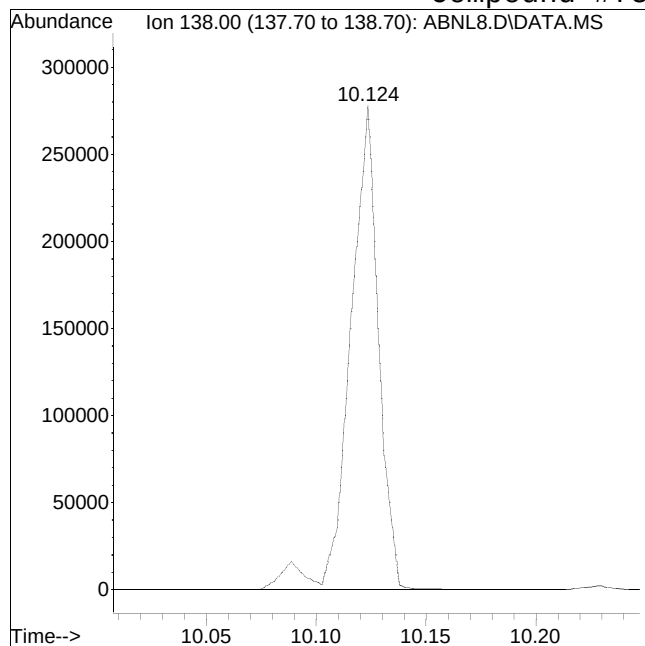
Manual Peak Response = 317479 M3

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

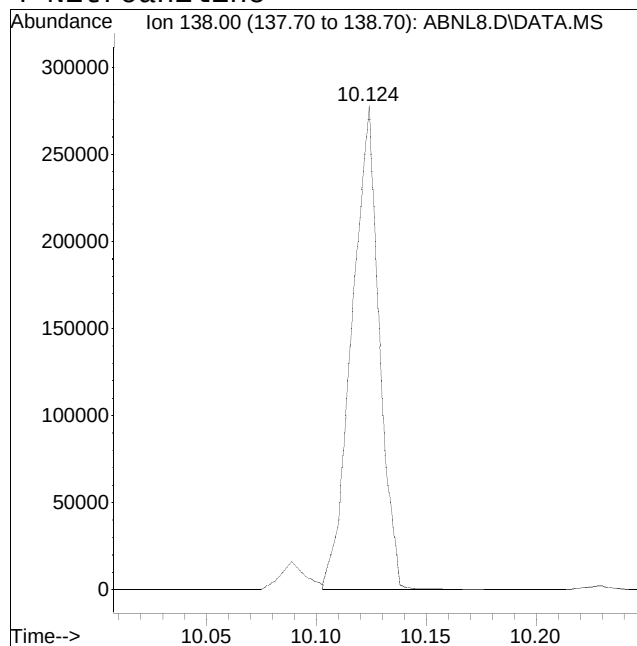
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL8.D Operator : SV106:ljb
Date Inj'd : 3/11/2025 5:14 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11426 Quant Date : 3/12/2025 6:14 am

Compound #75: 4-Nitroaniline



Original Peak Response = 253276

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

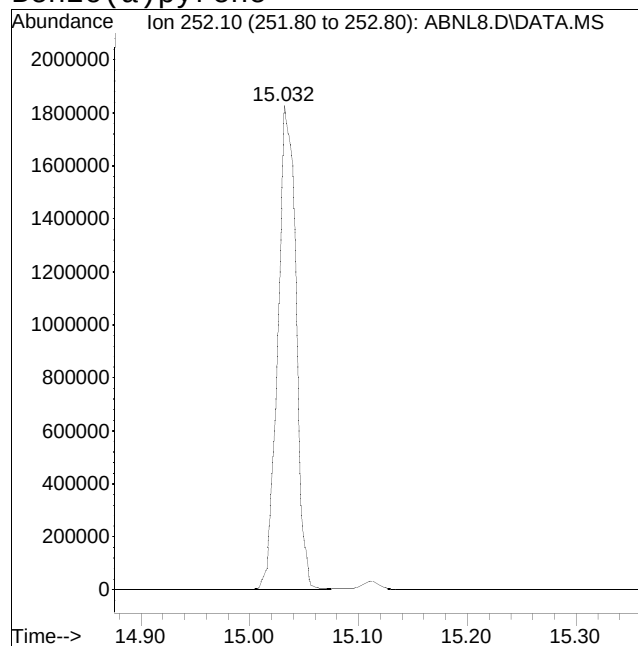
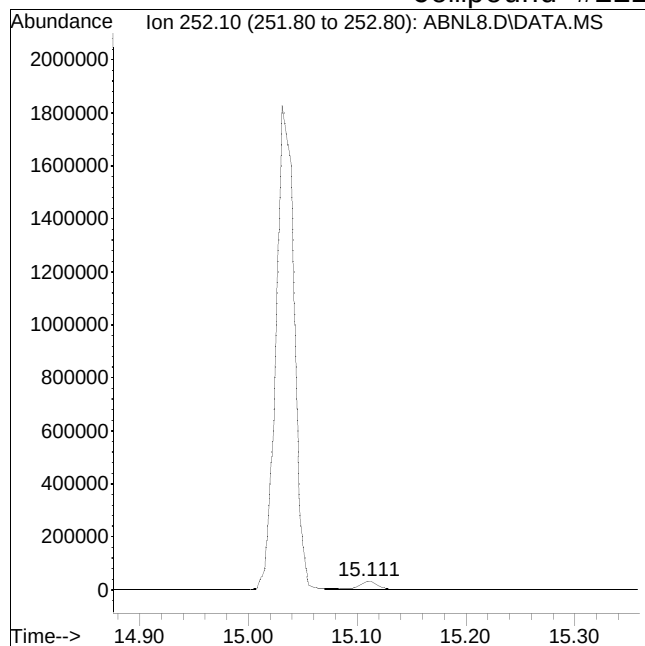


Manual Peak Response = 239664 M6

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL8.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 5:14 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11426 Quant Date : 3/12/2025 6:14 am

Compound #112: Benzo(a)pyrene



Original Peak Response = 37871

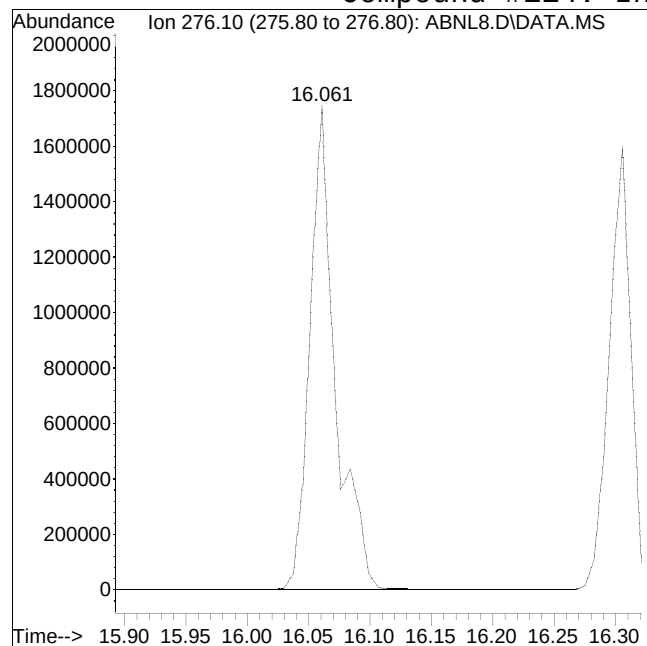
Manual Peak Response = 2129092 M3

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

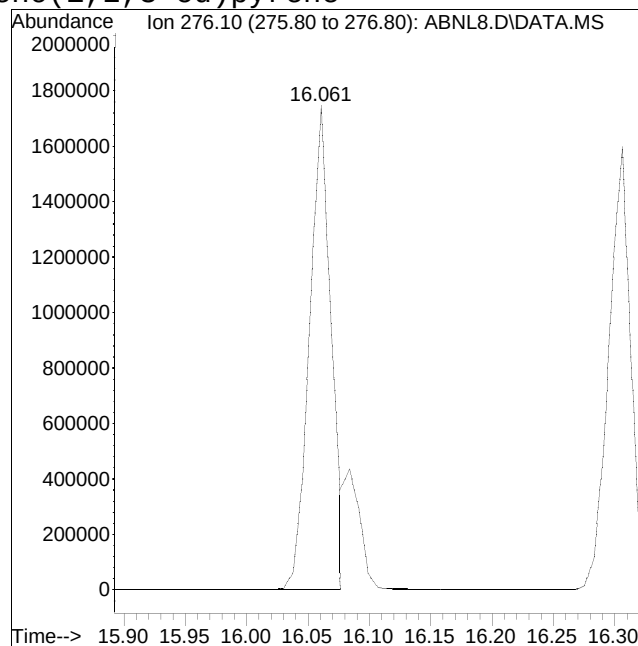
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL8.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 5:14 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11426 Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 2530018

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



Manual Peak Response = 2155023 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL7.D
 Acq On : 11 Mar 2025 5:37 pm
 Operator : SV106:ljpg
 Sample : IL4,32,,ABNL10 Lot# 11427
 Misc : WG2039658,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 12 06:26:23 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	55103	4.000	ug/ml	# 0.00
Standard Area 1 = 55857			Recovery =	98.65%		
35) IS1_Naphthalene-d8	7.790	136	202673	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery =	98.97%		
63) IS1_Acenaphthene-d10	9.550	164	128980	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery =	97.30%		
88) IS1_Phenanthrene-d10	10.988	188	256960	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery =	98.62%		
104) IS1_Chrysene-d12	13.625	240	272545	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery =	96.88%		
113) IS1_Perylene-d12	15.087	264	285732	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery =	95.06%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.377	112	154257	8.998	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	449.90%#		
7) Phenol-d6	5.985	99	180064	8.726	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	436.30%#		
19) Nitrobenzene-d5	7.017	82	156883	8.378	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	837.80%#		
46) 2-Fluorobiphenyl	8.911	172	444349	9.473	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	947.30%#		
79) 2,4,6-Tribromophenol	10.321	330	70259	9.628	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	481.40%#		
96) 4-Terphenyl-d14	12.576	244	625921	9.076	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	907.60%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	2.004	74	96353	9.201	ug/ml	84
3) Pyridine	2.048	79	164108	9.775	ug/ml	80
5) Aniline	5.943	93	251454	10.306	ug/ml	99
6) 2-Chlorophenol	6.087	128	170071	9.043	ug/ml	94
8) Phenol	5.994	94	197664	9.230	ug/ml	98
9) Bis(2-chloroethyl)ether	6.079	93	155116	8.795	ug/ml#	75
10) 1,3-Dichlorobenzene	6.274	146	200867	8.738	ug/ml	97
11) 1,4-Dichlorobenzene	6.376	146	207651	8.868	ug/ml	97
12) 1,2-Dichlorobenzene	6.555	146	195867	8.722	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL7.D
 Acq On : 11 Mar 2025 5:37 pm
 Operator : SV106:ljj
 Sample : IL4,32,,ABNL10 Lot# 11427
 Misc : WG2039658,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 12 06:26:23 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	6.572	79	129988	8.901	ug/ml	98
14)	Bis(2-chloroisopropyl)...	6.754	45	349167	12.587	ug/ml#	68
15)	2-Methylphenol	6.739	108	163144	10.543	ug/ml#	82
16)	Hexachloroethane	6.942	117	73789	8.725	ug/ml#	53
17)	n-Nitrosodi-n-propylamine	6.897	70	117860	9.100	ug/ml	94
18)	3-Methylphenol/4-Methy...	6.927	108	153638	9.103	ug/ml	98
20)	Nitrobenzene	7.040	77	163114	8.526	ug/ml	98
21)	Isophorone	7.318	82	320458	9.628	ug/ml	99
22)	2-Nitrophenol	7.400	139	76302	7.773	ug/ml	90
23)	2,4-Dimethylphenol	7.506	107	168277	10.921	ug/ml	98
24)	Bis(2-chloroethoxy)met...	7.595	93	197764	8.894	ug/ml	98
25)	2,4-Dichlorophenol	7.660	162	160984	9.349	ug/ml#	94
26)	1,2,4-Trichlorobenzene	7.747	180	189475	9.494	ug/ml	97
36)	Naphthalene	7.811	128	513661	8.977	ug/ml	99
37)	Benzoic Acid	7.603	105	86826	7.130	ug/ml	95
38)	4-Chloroaniline	7.898	65	66635	10.384	ug/ml	84
39)	Hexachlorobutadiene	7.977	225	119161	9.850	ug/ml	99
40)	p-Chloro-m-cresol	8.424	107	158212	10.541	ug/ml#	90
41)	2-Methylnaphthalene	8.528	142	313464	8.222	ug/ml	95
42)	1-Methylnaphthalene	8.626	115	116656	9.457	ug/ml	97
43)	Hexachlorocyclopentadiene	8.708	237	152567	11.498	ug/ml	99
44)	2,4,6-Trichlorophenol	8.828	196	130771	9.378	ug/ml	99
45)	2,4,5-Trichlorophenol	8.858	196	138125	9.568	ug/ml	97
47)	2-Chloronaphthalene	9.008	162	363990	9.157	ug/ml	95
48)	2-Nitroaniline	9.120	138	95462	8.437	ug/ml	86
49)	1,4-Dinitrobenzene	9.266	168	12883M3	2.230	ug/ml	
50)	1,3-Dinitrobenzene	9.329	168	53928	8.515	ug/ml#	1
51)	Dimethyl phthalate	9.329	163	436059	9.410	ug/ml#	99
52)	Acenaphthylene	9.413	152	593387	10.013	ug/ml	99
53)	2,6-Dinitrotoluene	9.371	165	88502	9.394	ug/ml#	79
54)	1,2-Dinitrobenzene	9.413	168	38765	9.492	ug/ml#	1
64)	3-Nitroaniline	9.529	138	94430	9.066	ug/ml	90
65)	Acenaphthene	9.582	154	318795	8.544	ug/ml	91
66)	2,4-Dinitrophenol	9.624	184	42329	6.341	ug/ml#	83
67)	Dibenzofuran	9.751	168	537431	8.904	ug/ml	94
68)	2,4-Dinitrotoluene	9.761	165	113785	8.419	ug/ml#	84
69)	4-Nitrophenol	9.719	65	69782	9.059	ug/ml#	76
70)	2,3,5,6-Tetrachlorophenol	9.849	232	161653M3	12.841	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL7.D
 Acq On : 11 Mar 2025 5:37 pm
 Operator : SV106:ljj
 Sample : IL4,32,,ABNL10 Lot# 11427
 Misc : WG2039658,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 12 06:26:23 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.891	232	117178	9.431	ug/ml	97
72)	Diethyl phthalate	10.025	149	421805	8.618	ug/ml	98
73)	Fluorene	10.089	166	435177	9.232	ug/ml	97
74)	4-Chlorophenyl phenyl ...	10.110	204	219610	9.077	ug/ml#	86
75)	4-Nitroaniline	10.117	138	85077M6	8.027	ug/ml	
76)	4,6-Dinitro-o-cresol	10.152	198	61656	6.623	ug/ml#	63
77)	NDPA/DPA	10.223	169	364639	8.966	ug/ml	95
78)	Azobenzene	10.258	77	361637	9.100	ug/ml#	91
80)	4-Bromophenyl phenyl e...	10.579	248	139667	9.319	ug/ml#	83
81)	Hexachlorobenzene	10.632	284	161066	9.490	ug/ml#	80
82)	Pentachlorophenol	10.821	266	96824	9.428	ug/ml	99
89)	Phenanthrene	11.010	178	674340	8.944	ug/ml	99
90)	Anthracene	11.063	178	685128	9.113	ug/ml	100
91)	Carbazole	11.230	167	634344	9.371	ug/ml	100
92)	Di-n-butylphthalate	11.631	149	736778	8.696	ug/ml	98
93)	Fluoranthene	12.163	202	807618	9.289	ug/ml#	92
94)	Benzidine	12.322	184	502505	10.082	ug/ml#	95
95)	Pyrene	12.379	202	821987	8.962	ug/ml	99
97)	Butyl benzyl phthalate	13.101	149	301836	8.473	ug/ml	86
105)	Benzo(a)anthracene	13.609	228	863894	9.193	ug/ml	100
106)	3,3'-Dichlorobenzidine	13.617	252	326001	10.560	ug/ml#	96
107)	Chrysene	13.649	228	776841	8.613	ug/ml	100
108)	Bis(2-ethylhexyl)phtha...	13.744	149	460960	8.170	ug/ml	95
109)	Di-n-octylphthalate	14.426	149	762488	8.150	ug/ml#	76
110)	Benzo(b)fluoranthene	14.721	252	853895	9.417	ug/ml#	93
111)	Benzo(k)fluoranthene	14.744	252	834031	9.874	ug/ml#	93
112)	Benzo(a)pyrene	15.031	252	789869	10.037	ug/ml#	93
114)	Indeno(1,2,3-cd)pyrene	16.053	276	808275M6	9.331	ug/mL	
115)	Dibenzo(a,h)anthracene	16.076	278	795853	9.660	ug/ml#	89
116)	Benzo(ghi)perylene	16.298	276	765755	9.927	ug/ml#	86

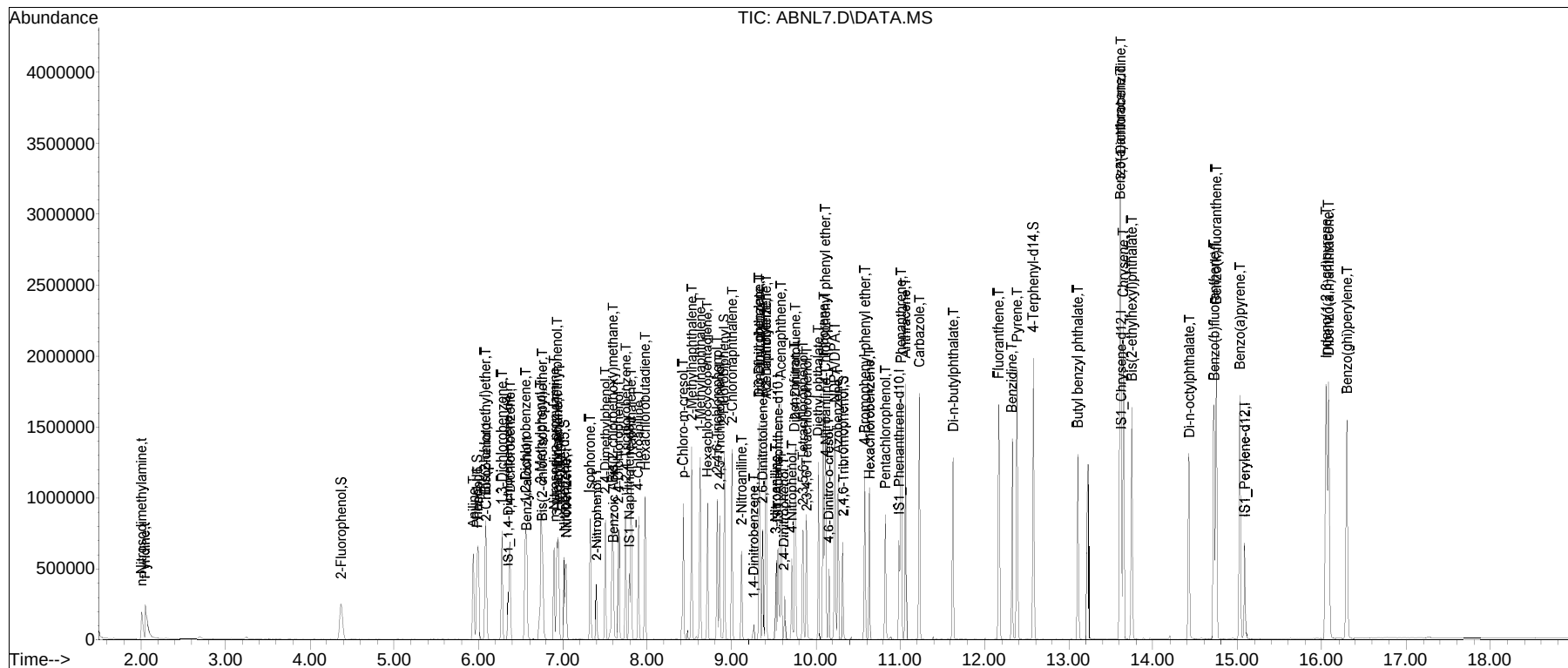
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL7.D
Acq On    : 11 Mar 2025    5:37 pm
Operator  : SV106:lvg
Sample    : IL4,32,,ABNL10 Lot# 11427
Misc      : WG2039658,,ical
ALS Vial  : 3    Sample Multiplier: 1
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Quant Time: Mar 12 06:26:23 2025
Quant Method : I:\8270\SV106\250311RV\Tical\F250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

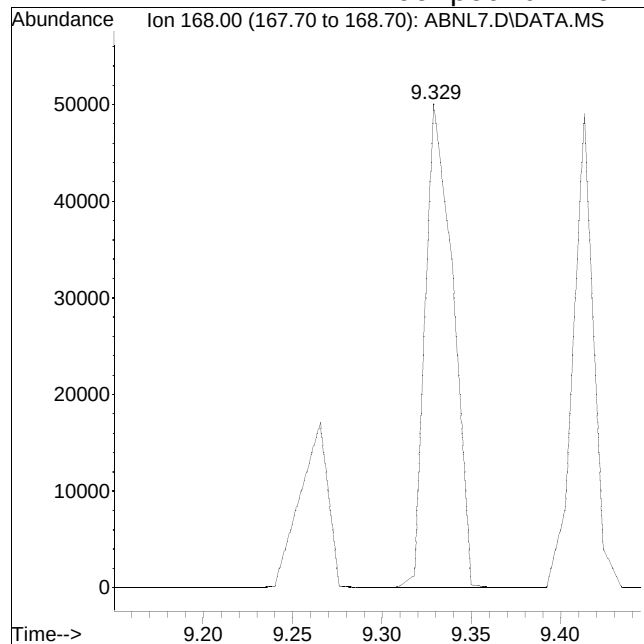
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



Manual Integration Report

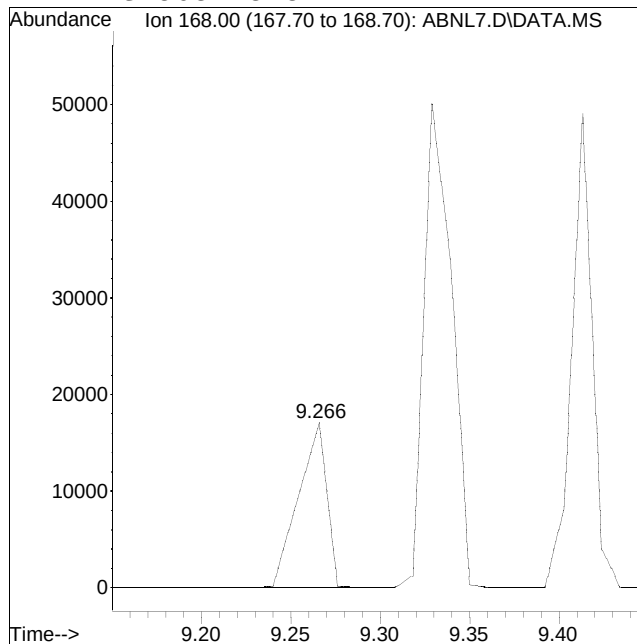
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL7.D Operator : SV106:ljpg
Date Inj'd : 3/11/2025 5:37 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 11427 Quant Date : 3/12/2025 6:14 am

Compound #49: 1,4-Dinitrobenzene



Original Peak Response = 53928

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.

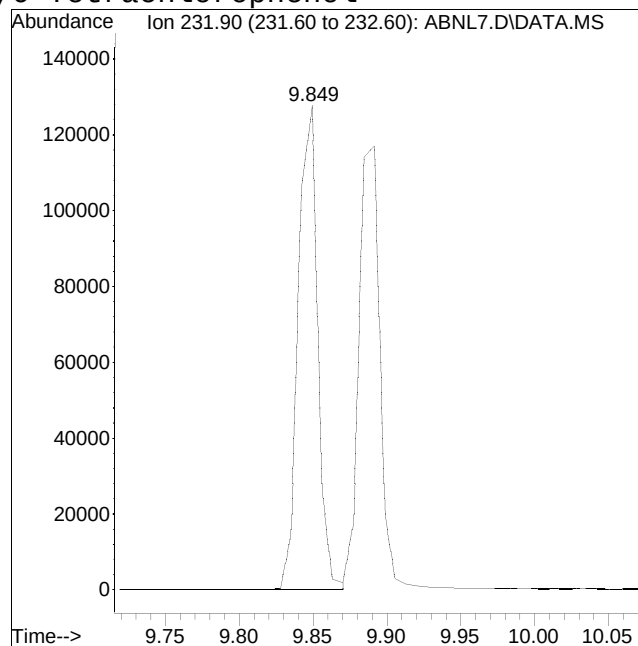
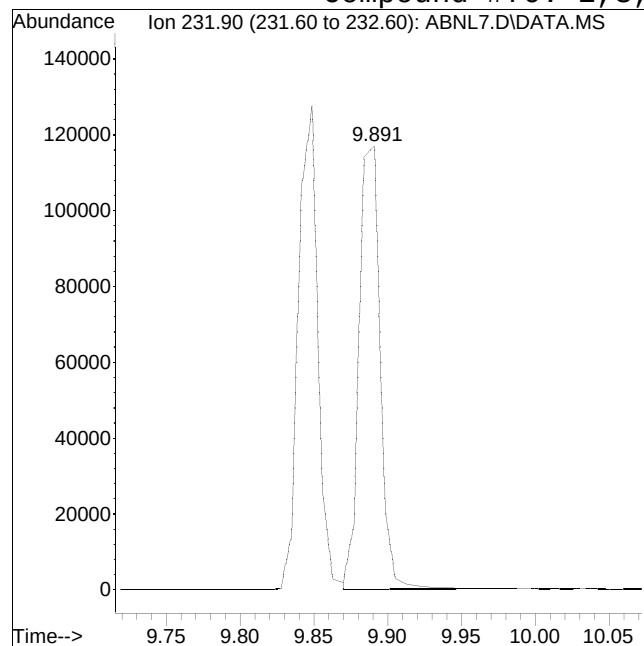


Manual Peak Response = 12883 M3

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL7.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 5:37 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 11427 Quant Date : 3/12/2025 6:14 am

Compound #70: 2,3,5,6-Tetrachlorophenol



Original Peak Response = 117178

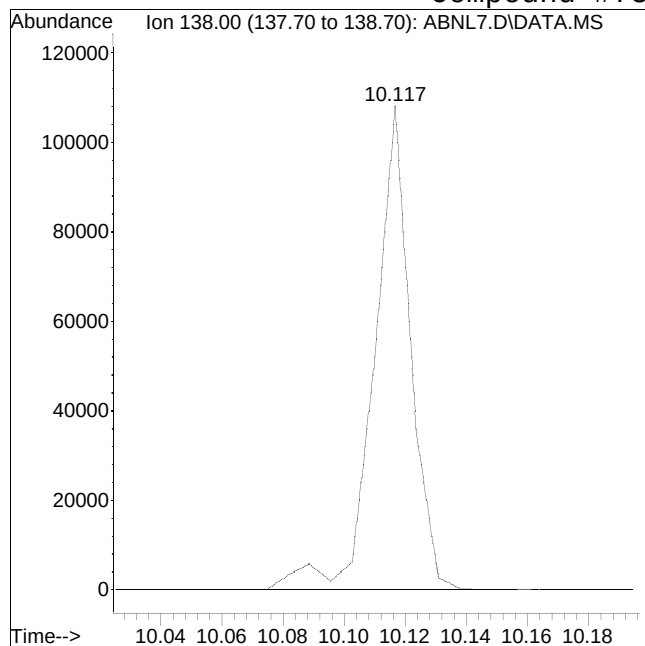
Manual Peak Response = 161653 M3

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

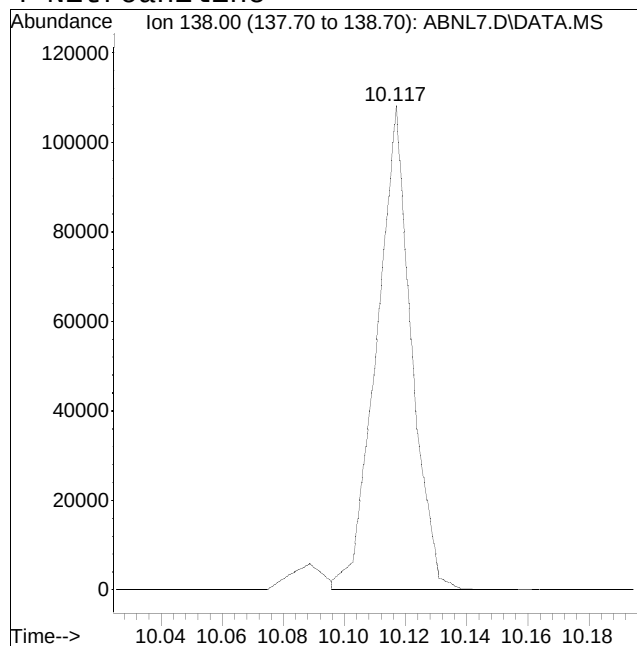
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL7.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 5:37 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 11427 Quant Date : 3/12/2025 6:14 am

Compound #75: 4-Nitroaniline



Original Peak Response = 89684

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

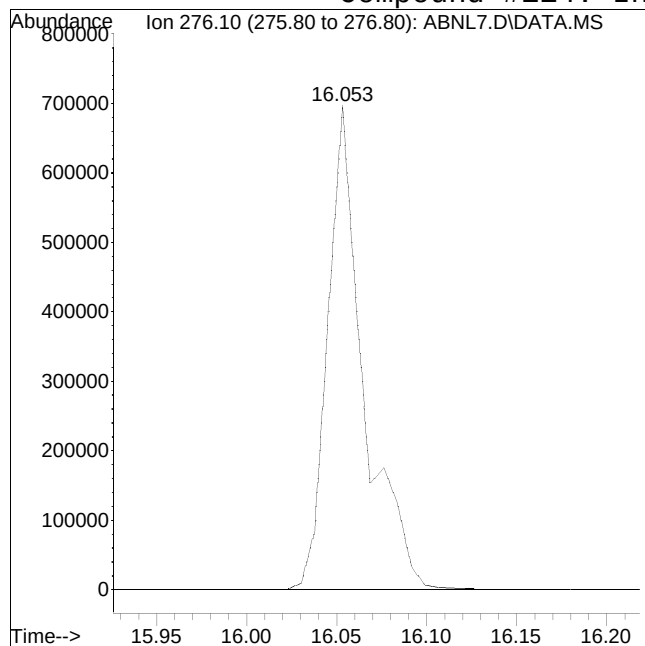


Manual Peak Response = 85077 M6

Manual Integration Report

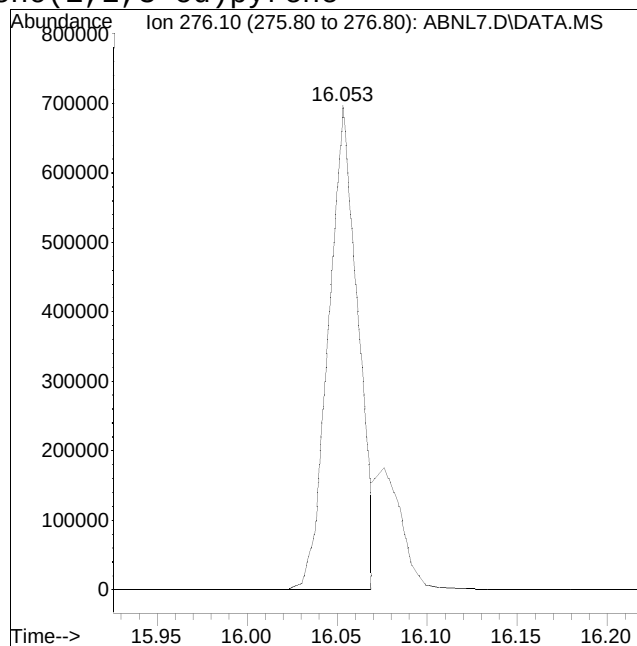
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL7.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 5:37 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 11427 Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 969127

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



Manual Peak Response = 808275 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL6.D
 Acq On : 11 Mar 2025 6:01 pm
 Operator : SV106:ljb
 Sample : IL5,32,,ABNL5 Lot# 11428
 Misc : WG2039658,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 06:26:53 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:42 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	55857	4.000	ug/ml	0.00
Standard Area 1 = 55857			Recovery =	100.00%		
35) IS1_Naphthalene-d8	7.790	136	204785	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery =	100.00%		
63) IS1_Acenaphthene-d10	9.551	164	132560	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery =	100.00%		
88) IS1_Phenanthrene-d10	10.988	188	260564	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery =	100.00%		
104) IS1_Chrysene-d12	13.618	240	281321	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery =	100.00%		
113) IS1_Perylene-d12	15.080	264	300591	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery =	100.00%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.370	112	77157	4.440	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	222.00%#		
7) Phenol-d6	5.977	99	91274	4.364	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	218.20%#		
19) Nitrobenzene-d5	7.018	82	76950	4.054	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	405.40%#		
46) 2-Fluorobiphenyl	8.911	172	228517	4.821	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	482.10%#		
79) 2,4,6-Tribromophenol	10.321	330	35485	4.731	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	236.55%#		
96) 4-Terphenyl-d14	12.576	244	326082	4.663	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	466.30%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	2.005	74	49027	4.618	ug/ml	86
3) Pyridine	2.055	79	80239	4.715	ug/ml	81
5) Aniline	5.943	93	126413	5.111	ug/ml	99
6) 2-Chlorophenol	6.087	128	83752	4.393	ug/ml	95
8) Phenol	5.994	94	99496	4.583	ug/ml	98
9) Bis(2-chloroethyl)ether	6.079	93	79241	4.432	ug/ml#	75
10) 1,3-Dichlorobenzene	6.274	146	102365	4.393	ug/ml	97
11) 1,4-Dichlorobenzene	6.368	146	107450	4.527	ug/ml	96
12) 1,2-Dichlorobenzene	6.555	146	99264	4.361	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL6.D
 Acq On : 11 Mar 2025 6:01 pm
 Operator : SV106:ljb
 Sample : IL5,32,,ABNL5 Lot# 11428
 Misc : WG2039658,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 06:26:53 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:42 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.572	79	63182	4.268	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.755	45	181901	6.469	ug/ml#	70
15) 2-Methylphenol	6.740	108	85645	5.460	ug/ml	86
16) Hexachloroethane	6.942	117	37639	4.391	ug/ml#	56
17) n-Nitrosodi-n-propylamine	6.897	70	59078	4.500	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.927	108	77344	4.521	ug/ml	97
20) Nitrobenzene	7.040	77	79381	4.093	ug/ml	99
21) Isophorone	7.318	82	159426	4.725	ug/ml	100
22) 2-Nitrophenol	7.401	139	35760	3.594	ug/ml	91
23) 2,4-Dimethylphenol	7.498	107	85657	5.484	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.596	93	102484	4.547	ug/ml	97
25) 2,4-Dichlorophenol	7.660	162	80700	4.623	ug/ml#	94
26) 1,2,4-Trichlorobenzene	7.740	180	96522	4.771	ug/ml	97
36) Naphthalene	7.804	128	261190	4.518	ug/ml	99
37) Benzoic Acid	7.573	105	25679	3.002	ug/ml	89
38) 4-Chloroaniline	7.898	65	33932	5.233	ug/ml	83
39) Hexachlorobutadiene	7.977	225	61202	5.007	ug/ml	100
40) p-Chloro-m-cresol	8.424	107	79422	5.237	ug/ml	89
41) 2-Methylnaphthalene	8.529	142	160087	4.155	ug/ml	95
42) 1-Methylnaphthalene	8.626	115	59563	4.779	ug/ml	98
43) Hexachlorocyclopentadiene	8.709	237	76282	5.689	ug/ml	99
44) 2,4,6-Trichlorophenol	8.828	196	64510M3	4.578	ug/ml	
45) 2,4,5-Trichlorophenol	8.858	196	67368	4.619	ug/ml	97
47) 2-Chloronaphthalene	9.008	162	187936	4.679	ug/ml	95
48) 2-Nitroaniline	9.121	138	44431	3.886	ug/ml	88
49) 1,4-Dinitrobenzene	9.266	168	3874M3	0.664	ug/ml	
50) 1,3-Dinitrobenzene	9.329	168	25557	3.994	ug/ml#	1
51) Dimethyl phthalate	9.329	163	231268	4.939	ug/ml#	98
52) Acenaphthylene	9.403	152	300628	5.020	ug/ml	99
53) 2,6-Dinitrotoluene	9.371	165	45398	4.769	ug/ml#	74
54) 1,2-Dinitrobenzene	9.414	168	17866	4.330	ug/ml#	1
64) 3-Nitroaniline	9.529	138	44009	4.111	ug/ml#	94
65) Acenaphthene	9.582	154	169335	4.416	ug/ml	91
66) 2,4-Dinitrophenol	9.624	184	19364	3.485	ug/ml	88
67) Dibenzofuran	9.751	168	279828	4.511	ug/ml#	77
68) 2,4-Dinitrotoluene	9.761	165	54928	3.954	ug/ml#	82
69) 4-Nitrophenol	9.719	65	32799	4.143	ug/ml#	31
70) 2,3,5,6-Tetrachlorophenol	9.842	232	58593M3	4.529	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL6.D
 Acq On : 11 Mar 2025 6:01 pm
 Operator : SV106:ljb
 Sample : IL5,32,,ABNL5 Lot# 11428
 Misc : WG2039658,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 06:26:53 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:42 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.884	232	57822	4.528	ug/ml	96
72)	Diethyl phthalate	10.025	149	222318	4.419	ug/ml	98
73)	Fluorene	10.089	166	223972	4.623	ug/ml	97
74)	4-Chlorophenyl phenyl ...	10.110	204	113786	4.576	ug/ml#	87
75)	4-Nitroaniline	10.117	138	43107M6	3.957	ug/ml	
76)	4,6-Dinitro-o-cresol	10.152	198	29139	3.231	ug/ml#	63
77)	NDPA/DPA	10.223	169	187729	4.491	ug/ml	94
78)	Azobenzene	10.258	77	183971	4.504	ug/ml#	90
80)	4-Bromophenyl phenyl e...	10.579	248	72907	4.733	ug/ml#	81
81)	Hexachlorobenzene	10.624	284	82939	4.755	ug/ml#	80
82)	Pentachlorophenol	10.821	266	46041	4.362	ug/ml	99
89)	Phenanthrene	11.011	178	347207	4.542	ug/ml	99
90)	Anthracene	11.064	178	353638	4.639	ug/ml	100
91)	Carbazole	11.230	167	324365	4.726	ug/ml	99
92)	Di-n-butylphthalate	11.624	149	363209	4.227	ug/ml	99
93)	Fluoranthene	12.163	202	408818	4.637	ug/ml#	92
94)	Benzidine	12.323	184	240598	4.761	ug/ml#	94
95)	Pyrene	12.379	202	432613	4.651	ug/ml	100
97)	Butyl benzyl phthalate	13.101	149	143332	3.968	ug/ml	86
105)	Benzo(a)anthracene	13.610	228	429486M3	4.428	ug/ml	
106)	3,3'-Dichlorobenzidine	13.618	252	160540	5.038	ug/ml#	97
107)	Chrysene	13.649	228	418335	4.494	ug/ml	100
108)	Bis(2-ethylhexyl)phtha...	13.744	149	229451	3.940	ug/ml	94
109)	Di-n-octylphthalate	14.418	149	365799	3.788	ug/ml#	77
110)	Benzo(b)fluoranthene	14.713	252	468863M3	5.009	ug/ml	
111)	Benzo(k)fluoranthene	14.745	252	417264	4.786	ug/ml#	93
112)	Benzo(a)pyrene	15.024	252	414024M3	5.097	ug/ml	
114)	Indeno(1,2,3-cd)pyrene	16.046	276	426992M6	4.686	ug/mL	
115)	Dibenzo(a,h)anthracene	16.077	278	412072	4.755	ug/ml#	89
116)	Benzo(ghi)perylene	16.291	276	399794	4.927	ug/ml#	86

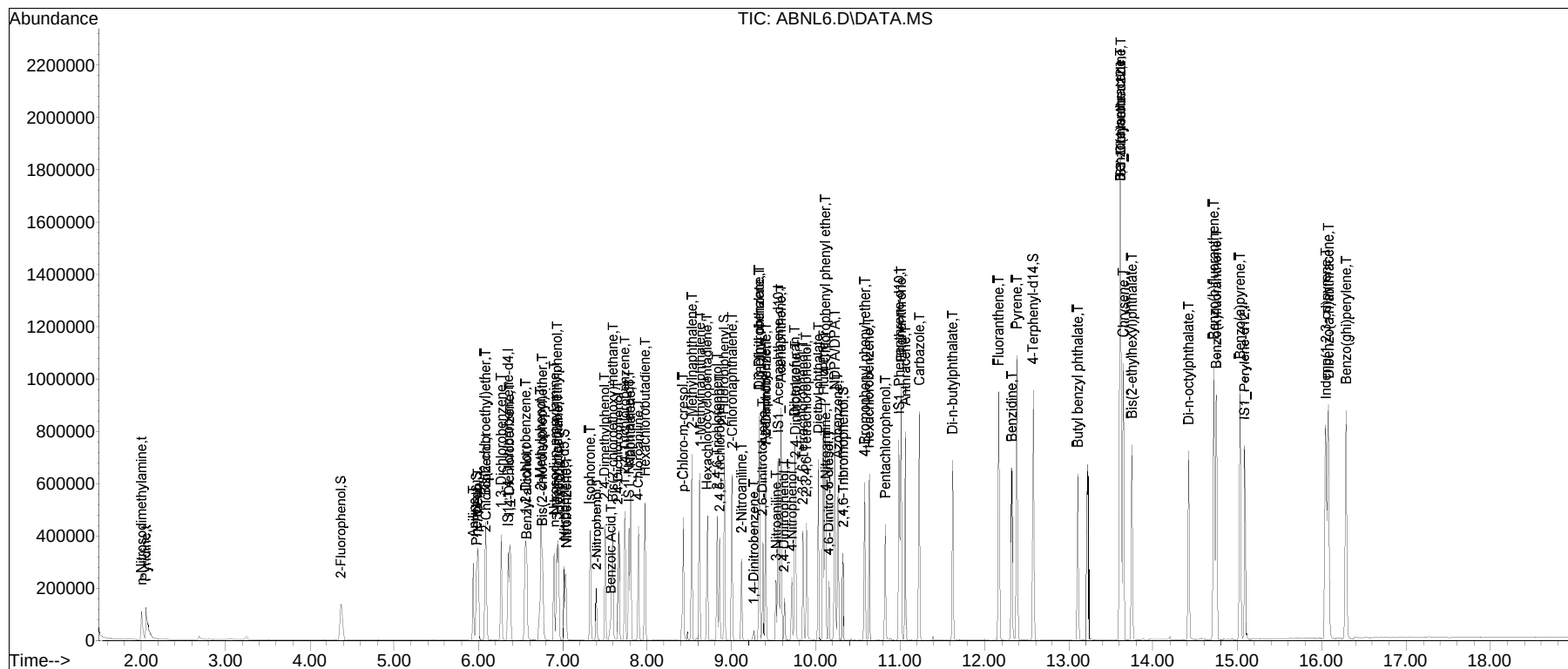
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL6.D
Acq On : 11 Mar 2025 6:01 pm
Operator : SV106:lvg
Sample : IL5,32,,ABNL5 Lot# 11428
Misc : WG2039658,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 06:26:53 2025
Quant Method : I:\8270\SV106\250311RVTical\F250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:42 2025
Response via : Initial Calibration

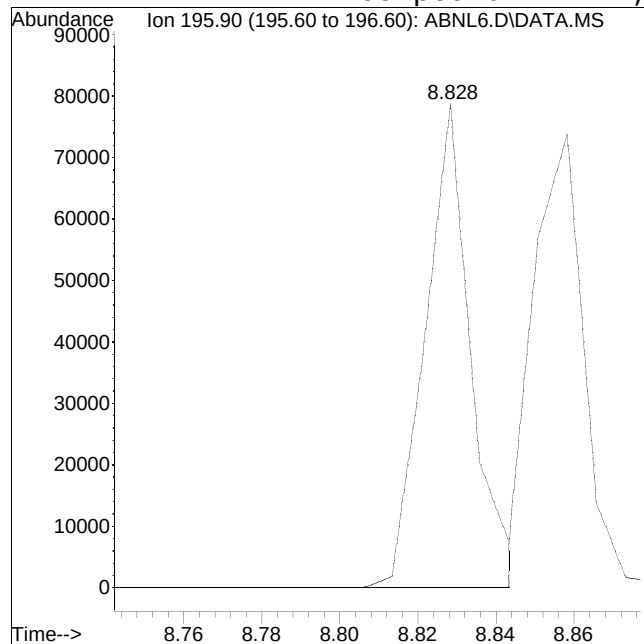
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



Manual Integration Report

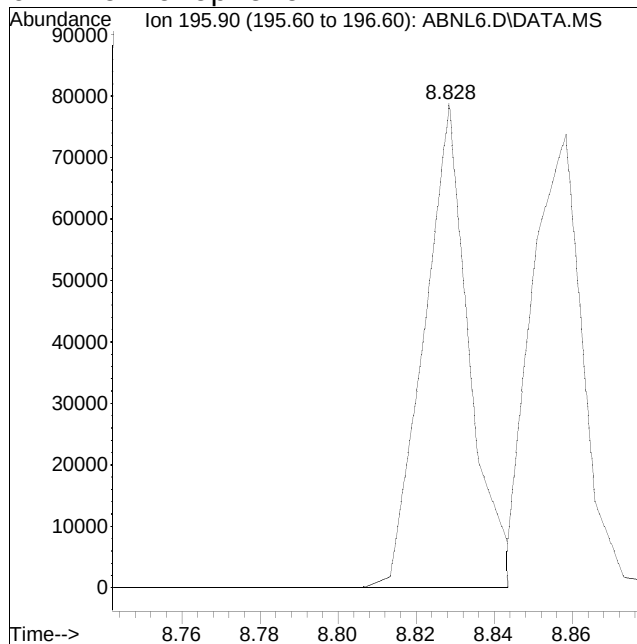
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #44: 2,4,6-Trichlorophenol



Original Peak Response = 64502

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.

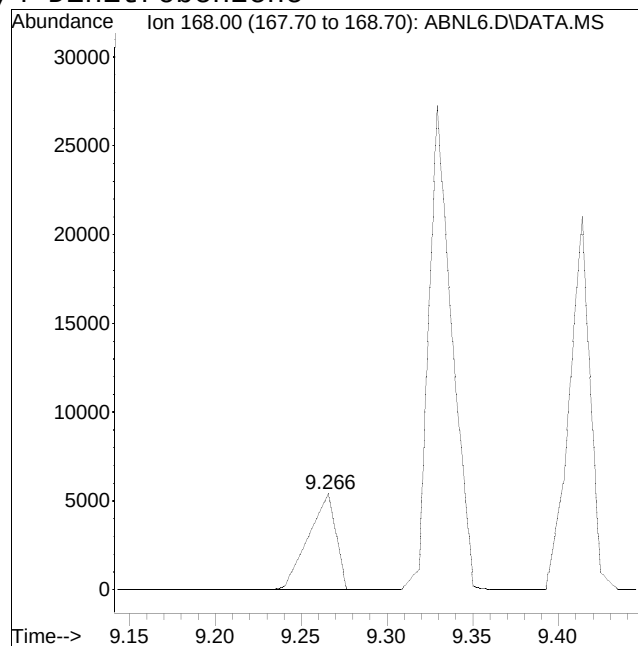
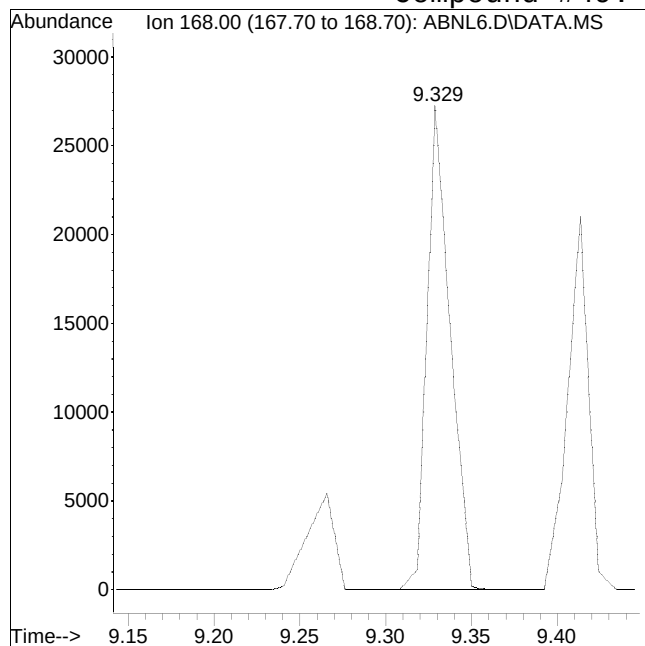


Manual Peak Response = 64510 M3

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #49: 1,4-Dinitrobenzene



Original Peak Response = 25557

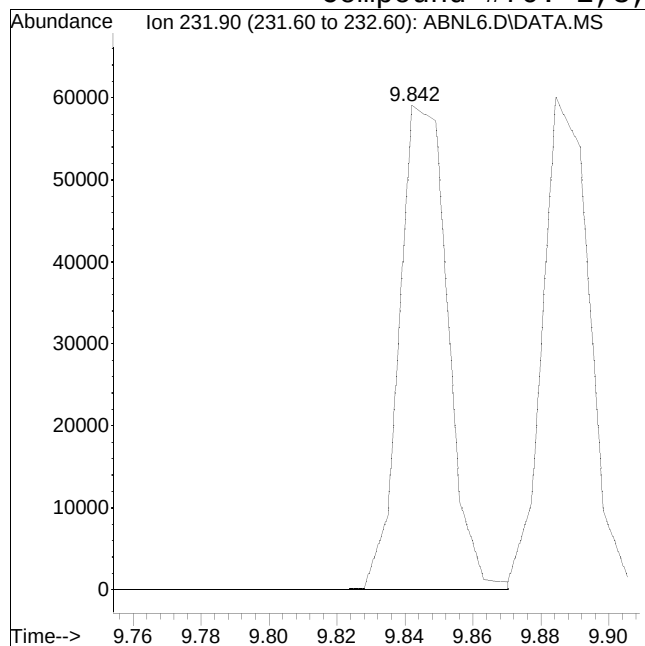
Manual Peak Response = 3874 M3

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

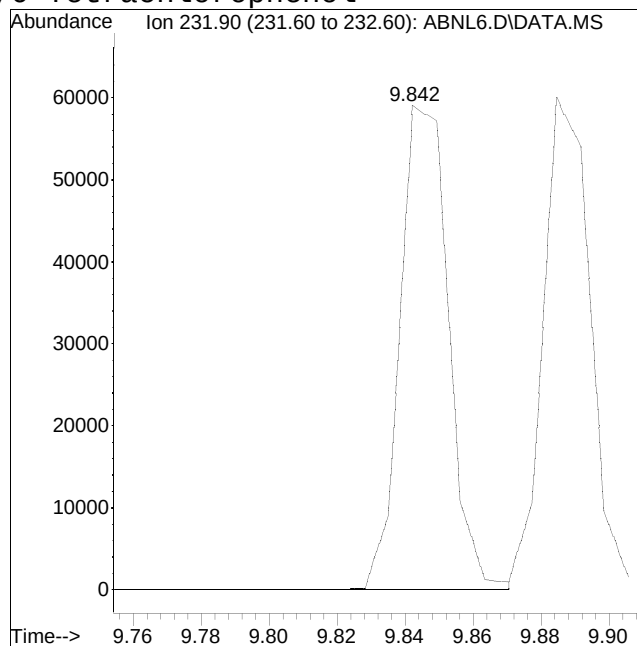
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #70: 2,3,5,6-Tetrachlorophenol



Original Peak Response = 80506

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.

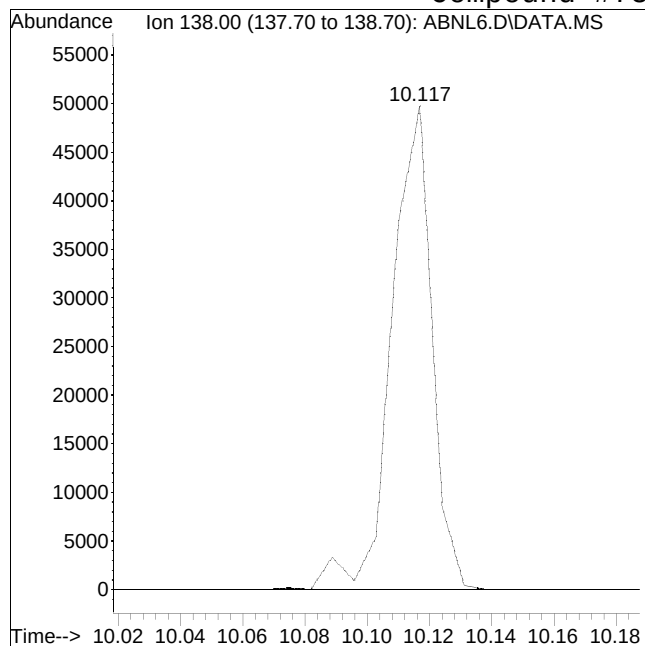


Manual Peak Response = 58593 M3

Manual Integration Report

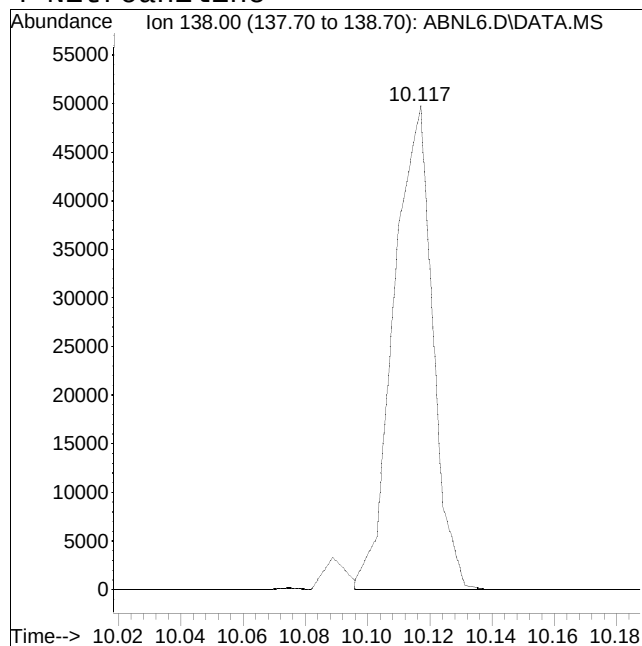
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #75: 4-Nitroaniline



Original Peak Response = 45016

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

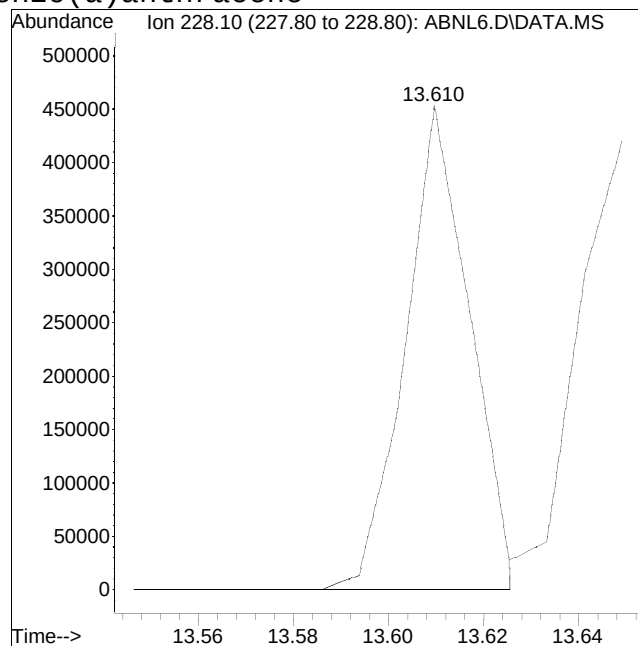
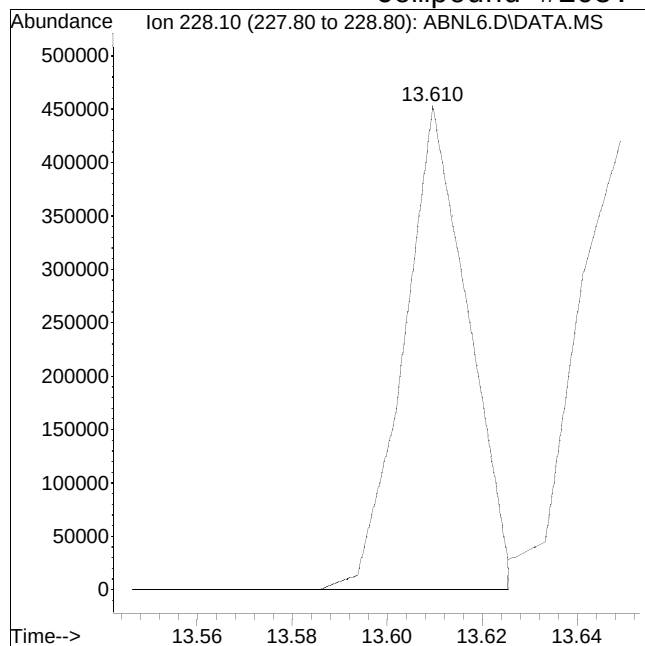


Manual Peak Response = 43107 M6

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljb
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #105: Benzo(a)anthracene



Original Peak Response = 429486

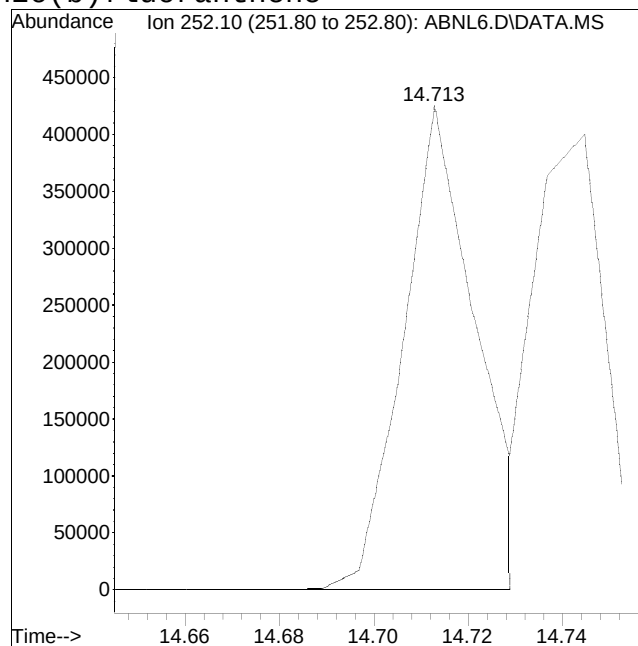
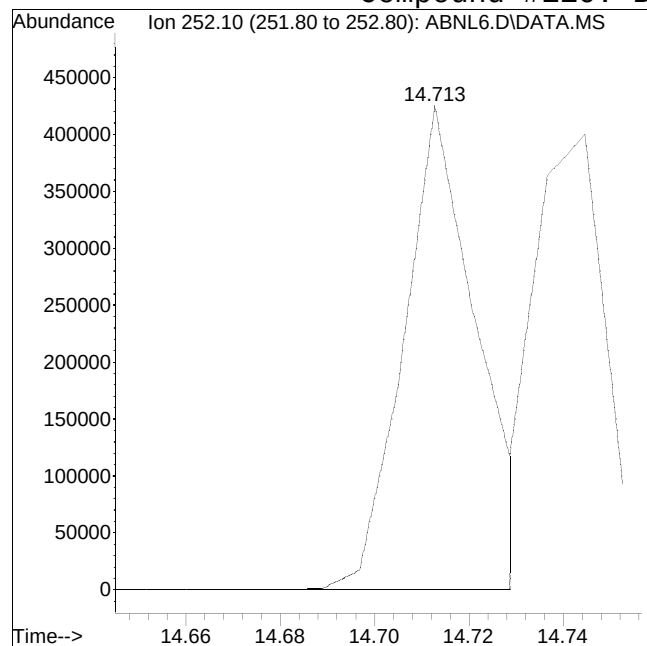
Manual Peak Response = 429486 M3

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\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljb
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #110: Benzo(b)fluoranthene



Original Peak Response = 468292

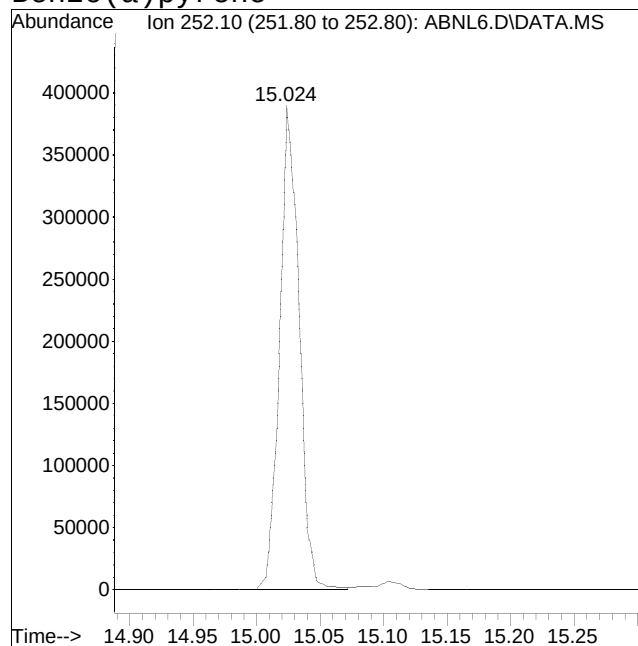
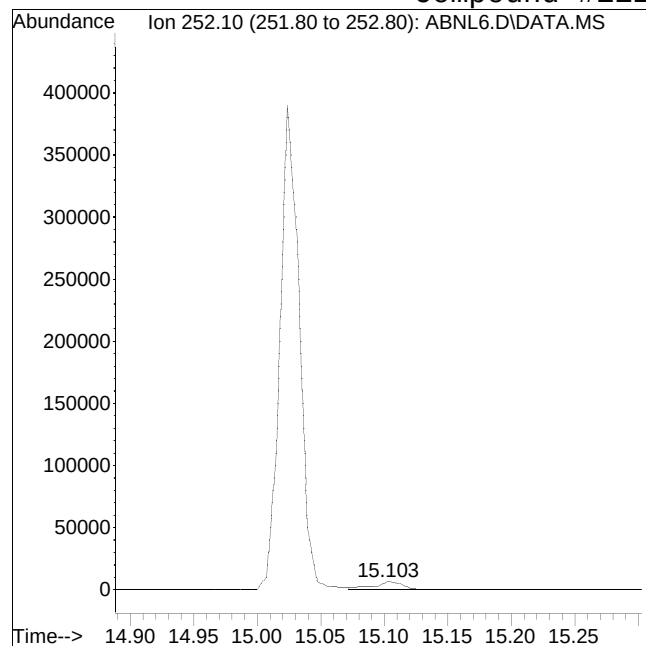
Manual Peak Response = 468863 M3

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\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #112: Benzo(a)pyrene



Original Peak Response = 11163

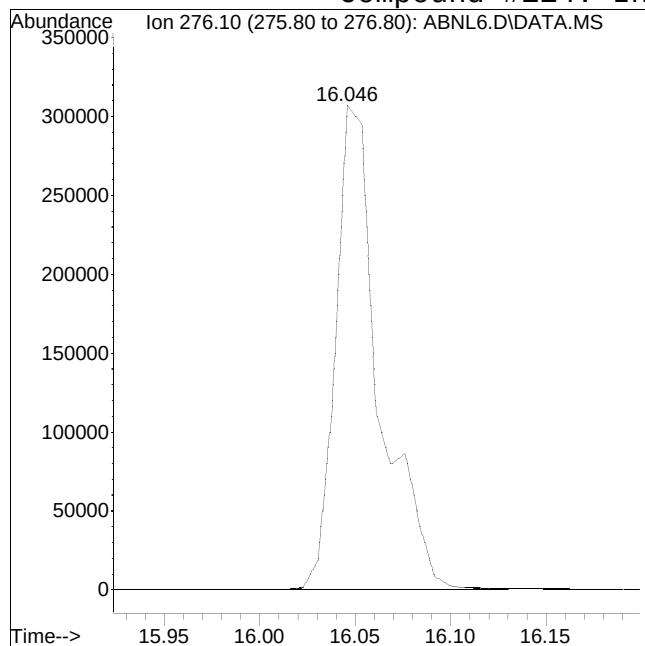
Manual Peak Response = 414024 M3

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

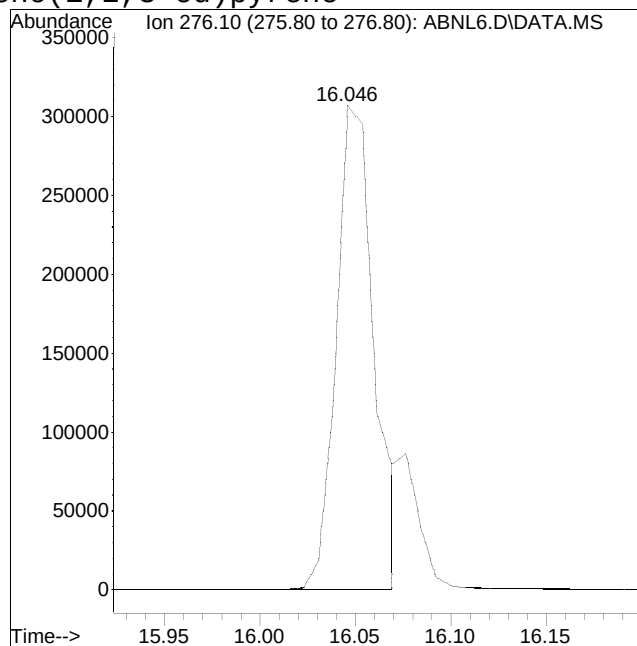
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 491804

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



Manual Peak Response = 426992 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL5.D
 Acq On : 11 Mar 2025 6:24 pm
 Operator : SV106:ljb
 Sample : IL6,32,,ABNL2.5 Lot# 11429
 Misc : WG2039658,,ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 12 06:24:57 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	54229	4.000	ug/ml	0.00
Standard Area 1 = 55857			Recovery =	97.09%		
35) IS1_Naphthalene-d8	7.790	136	203265	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery =	99.26%		
63) IS1_Acenaphthene-d10	9.550	164	133372	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery =	100.61%		
88) IS1_Phenanthrene-d10	10.988	188	260949	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery =	100.15%		
104) IS1_Chrysene-d12	13.617	240	280704	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery =	99.78%		
113) IS1_Perylene-d12	15.079	264	309717	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery =	103.04%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.370	112	33936	2.011	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	100.55%		
7) Phenol-d6	5.977	99	41153	2.026	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	101.30%		
19) Nitrobenzene-d5	7.018	82	32658	1.772	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	177.20%#		
46) 2-Fluorobiphenyl	8.911	172	104660	2.225	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	222.50%#		
79) 2,4,6-Tribromophenol	10.321	330	14986	1.986	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	99.30%		
96) 4-Terphenyl-d14	12.576	244	151336	2.161	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	216.10%#		
Target Compounds						
2) n-Nitrosodimethylamine	2.012	74	22406	2.174	ug/ml	85
3) Pyridine	2.069	79	40710	2.464	ug/ml#	77
5) Aniline	5.943	93	54539	2.271	ug/ml	99
6) 2-Chlorophenol	6.087	128	38996	2.107	ug/ml	93
8) Phenol	5.994	94	44989	2.135	ug/ml	100
9) Bis(2-chloroethyl)ether	6.079	93	35573	2.049	ug/ml#	75
10) 1,3-Dichlorobenzene	6.274	146	48056	2.124	ug/ml	95
11) 1,4-Dichlorobenzene	6.376	146	48093	2.087	ug/ml	98
12) 1,2-Dichlorobenzene	6.555	146	45717	2.069	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL5.D
 Acq On : 11 Mar 2025 6:24 pm
 Operator : SV106:ljb
 Sample : IL6,32,,ABNL2.5 Lot# 11429
 Misc : WG2039658,,ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 12 06:24:57 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	6.572	79	28486	1.982	ug/ml	98
14)	Bis(2-chloroisopropyl)...	6.755	45	82914	3.037	ug/ml#	69
15)	2-Methylphenol	6.740	108	41118	2.700	ug/ml	94
16)	Hexachloroethane	6.942	117	17003	2.043	ug/ml#	53
17)	n-Nitrosodi-n-propylamine	6.897	70	26287	2.062	ug/ml	93
18)	3-Methylphenol/4-Methy...	6.927	108	34182	2.058	ug/ml	96
20)	Nitrobenzene	7.040	77	34979	1.858	ug/ml	99
21)	Isophorone	7.325	82	71270	2.176	ug/ml	98
22)	2-Nitrophenol	7.401	139	15502	1.605	ug/ml	90
23)	2,4-Dimethylphenol	7.506	107	37138	2.449	ug/ml	97
24)	Bis(2-chloroethoxy)met...	7.596	93	50567	2.311	ug/ml	97
25)	2,4-Dichlorophenol	7.660	162	34508	2.036	ug/ml#	93
26)	1,2,4-Trichlorobenzene	7.739	180	43201	2.199	ug/ml	97
36)	Naphthalene	7.811	128	120689	2.103	ug/ml	99
37)	Benzoic Acid	7.573	105	17661	2.478	ug/ml	95
38)	4-Chloroaniline	7.898	65	15152	2.354	ug/ml	83
39)	Hexachlorobutadiene	7.977	225	27695	2.283	ug/ml	99
40)	p-Chloro-m-cresol	8.424	107	35352	2.348	ug/ml#	93
41)	2-Methylnaphthalene	8.529	142	72566	1.898	ug/ml	95
42)	1-Methylnaphthalene	8.626	115	27325	2.209	ug/ml	97
43)	Hexachlorocyclopentadiene	8.708	237	33270	2.500	ug/ml	96
44)	2,4,6-Trichlorophenol	8.828	196	27812	1.989	ug/ml	97
45)	2,4,5-Trichlorophenol	8.858	196	30025	2.074	ug/ml	95
47)	2-Chloronaphthalene	9.008	162	86205	2.162	ug/ml	96
48)	2-Nitroaniline	9.120	138	18328	1.615	ug/ml	87
49)	1,4-Dinitrobenzene	9.266	168	1483M3	0.256	ug/ml	
50)	1,3-Dinitrobenzene	9.329	168	9721	1.530	ug/ml#	1
51)	Dimethyl phthalate	9.329	163	105665	2.274	ug/ml#	99
52)	Acenaphthylene	9.403	152	136941	2.304	ug/ml	99
53)	2,6-Dinitrotoluene	9.371	165	17390	1.840	ug/ml#	80
54)	1,2-Dinitrobenzene	9.413	168	7564	1.847	ug/ml#	1
64)	3-Nitroaniline	9.519	138	18077	1.678	ug/ml#	97
65)	Acenaphthene	9.582	154	76613	1.986	ug/ml	90
66)	2,4-Dinitrophenol	9.624	184	7926	2.126	ug/ml#	86
67)	Dibenzofuran	9.751	168	129001	2.067	ug/ml	90
68)	2,4-Dinitrotoluene	9.761	165	22693	1.624	ug/ml	88
69)	4-Nitrophenol	9.719	65	13363	1.678	ug/ml#	28
70)	2,3,5,6-Tetrachlorophenol	9.842	232	25263	1.941	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL5.D
 Acq On : 11 Mar 2025 6:24 pm
 Operator : SV106:ljl
 Sample : IL6,32,,ABNL2.5 Lot# 11429
 Misc : WG2039658,,ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 12 06:24:57 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.884	232	25211	1.962	ug/ml	98
72)	Diethyl phthalate	10.025	149	98339	1.943	ug/ml	98
73)	Fluorene	10.089	166	99246	2.036	ug/ml	94
74)	4-Chlorophenyl phenyl ...	10.110	204	51695	2.066	ug/ml#	86
75)	4-Nitroaniline	10.117	138	17744M6	1.619	ug/ml	
76)	4,6-Dinitro-o-cresol	10.152	198	11231	1.449	ug/ml#	67
77)	NDPA/DPA	10.223	169	88040	2.093	ug/ml	96
78)	Azobenzene	10.258	77	82516	2.008	ug/ml#	90
80)	4-Bromophenyl phenyl e...	10.579	248	32307	2.085	ug/ml#	82
81)	Hexachlorobenzene	10.624	284	37541	2.139	ug/ml#	82
82)	Pentachlorophenol	10.821	266	18957	1.785	ug/ml	96
89)	Phenanthrene	11.010	178	160421	2.095	ug/ml	99
90)	Anthracene	11.063	178	158572	2.077	ug/ml	100
91)	Carbazole	11.230	167	147157	2.141	ug/ml	99
92)	Di-n-butylphthalate	11.624	149	151870	1.765	ug/ml	99
93)	Fluoranthene	12.163	202	187807	2.127	ug/ml#	93
94)	Benzidine	12.323	184	100635	1.988	ug/ml#	94
95)	Pyrene	12.379	202	201578	2.164	ug/ml	98
97)	Butyl benzyl phthalate	13.101	149	56544	1.563	ug/ml	90
105)	Benzo(a)anthracene	13.609	228	195265	2.017	ug/ml	99
106)	3,3'-Dichlorobenzidine	13.617	252	70893	2.230	ug/ml#	96
107)	Chrysene	13.649	228	195499	2.105	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.744	149	94980	1.635	ug/ml	93
109)	Di-n-octylphthalate	14.418	149	140176	1.455	ug/ml#	77
110)	Benzo(b)fluoranthene	14.713	252	220313	2.359	ug/ml#	94
111)	Benzo(k)fluoranthene	14.737	252	183823	2.113	ug/ml#	92
112)	Benzo(a)pyrene	15.024	252	186852M3	2.305	ug/ml	
114)	Indeno(1,2,3-cd)pyrene	16.046	276	189081M6	2.014	ug/mL	
115)	Dibenzo(a,h)anthracene	16.076	278	185569	2.078	ug/ml#	89
116)	Benzo(ghi)perylene	16.291	276	179906	2.152	ug/ml#	86

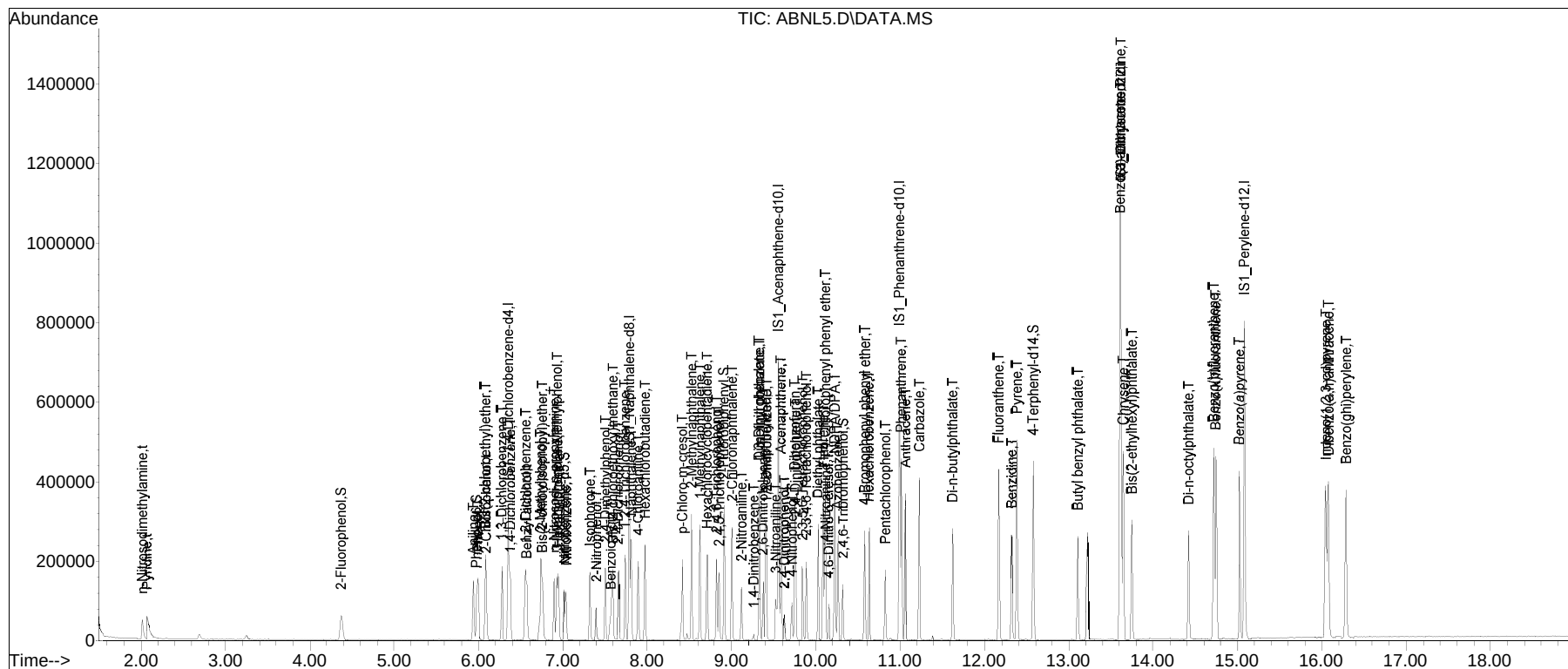
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : I:\8270\SV106\250311RVTical\
Data File  : ABNL5.D
Acq On     : 11 Mar 2025    6:24 pm
Operator   : SV106:l jg
Sample     : IL6, 32,, ABNL2.5 Lot# 11429
Misc       : WG2039658,, ical
ALS Vial   : 5    Sample Multiplier: 1
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Quant Time: Mar 12 06:24:57 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

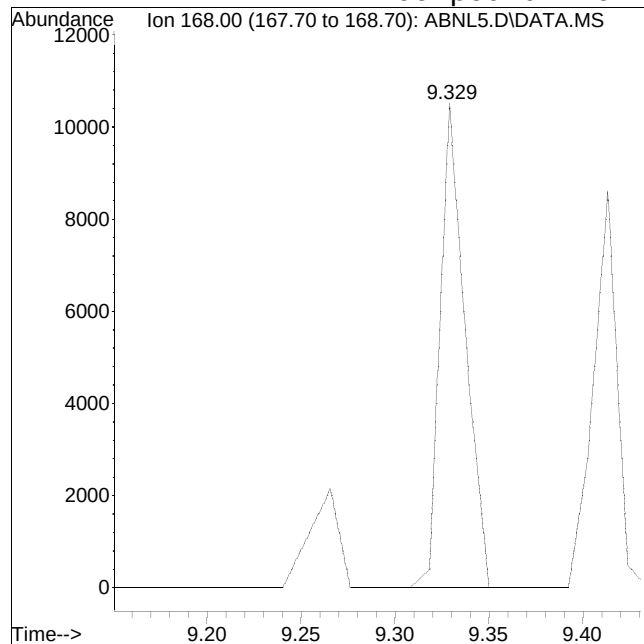
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



Manual Integration Report

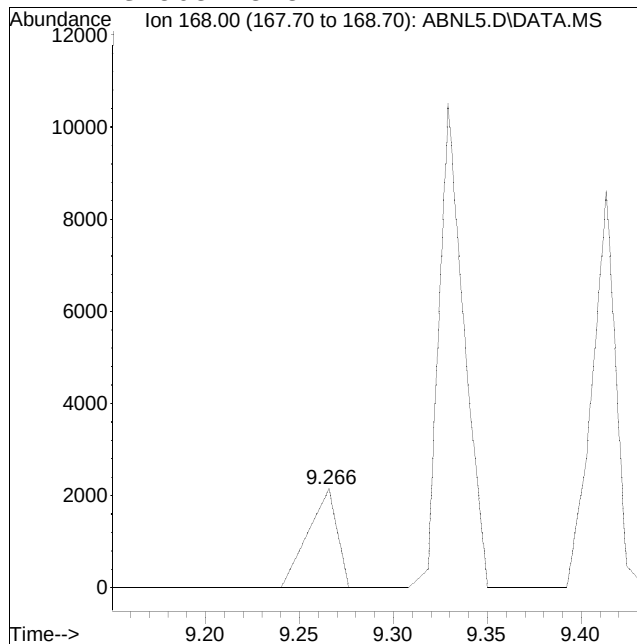
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL5.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 6:24 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 11429 Quant Date : 3/12/2025 6:14 am

Compound #49: 1,4-Dinitrobenzene



Original Peak Response = 9721

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.

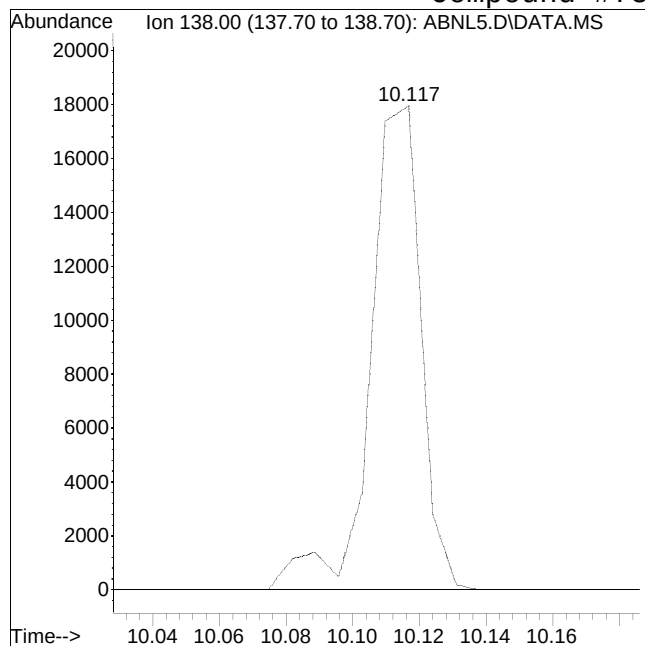


Manual Peak Response = 1483 M3

Manual Integration Report

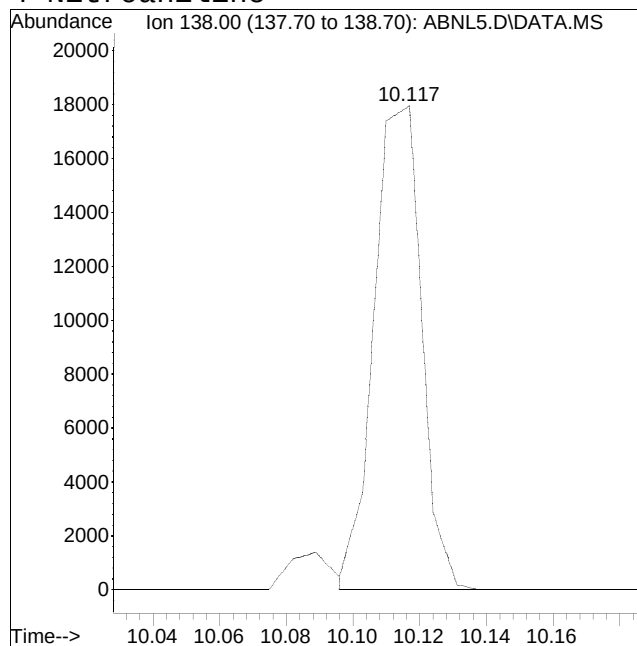
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL5.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 6:24 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 11429 Quant Date : 3/12/2025 6:14 am

Compound #75: 4-Nitroaniline



Original Peak Response = 19007

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

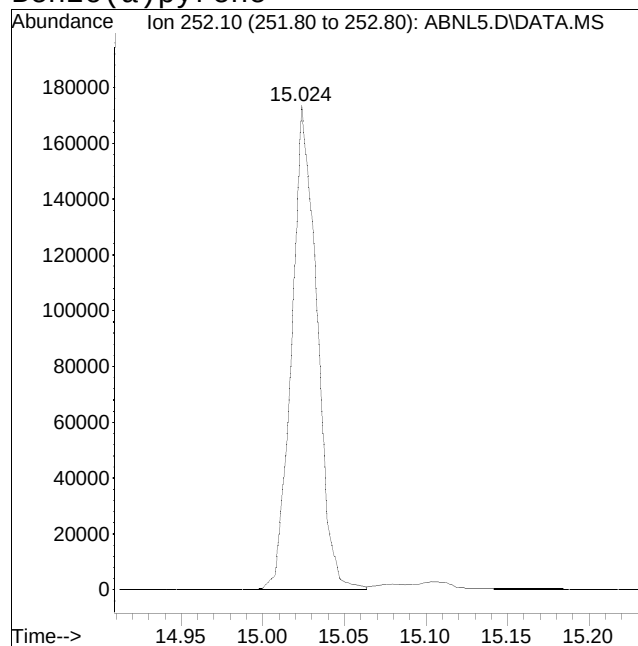
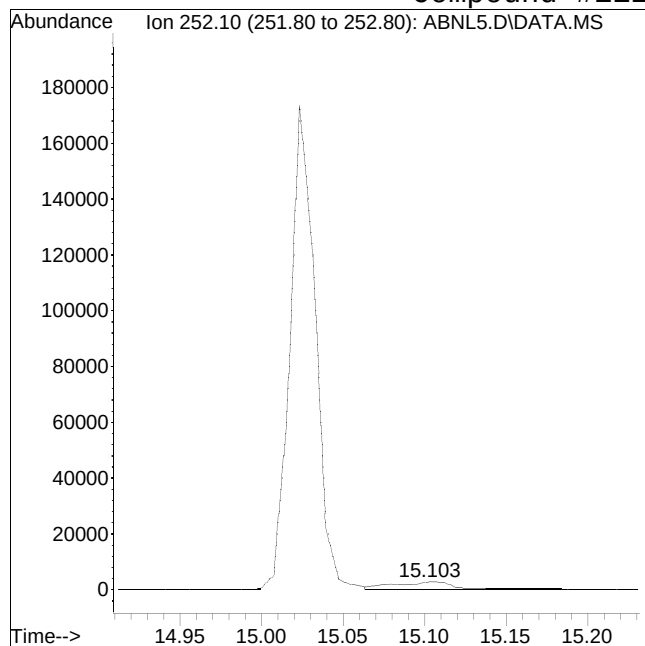


Manual Peak Response = 17744 M6

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL5.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 6:24 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 11429 Quant Date : 3/12/2025 6:14 am

Compound #112: Benzo(a)pyrene



Original Peak Response = 6067

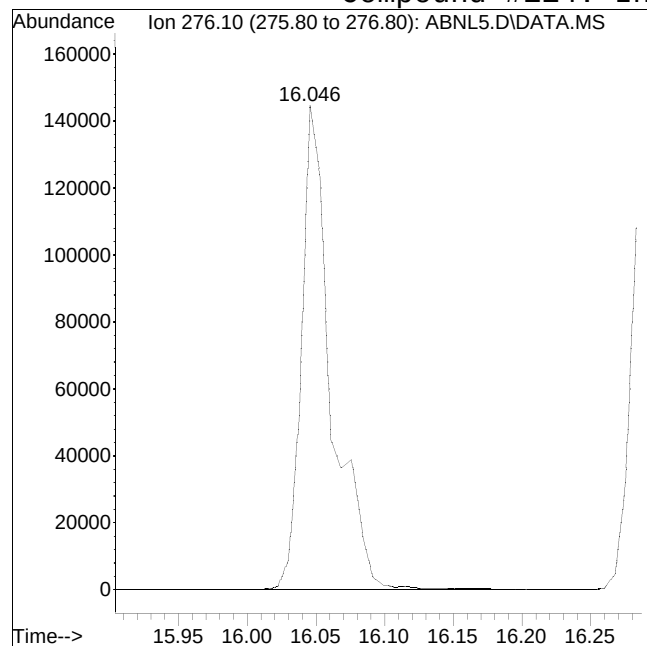
Manual Peak Response = 186852 M3

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

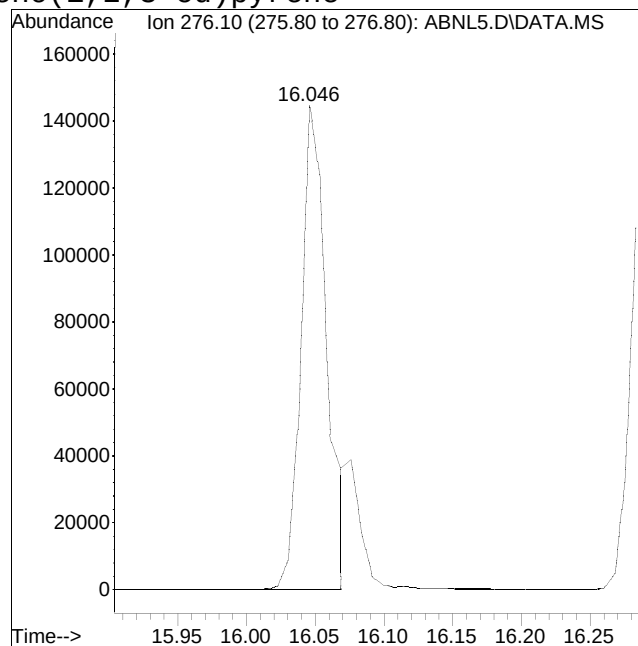
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL5.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 6:24 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 11429 Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 219007

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



Manual Peak Response = 189081 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL4.D
 Acq On : 11 Mar 2025 6:48 pm
 Operator : SV106:ljpg
 Sample : IL7,32,,ABNL1 Lot# 11430
 Misc : WG2039658,,ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 12 06:23:42 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	53475	4.000	ug/ml	0.00
Standard Area 1 = 55857			Recovery =	95.74%		
35) IS1_Naphthalene-d8	7.790	136	202823	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery =	99.04%		
63) IS1_Acenaphthene-d10	9.550	164	124543	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery =	93.95%		
88) IS1_Phenanthrene-d10	10.988	188	254743	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery =	97.77%		
104) IS1_Chrysene-d12	13.617	240	267399	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery =	95.05%		
113) IS1_Perylene-d12	15.079	264	292766	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery =	97.40%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.370	112	14756	0.887	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	44.35%		
7) Phenol-d6	5.977	99	18449	0.921	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	46.05%		
19) Nitrobenzene-d5	7.017	82	14814	0.815	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	81.50%		
46) 2-Fluorobiphenyl	8.911	172	46826	0.998	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	99.80%		
79) 2,4,6-Tribromophenol	10.321	330	6282	0.892	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	44.60%		
96) 4-Terphenyl-d14	12.576	244	65331	0.956	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	95.60%		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	2.012	74	9644	0.949	ug/ml#	90
3) Pyridine	2.091	79	16528	1.014	ug/ml	82
5) Aniline	5.943	93	24546	1.037	ug/ml	99
6) 2-Chlorophenol	6.087	128	16985	0.931	ug/ml	94
8) Phenol	5.994	94	19653	0.946	ug/ml	97
9) Bis(2-chloroethyl)ether	6.079	93	16744	0.978	ug/ml#	82
10) 1,3-Dichlorobenzene	6.274	146	21232	0.952	ug/ml	95
11) 1,4-Dichlorobenzene	6.368	146	21379	0.941	ug/ml	97
12) 1,2-Dichlorobenzene	6.555	146	20459	0.939	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL4.D
 Acq On : 11 Mar 2025 6:48 pm
 Operator : SV106:ljb
 Sample : IL7,32,,ABNL1 Lot# 11430
 Misc : WG2039658,,ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 12 06:23:42 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.572	79	11725	0.827	ug/ml	93
14) Bis(2-chloroisopropyl)...	6.755	45	36440	1.354	ug/ml#	67
15) 2-Methylphenol	6.739	108	17728	1.181	ug/ml	88
16) Hexachloroethane	6.942	117	7600	0.926	ug/ml#	53
17) n-Nitrosodi-n-propylamine	6.897	70	11344	0.903	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.927	108	15394	0.940	ug/ml	98
20) Nitrobenzene	7.040	77	14549	0.784	ug/ml	99
21) Isophorone	7.325	82	30792	0.953	ug/ml	97
22) 2-Nitrophenol	7.401	139	6426	0.675	ug/ml	90
23) 2,4-Dimethylphenol	7.498	107	15643	1.046	ug/ml	93
24) Bis(2-chloroethoxy)met...	7.595	93	22029	1.021	ug/ml	99
25) 2,4-Dichlorophenol	7.660	162	15426	0.923	ug/ml#	94
26) 1,2,4-Trichlorobenzene	7.739	180	19839	1.024	ug/ml	98
36) Naphthalene	7.804	128	55505	0.969	ug/ml	99
37) Benzoic Acid	7.558	105	7191	1.777	ug/ml	95
38) 4-Chloroaniline	7.898	65	6758	1.052	ug/ml	85
39) Hexachlorobutadiene	7.977	225	12349	1.020	ug/ml	99
40) p-Chloro-m-cresol	8.424	107	16047	1.068	ug/ml	92
41) 2-Methylnaphthalene	8.529	142	32602	0.854	ug/ml	96
42) 1-Methylnaphthalene	8.626	115	12062	0.977	ug/ml	93
43) Hexachlorocyclopentadiene	8.708	237	14665	1.104	ug/ml	98
44) 2,4,6-Trichlorophenol	8.828	196	11944	0.856	ug/ml	97
45) 2,4,5-Trichlorophenol	8.858	196	11912	0.825	ug/ml	98
47) 2-Chloronaphthalene	9.008	162	37989	0.955	ug/ml	97
48) 2-Nitroaniline	9.120	138	7378	0.652	ug/ml	91
49) 1,4-Dinitrobenzene	9.266	168	695M3	0.120	ug/ml	
50) 1,3-Dinitrobenzene	9.329	168	3721	0.587	ug/ml#	1
51) Dimethyl phthalate	9.329	163	45710	0.986	ug/ml#	99
52) Acenaphthylene	9.403	152	58813	0.992	ug/ml	99
53) 2,6-Dinitrotoluene	9.371	165	7288	0.773	ug/ml#	75
54) 1,2-Dinitrobenzene	9.413	168	2647	0.648	ug/ml#	1
64) 3-Nitroaniline	9.519	138	7075	0.703	ug/ml#	87
65) Acenaphthene	9.582	154	34236	0.950	ug/ml	90
66) 2,4-Dinitrophenol	9.624	184	3071	1.581	ug/ml	91
67) Dibenzofuran	9.751	168	59661	1.024	ug/ml	93
68) 2,4-Dinitrotoluene	9.761	165	8903	0.682	ug/ml	89
69) 4-Nitrophenol	9.719	65	5559	0.747	ug/ml#	34
70) 2,3,5,6-Tetrachlorophenol	9.849	232	10386	0.854	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL4.D
 Acq On : 11 Mar 2025 6:48 pm
 Operator : SV106:ljb
 Sample : IL7,32,,ABNL1 Lot# 11430
 Misc : WG2039658,,ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 12 06:23:42 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.884	232	10391	0.866	ug/ml	97
72)	Diethyl phthalate	10.025	149	42533	0.900	ug/ml	98
73)	Fluorene	10.089	166	44259	0.972	ug/ml	94
74)	4-Chlorophenyl phenyl ...	10.110	204	23260	0.996	ug/ml#	87
75)	4-Nitroaniline	10.110	138	7418	0.725	ug/ml	89
76)	4,6-Dinitro-o-cresol	10.152	198	4129	0.778	ug/ml#	74
77)	NDPA/DPA	10.223	169	37114	0.945	ug/ml	94
78)	Azobenzene	10.258	77	35766	0.932	ug/ml#	90
80)	4-Bromophenyl phenyl e...	10.579	248	14376	0.993	ug/ml#	82
81)	Hexachlorobenzene	10.624	284	16882	1.030	ug/ml#	82
82)	Pentachlorophenol	10.821	266	7387	0.745	ug/ml	95
89)	Phenanthrene	11.010	178	71956	0.963	ug/ml	99
90)	Anthracene	11.063	178	68990	0.926	ug/ml	100
91)	Carbazole	11.230	167	63223	0.942	ug/ml	97
92)	Di-n-butylphthalate	11.624	149	62160	0.740	ug/ml	99
93)	Fluoranthene	12.163	202	80262	0.931	ug/ml#	93
94)	Benzidine	12.322	184	36898	0.747	ug/ml#	94
95)	Pyrene	12.379	202	86985	0.957	ug/ml	99
97)	Butyl benzyl phthalate	13.101	149	21312	0.603	ug/ml	90
105)	Benzo(a)anthracene	13.609	228	81287	0.882	ug/ml	98
106)	3,3'-Dichlorobenzidine	13.609	252	27345	0.903	ug/ml#	96
107)	Chrysene	13.641	228	84840	0.959	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.744	149	33606	0.607	ug/ml	96
109)	Di-n-octylphthalate	14.418	149	50346	0.548	ug/ml#	80
110)	Benzo(b)fluoranthene	14.713	252	96705	1.087	ug/ml#	88
111)	Benzo(k)fluoranthene	14.737	252	73904	0.892	ug/ml#	89
112)	Benzo(a)pyrene	15.024	252	76360	0.989	ug/ml#	93
114)	Indeno(1,2,3-cd)pyrene	16.046	276	73157M6	0.824	ug/mL	
115)	Dibenzo(a,h)anthracene	16.069	278	78578	0.931	ug/ml#	88
116)	Benzo(ghi)perylene	16.283	276	78721	0.996	ug/ml#	85

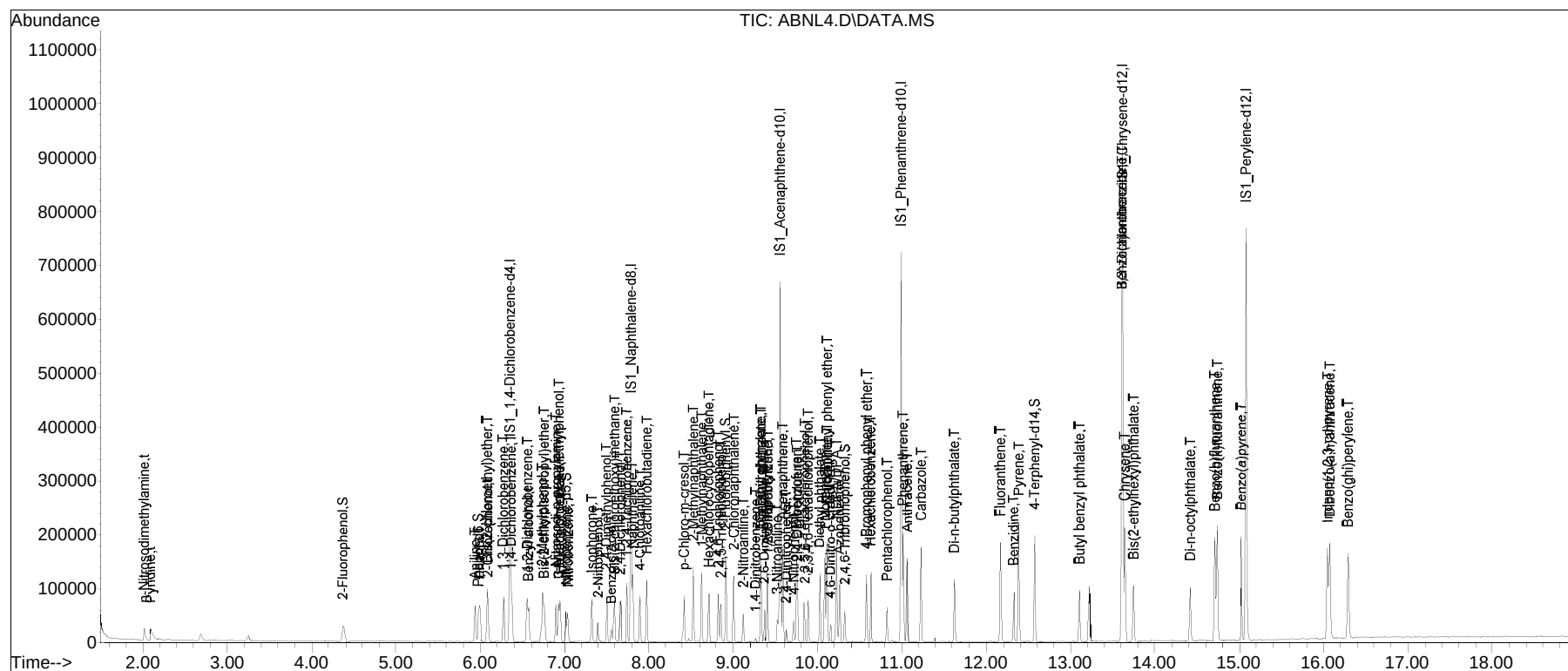
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL4.D
Acq On : 11 Mar 2025 6:48 pm
Operator : SV106:lvg
Sample : IL7,32,,ABNL1 Lot# 11430
Misc : WG2039658,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 12 06:23:42 2025
Quant Method : I:\8270\SV106\250311RVtical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

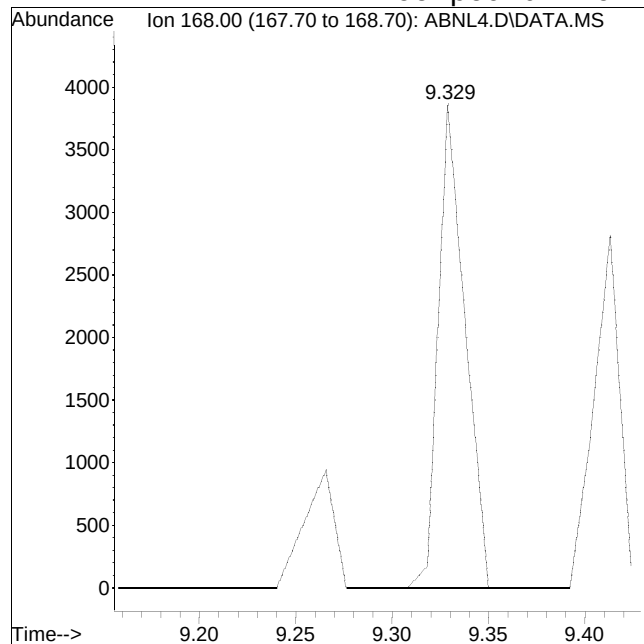
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



Manual Integration Report

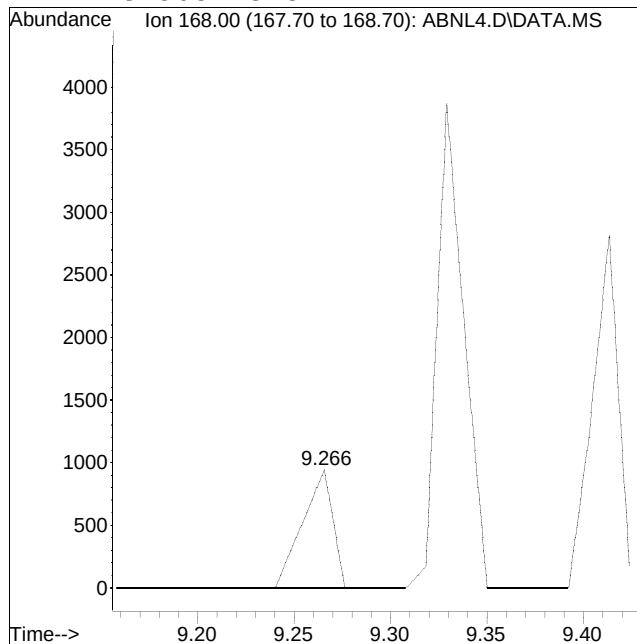
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL4.D Operator : SV106:ljpg
Date Inj'd : 3/11/2025 6:48 pm Instrument : SV 106
Sample : IL7,32,,ABNL1 Lot# 11430 Quant Date : 3/12/2025 6:14 am

Compound #49: 1,4-Dinitrobenzene



Original Peak Response = 3721

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.

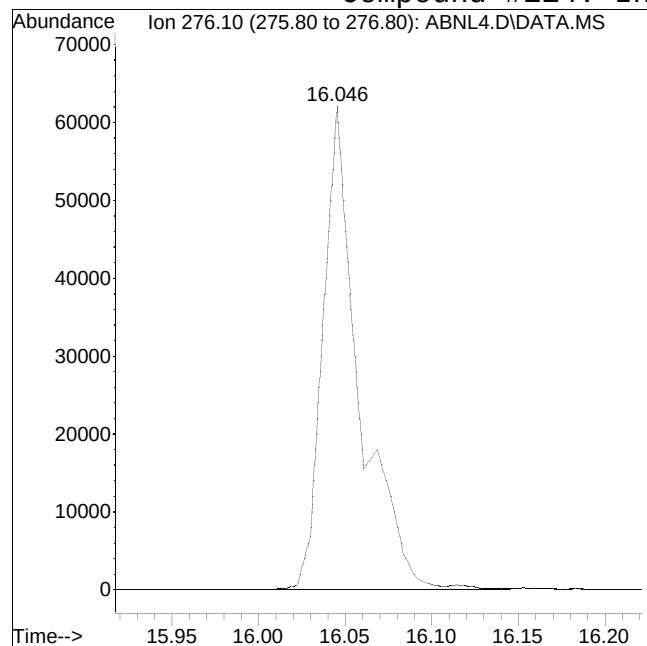


Manual Peak Response = 695 M3

Manual Integration Report

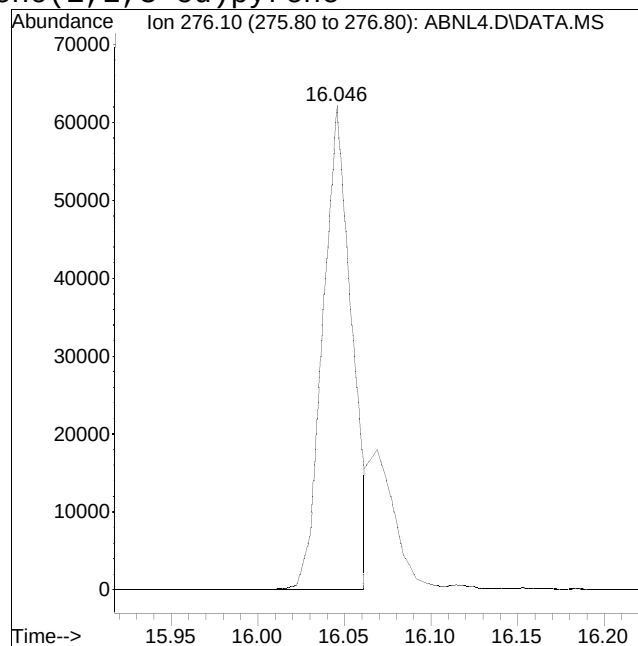
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL4.D Operator : SV106:ljb
Date Inj'd : 3/11/2025 6:48 pm Instrument : SV 106
Sample : IL7,32,,ABNL1 Lot# 11430 Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 91075

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



Manual Peak Response = 73157 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL3.D
 Acq On : 11 Mar 2025 7:11 pm
 Operator : SV106:ljb
 Sample : IL8,32,,ABNL0.5 Lot# 11431
 Misc : WG2039658,,ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 12 06:22:46 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	56768	4.000	ug/ml	0.00
Standard Area 1 = 55857			Recovery =	101.63%		
35) IS1_Naphthalene-d8	7.790	136	206416	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery =	100.80%		
63) IS1_Acenaphthene-d10	9.550	164	129170	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery =	97.44%		
88) IS1_Phenanthrene-d10	10.988	188	261176	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery =	100.23%		
104) IS1_Chrysene-d12	13.617	240	273347	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery =	97.17%		
113) IS1_Perylene-d12	15.079	264	292012	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery =	97.15%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.377	112	8605	0.487	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	24.35%		
7) Phenol-d6	5.985	99	10059	0.473	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	23.65%		
19) Nitrobenzene-d5	7.018	82	7977	0.414	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	41.40%		
46) 2-Fluorobiphenyl	8.911	172	26250	0.549	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	54.90%		
79) 2,4,6-Tribromophenol	10.321	330	3362	0.460	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	23.00%		
96) 4-Terphenyl-d14	12.576	244	36870	0.526	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	52.60%		
Target Compounds						
2) n-Nitrosodimethylamine	2.026	74	5717	0.530	ug/ml#	91
3) Pyridine	2.112	79	10850M1	0.627	ug/ml	
5) Aniline	5.943	93	13620	0.542	ug/ml	97
6) 2-Chlorophenol	6.087	128	9341	0.482	ug/ml	94
8) Phenol	5.994	94	10999	0.499	ug/ml	99
9) Bis(2-chloroethyl)ether	6.079	93	9284	0.511	ug/ml#	78
10) 1,3-Dichlorobenzene	6.274	146	12313	0.520	ug/ml	97
11) 1,4-Dichlorobenzene	6.376	146	12376	0.513	ug/ml	99
12) 1,2-Dichlorobenzene	6.555	146	12396	0.536	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL3.D
 Acq On : 11 Mar 2025 7:11 pm
 Operator : SV106:ljb
 Sample : IL8,32,,ABNL0.5 Lot# 11431
 Misc : WG2039658,,ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 12 06:22:46 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.572	79	6554	0.436	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.755	45	22270	0.779	ug/ml#	72
15) 2-Methylphenol	6.740	108	10300	0.646	ug/ml	91
16) Hexachloroethane	6.942	117	3941	0.452	ug/ml#	47
17) n-Nitrosodi-n-propylamine	6.897	70	6527	0.489	ug/ml#	85
18) 3-Methylphenol/4-Methy...	6.927	108	8045	0.463	ug/ml	94
20) Nitrobenzene	7.040	77	7841	0.398	ug/ml	97
21) Isophorone	7.325	82	17496	0.510	ug/ml	98
22) 2-Nitrophenol	7.401	139	3677	0.364	ug/ml	90
23) 2,4-Dimethylphenol	7.506	107	8665	0.546	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.596	93	13281	0.580	ug/ml#	98
25) 2,4-Dichlorophenol	7.660	162	8010	0.452	ug/ml	90
26) 1,2,4-Trichlorobenzene	7.739	180	11248	0.547	ug/ml	95
36) Naphthalene	7.804	128	30818	0.529	ug/ml	99
37) Benzoic Acid	7.558	105	3715	1.539	ug/ml	97
38) 4-Chloroaniline	7.898	65	3476	0.532	ug/ml#	77
39) Hexachlorobutadiene	7.977	225	6885	0.559	ug/ml	98
40) p-Chloro-m-cresol	8.424	107	8955	0.586	ug/ml	96
41) 2-Methylnaphthalene	8.529	142	18288	0.471	ug/ml	98
42) 1-Methylnaphthalene	8.626	115	7282	0.580	ug/ml	92
43) Hexachlorocyclopentadiene	8.708	237	8140	0.602	ug/ml	94
44) 2,4,6-Trichlorophenol	8.828	196	6438	0.453	ug/ml	94
45) 2,4,5-Trichlorophenol	8.858	196	5999	0.408	ug/ml	98
47) 2-Chloronaphthalene	9.008	162	21654	0.535	ug/ml	95
48) 2-Nitroaniline	9.120	138	3851	0.334	ug/ml	92
49) 1,4-Dinitrobenzene	9.266	168	286M3	0.049	ug/ml	
50) 1,3-Dinitrobenzene	9.329	168	2083	0.323	ug/ml#	1
51) Dimethyl phthalate	9.329	163	24657	0.522	ug/ml#	96
52) Acenaphthylene	9.403	152	32837	0.544	ug/ml	99
53) 2,6-Dinitrotoluene	9.371	165	3640	0.379	ug/ml#	78
54) 1,2-Dinitrobenzene	9.413	168	1331	0.320	ug/ml#	1
64) 3-Nitroaniline	9.519	138	3348	0.321	ug/ml#	64
65) Acenaphthene	9.582	154	18780	0.503	ug/ml	89
66) 2,4-Dinitrophenol	9.624	184	1538	1.381	ug/ml#	60
67) Dibenzofuran	9.751	168	33741	0.558	ug/ml	93
68) 2,4-Dinitrotoluene	9.761	165	4190	0.310	ug/ml#	74
69) 4-Nitrophenol	9.719	65	2869	0.372	ug/ml#	1
70) 2,3,5,6-Tetrachlorophenol	9.842	232	5851	0.464	ug/ml	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL3.D
 Acq On : 11 Mar 2025 7:11 pm
 Operator : SV106:ljj
 Sample : IL8,32,,ABNL0.5 Lot# 11431
 Misc : WG2039658,,ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 12 06:22:46 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.884	232	5525	0.444	ug/ml	98
72)	Diethyl phthalate	10.025	149	23409	0.478	ug/ml	97
73)	Fluorene	10.089	166	24293	0.515	ug/ml	93
74)	4-Chlorophenyl phenyl ...	10.110	204	13304	0.549	ug/ml#	87
75)	4-Nitroaniline	10.110	138	3664	0.345	ug/ml	90
76)	4,6-Dinitro-o-cresol	10.152	198	2275	0.574	ug/ml#	74
77)	NDPA/DPA	10.223	169	20258	0.497	ug/ml	92
78)	Azobenzene	10.258	77	19388	0.487	ug/ml#	90
80)	4-Bromophenyl phenyl e...	10.579	248	8102	0.540	ug/ml#	80
81)	Hexachlorobenzene	10.624	284	10638	0.626	ug/ml#	78
82)	Pentachlorophenol	10.821	266	3967	0.386	ug/ml	95
89)	Phenanthrene	11.010	178	40108	0.523	ug/ml	99
90)	Anthracene	11.056	178	39771	0.520	ug/ml	99
91)	Carbazole	11.230	167	34443	0.501	ug/ml	97
92)	Di-n-butylphthalate	11.624	149	34005	0.395	ug/ml	99
93)	Fluoranthene	12.163	202	45315	0.513	ug/ml#	93
94)	Benzidine	12.323	184	16881	0.333	ug/ml#	93
95)	Pyrene	12.379	202	48506	0.520	ug/ml	99
97)	Butyl benzyl phthalate	13.101	149	11761	0.325	ug/ml	92
105)	Benzo(a)anthracene	13.610	228	46327	0.492	ug/ml	98
106)	3,3'-Dichlorobenzidine	13.610	252	13986	0.452	ug/ml	99
107)	Chrysene	13.641	228	50130	0.554	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.736	149	18181	0.321	ug/ml	95
109)	Di-n-octylphthalate	14.418	149	26903	0.287	ug/ml#	81
110)	Benzo(b)fluoranthene	14.713	252	45567	0.501	ug/ml#	94
111)	Benzo(k)fluoranthene	14.737	252	48838	0.576	ug/ml#	93
112)	Benzo(a)pyrene	15.024	252	41546	0.526	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	16.046	276	39000M6	0.441	ug/mL	
115)	Dibenzo(a,h)anthracene	16.069	278	40856	0.485	ug/ml#	89
116)	Benzo(ghi)perylene	16.283	276	40710	0.516	ug/ml#	85

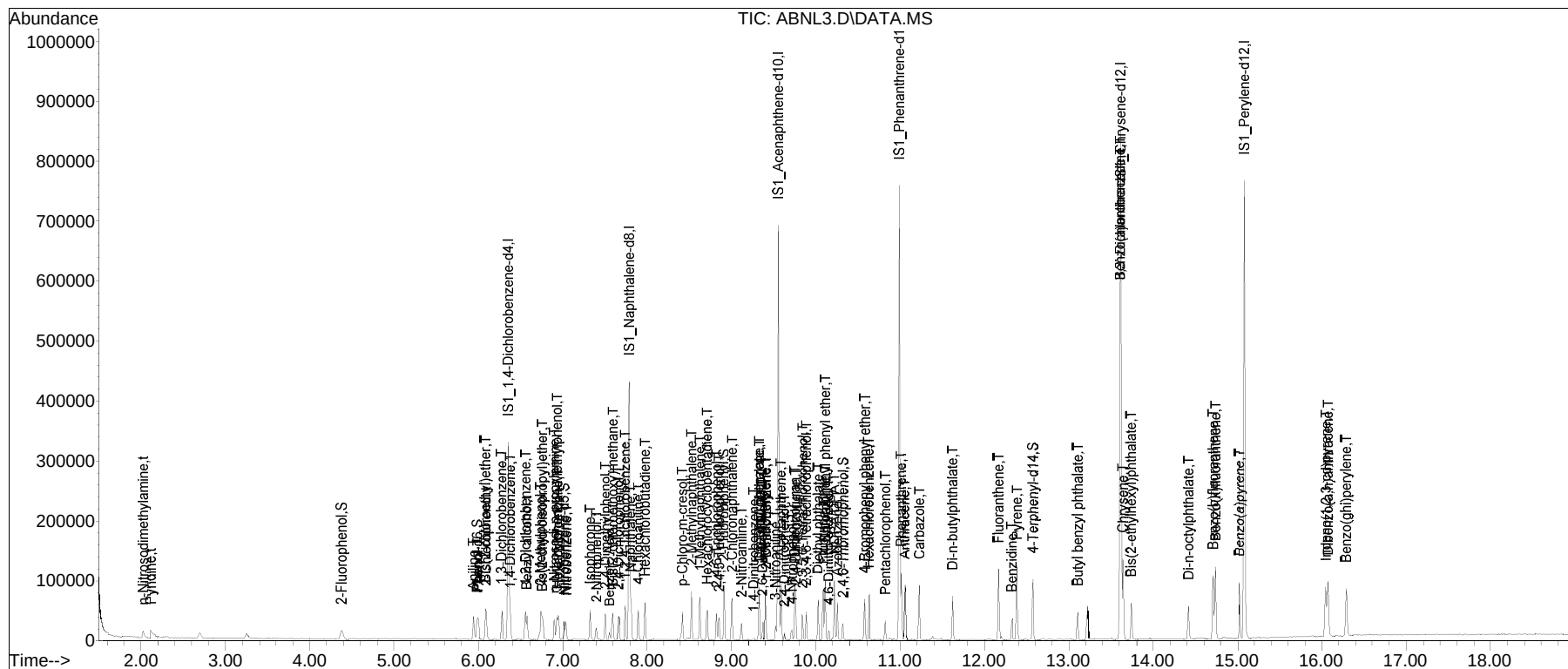
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : I:\8270\SV106\250311RVTical\
Data File  : ABNL3.D
Acq On     : 11 Mar 2025    7:11 pm
Operator   : SV106:ljk
Sample     : IL8,32,,ABNL0.5 Lot# 11431
Misc       : WG2039658,,ical
ALS Vial   : 7    Sample Multiplier: 1
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Quant Time: Mar 12 06:22:46 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

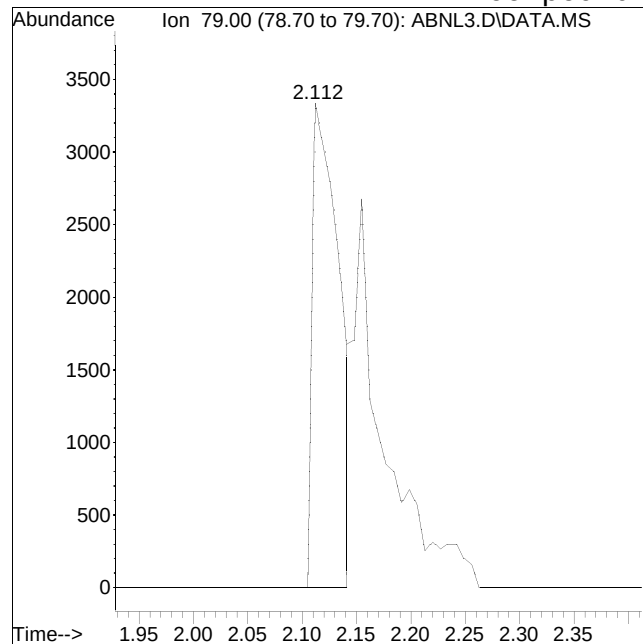
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



Manual Integration Report

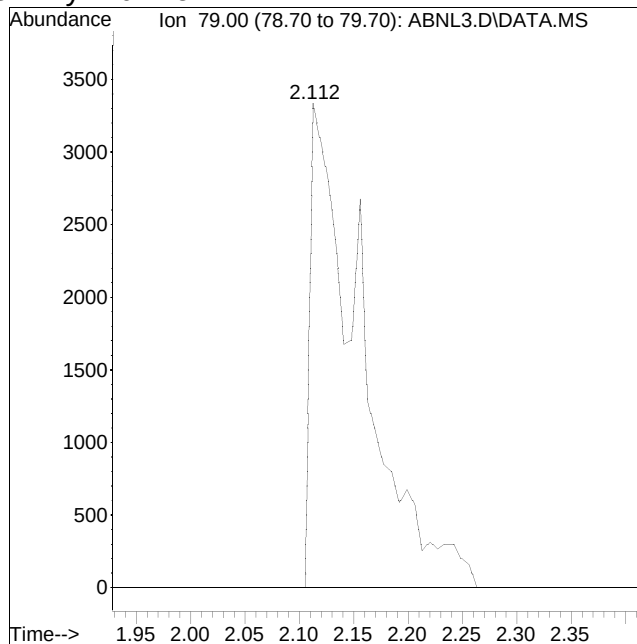
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL3.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:11 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 11431 Quant Date : 3/12/2025 6:14 am

Compound #3: Pyridine



Original Peak Response = 5670

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

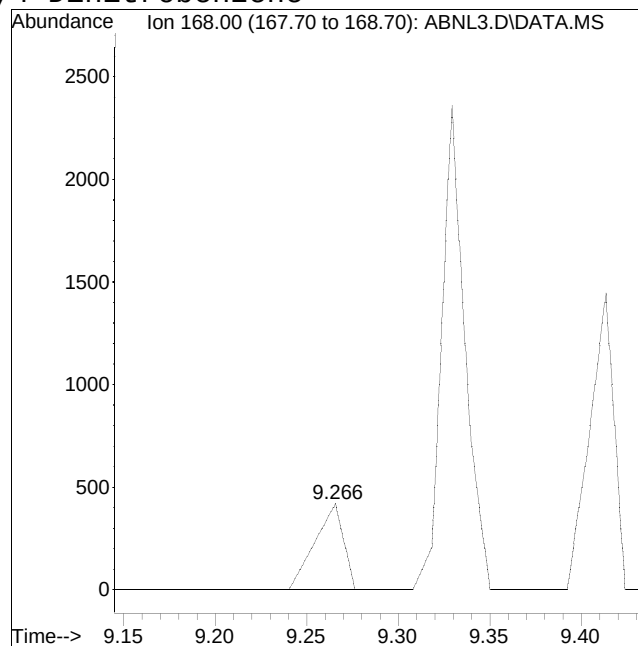
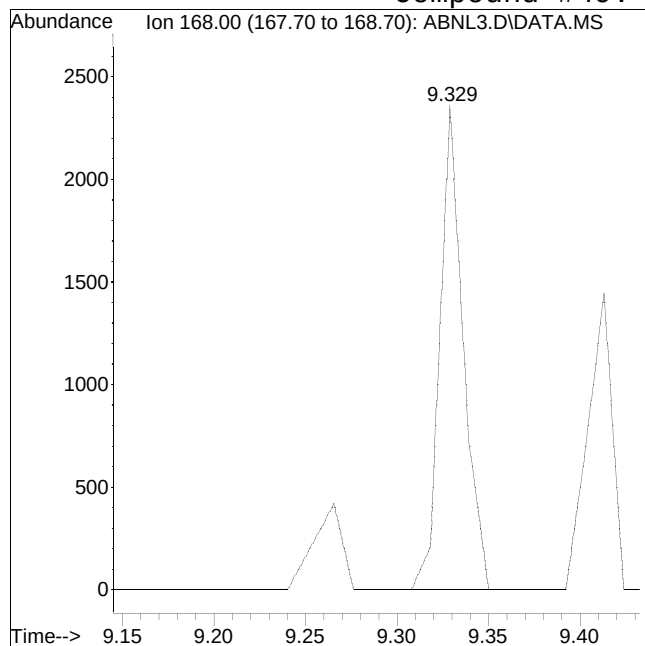


Manual Peak Response = 10850 M1

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL3.D Operator : SV106:ljb
Date Inj'd : 3/11/2025 7:11 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 11431 Quant Date : 3/12/2025 6:14 am

Compound #49: 1,4-Dinitrobenzene



Original Peak Response = 2083

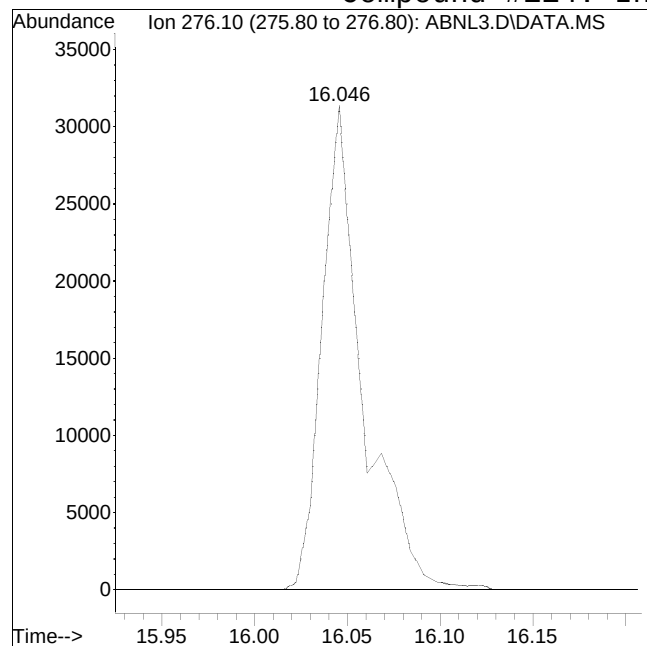
Manual Peak Response = 286 M3

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

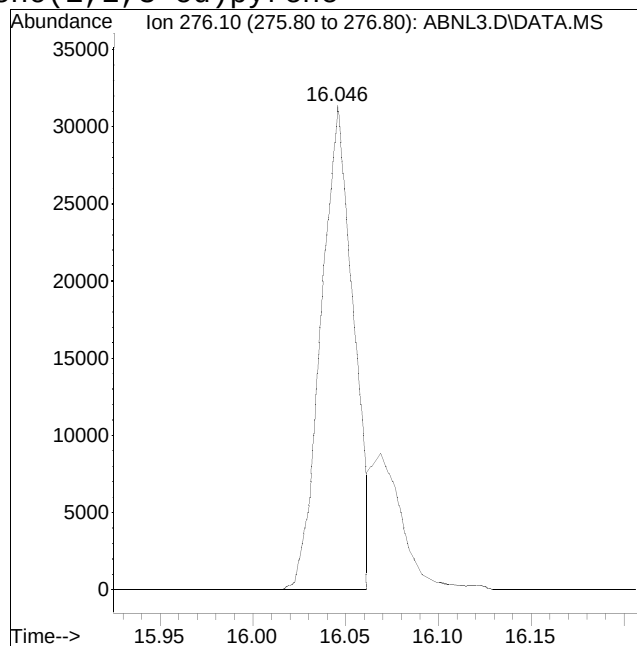
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL3.D Operator : SV106:ljb
Date Inj'd : 3/11/2025 7:11 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 11431 Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 48308

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



Manual Peak Response = 39000 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL2.D
 Acq On : 11 Mar 2025 7:34 pm
 Operator : SV106:ljb
 Sample : IL9,32,,ABNL0.2 Lot# 11432
 Misc : WG2039658,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 12 06:21:39 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	53891	4.000	ug/ml	0.00
Standard Area 1 = 55857			Recovery =	96.48%		
35) IS1_Naphthalene-d8	7.790	136	195073	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery =	95.26%		
63) IS1_Acenaphthene-d10	9.551	164	120815	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery =	91.14%		
88) IS1_Phenanthrene-d10	10.988	188	241512	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery =	92.69%		
104) IS1_Chrysene-d12	13.618	240	246822	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery =	87.74%		
113) IS1_Perylene-d12	15.080	264	268265	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery =	89.25%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.377	112	2881	0.172	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	8.60%#		
7) Phenol-d6	5.977	99	3219	0.160	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	8.00%#		
19) Nitrobenzene-d5	7.018	82	2618	0.143	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	14.30%#		
46) 2-Fluorobiphenyl	8.911	172	8991	0.199	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	19.90%#		
79) 2,4,6-Tribromophenol	10.322	330	991	0.145	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	7.25%#		
96) 4-Terphenyl-d14	12.576	244	12609	0.195	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	19.50%#		
Target Compounds						
2) n-Nitrosodimethylamine	2.026	74	1723	0.168	ug/ml#	88
3) Pyridine	2.141	79	2944	0.179	ug/ml	98
5) Aniline	5.943	93	3970	0.166	ug/ml	96
6) 2-Chlorophenol	6.088	128	3052	0.166	ug/ml	92
8) Phenol	5.994	94	3640	0.174	ug/ml	91
9) Bis(2-chloroethyl)ether	6.079	93	2916	0.169	ug/ml#	75
10) 1,3-Dichlorobenzene	6.274	146	3922	0.174	ug/ml	93
11) 1,4-Dichlorobenzene	6.368	146	4232M3	0.185	ug/ml	
12) 1,2-Dichlorobenzene	6.555	146	4309	0.196	ug/ml	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL2.D
 Acq On : 11 Mar 2025 7:34 pm
 Operator : SV106:ljl
 Sample : IL9,32,,ABNL0.2 Lot# 11432
 Misc : WG2039658,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 12 06:21:39 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.572	79	2115	0.148	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.755	45	7357	0.271	ug/ml#	74
15) 2-Methylphenol	6.740	108	3260	0.215	ug/ml#	89
16) Hexachloroethane	6.942	117	1462	0.177	ug/ml#	59
17) n-Nitrosodi-n-propylamine	6.905	70	2061	0.163	ug/ml#	59
18) 3-Methylphenol/4-Methy...	6.927	108	2734	0.166	ug/ml#	97
20) Nitrobenzene	7.040	77	2740	0.146	ug/ml#	84
21) Isophorone	7.326	82	5492	0.169	ug/ml#	93
22) 2-Nitrophenol	7.401	139	1078	0.112	ug/ml#	81
23) 2,4-Dimethylphenol	7.498	107	2852	0.189	ug/ml	91
24) Bis(2-chloroethoxy)met...	7.596	93	4429	0.204	ug/ml#	87
25) 2,4-Dichlorophenol	7.660	162	2842	0.169	ug/ml#	93
26) 1,2,4-Trichlorobenzene	7.740	180	4103	0.210	ug/ml	93
36) Naphthalene	7.804	128	10315	0.187	ug/ml	98
37) Benzoic Acid	7.558	105	996	1.364	ug/ml#	49
38) 4-Chloroaniline	7.898	65	1298	0.210	ug/ml#	85
39) Hexachlorobutadiene	7.977	225	2316	0.199	ug/ml	90
40) p-Chloro-m-cresol	8.424	107	3265	0.226	ug/ml	93
41) 2-Methylnaphthalene	8.529	142	5962	0.162	ug/ml	91
42) 1-Methylnaphthalene	8.619	115	2560	0.216	ug/ml	88
43) Hexachlorocyclopentadiene	8.709	237	2688	0.210	ug/ml#	94
44) 2,4,6-Trichlorophenol	8.828	196	2186	0.163	ug/ml	99
45) 2,4,5-Trichlorophenol	8.858	196	2087	0.150	ug/ml	95
47) 2-Chloronaphthalene	9.008	162	7024	0.184	ug/ml	95
48) 2-Nitroaniline	9.121	138	1349	0.124	ug/ml	88
49) 1,4-Dinitrobenzene	9.266	168	137M3	0.025	ug/ml	
50) 1,3-Dinitrobenzene	9.329	168	645	0.106	ug/ml#	1
51) Dimethyl phthalate	9.329	163	8707	0.195	ug/ml#	94
52) Acenaphthylene	9.403	152	11483	0.201	ug/ml	99
53) 2,6-Dinitrotoluene	9.371	165	1069	0.118	ug/ml#	84
54) 1,2-Dinitrobenzene	9.414	168	452M3	0.115	ug/ml	
64) 3-Nitroaniline	9.519	138	1116	0.114	ug/ml#	8
65) Acenaphthene	9.582	154	7199	0.206	ug/ml	97
66) 2,4-Dinitrophenol	9.624	184	453M2	1.253	ug/ml	
67) Dibenzofuran	9.751	168	11345	0.201	ug/ml	95
68) 2,4-Dinitrotoluene	9.761	165	1526	0.121	ug/ml	91
69) 4-Nitrophenol	9.719	65	802	0.111	ug/ml#	1
70) 2,3,5,6-Tetrachlorophenol	9.842	232	1709	0.145	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL2.D
 Acq On : 11 Mar 2025 7:34 pm
 Operator : SV106:ljj
 Sample : IL9,32,,ABNL0.2 Lot# 11432
 Misc : WG2039658,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 12 06:21:39 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.884	232	1630	0.140	ug/ml	91
72)	Diethyl phthalate	10.025	149	8034	0.175	ug/ml	98
73)	Fluorene	10.082	166	8807	0.199	ug/ml	99
74)	4-Chlorophenyl phenyl ...	10.110	204	4689	0.207	ug/ml#	84
75)	4-Nitroaniline	10.110	138	1132	0.114	ug/ml	96
76)	4,6-Dinitro-o-cresol	10.152	198	708	0.419	ug/ml#	1
77)	NDPA/DPA	10.223	169	6818	0.179	ug/ml	92
78)	Azobenzene	10.258	77	6249	0.168	ug/ml#	86
80)	4-Bromophenyl phenyl e...	10.579	248	2810	0.200	ug/ml#	77
81)	Hexachlorobenzene	10.624	284	3625	0.228	ug/ml#	78
82)	Pentachlorophenol	10.821	266	1195	0.124	ug/ml	96
89)	Phenanthrene	11.011	178	14503	0.205	ug/ml	98
90)	Anthracene	11.056	178	13619	0.193	ug/ml	100
91)	Carbazole	11.230	167	11418	0.179	ug/ml	96
92)	Di-n-butylphthalate	11.624	149	10617	0.133	ug/ml#	92
93)	Fluoranthene	12.163	202	15327	0.188	ug/ml#	93
94)	Benzidine	12.323	184	2662	0.057	ug/ml#	68
95)	Pyrene	12.379	202	15850	0.184	ug/ml	99
97)	Butyl benzyl phthalate	13.101	149	3705	0.111	ug/ml	89
105)	Benzo(a)anthracene	13.610	228	15401	0.181	ug/ml	97
106)	3,3'-Dichlorobenzidine	13.610	252	4031	0.144	ug/ml#	94
107)	Chrysene	13.641	228	16544	0.203	ug/ml	97
108)	Bis(2-ethylhexyl)phtha...	13.736	149	5363	0.105	ug/ml#	98
109)	Di-n-octylphthalate	14.418	149	8598	0.101	ug/ml#	93
110)	Benzo(b)fluoranthene	14.713	252	14819	0.180	ug/ml	99
111)	Benzo(k)fluoranthene	14.737	252	15180M3	0.198	ug/ml	
112)	Benzo(a)pyrene	15.024	252	13140	0.184	ug/ml#	95
114)	Indeno(1,2,3-cd)pyrene	16.046	276	13369M6	0.164	ug/mL	
115)	Dibenzo(a,h)anthracene	16.069	278	12895	0.167	ug/ml	98
116)	Benzo(ghi)perylene	16.283	276	14447	0.199	ug/ml#	85

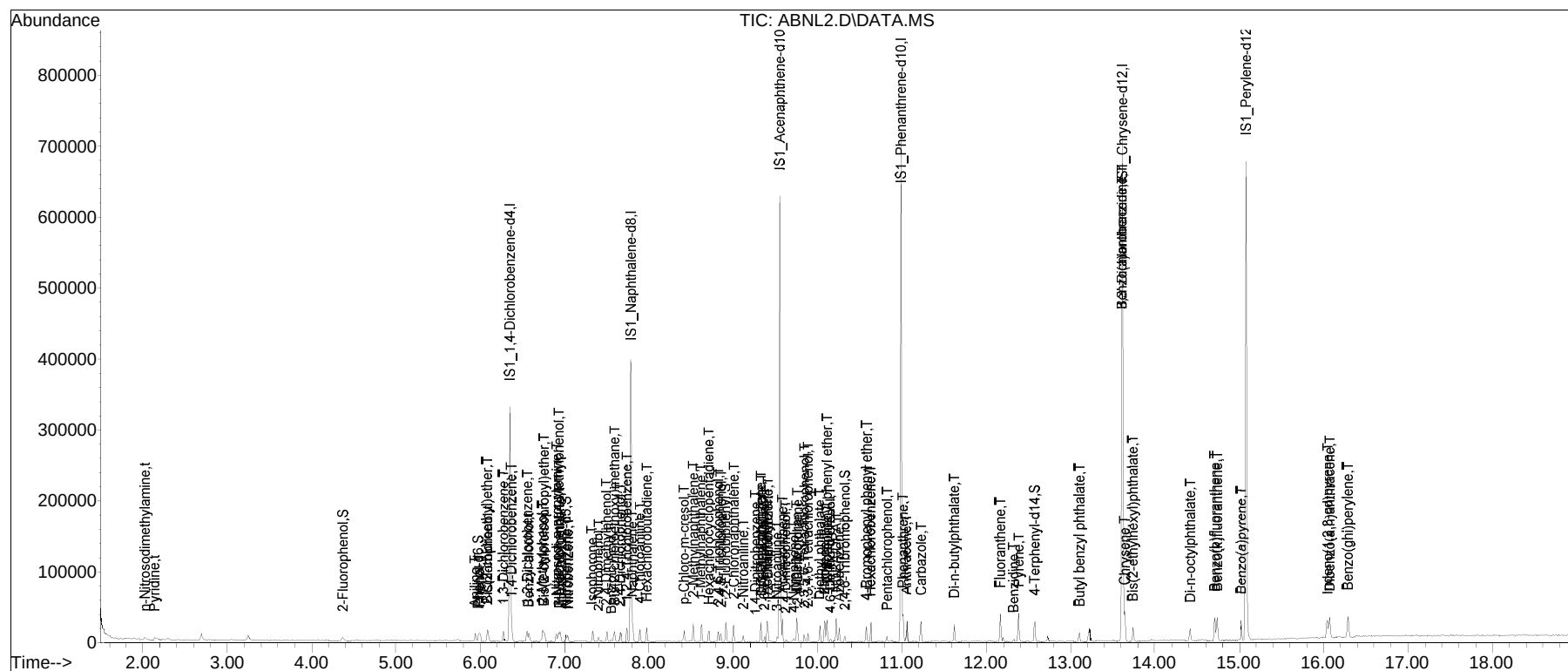
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL2.D
 Acq On : 11 Mar 2025 7:34 pm
 Operator : SV106:ljj
 Sample : IL9,32,,ABNL0.2 Lot# 11432
 Misc : WG2039658,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 12 06:21:39 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

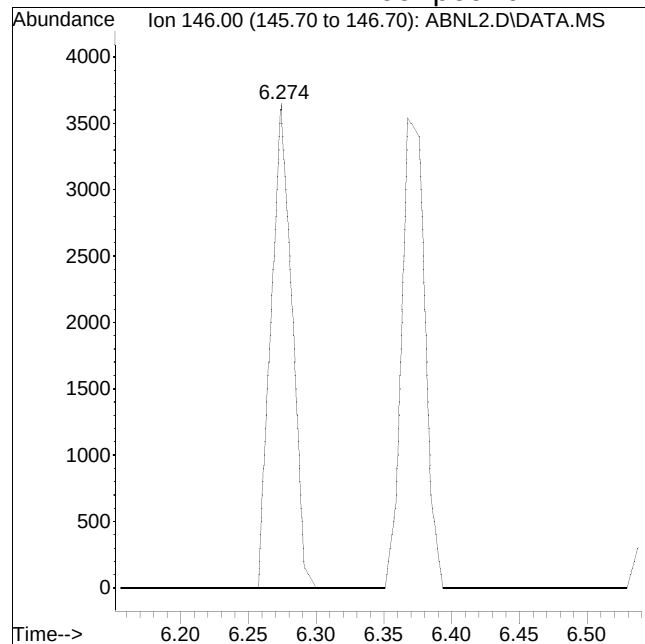
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



Manual Integration Report

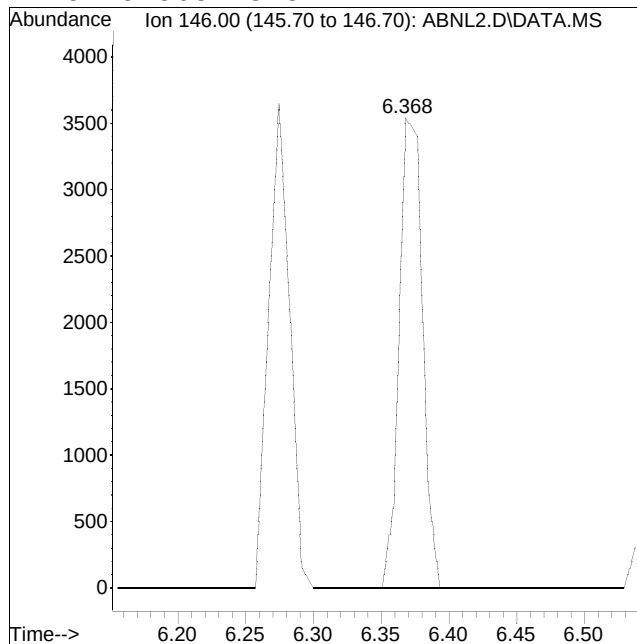
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL2.D Operator : SV106:ljb
Date Inj'd : 3/11/2025 7:34 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11432 Quant Date : 3/12/2025 6:14 am

Compound #11: 1,4-Dichlorobenzene



Original Peak Response = 3922

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.

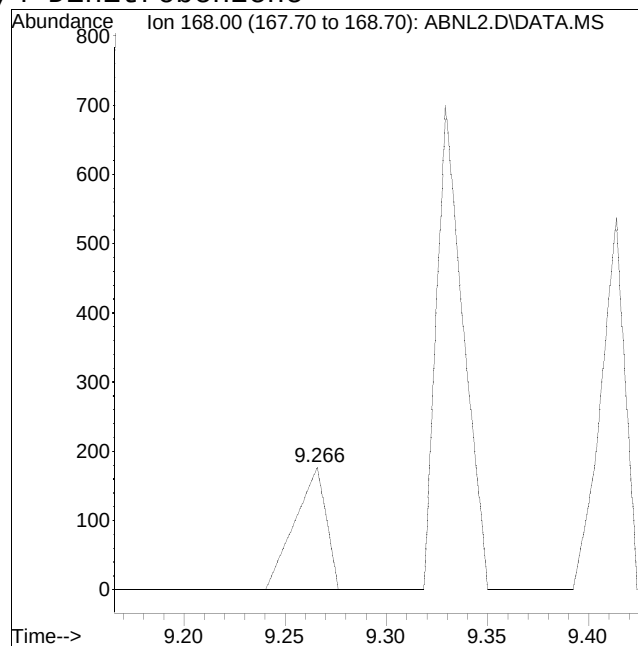
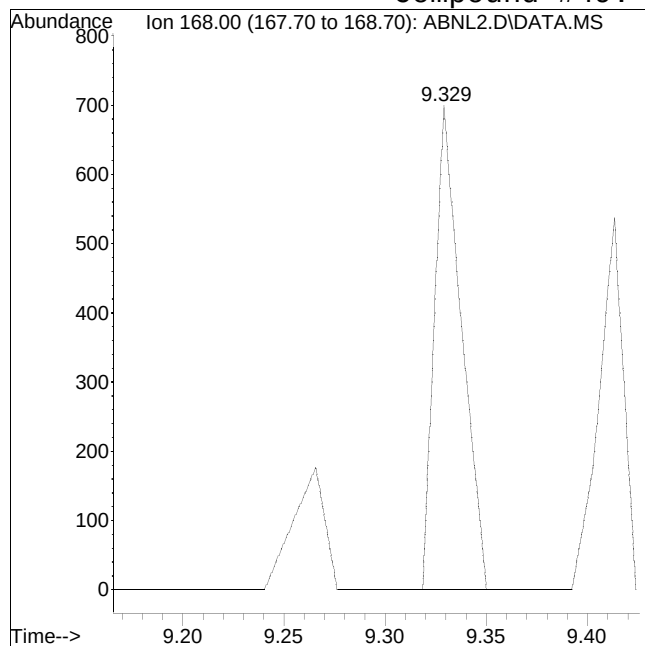


Manual Peak Response = 4232 M3

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL2.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 7:34 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11432 Quant Date : 3/12/2025 6:14 am

Compound #49: 1,4-Dinitrobenzene



Original Peak Response = 645

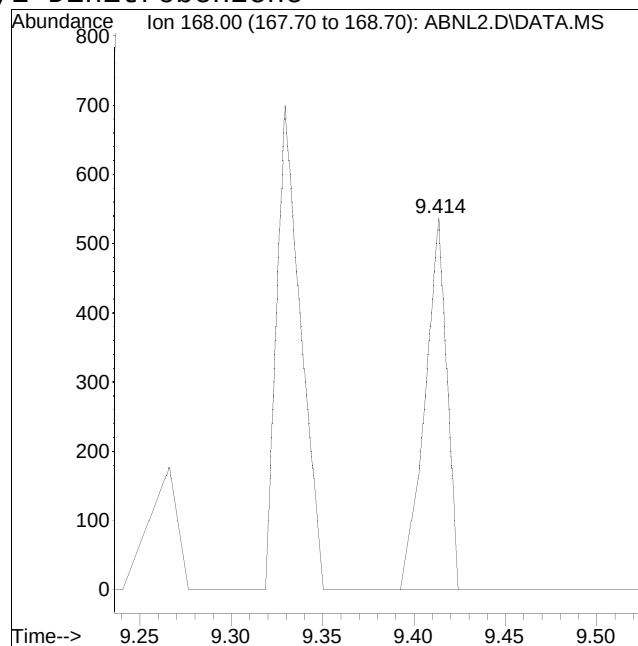
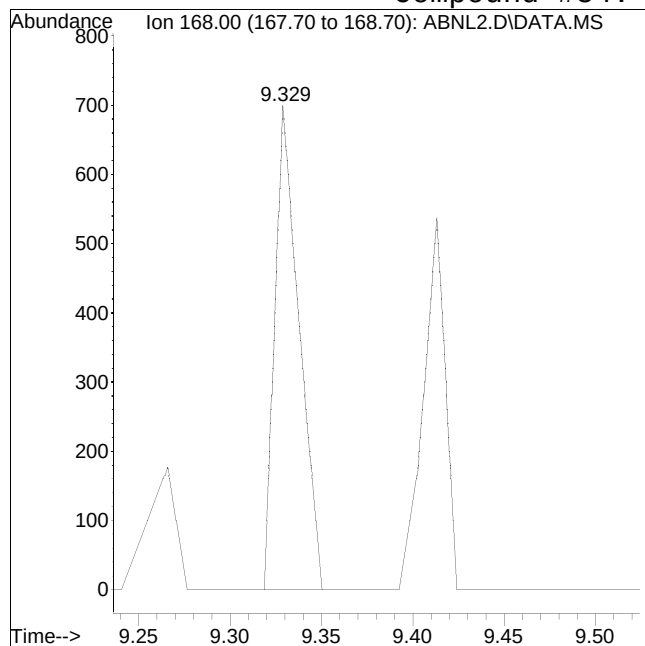
Manual Peak Response = 137 M3

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\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL2.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 7:34 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11432 Quant Date : 3/12/2025 6:14 am

Compound #54: 1,2-Dinitrobenzene



Original Peak Response = 645

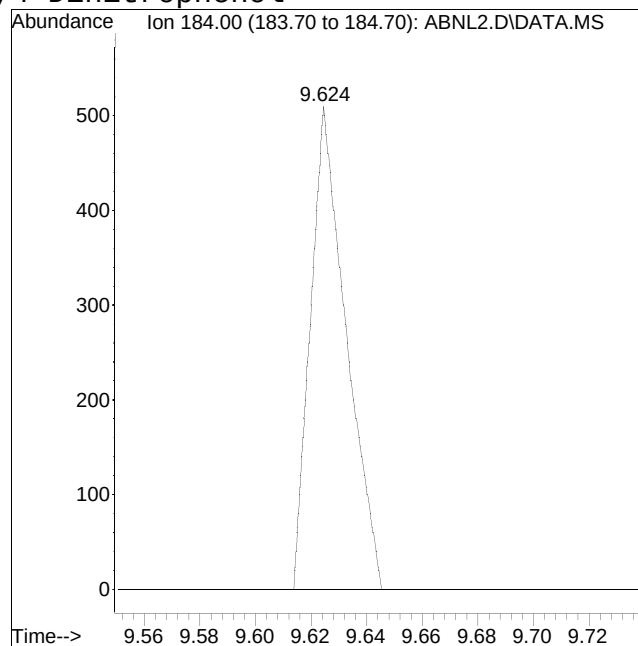
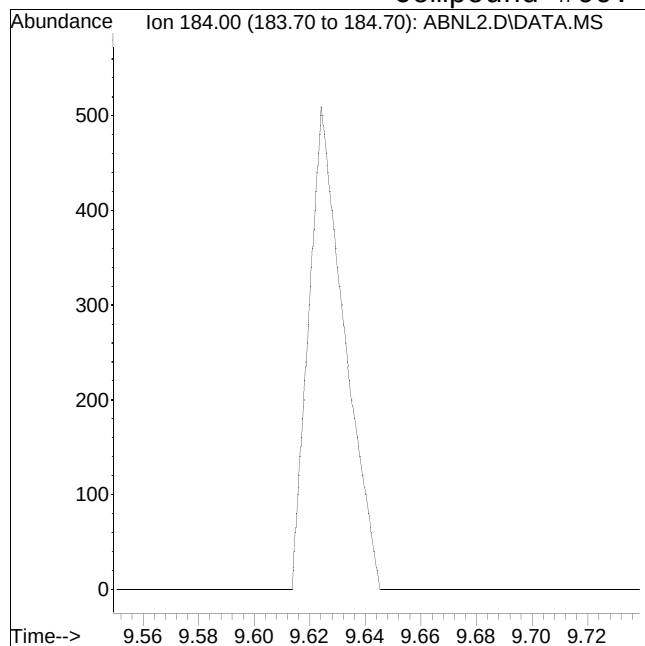
Manual Peak Response = 452 M3

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\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL2.D Operator : SV106:l jg
Date Inj'd : 3/11/2025 7:34 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11432 Quant Date : 3/12/2025 6:14 am

Compound #66: 2,4-Dinitrophenol



Original Peak Response = 0

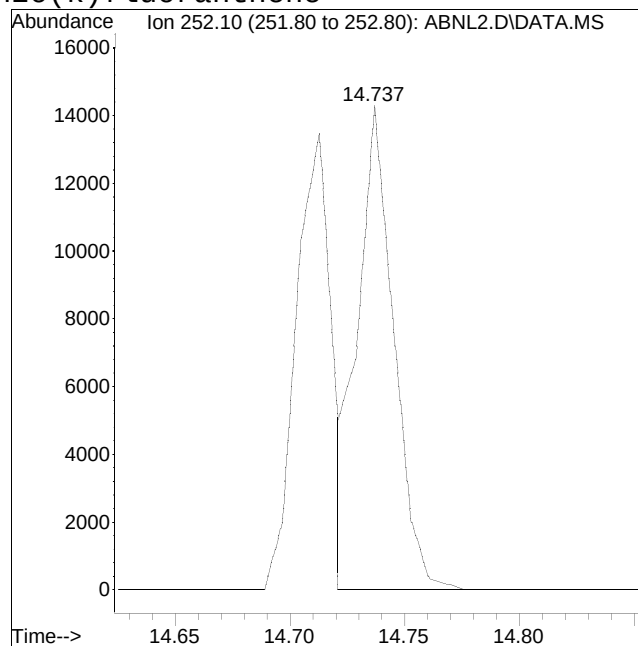
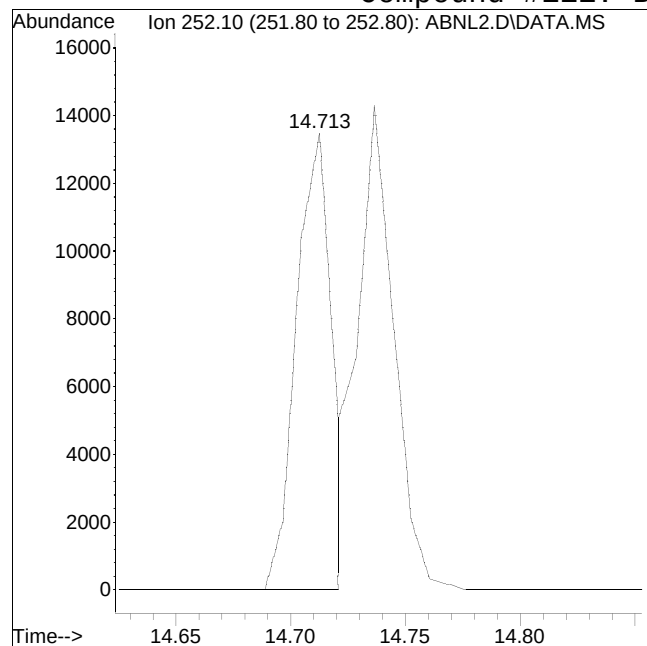
Manual Peak Response = 453 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL2.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 7:34 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11432 Quant Date : 3/12/2025 6:14 am

Compound #111: Benzo(k)fluoranthene



Original Peak Response = 14819

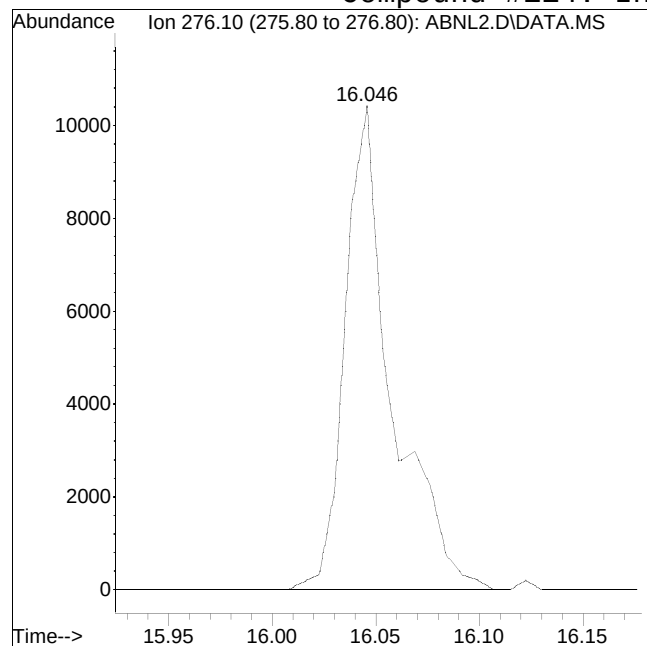
Manual Peak Response = 15180 M3

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

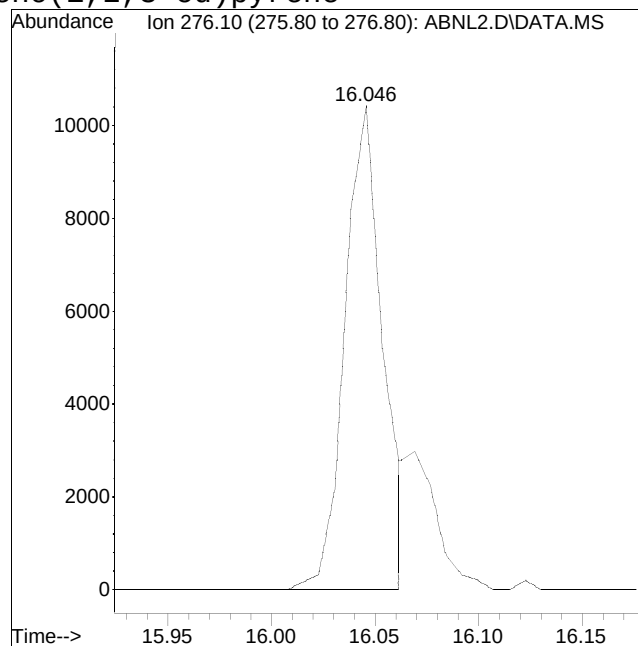
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL2.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 7:34 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11432 Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 16353

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



Manual Peak Response = 13369 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL1.D
 Acq On : 11 Mar 2025 7:58 pm
 Operator : SV106:ljb
 Sample : IL10,32,,ABNL0.1 Lot# 11433
 Misc : WG2039658,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 12 06:20:26 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	58866	4.000	ug/ml	0.00
Standard Area 1 = 55857			Recovery =	105.39%		
35) IS1_Naphthalene-d8	7.783	136	211995	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery =	103.52%		
63) IS1_Acenaphthene-d10	9.550	164	131728	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery =	99.37%		
88) IS1_Phenanthrene-d10	10.988	188	265789	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery =	102.01%		
104) IS1_Chrysene-d12	13.617	240	266677	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery =	94.79%		
113) IS1_Perylene-d12	15.079	264	284137	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery =	94.53%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.377	112	1801	0.098	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	4.90%#		
7) Phenol-d6	5.985	99	2079	0.094	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	4.70%#		
19) Nitrobenzene-d5	7.017	82	1581	0.079	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	7.90%#		
46) 2-Fluorobiphenyl	8.911	172	5700	0.116	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	11.60%#		
79) 2,4,6-Tribromophenol	10.321	330	617	0.083	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	4.15%#		
96) 4-Terphenyl-d14	12.576	244	7960	0.112	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	11.20%#		
Target Compounds						
2) n-Nitrosodimethylamine	2.033	74	1152	0.103	ug/ml#	93
3) Pyridine	2.163	79	1971	0.110	ug/ml	87
5) Aniline	5.943	93	2112	0.081	ug/ml#	75
6) 2-Chlorophenol	6.087	128	1763	0.088	ug/ml#	88
8) Phenol	5.994	94	2485	0.109	ug/ml	95
9) Bis(2-chloroethyl)ether	6.079	93	1859	0.099	ug/ml#	68
10) 1,3-Dichlorobenzene	6.274	146	2673	0.109	ug/ml#	85
11) 1,4-Dichlorobenzene	6.376	146	2612M3	0.104	ug/ml	
12) 1,2-Dichlorobenzene	6.555	146	2175	0.091	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL1.D
 Acq On : 11 Mar 2025 7:58 pm
 Operator : SV106:ljb
 Sample : IL10,32,,ABNL0.1 Lot# 11433
 Misc : WG2039658,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 12 06:20:26 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.572	79	1377	0.088	ug/ml	89
14) Bis(2-chloroisopropyl)...	6.755	45	4549	0.154	ug/ml#	73
15) 2-Methylphenol	6.739	108	2091	0.126	ug/ml#	72
16) Hexachloroethane	6.942	117	876	0.097	ug/ml#	56
17) n-Nitrosodi-n-propylamine	6.905	70	1302	0.094	ug/ml#	59
18) 3-Methylphenol/4-Methy...	6.927	108	1706	0.095	ug/ml#	88
20) Nitrobenzene	7.040	77	1600	0.078	ug/ml#	83
21) Isophorone	7.325	82	3452	0.097	ug/ml#	65
22) 2-Nitrophenol	7.400	139	662	0.063	ug/ml#	31
23) 2,4-Dimethylphenol	7.506	107	1843	0.112	ug/ml	92
24) Bis(2-chloroethoxy)met...	7.595	93	2981	0.125	ug/ml#	87
25) 2,4-Dichlorophenol	7.660	162	1605	0.087	ug/ml	91
26) 1,2,4-Trichlorobenzene	7.739	180	2501	0.117	ug/ml#	78
36) Naphthalene	7.804	128	6568	0.110	ug/ml	98
37) Benzoic Acid	7.558	105	392M2	1.319	ug/ml	
38) 4-Chloroaniline	7.898	65	710	0.106	ug/ml#	88
39) Hexachlorobutadiene	7.977	225	1521	0.120	ug/ml	96
40) p-Chloro-m-cresol	8.424	107	1871	0.119	ug/ml#	87
41) 2-Methylnaphthalene	8.529	142	3751	0.094	ug/ml	96
42) 1-Methylnaphthalene	8.626	115	1491	0.116	ug/ml	96
43) Hexachlorocyclopentadiene	8.708	237	1772	0.128	ug/ml#	88
44) 2,4,6-Trichlorophenol	8.828	196	1481	0.102	ug/ml#	76
45) 2,4,5-Trichlorophenol	8.858	196	1369	0.091	ug/ml#	75
47) 2-Chloronaphthalene	9.008	162	4847	0.117	ug/ml	92
48) 2-Nitroaniline	9.120	138	704	0.059	ug/ml	95
49) 1,4-Dinitrobenzene	0.000		0	N.D.		
50) 1,3-Dinitrobenzene	9.329	168	219M2	0.033	ug/ml	
51) Dimethyl phthalate	9.329	163	5746	0.119	ug/ml#	77
52) Acenaphthylene	9.403	152	7353	0.119	ug/ml	98
53) 2,6-Dinitrotoluene	9.371	165	592	0.060	ug/ml#	1
54) 1,2-Dinitrobenzene	9.413	168	183M2	0.043	ug/ml	
64) 3-Nitroaniline	9.519	138	814	0.077	ug/ml#	22
65) Acenaphthene	9.582	154	4932	0.129	ug/ml	96
66) 2,4-Dinitrophenol	9.624	184	150M2	1.212	ug/ml	
67) Dibenzofuran	9.751	168	7145	0.116	ug/ml	92
68) 2,4-Dinitrotoluene	9.761	165	775	0.056	ug/ml#	63
69) 4-Nitrophenol	9.719	65	592	0.075	ug/ml#	1
70) 2,3,5,6-Tetrachlorophenol	9.849	232	1159	0.090	ug/ml#	68

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNL1.D
 Acq On : 11 Mar 2025 7:58 pm
 Operator : SV106:ljb
 Sample : IL10,32,,ABNL0.1 Lot# 11433
 Misc : WG2039658,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 12 06:20:26 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 06:11:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.884	232	1124	0.089	ug/ml#	61
72)	Diethyl phthalate	10.025	149	4618	0.092	ug/ml#	94
73)	Fluorene	10.089	166	5307	0.110	ug/ml	97
74)	4-Chlorophenyl phenyl ...	10.110	204	2986	0.121	ug/ml#	84
75)	4-Nitroaniline	10.117	138	711	0.066	ug/ml#	57
76)	4,6-Dinitro-o-cresol	10.152	198	502	0.392	ug/ml#	1
77)	NDPA/DPA	10.223	169	4368	0.105	ug/ml	92
78)	Azobenzene	10.258	77	3937	0.097	ug/ml	97
80)	4-Bromophenyl phenyl e...	10.579	248	1839	0.120	ug/ml#	76
81)	Hexachlorobenzene	10.624	284	1943	0.112	ug/ml#	82
82)	Pentachlorophenol	10.821	266	603	0.057	ug/ml#	19
89)	Phenanthrene	11.010	178	9748M3	0.125	ug/ml	
90)	Anthracene	11.056	178	8461	0.109	ug/ml	98
91)	Carbazole	11.230	167	6688	0.096	ug/ml#	93
92)	Di-n-butylphthalate	11.624	149	6922	0.079	ug/ml#	92
93)	Fluoranthene	12.163	202	10090	0.112	ug/ml#	92
94)	Benzidine	12.322	184	897	0.017	ug/ml#	68
95)	Pyrene	12.379	202	10786	0.114	ug/ml	96
97)	Butyl benzyl phthalate	13.101	149	2130	0.058	ug/ml#	87
105)	Benzo(a)anthracene	13.609	228	9892	0.108	ug/ml	97
106)	3,3'-Dichlorobenzidine	13.609	252	2443	0.081	ug/ml#	89
107)	Chrysene	13.641	228	10423	0.118	ug/ml	94
108)	Bis(2-ethylhexyl)phtha...	13.736	149	3322	0.060	ug/ml#	94
109)	Di-n-octylphthalate	14.418	149	5178	0.057	ug/ml#	88
110)	Benzo(b)fluoranthene	14.713	252	9140	0.103	ug/ml#	96
111)	Benzo(k)fluoranthene	14.737	252	9658	0.117	ug/ml#	93
112)	Benzo(a)pyrene	15.024	252	8002	0.104	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	16.046	276	7771M6	0.090	ug/mL	
115)	Dibenzo(a,h)anthracene	16.069	278	8096	0.099	ug/ml#	92
116)	Benzo(ghi)perylene	16.283	276	8031	0.105	ug/ml#	89

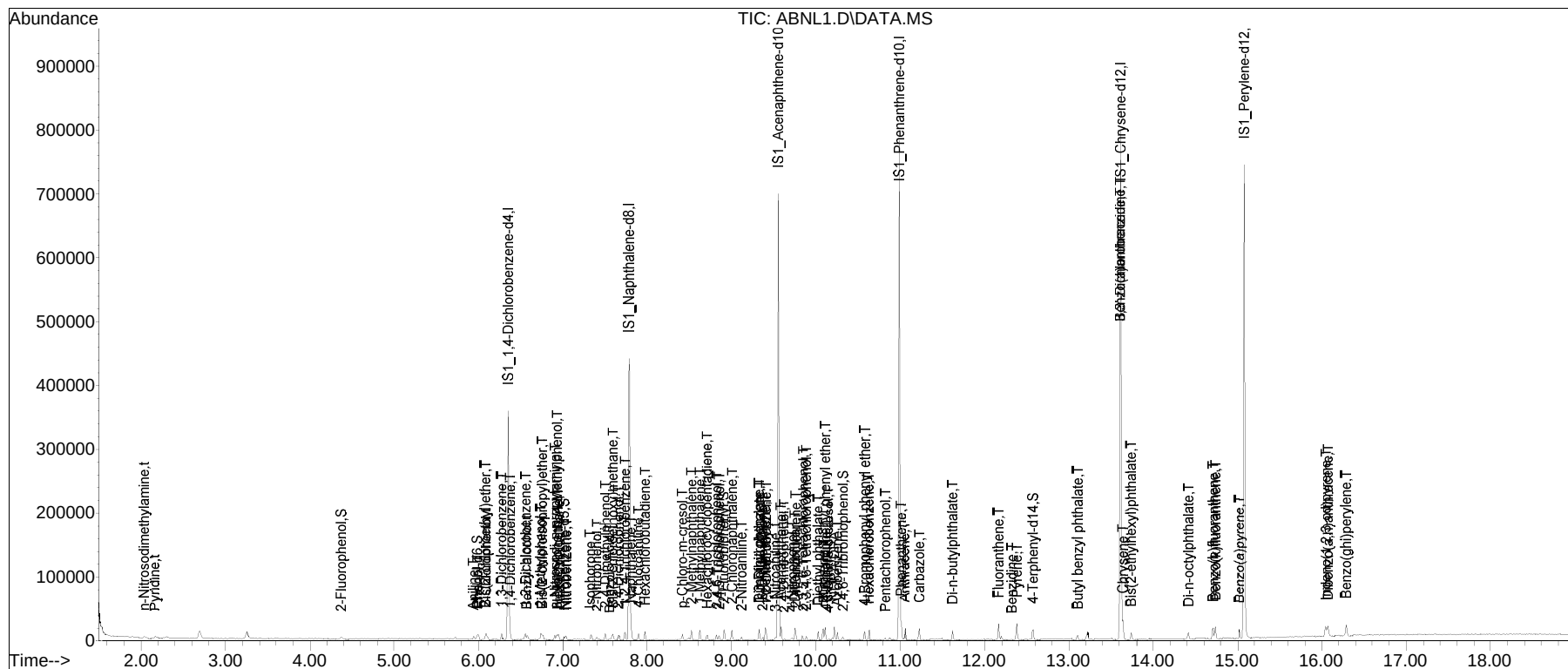
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path   : I:\8270\SV106\250311RVTical\  
Data File  : ABNL1.D  
Acq On     : 11 Mar 2025    7:58 pm  
Operator   : SV106:ljl  
Sample     : IL10,32,,ABNL0.1 Lot# 11433  
Misc      : WG2039658,,ical  
ALS Vial   : 9    Sample Multiplier: 1
```

Quant Time: Mar 12 06:20:26 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

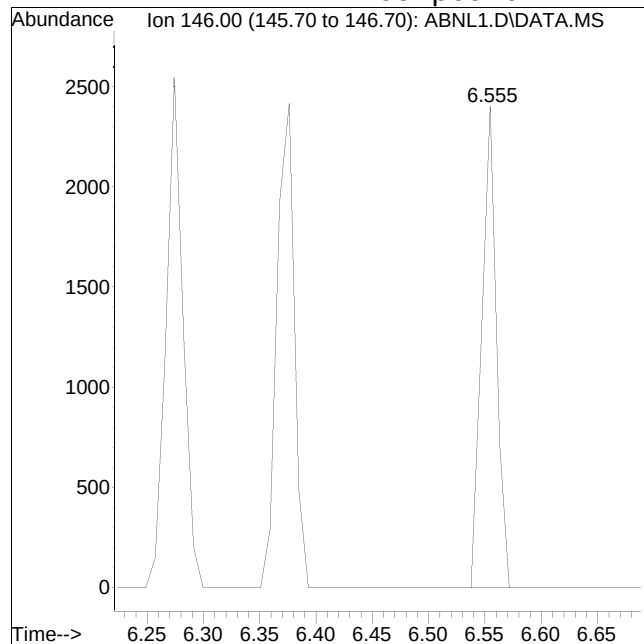
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



Manual Integration Report

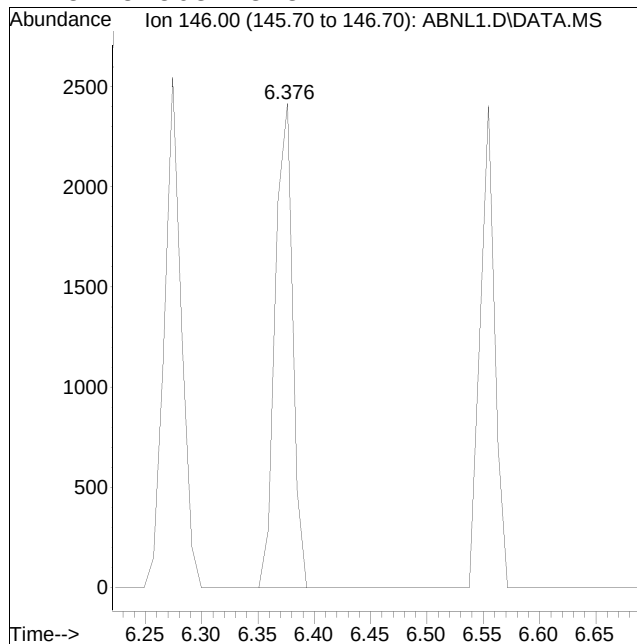
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL1.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 7:58 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1143 Quant Date : 3/12/2025 6:14 am

Compound #11: 1,4-Dichlorobenzene



Original Peak Response = 2175

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.

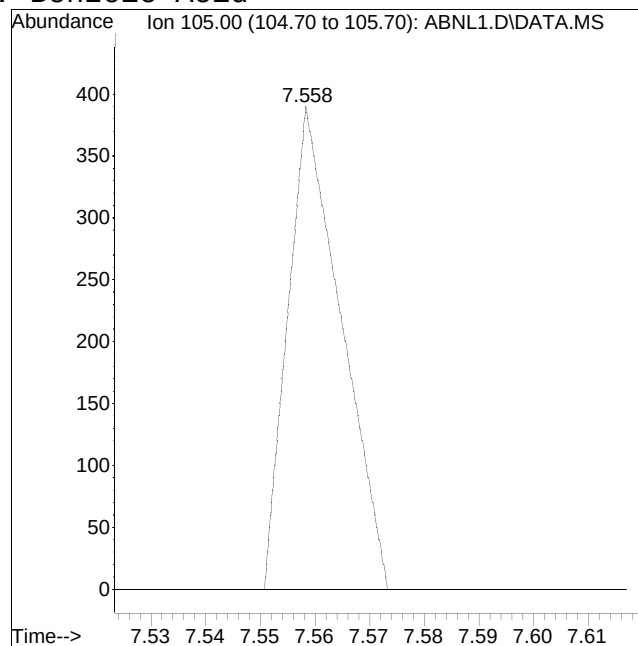
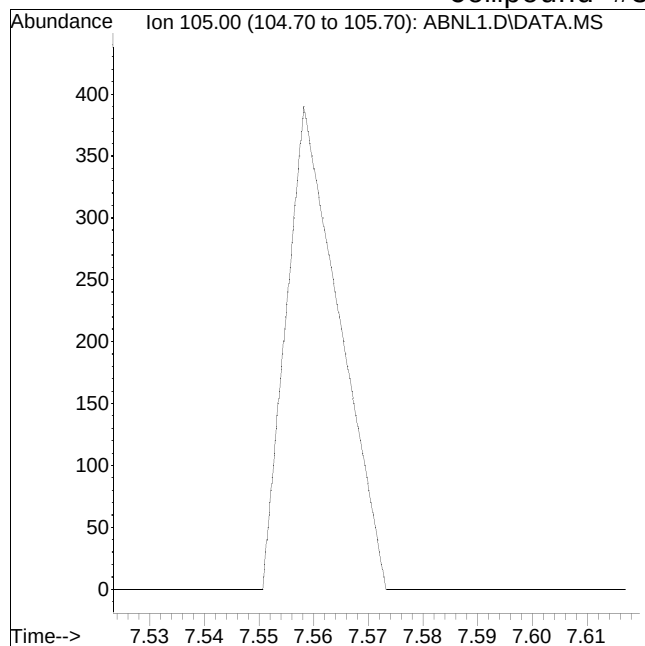


Manual Peak Response = 2612 M3

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL1.D Operator : SV106:ljb
Date Inj'd : 3/11/2025 7:58 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1143 Quant Date : 3/12/2025 6:14 am

Compound #37: Benzoic Acid



Original Peak Response = 0

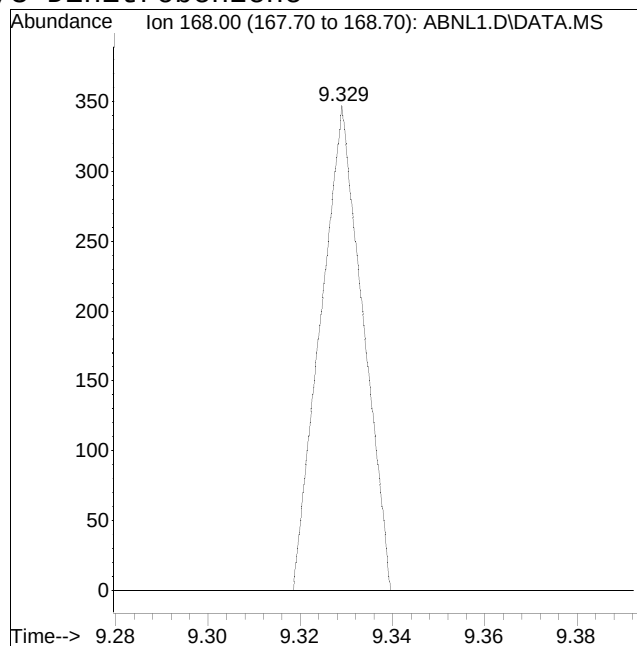
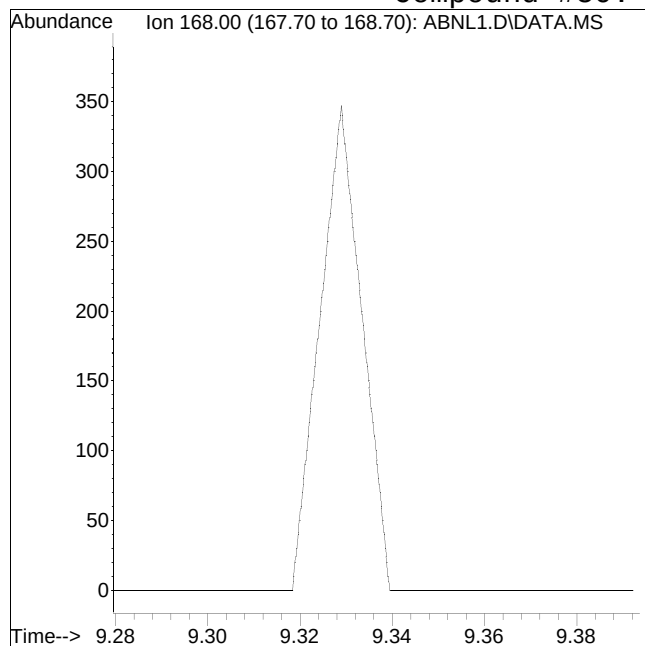
Manual Peak Response = 392 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL1.D Operator : SV106:ljb
Date Inj'd : 3/11/2025 7:58 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1143 Quant Date : 3/12/2025 6:14 am

Compound #50: 1,3-Dinitrobenzene



Original Peak Response = 0

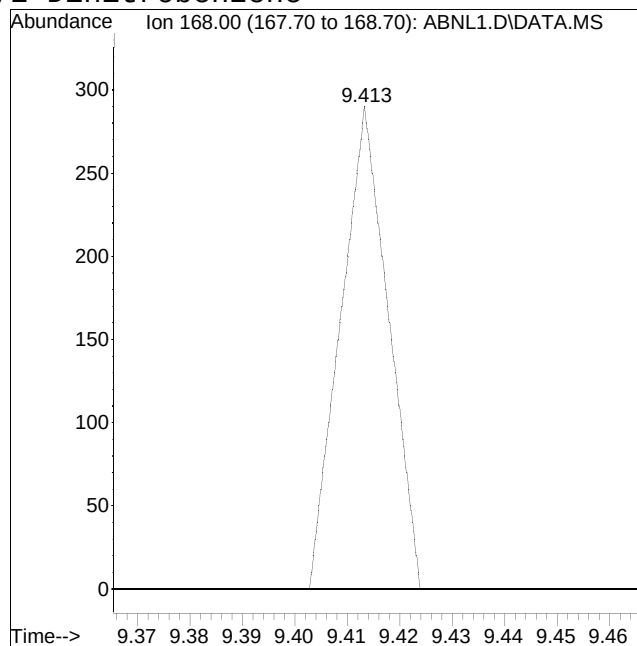
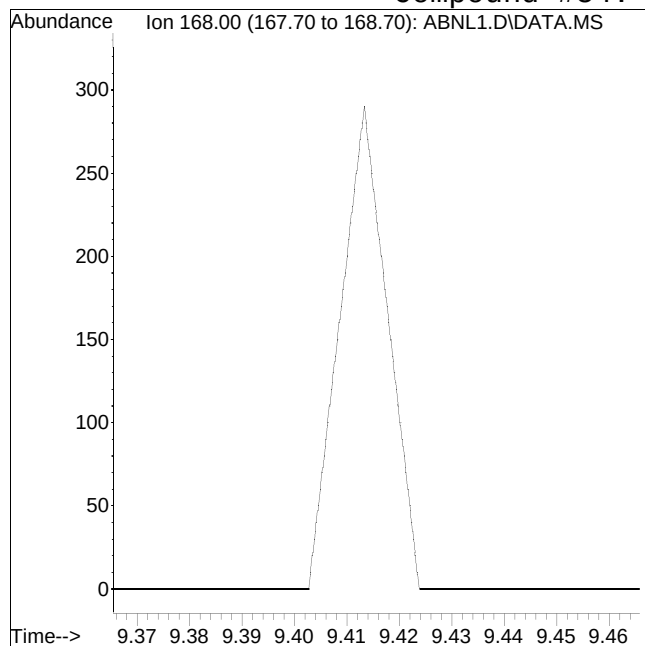
Manual Peak Response = 219 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL1.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 7:58 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1143 Quant Date : 3/12/2025 6:14 am

Compound #54: 1,2-Dinitrobenzene



Original Peak Response = 0

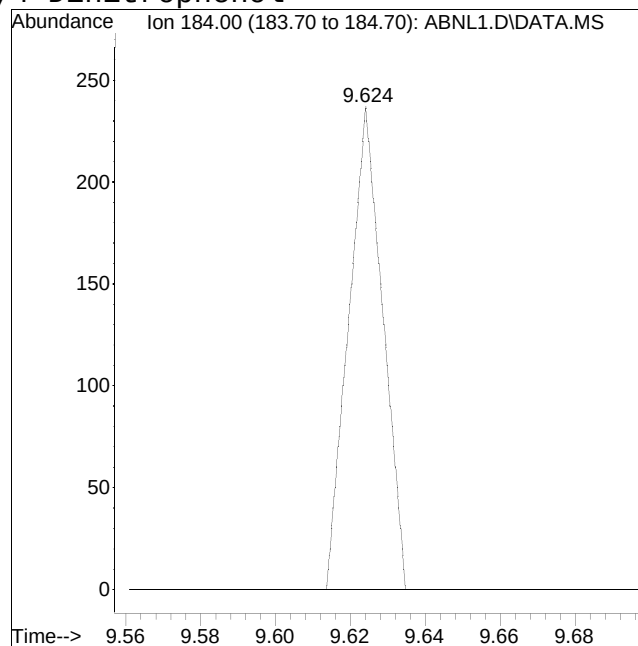
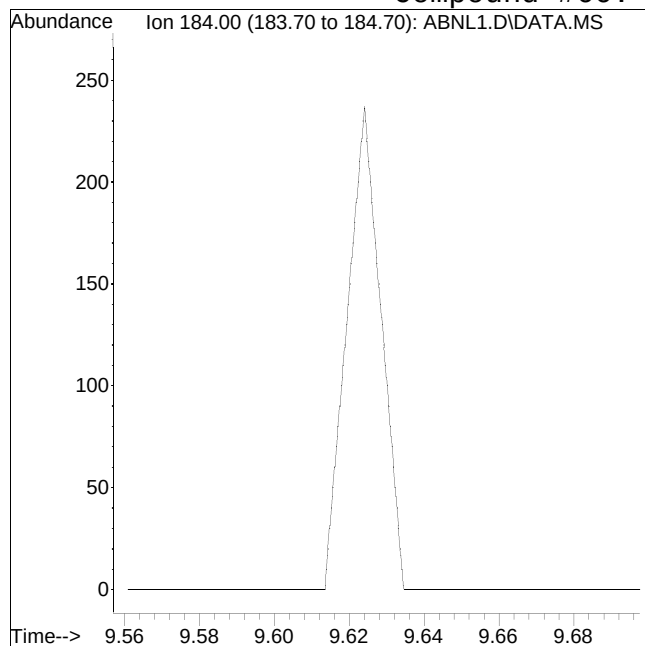
Manual Peak Response = 183 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL1.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 7:58 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1143 Quant Date : 3/12/2025 6:14 am

Compound #66: 2,4-Dinitrophenol



Original Peak Response = 0

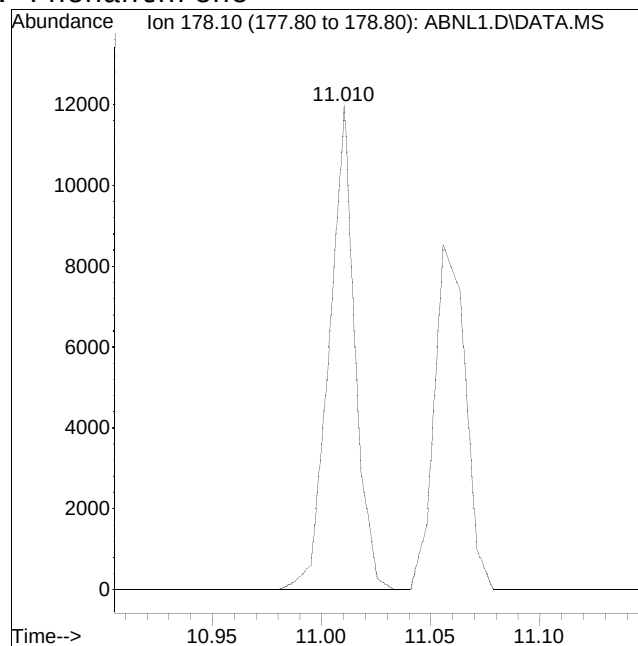
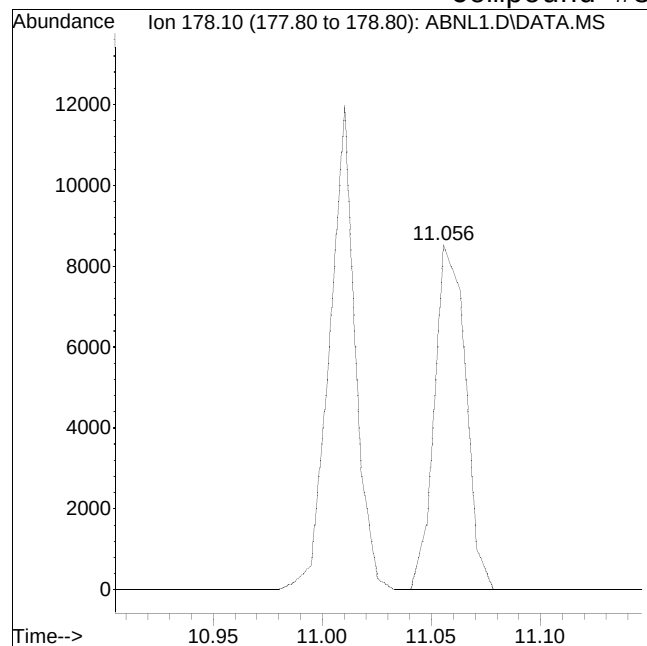
Manual Peak Response = 150 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL1.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 7:58 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1143 Quant Date : 3/12/2025 6:14 am

Compound #89: Phenanthrene



Original Peak Response = 8461

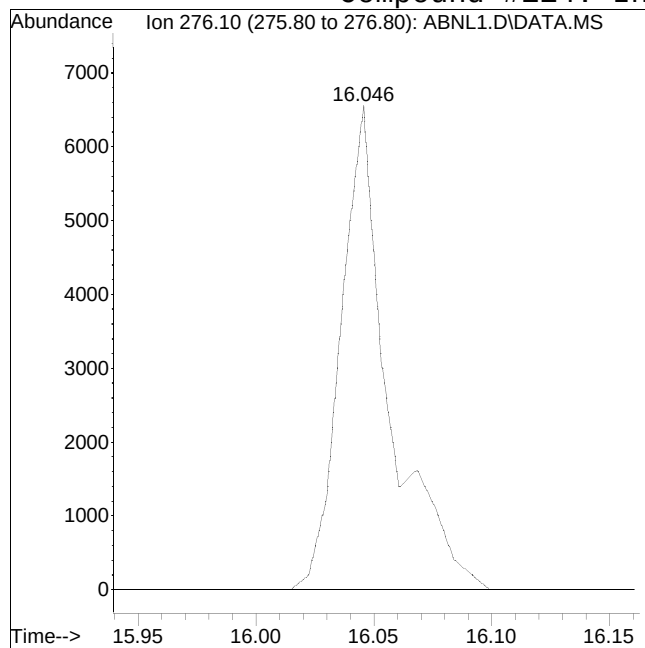
Manual Peak Response = 9748 M3

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

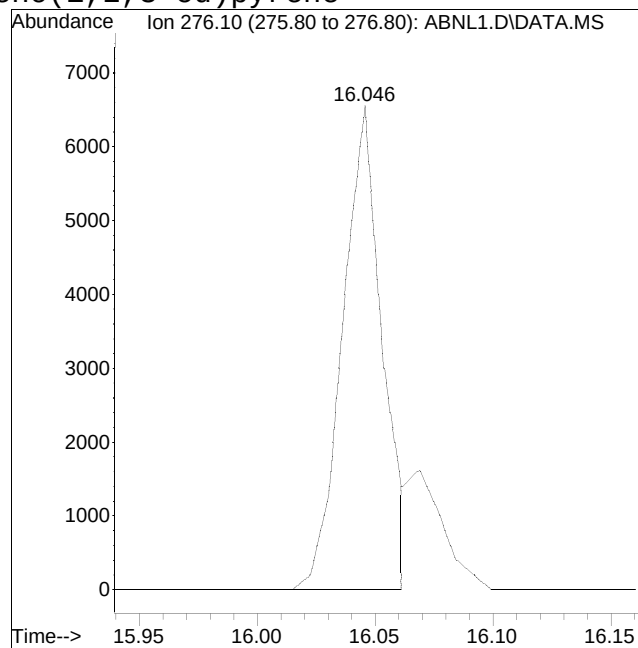
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL1.D Operator : SV106:l jg
Date Inj'd : 3/11/2025 7:58 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1143 Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 9310

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



Manual Peak Response = 7771 M6

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNICV.D
 Acq On : 11 Mar 2025 10:18 pm
 Operator : SV106:ljb
 Sample : CQICV1,32,,ABNICV Lot# 11452
 Misc : WG2039658,,ical
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:20:40 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 12:21:40 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	100	0.00
2 t	n-Nitrosodimethylamine	0.718	0.747	-4.0	106	0.00
3 t	Pyridine	1.251	0.932	25.5#	81	0.00
4 S	2-Fluorophenol	1.128	1.179	-4.5	106	0.00
5 T	Aniline	1.738	1.870	-7.6	103	0.00
6 t	2-Chlorophenol	1.218	1.291	-6.0	107	0.00
7 S	Phenol-d6	1.323	1.425	-7.7	109	0.00
8 T	Phenol	1.459	1.543	-5.8	108	0.00
9 T	Bis(2-chloroethyl)ether	1.159	1.236	-6.6	109	0.00
10 T	1,3-Dichlorobenzene	1.540	1.642	-6.6	112	0.00
11 T	1,4-Dichlorobenzene	1.574	1.637	-4.0	106	0.00
12 T	1,2-Dichlorobenzene	1.490	1.575	-5.7	110	0.00
13 t	Benzyl alcohol	0.910	0.940	-3.3	103	0.00
14 T	Bis(2-chloroisopropyl)ether	2.704	3.081	-13.9	118	0.00
15 T	2-Methylphenol	1.283	1.331	-3.7	108	0.00
16 T	Hexachloroethane	0.546	0.580	-6.2	107	0.00
17 T	n-Nitrosodi-n-propylamine	0.855	0.900	-5.3	106	0.00
18 T	3-Methylphenol/4-Methylphen	1.110	1.198	-7.9	108	0.00
19 S	Nitrobenzene-d5	1.096	1.092	0.4	99	0.00
20 T	Nitrobenzene	1.118	1.119	-0.1	98	0.00
21 T	Isophorone	2.296	2.405	-4.7	105	0.00
22 T	2-Nitrophenol	0.509	0.472	7.3	92	0.00
23 T	2,4-Dimethylphenol	1.198	1.282	-7.0	104	0.00
24 T	Bis(2-chloroethoxy)methane	1.639	1.372	16.3	93	0.00
25 T	2,4-Dichlorophenol	1.137	1.215	-6.9	105	0.00
26 T	1,2,4-Trichlorobenzene	1.457	1.484	-1.9	107	0.00
35 I	IS1_Naphthalene-d8	1.000	1.000	0.0	101	0.00
36 T	Naphthalene	1.066	1.108	-3.9	110	0.00
37 T	Benzoic Acid	* 5.000	3.503	29.9#	92	0.00
38 T	4-Chloroaniline	0.132	0.141	-6.8	107	0.00
39 T	Hexachlorobutadiene	0.244	0.243	0.4	102	0.00
40 T	p-Chloro-m-cresol	0.325	0.320	1.5	104	0.00
41 T	2-Methylnaphthalene	0.638	0.686	-7.5	111	0.00
42 T	1-Methylnaphthalene	0.245	0.250	-2.0	108	0.00
43 T	Hexachlorocyclopentadiene	0.300	0.289	3.7	98	0.00
44 T	2,4,6-Trichlorophenol	0.251	0.240	4.4	96	0.00
45 T	2,4,5-Trichlorophenol	0.255	0.288	-12.9	110	0.00
46 S	2-Fluorobiphenyl	0.923	0.949	-2.8	107	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNICV.D
 Acq On : 11 Mar 2025 10:18 pm
 Operator : SV106:ljj
 Sample : CQICV1,32,,ABNICV Lot# 11452
 Misc : WG2039658,,ical
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:20:40 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 12:21:40 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	0.756	0.785	-3.8	108	0.00
48 T	2-Nitroaniline	0.166	0.168	-1.2	97	0.00
49 T	1,4-Dinitrobenzene	* 5.000	3.021	39.6#	51	0.00
50 T	1,3-Dinitrobenzene	0.104	0.094	9.6	95	0.00
51 T	Dimethyl phthalate	0.908	0.951	-4.7	106	0.00
52 T	Acenaphthylene	1.201	1.287	-7.2	110	0.00
53 T	2,6-Dinitrotoluene	0.151	0.172	-13.9	97	0.00
54 T	1,2-Dinitrobenzene	0.063	0.066	-4.8	96	0.00
63 I	IS1_Acenaphthene-d10	1.000	1.000	0.0	98	0.00
64 T	3-Nitroaniline	0.252	0.271	-7.5	100	-0.01
65 T	Acenaphthene	1.101	1.095	0.5	105	0.00
66 T	2,4-Dinitrophenol	* 5.000	4.704	5.9	103	0.00
67 T	Dibenzofuran	1.914	1.878	1.9	109	0.00
68 T	2,4-Dinitrotoluene	* 5.000	4.642	7.2	95	0.00
69 T	4-Nitrophenol	0.192	0.209	-8.9	103	-0.01
70 T	2,3,5,6-Tetrachlorophenol	0.365	0.509	-39.5#	141	0.00
71 T	2,3,4,6-Tetrachlorophenol	0.344	0.373	-8.4	105	0.00
72 T	Diethyl phthalate	1.359	1.427	-5.0	104	0.00
73 T	Fluorene	1.410	1.469	-4.2	107	0.00
74 T	4-Chlorophenyl phenyl ether	0.738	0.743	-0.7	106	0.00
75 T	4-Nitroaniline	0.246	0.258	-4.9	97	0.00
76 T	4,6-Dinitro-o-cresol	* 5.000	4.140	17.2	95	0.00
77 T	NDPA/DPA	1.176	1.247	-6.0	108	0.00
78 T	Azobenzene	1.121	1.217	-8.6	108	0.00
79 S	2,4,6-Tribromophenol	0.206	0.221	-7.3	101	0.00
80 T	4-Bromophenyl phenyl ether	0.463	0.455	1.7	102	0.00
81 T	Hexachlorobenzene	0.543	0.542	0.2	106	0.00
82 T	Pentachlorophenol	0.282	0.268	5.0	95	0.00
88 I	IS1_Phenanthrene-d10	1.000	1.000	0.0	98	0.00
89 T	Phenanthrene	1.135	1.174	-3.4	108	0.00
90 T	Anthracene	1.107	1.189	-7.4	107	0.00
91 T	Carbazole	0.989	1.081	-9.3	106	0.00
92 T	Di-n-butylphthalate	1.116	1.329	-19.1	117	0.00
93 T	Fluoranthene	1.298	1.388	-6.9	108	0.00
94 T	Benzidine	0.704	0.825	-17.2	109	0.00
95 T	Pyrene	1.359	1.446	-6.4	107	0.00
96 S	4-Terphenyl-d14	1.038	1.111	-7.0	109	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNICV.D
 Acq On : 11 Mar 2025 10:18 pm
 Operator : SV106:ljpg
 Sample : CQICV1,32,,ABNICV Lot# 11452
 Misc : WG2039658,,ical
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:20:40 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 12:21:40 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	*	5.000	4.295	14.1	96	0.00
104 I	IS1_Chrysene-d12		1.000	1.000	0.0	100	0.00
105 T	Benzo(a)anthracene		1.278	1.357	-6.2	111	0.00
106 T	3,3'-Dichlorobenzidine		0.429	0.511	-19.1	112	0.00
107 T	Chrysene		1.267	1.225	3.3	103	0.00
108 T	Bis(2-ethylhexyl)phthalate	*	5.000	4.614	7.7	102	0.00
109 T	Di-n-octylphthalate	*	5.000	4.265	14.7	99	0.00
110 T	Benzo(b)fluoranthene		1.314	1.500	-14.2	112	0.00
111 T	Benzo(k)fluoranthene		1.222	1.186	2.9	100	-0.02
112 T	Benzo(a)pyrene		1.157	1.260	-8.9	107	0.00
113 I	IS1_Perylene-d12		1.000	1.000	0.0	99	0.00
114 T	Indeno(1,2,3-cd)pyrene		1.068	1.151	-7.8	100	0.00
115 T	Dibenzo(a,h)anthracene		1.063	1.179	-10.9	106	-0.02
116 T	Benzo(ghi)perylene		1.047	1.128	-7.7	104	-0.02

* 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\250311RVTical\
 Data File : ABNICV.D
 Acq On : 11 Mar 2025 10:18 pm
 Operator : SV106:ljj
 Sample : CQICV1,32,,ABNICV Lot# 11452
 Misc : WG2039658,,ical
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:20:40 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 12:21:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	55635	4.000	ug/ml	0.00
Standard Area 1 = 55857			Recovery =	99.60%		
35) IS1_Naphthalene-d8	7.782	136	206444	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery =	100.81%		
63) IS1_Acenaphthene-d10	9.550	164	130053	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery =	98.11%		
88) IS1_Phenanthrene-d10	10.988	188	255579	4.000	ug/ml	# 0.00
Standard Area 1 = 260564			Recovery =	98.09%		
104) IS1_Chrysene-d12	13.609	240	280312	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery =	99.64%		
113) IS1_Perylene-d12	15.071	264	296085	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery =	98.50%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.377	112	81992	5.225	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	261.25%#		
7) Phenol-d6	5.977	99	99086	5.386	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	269.30%#		
19) Nitrobenzene-d5	7.017	82	75927	4.982	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	498.20%#		
46) 2-Fluorobiphenyl	8.911	172	244997	5.141	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	514.10%#		
79) 2,4,6-Tribromophenol	10.321	330	35854	5.362	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	268.10%#		
96) 4-Terphenyl-d14	12.566	244	354778	5.351	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	535.10%#		
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.004	74	51950	5.201	ug/ml	88
3) Pyridine	2.062	79	64794	3.725	ug/ml	80
5) Aniline	5.943	93	130036	5.379	ug/ml	98
6) 2-Chlorophenol	6.079	128	89808	5.302	ug/ml	95
8) Phenol	5.994	94	107273	5.286	ug/ml	99
9) Bis(2-chloroethyl)ether	6.070	93	85977	5.332	ug/ml#	75
10) 1,3-Dichlorobenzene	6.274	146	114203	5.331	ug/ml	96
11) 1,4-Dichlorobenzene	6.368	146	113836	5.198	ug/ml	98
12) 1,2-Dichlorobenzene	6.554	146	109498	5.282	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNICV.D
 Acq On : 11 Mar 2025 10:18 pm
 Operator : SV106:ljj
 Sample : CQICV1,32,,ABNICV Lot# 11452
 Misc : WG2039658,,ical
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:20:40 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 12:21:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.563	79	65361	5.162	ug/ml	95
14) Bis(2-chloroisopropyl)...	6.747	45	214270	5.697	ug/ml#	72
15) 2-Methylphenol	6.739	108	92542	5.188	ug/ml	97
16) Hexachloroethane	6.942	117	40367	5.314	ug/ml#	58
17) n-Nitrosodi-n-propylamine	6.897	70	62622	5.268	ug/ml	93
18) 3-Methylphenol/4-Methy...	6.927	108	83330	5.397	ug/ml	97
20) Nitrobenzene	7.032	77	77805	5.002	ug/ml	99
21) Isophorone	7.318	82	167265	5.239	ug/ml	98
22) 2-Nitrophenol	7.393	139	32856	4.641	ug/ml	90
23) 2,4-Dimethylphenol	7.498	107	89154	5.349	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.595	93	95427	4.187	ug/ml	97
25) 2,4-Dichlorophenol	7.660	162	84500	5.343	ug/ml#	94
26) 1,2,4-Trichlorobenzene	7.739	180	103236	5.093	ug/ml	98
36) Naphthalene	7.804	128	286040	5.198	ug/ml	99
37) Benzoic Acid	7.573	105	23560	3.503	ug/ml	97
38) 4-Chloroaniline	7.890	65	36407	5.360	ug/ml	87
39) Hexachlorobutadiene	7.977	225	62724	4.984	ug/ml	99
40) p-Chloro-m-cresol	8.424	107	82686	4.929	ug/ml	95
41) 2-Methylnaphthalene	8.528	142	176905	5.375	ug/ml	95
42) 1-Methylnaphthalene	8.618	115	64481	5.104	ug/ml	97
43) Hexachlorocyclopentadiene	8.708	237	74521	4.815	ug/ml	97
44) 2,4,6-Trichlorophenol	8.828	196	61811	4.768	ug/ml	97
45) 2,4,5-Trichlorophenol	8.851	196	74264	5.646	ug/ml	96
47) 2-Chloronaphthalene	9.000	162	202516	5.187	ug/ml	95
48) 2-Nitroaniline	9.120	138	43241	5.040	ug/ml	87
49) 1,4-Dinitrobenzene	9.266	168	1972M3	3.021	ug/ml	
50) 1,3-Dinitrobenzene	9.329	168	24161	4.491	ug/ml#	1
51) Dimethyl phthalate	9.329	163	245370	5.233	ug/ml#	98
52) Acenaphthylene	9.403	152	332051	5.355	ug/ml	99
53) 2,6-Dinitrotoluene	9.371	165	44259	5.688	ug/ml#	76
54) 1,2-Dinitrobenzene	9.413	168	17122	5.256	ug/ml#	1
64) 3-Nitroaniline	9.519	138	44052	5.371	ug/ml#	92
65) Acenaphthene	9.582	154	177976	4.970	ug/ml	91
66) 2,4-Dinitrophenol	9.624	184	19873	4.704	ug/ml#	84
67) Dibenzofuran	9.751	168	305266	4.906	ug/ml#	81
68) 2,4-Dinitrotoluene	9.761	165	52324	4.642	ug/ml	89
69) 4-Nitrophenol	9.708	65	33937	5.424	ug/ml#	35
70) 2,3,5,6-Tetrachlorophenol	9.842	232	82818	6.974	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNICV.D
 Acq On : 11 Mar 2025 10:18 pm
 Operator : SV106:ljj
 Sample : CQICV1,32,,ABNICV Lot# 11452
 Misc : WG2039658,,ical
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:20:40 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 12:21:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.884	232	60689	5.424	ug/ml	98
72)	Diethyl phthalate	10.025	149	232030	5.252	ug/ml	98
73)	Fluorene	10.082	166	238812	5.209	ug/ml	95
74)	4-Chlorophenyl phenyl ...	10.103	204	120770	5.036	ug/ml#	87
75)	4-Nitroaniline	10.110	138	42007M6	5.262	ug/ml	
76)	4,6-Dinitro-o-cresol	10.152	198	27559	4.140	ug/ml#	66
77)	NDPA/DPA	10.223	169	202666	5.302	ug/ml	94
78)	Azobenzene	10.258	77	197919	5.429	ug/ml#	92
80)	4-Bromophenyl phenyl e...	10.579	248	74019	4.916	ug/ml#	84
81)	Hexachlorobenzene	10.624	284	88174	4.995	ug/ml#	81
82)	Pentachlorophenol	10.821	266	43595	4.748	ug/ml	98
89)	Phenanthrene	11.010	178	375117	5.171	ug/ml	99
90)	Anthracene	11.056	178	379894	5.369	ug/ml	99
91)	Carbazole	11.230	167	345386	5.467	ug/ml	99
92)	Di-n-butylphthalate	11.624	149	424514	5.951	ug/ml#	97
93)	Fluoranthene	12.163	202	443321	5.347	ug/ml#	93
94)	Benzidine	12.313	184	263438	5.860	ug/ml#	94
95)	Pyrene	12.379	202	461974	5.321	ug/ml	100
97)	Butyl benzyl phthalate	13.092	149	138193	4.295	ug/ml	89
105)	Benzo(a)anthracene	13.601	228	475634	5.311	ug/ml	99
106)	3,3'-Dichlorobenzidine	13.609	252	179178	5.960	ug/ml#	96
107)	Chrysene	13.641	228	429359	4.836	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.736	149	233680	4.614	ug/ml	95
109)	Di-n-octylphthalate	14.410	149	361317	4.265	ug/ml#	78
110)	Benzo(b)fluoranthene	14.705	252	525748	5.709	ug/ml#	92
111)	Benzo(k)fluoranthene	14.728	252	415673	4.853	ug/ml#	93
112)	Benzo(a)pyrene	15.015	252	441421	5.445	ug/ml#	93
114)	Indeno(1,2,3-cd)pyrene	16.038	276	425828M6	5.388	ug/mL	
115)	Dibenzo(a,h)anthracene	16.061	278	436195	5.546	ug/ml#	90
116)	Benzo(ghi)perylene	16.275	276	417580	5.386	ug/ml#	87

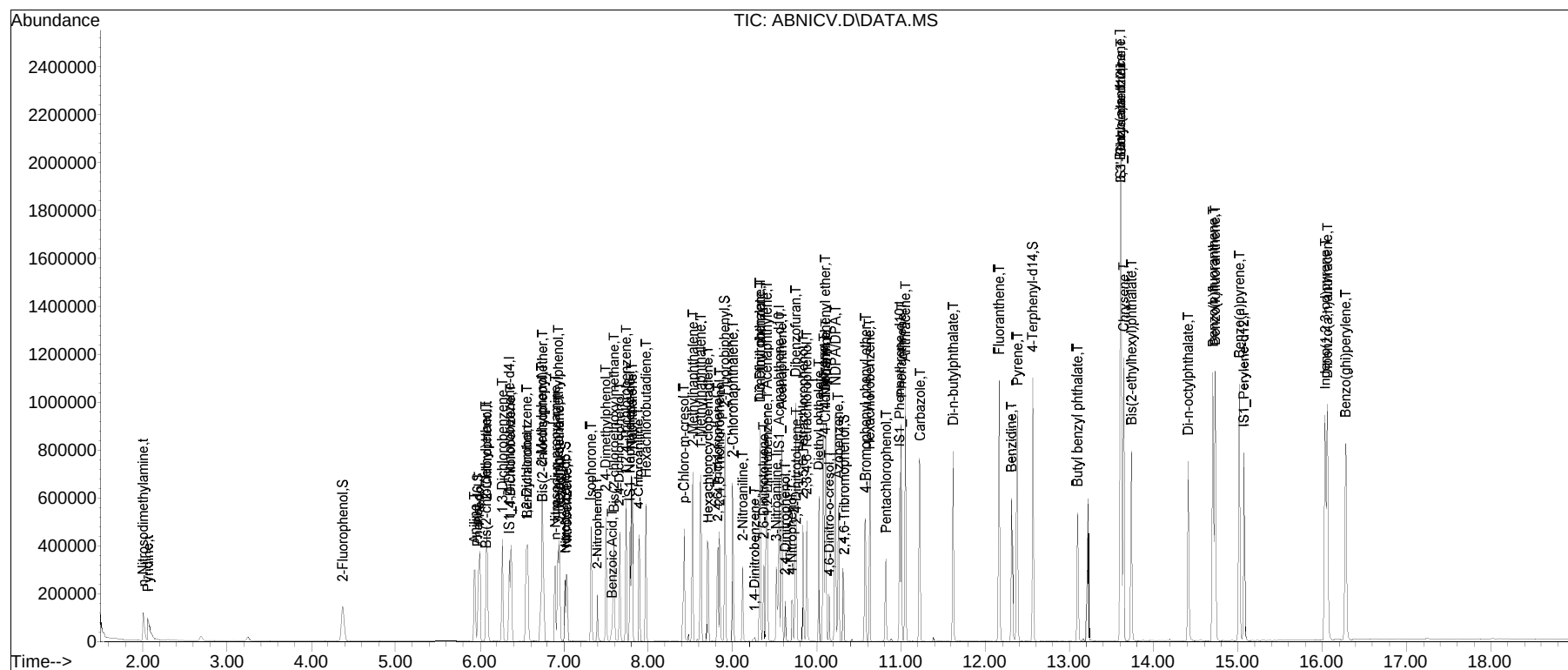
(#) = qualifier out of range (m) = manual integration (+) = signals summed

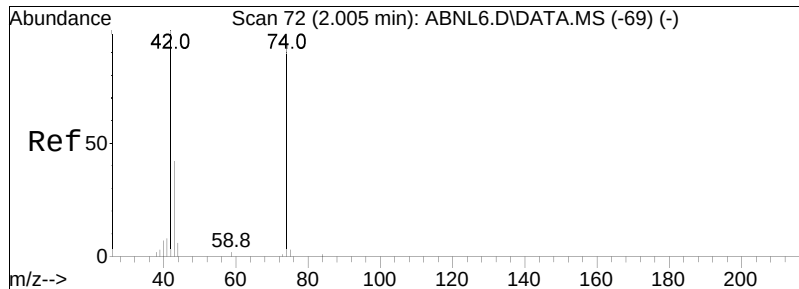
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ABNICV.D
 Acq On : 11 Mar 2025 10:18 pm
 Operator : SV106:ljj
 Sample : CQICV1,32,,ABNICV Lot# 11452
 Misc : WG2039658,,ical
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:20:40 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 12:21:40 2025
 Response via : Initial Calibration

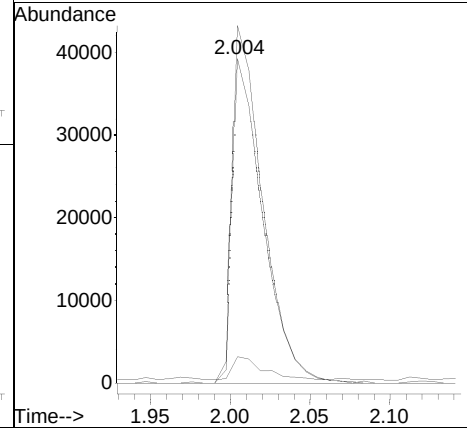
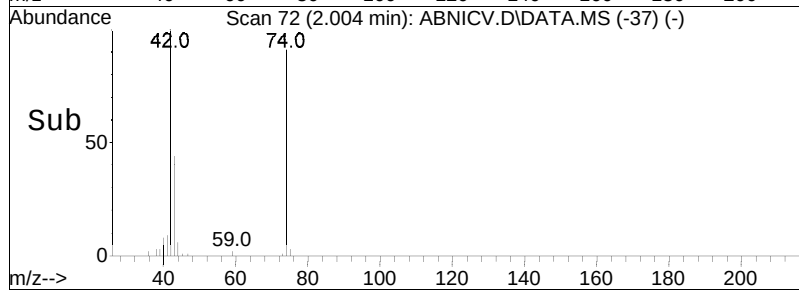
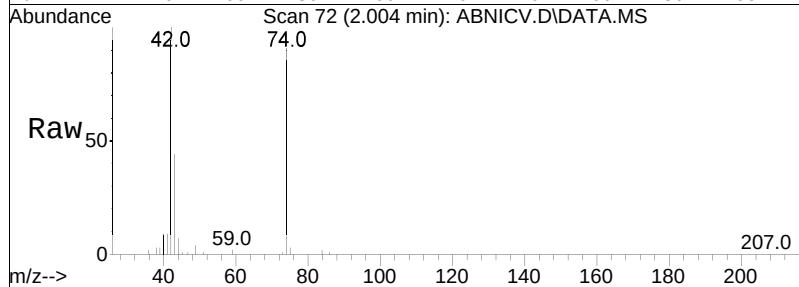
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

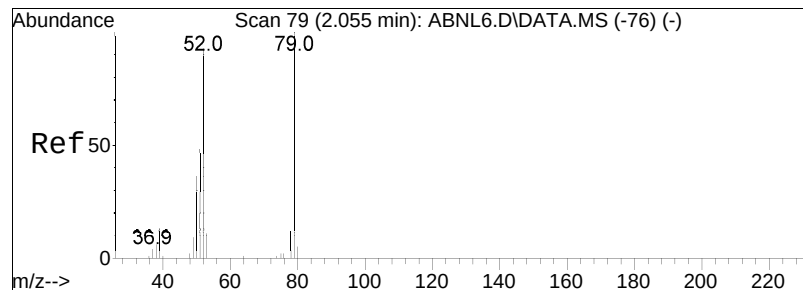




#2
 n-Nitrosodimethylamine
 Concen: 5.20 ug/ml
 RT: 2.004 min Scan# 72
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 74 Resp: 51950
 Ion Ratio Lower Upper
 74 100
 42 110.7 100.0 150.0
 44 7.2 6.7 10.1





#3

Pyridine

Concen: 3.73 ug/ml

RT: 2.062 min Scan# 80

Delta R.T. 0.007 min

Lab File: ABNICV.D

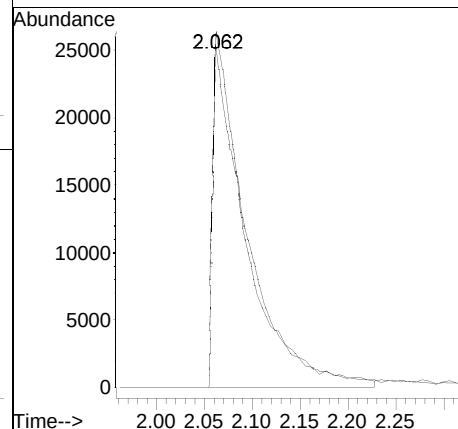
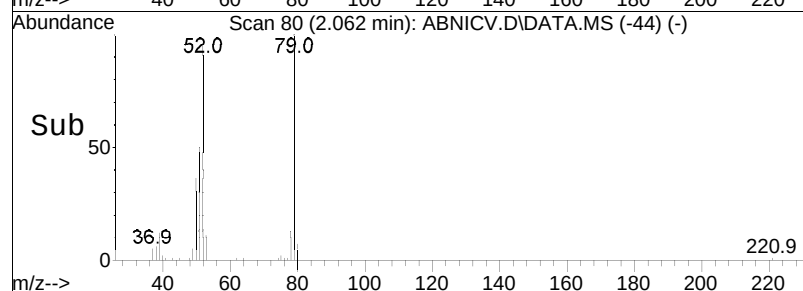
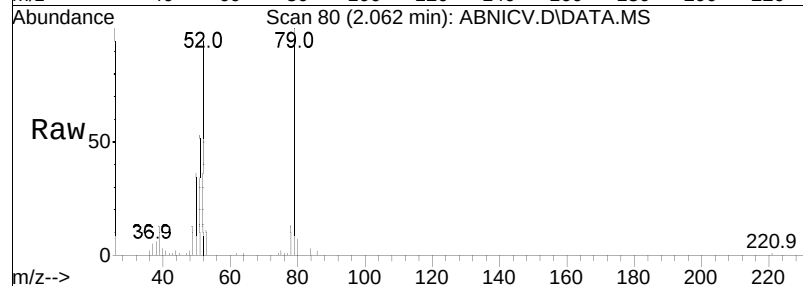
Acq: 11 Mar 2025 10:18 pm

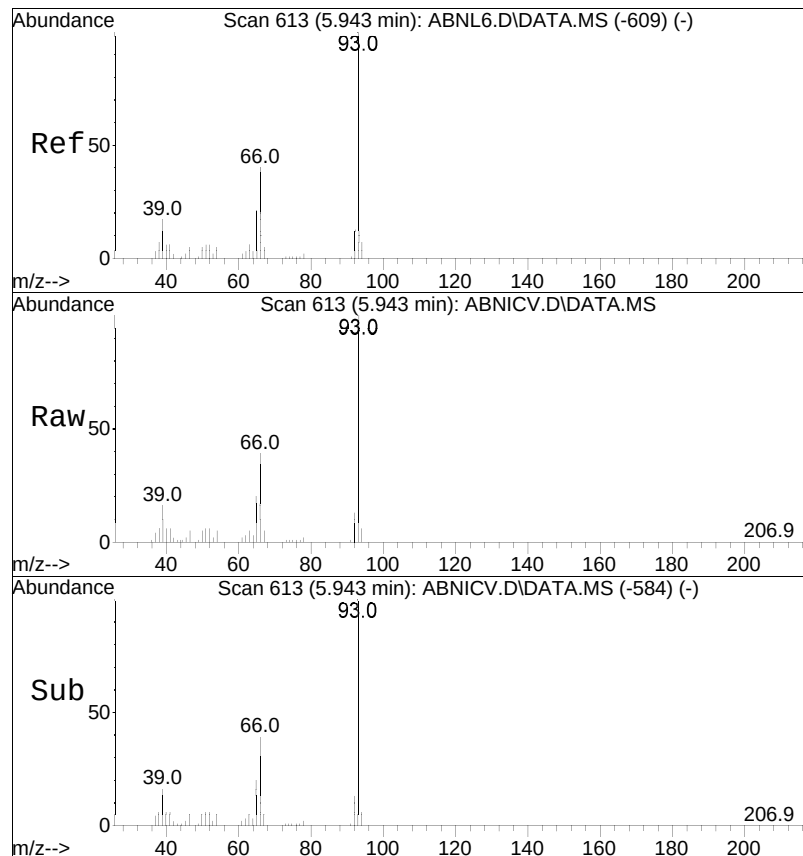
Tgt Ion: 79 Resp: 64794

Ion Ratio Lower Upper

79 100

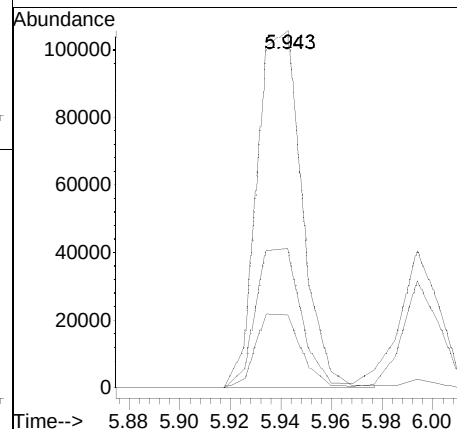
52 94.1 93.1 139.7

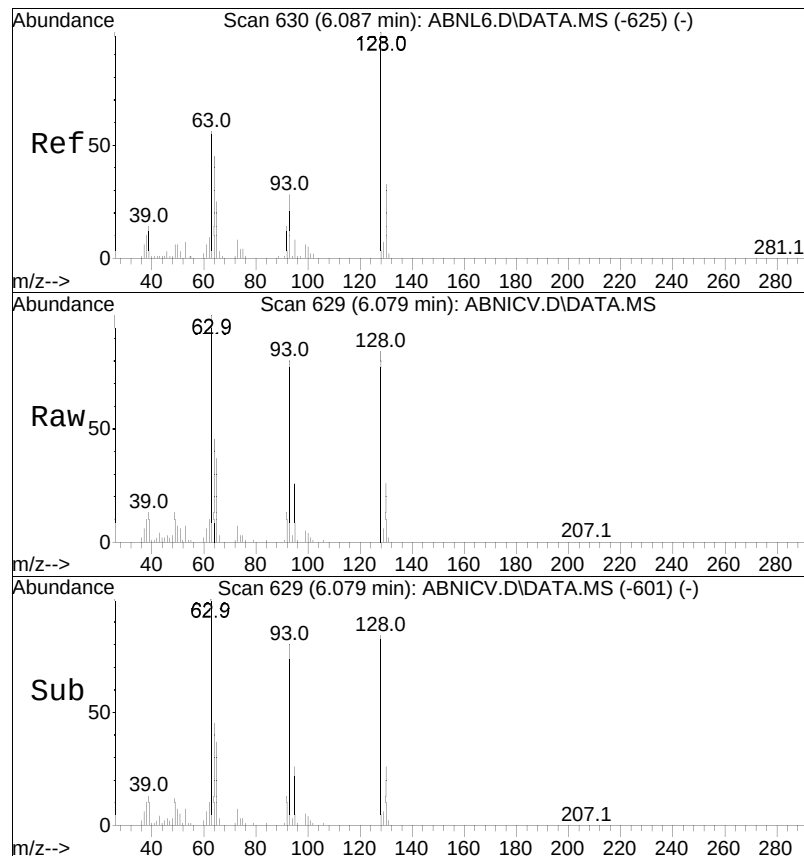




#5
 Aniline
 Concen: 5.38 ug/ml
 RT: 5.943 min Scan# 613
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

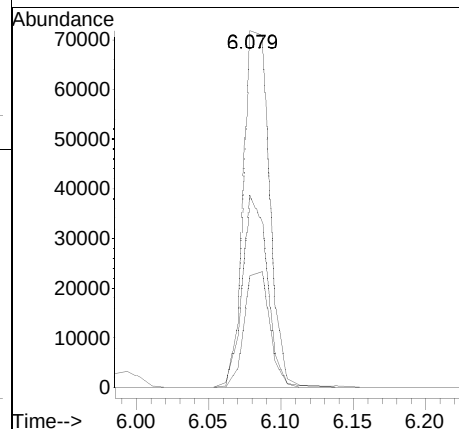
Tgt Ion	Ratio	Lower	Upper
93	100		
66	40.0	32.6	49.0
65	21.0	17.6	26.4

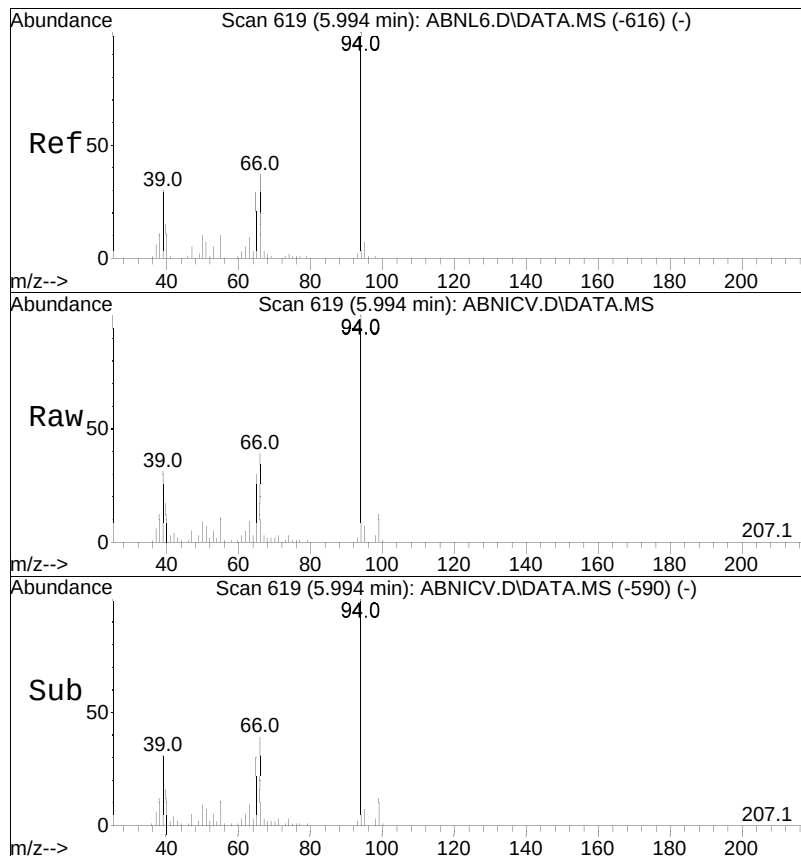




#6
 2-Chlorophenol
 Concen: 5.30 ug/ml
 RT: 6.079 min Scan# 629
 Delta R.T. -0.008 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

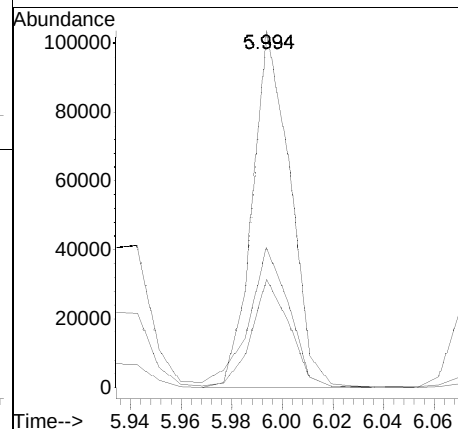
Tgt	Ion:128	Resp:	89808
Ion	Ratio	Lower	Upper
128	100		
64	51.9	45.1	67.7
130	31.8	26.2	39.4

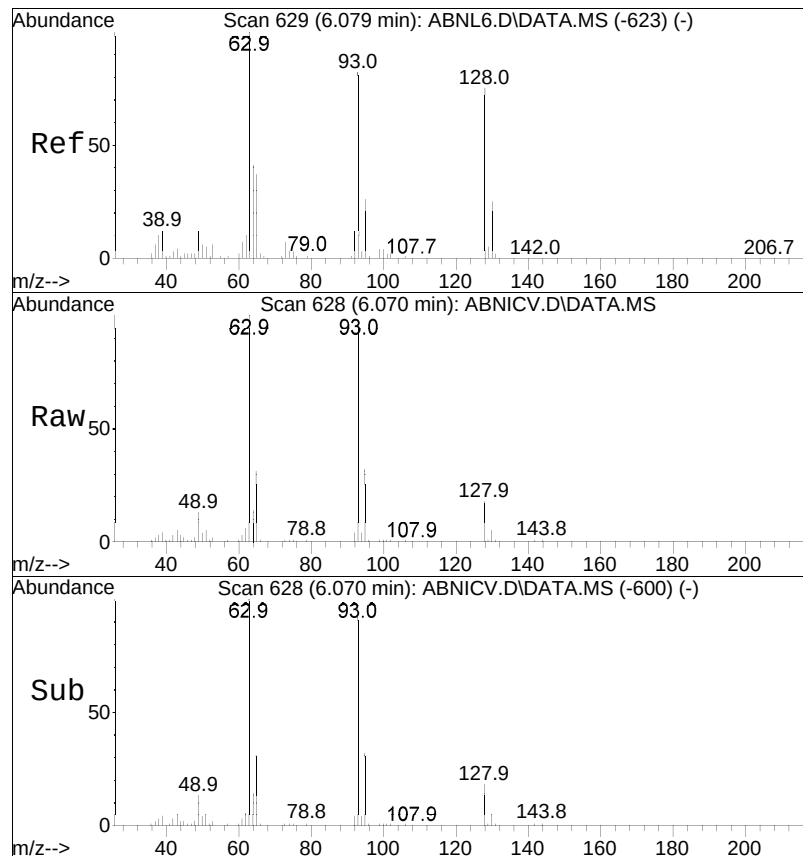




#8
 Phenol
 Concen: 5.29 ug/ml
 RT: 5.994 min Scan# 619
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

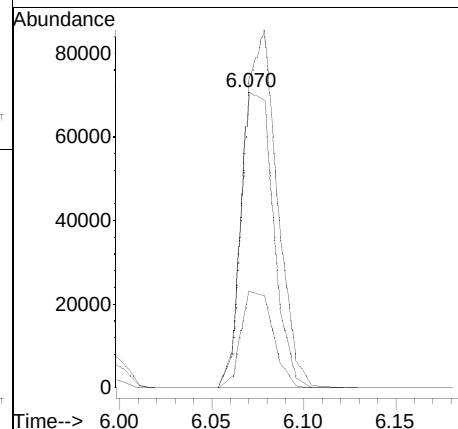
Tgt Ion	Ratio	Lower	Upper
94	100		
65	30.9	26.0	39.0
66	42.3	33.8	50.8

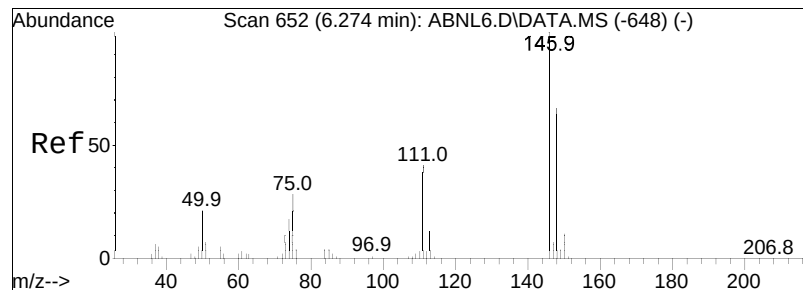




#9
 Bis(2-chloroethyl)ether
 Concen: 5.33 ug/ml
 RT: 6.070 min Scan# 628
 Delta R.T. -0.009 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

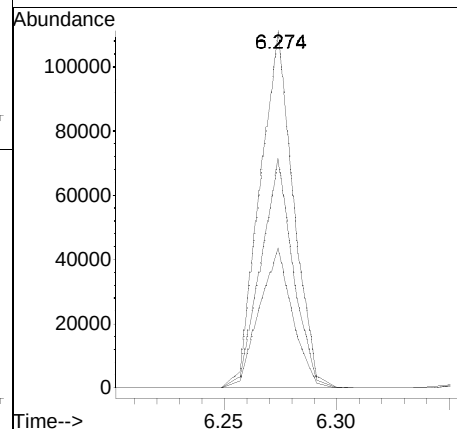
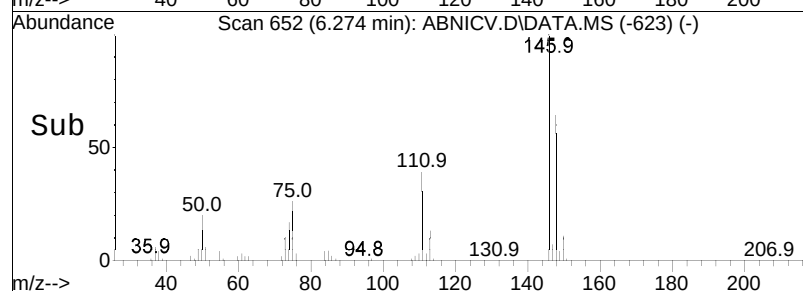
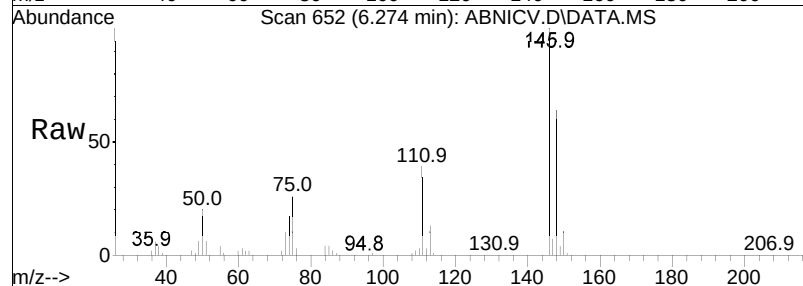
Tgt Ion:	93	Resp:	85977
Ion Ratio	Lower	Upper	
93	100		
63	125.7	74.6	111.8#
95	32.3	25.9	38.9

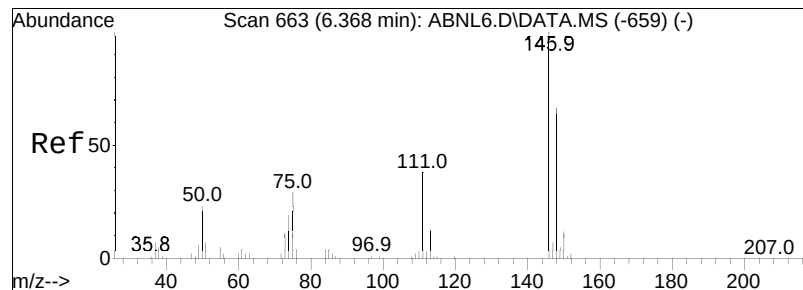




#10
 1,3-Dichlorobenzene
 Concen: 5.33 ug/ml
 RT: 6.274 min Scan# 652
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

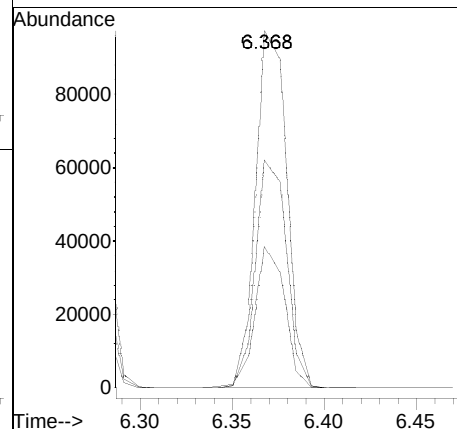
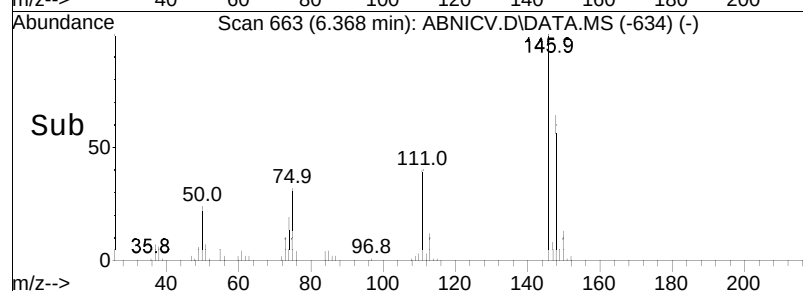
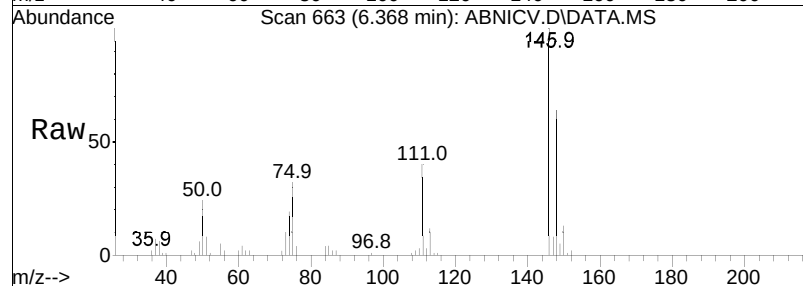
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	34.3	51.5
148	62.2	50.8	76.2

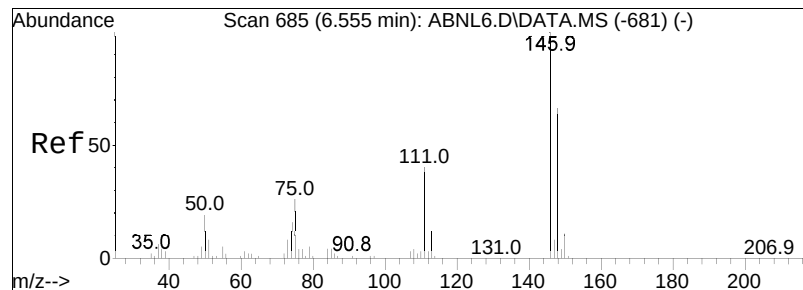




#11
 1,4-Dichlorobenzene
 Concen: 5.20 ug/ml
 RT: 6.368 min Scan# 663
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

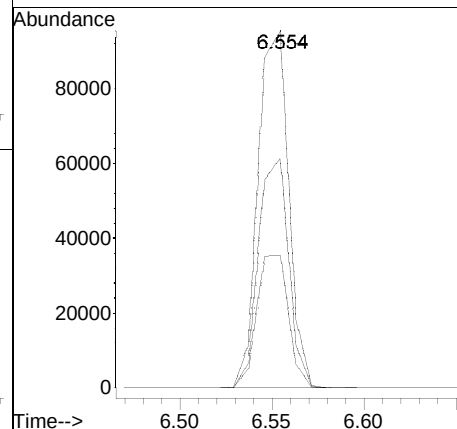
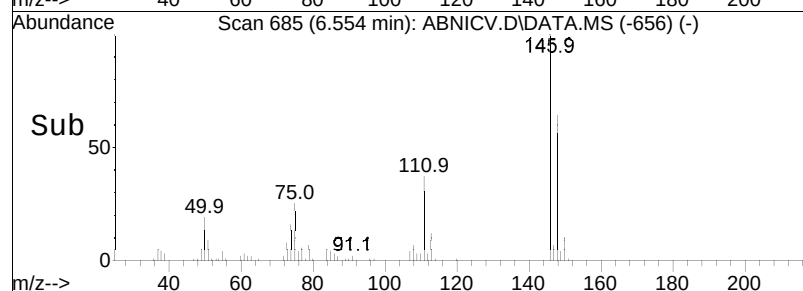
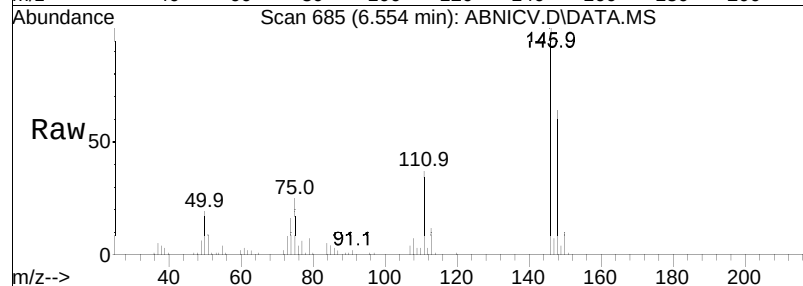
Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.7	76.1
111	38.0	33.4	50.0

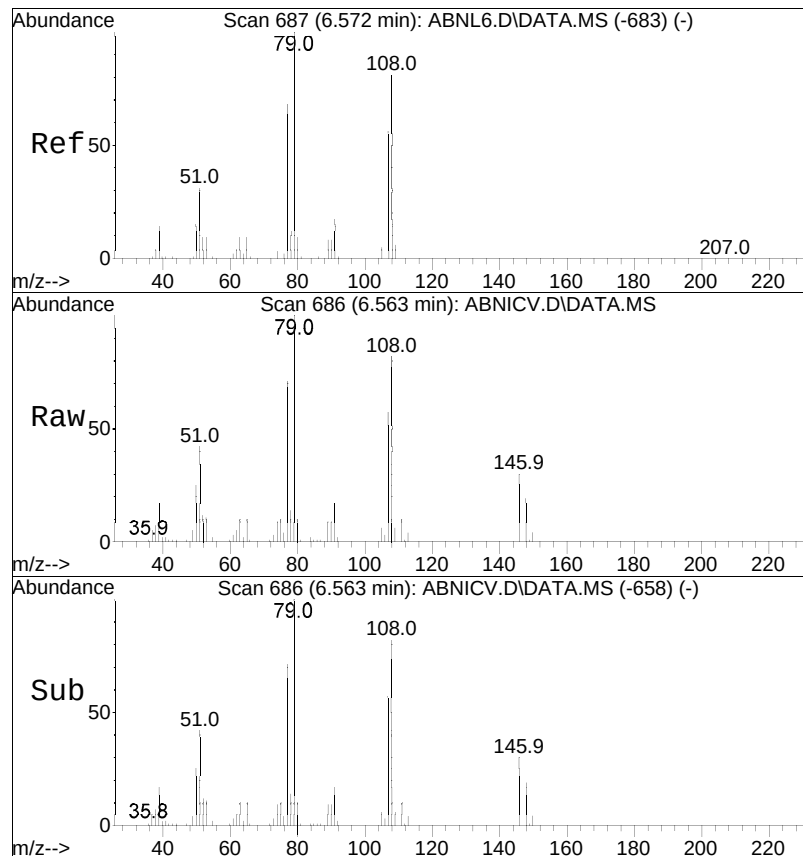




#12
 1,2-Dichlorobenzene
 Concen: 5.28 ug/ml
 RT: 6.554 min Scan# 685
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

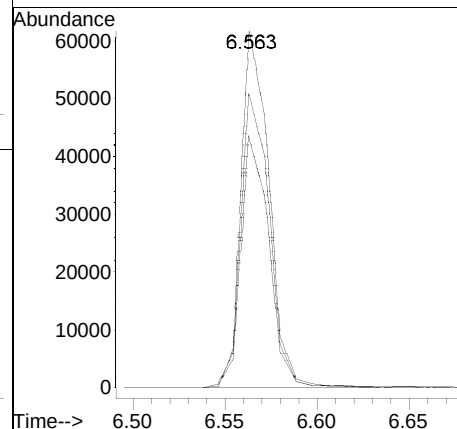
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	34.6	52.0
148	63.3	50.2	75.4

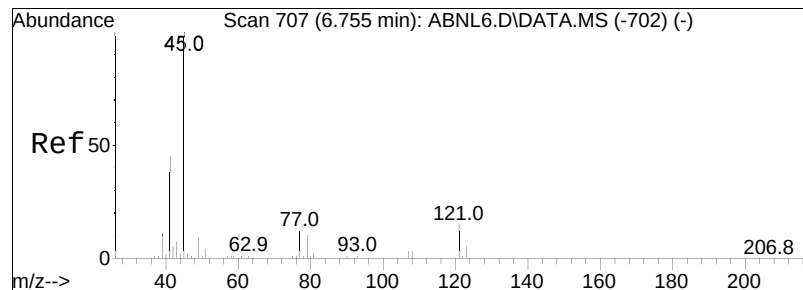




#13
 Benzyl alcohol
 Concen: 5.16 ug/ml
 RT: 6.563 min Scan# 686
 Delta R.T. -0.009 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

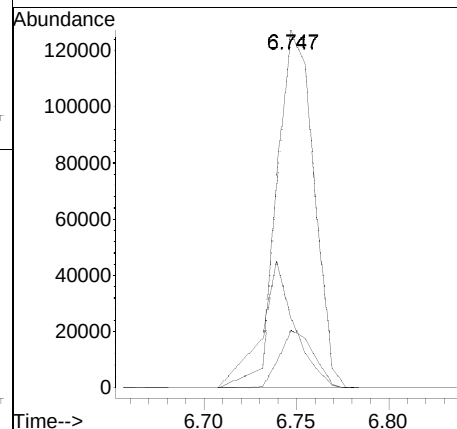
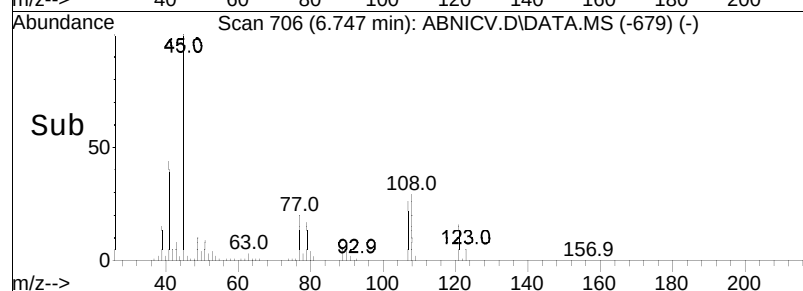
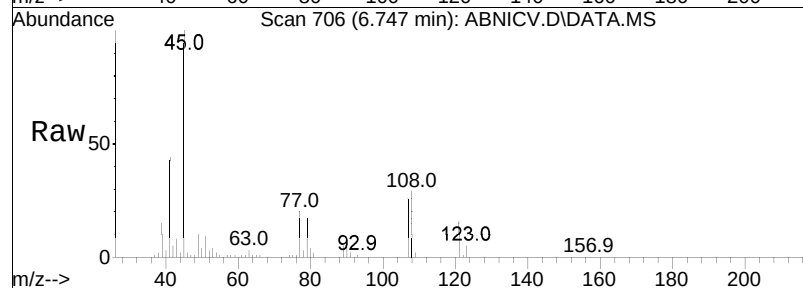
Tgt Ion	Ratio	Lower	Upper
79	100		
77	70.9	54.9	82.3
108	84.2	63.1	94.7

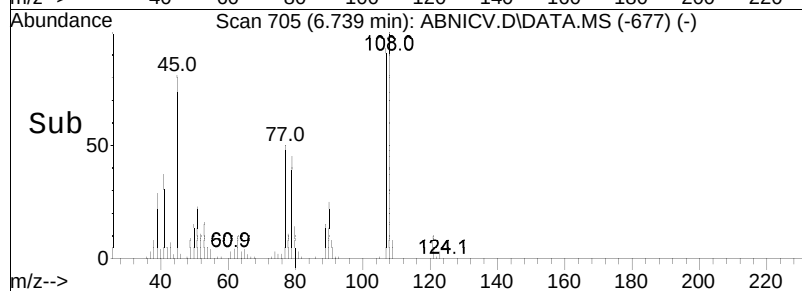
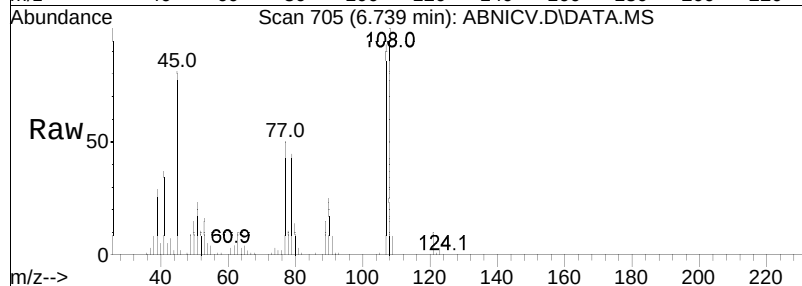
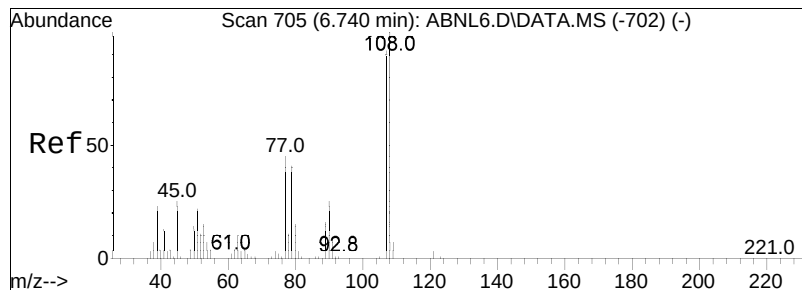




#14
 Bis(2-chloroisopropyl)ether
 Concen: 5.70 ug/ml
 RT: 6.747 min Scan# 706
 Delta R.T. -0.008 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

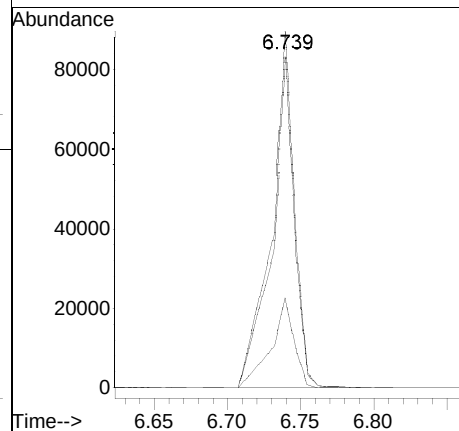
Tgt Ion	Ratio	Lower	Upper
45	100		
121	15.5	9.8	14.6#
77	28.2	6.1	9.1#

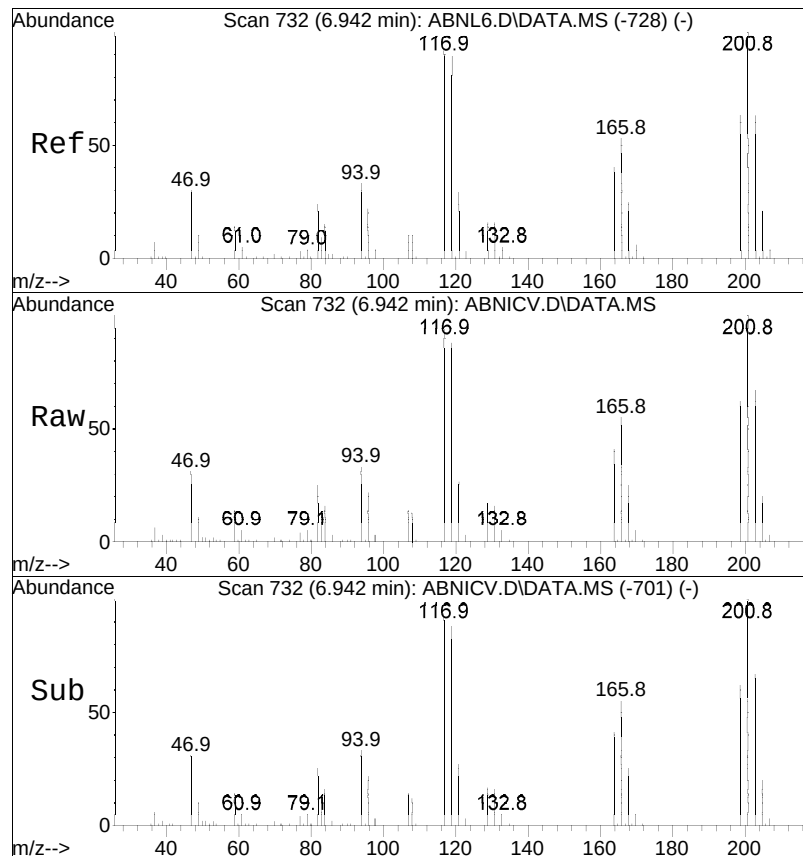




#15
 2-Methylphenol
 Concen: 5.19 ug/ml
 RT: 6.739 min Scan# 705
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

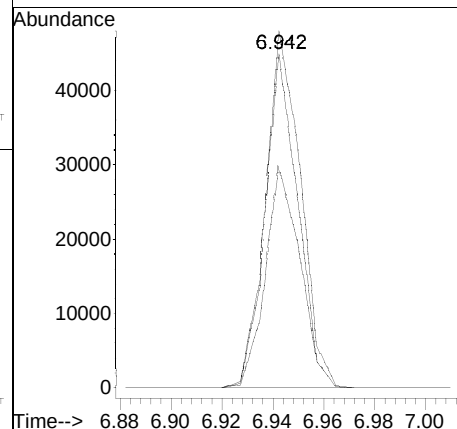
Tgt Ion	Ratio	Lower	Upper
108	100		
107	90.8	70.7	106.1
90	26.6	18.7	28.1

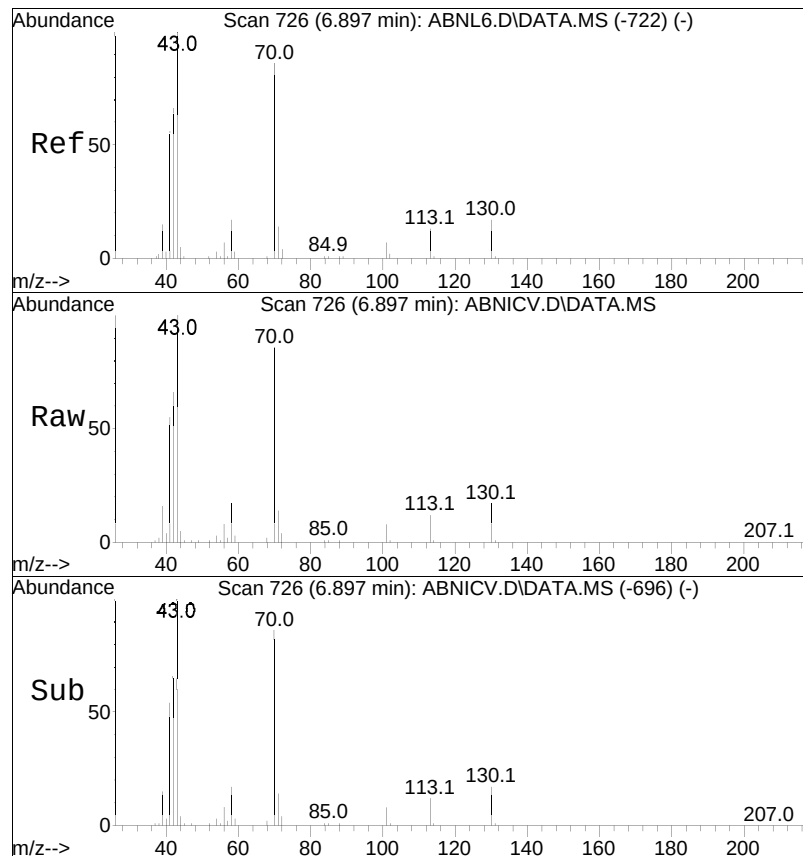




#16
 Hexachloroethane
 Concen: 5.31 ug/ml
 RT: 6.942 min Scan# 732
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

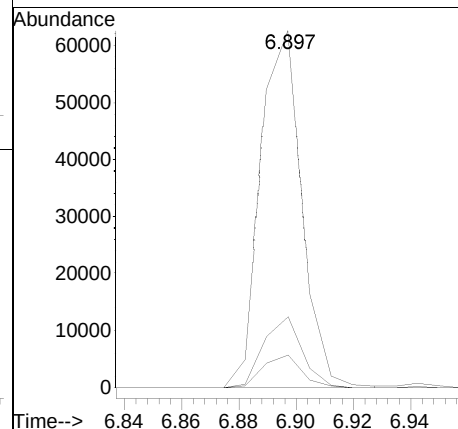
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	40367		
201	112.5		58.6	87.8#
199	69.6		36.9	55.3#

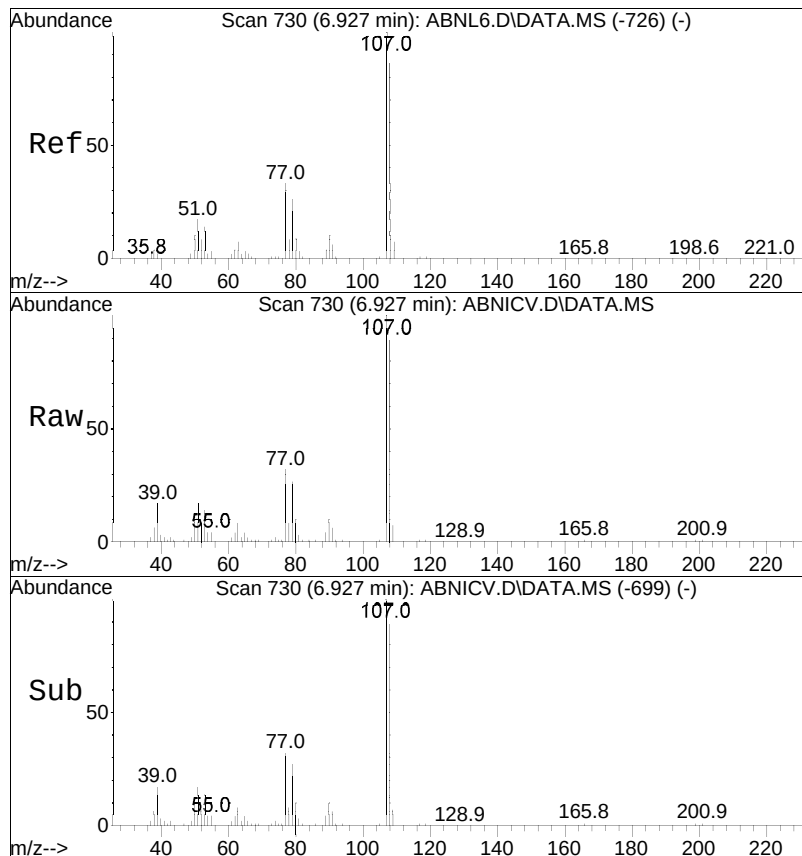




#17
 n-Nitrosodi-n-propylamine
 Concen: 5.27 ug/ml
 RT: 6.897 min Scan# 726
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

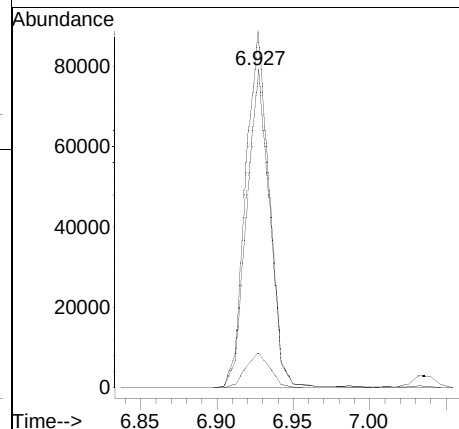
Tgt Ion	Ratio	Resp	Lower	Upper
70	100	62622		
130	18.5		18.2	27.4
101	8.6		7.8	11.8

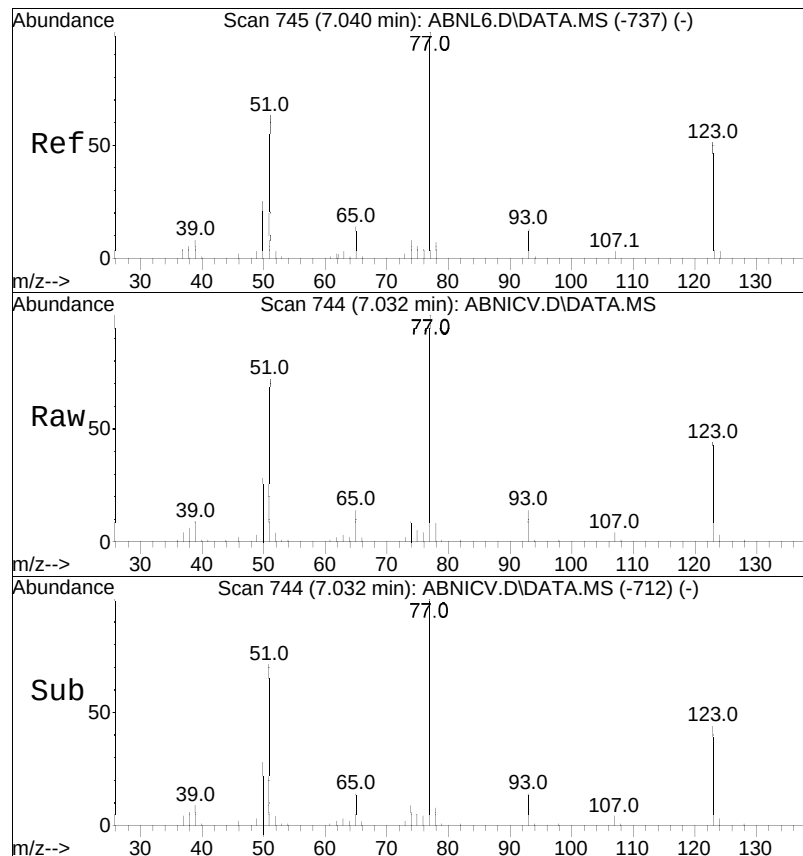




#18
 3-Methylphenol/4-Methylphenol
 Concen: 5.40 ug/ml
 RT: 6.927 min Scan# 730
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

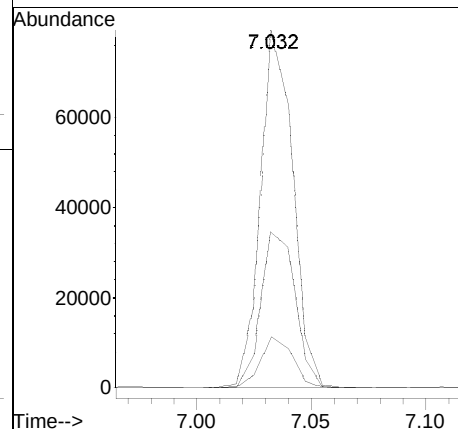
Tgt Ion	Ratio	Resp	Lower	Upper
108	100	83330		
107	114.3		88.6	132.8
90	11.5		8.8	13.2

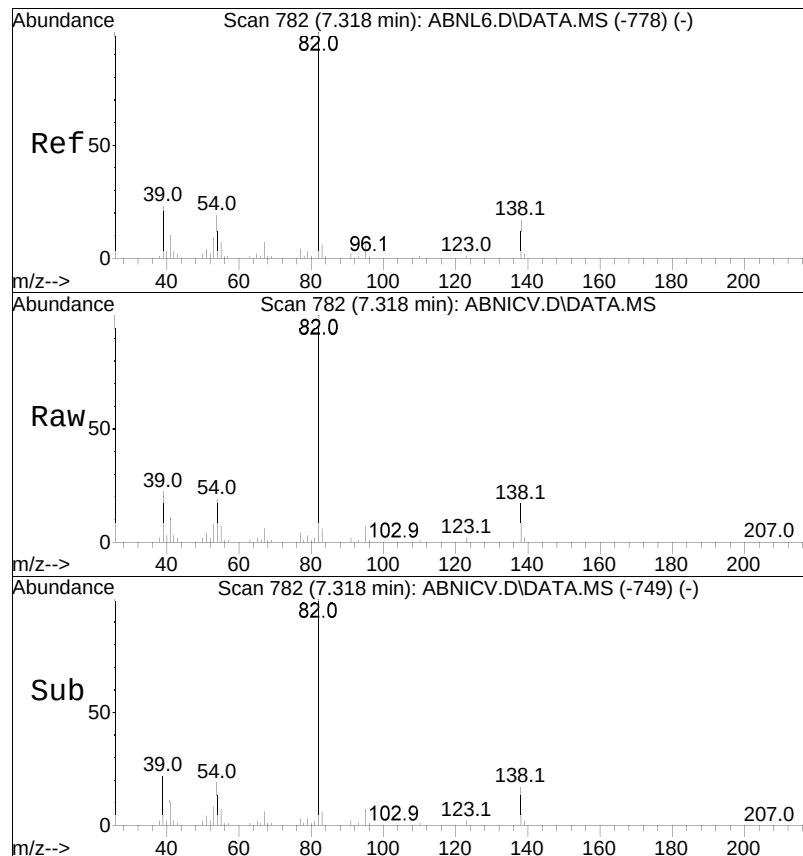




#20
 Nitrobenzene
 Concen: 5.00 ug/ml
 RT: 7.032 min Scan# 744
 Delta R.T. -0.008 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

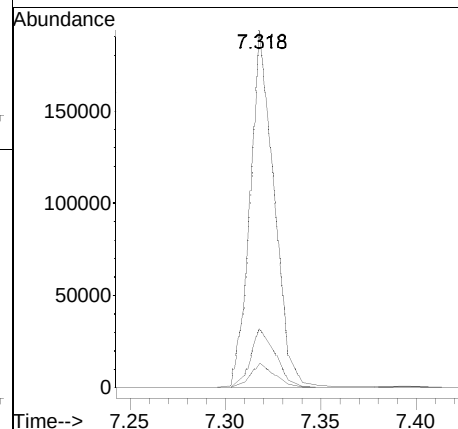
Tgt Ion:	77	Resp:	77805
Ion Ratio	Lower	Upper	
77	100		
123	46.2	36.3	54.5
65	14.7	11.6	17.4

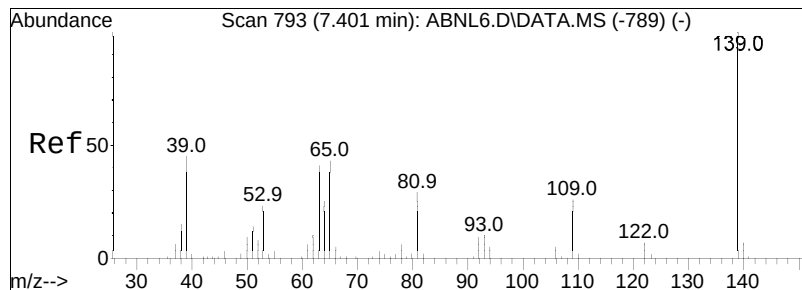




#21
 Isophorone
 Concen: 5.24 ug/ml
 RT: 7.318 min Scan# 782
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

Tgt Ion	Ratio	Lower	Upper
82	100		
138	17.1	14.7	22.1
95	6.9	5.2	7.8





#22

2-Nitrophenol

Concen: 4.64 ug/ml

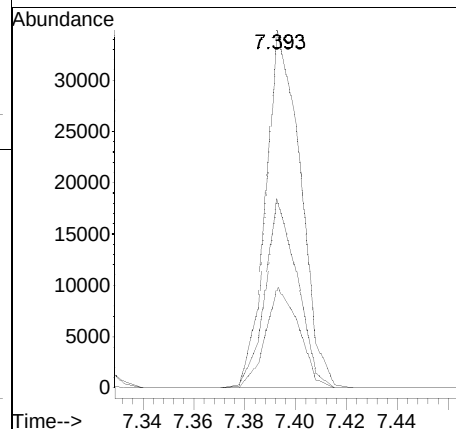
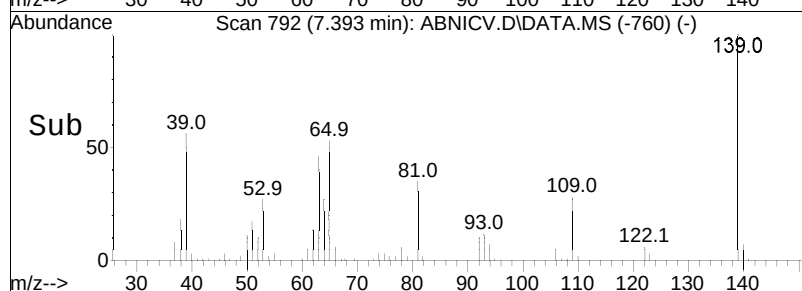
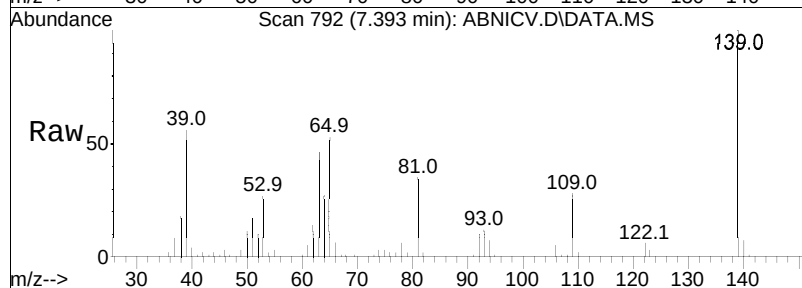
RT: 7.393 min Scan# 792

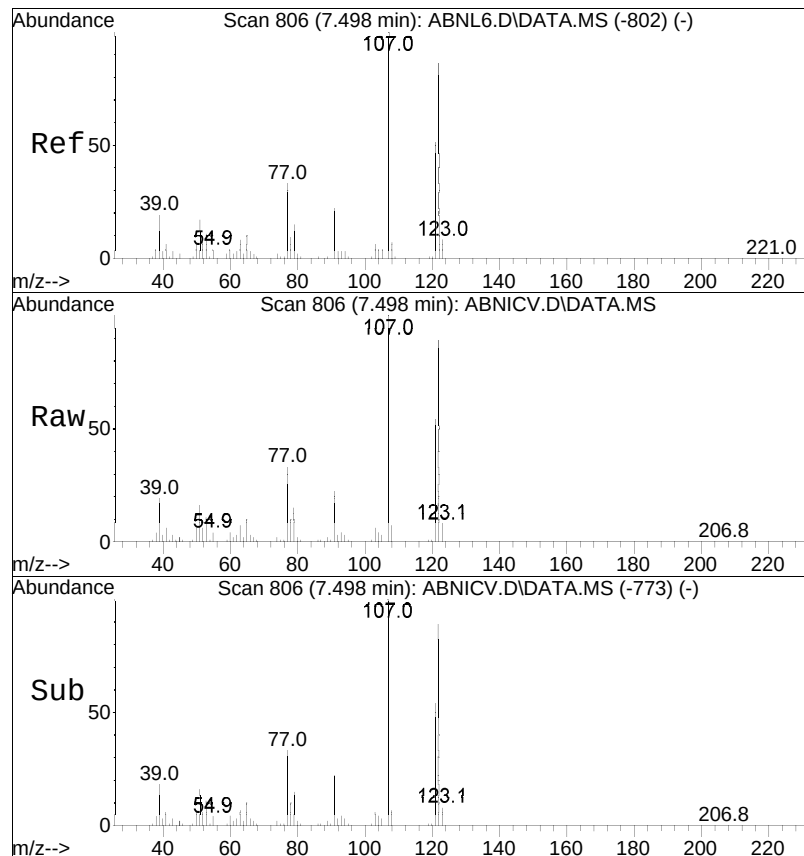
Delta R.T. -0.008 min

Lab File: ABNICV.D

Acq: 11 Mar 2025 10:18 pm

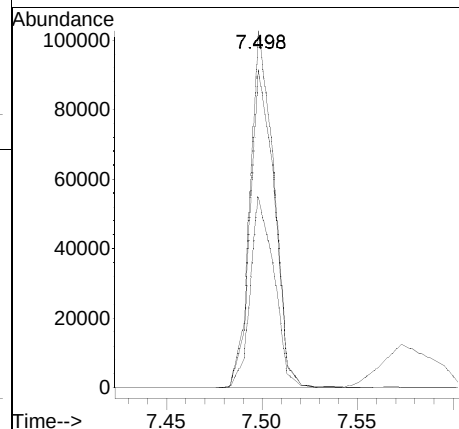
Tgt Ion:	139	Resp:	32856
Ion Ratio	Lower	Upper	
139	100		
109	27.2	19.4	29.0
65	49.1	46.1	69.1

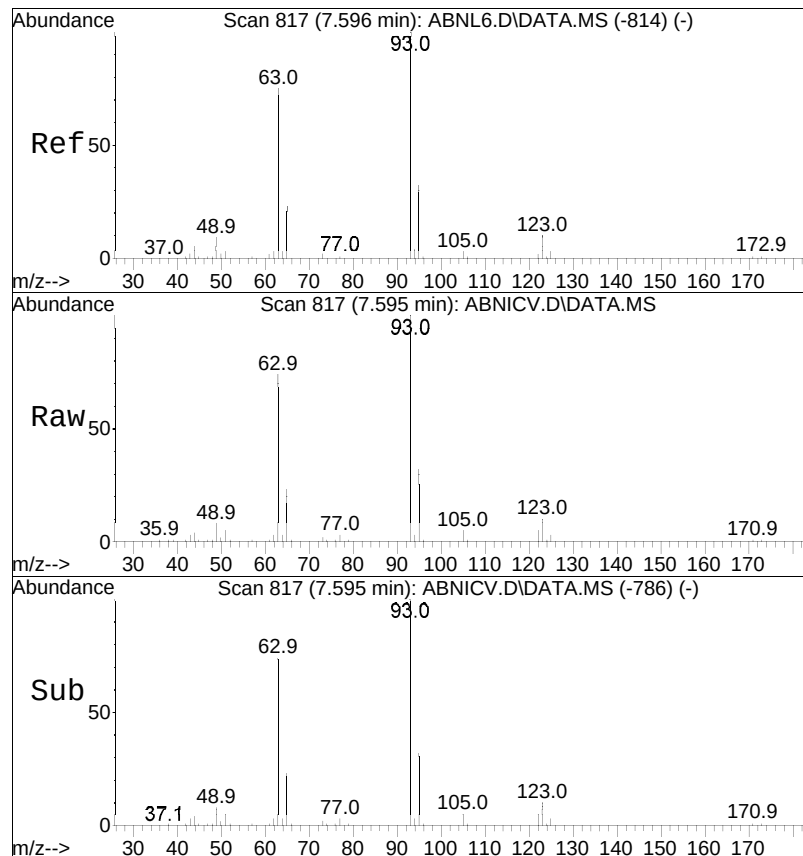




#23
 2,4-Dimethylphenol
 Concen: 5.35 ug/ml
 RT: 7.498 min Scan# 806
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

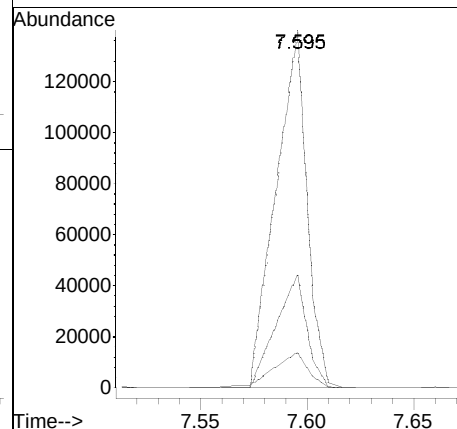
Tgt Ion	Ratio	Resp	Lower	Upper
107	100	89154		
121	53.4		40.0	60.0
122	90.2		70.2	105.4

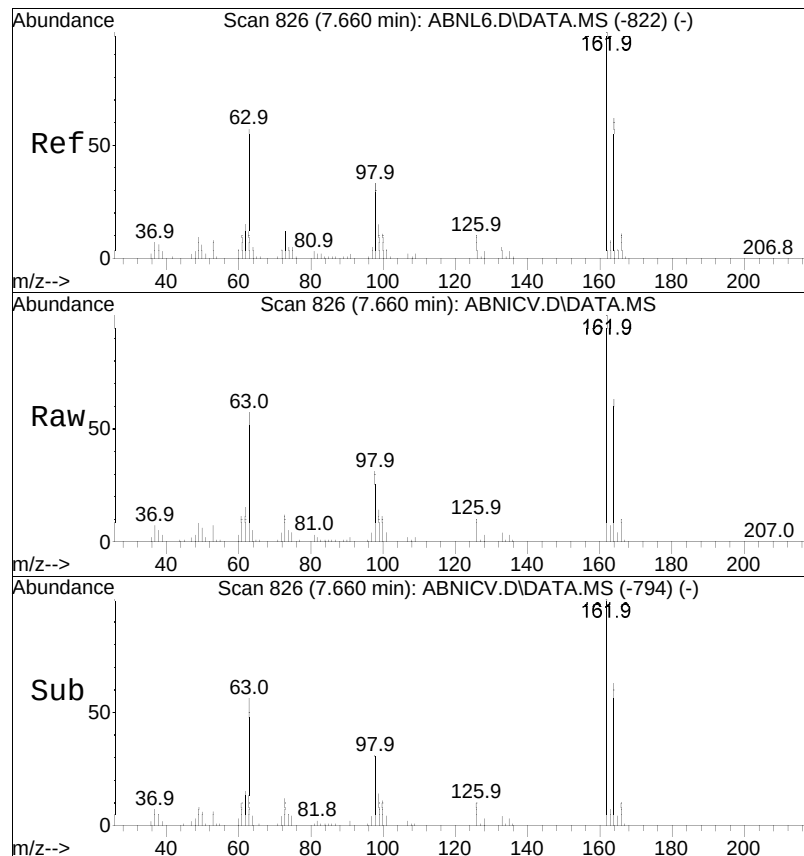




#24
 Bis(2-chloroethoxy)methane
 Concen: 4.19 ug/ml
 RT: 7.595 min Scan# 817
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

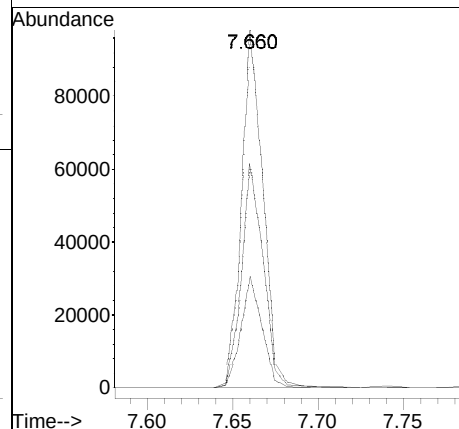
Tgt Ion:	93	Resp:	95427
Ion Ratio	Lower	Upper	
93	100		
95	34.3	25.8	38.8
123	11.8	10.1	15.1

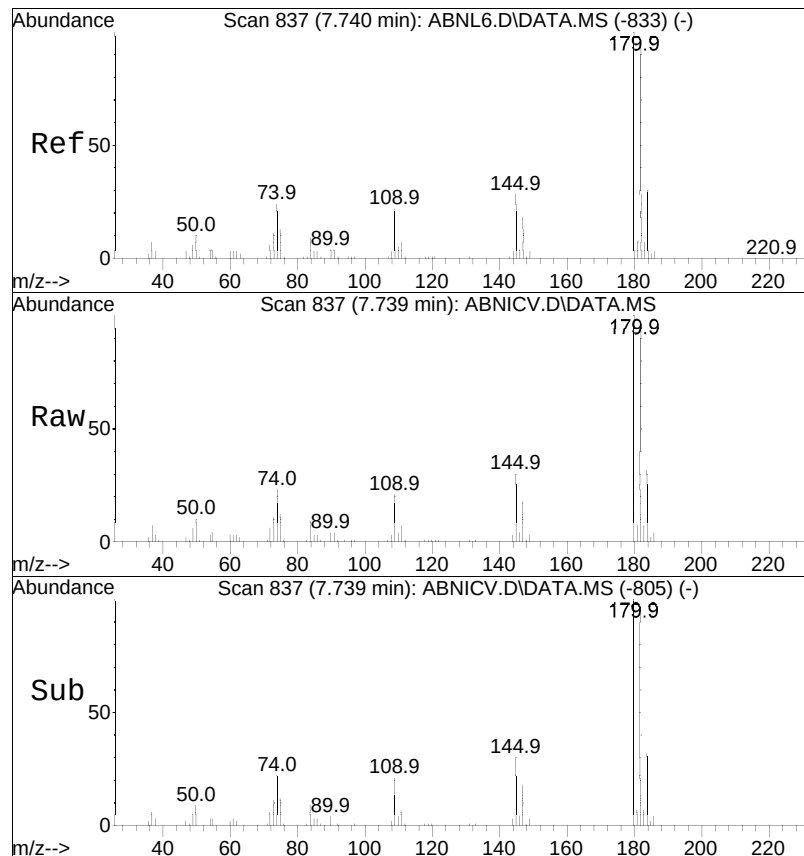




#25
 2,4-Dichlorophenol
 Concen: 5.34 ug/ml
 RT: 7.660 min Scan# 826
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

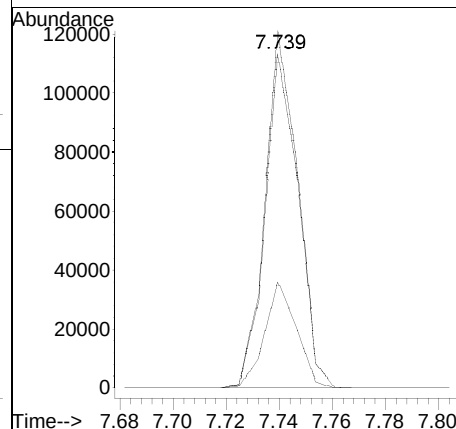
Tgt Ion:	162	Resp:	84500
Ion Ratio	Lower	Upper	
162	100		
164	63.7	51.0	76.4
98	30.9	32.2	48.2#

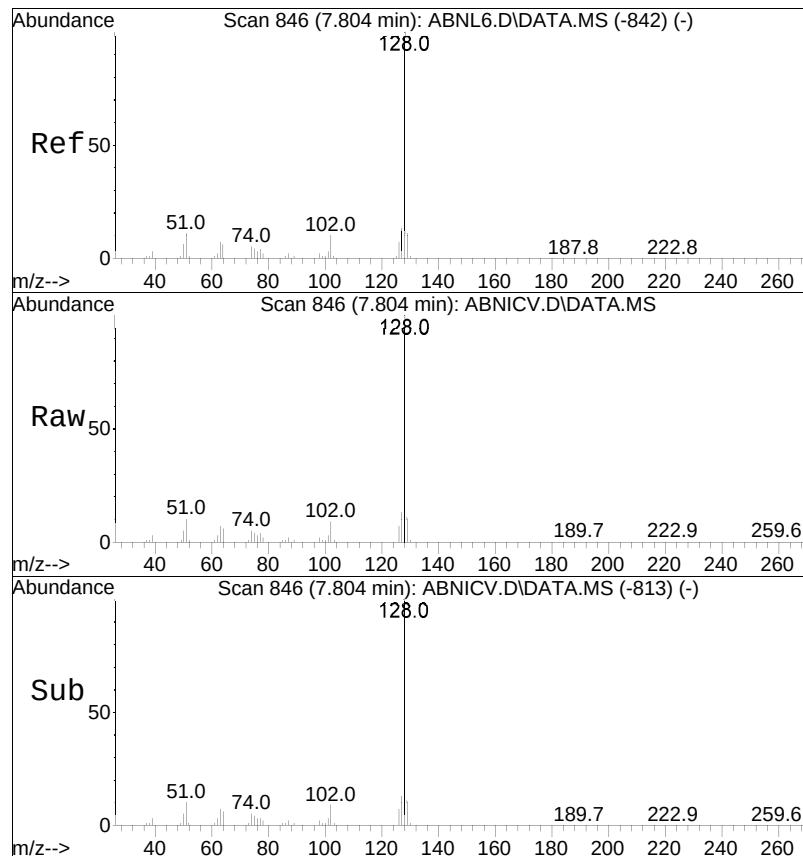




#26
 1,2,4-Trichlorobenzene
 Concen: 5.09 ug/ml
 RT: 7.739 min Scan# 837
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

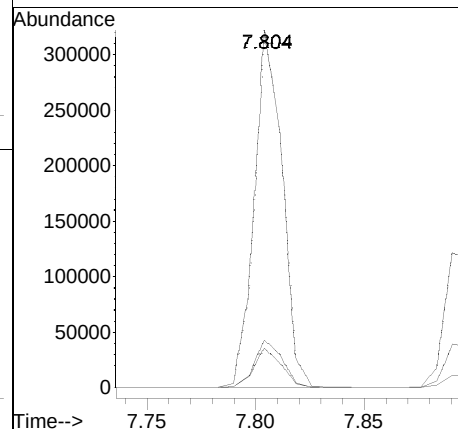
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.0	114.0
145	28.9	25.7	38.5

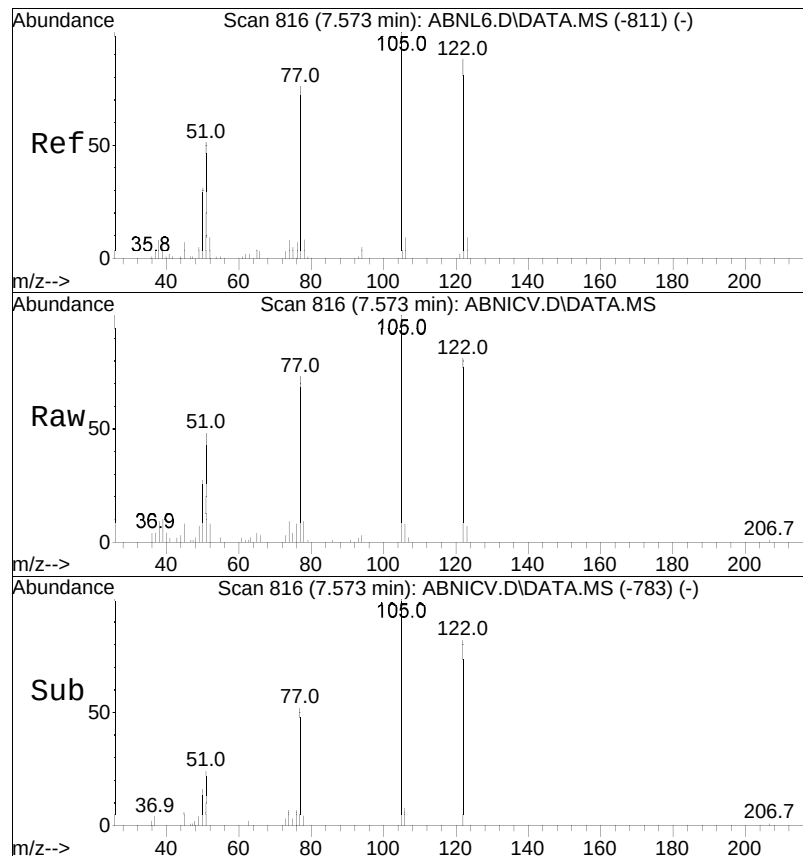




#36
 Naphthalene
 Concen: 5.20 ug/ml
 RT: 7.804 min Scan# 846
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

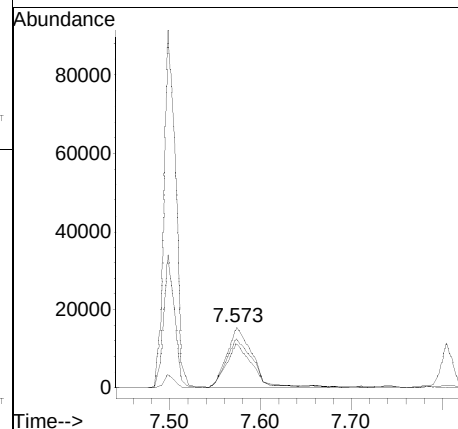
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	286040		
129	10.9		8.7	13.1
127	13.3		10.3	15.5

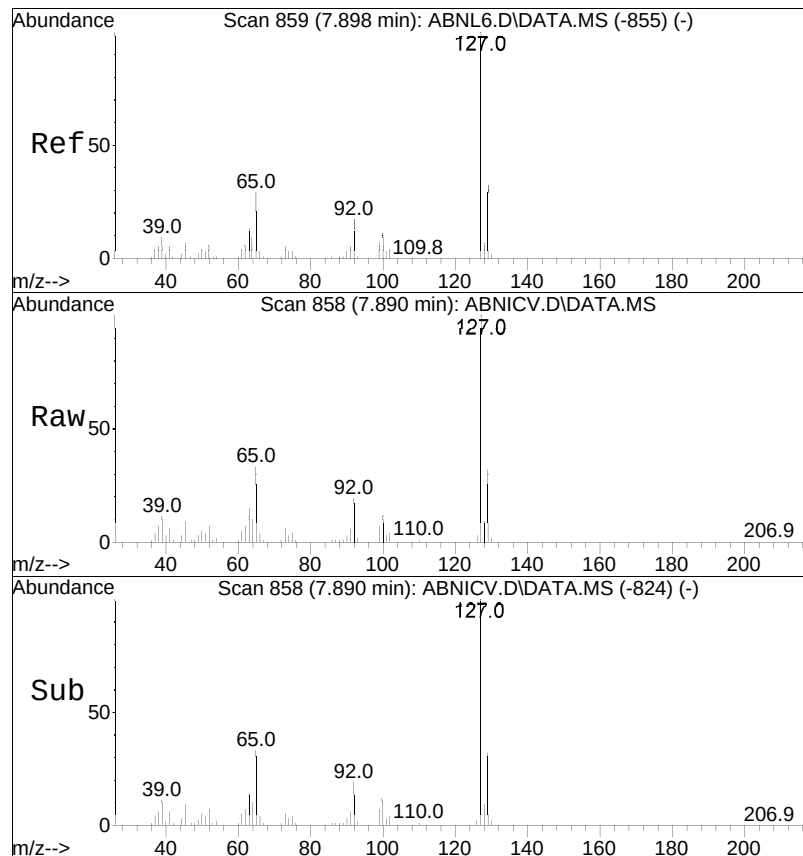




#37
 Benzoic Acid
 Concen: 3.50 ug/ml
 RT: 7.573 min Scan# 816
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

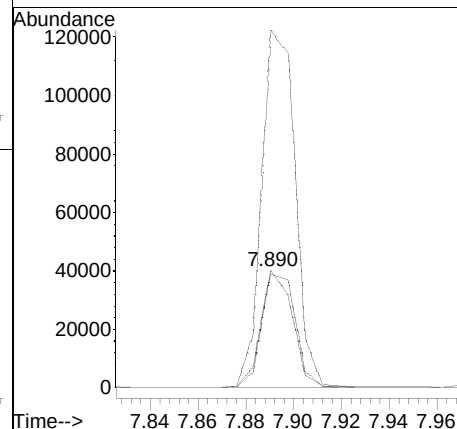
Tgt Ion:	105	Resp:	23560
Ion Ratio	Lower	Upper	
105	100		
122	80.2	59.9	89.9
77	74.8	60.1	90.1

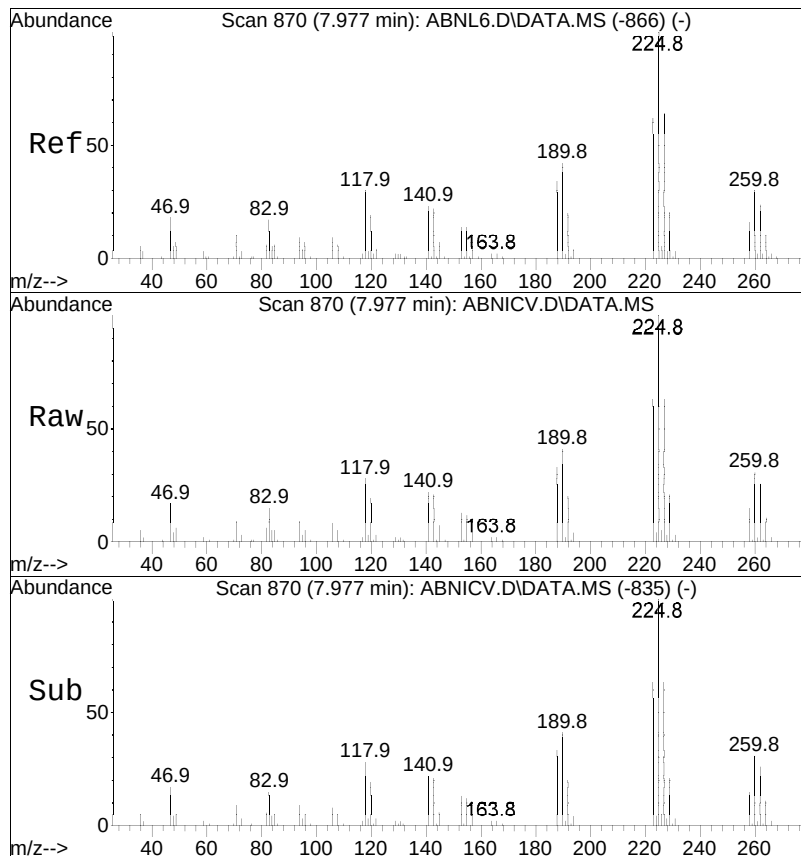




#38
 4-Chloroaniline
 Concen: 5.36 ug/ml
 RT: 7.890 min Scan# 858
 Delta R.T. -0.008 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

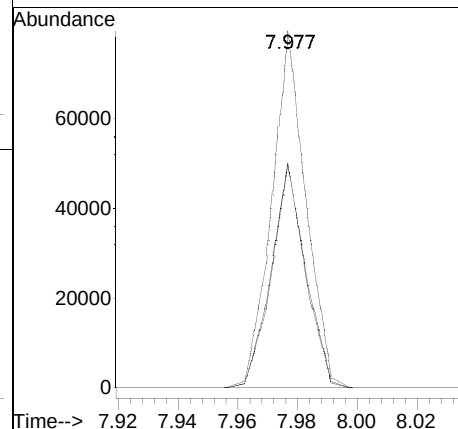
Tgt Ion:	65	Resp:	36407
Ion Ratio	Lower	Upper	
65	100		
127	325.0	237.6	356.4
129	103.6	76.3	114.5

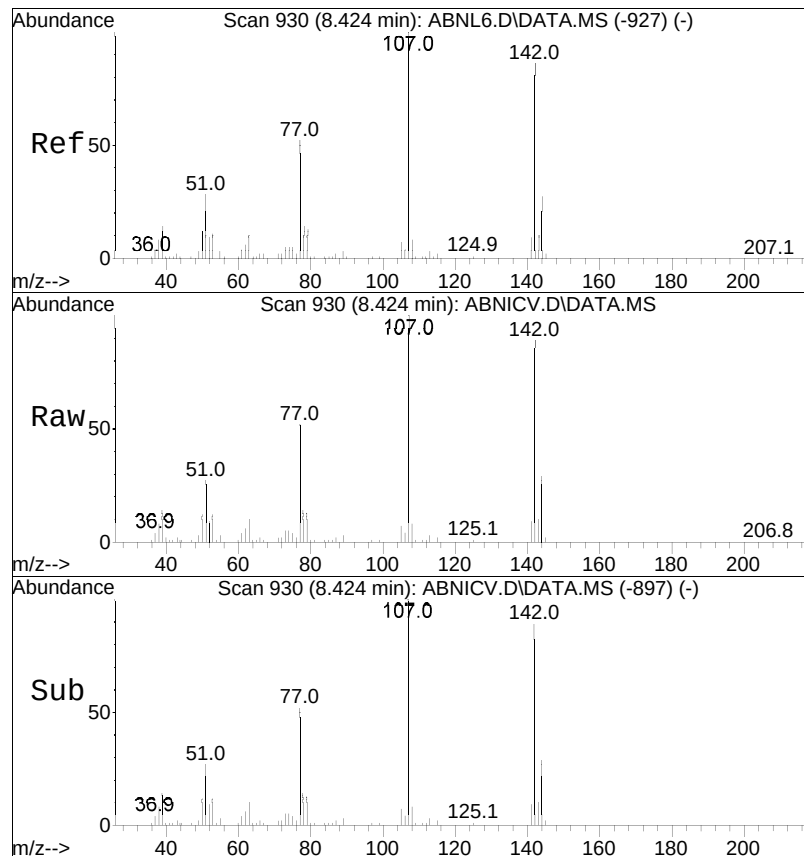




#39
 Hexachlorobutadiene
 Concen: 4.98 ug/ml
 RT: 7.977 min Scan# 870
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

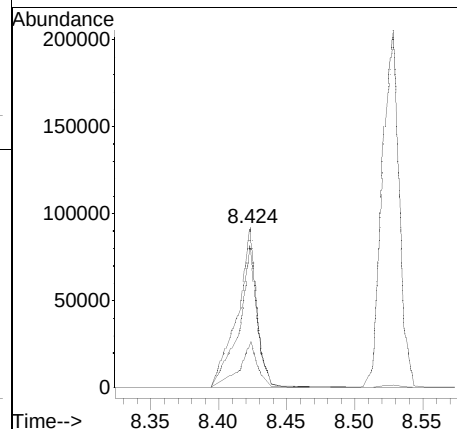
Tgt Ion:	225	Resp:	62724
Ion Ratio	Lower	Upper	
225	100		
223	63.0	50.3	75.5
227	63.0	52.2	78.2

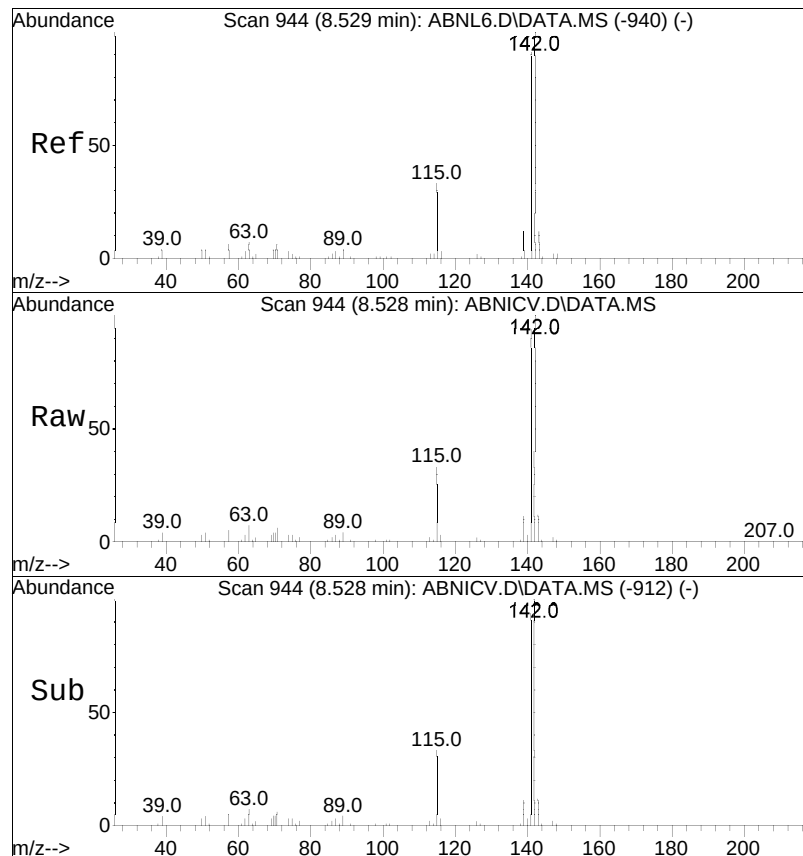




#40
 p-Chloro-m-cresol
 Concen: 4.93 ug/ml
 RT: 8.424 min Scan# 930
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

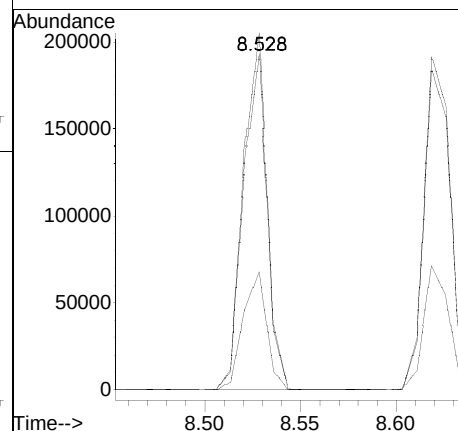
Tgt Ion	Ratio	Resp	Lower	Upper
107	100	82686		
144	29.2		20.9	31.3
142	86.8		66.1	99.1

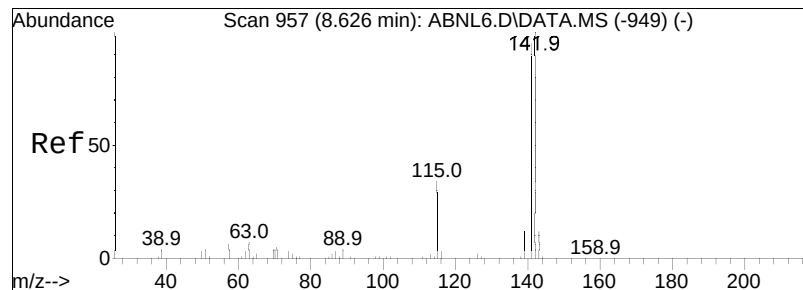




#41
 2-Methylnaphthalene
 Concen: 5.38 ug/ml
 RT: 8.528 min Scan# 944
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

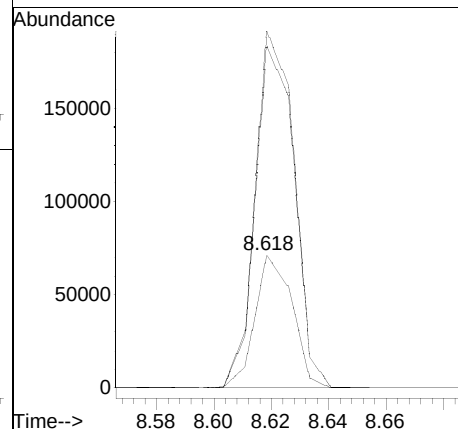
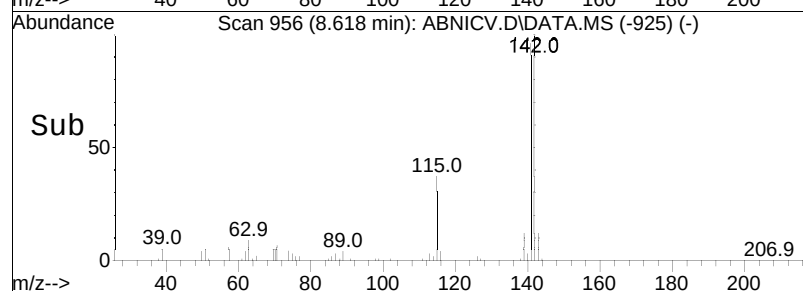
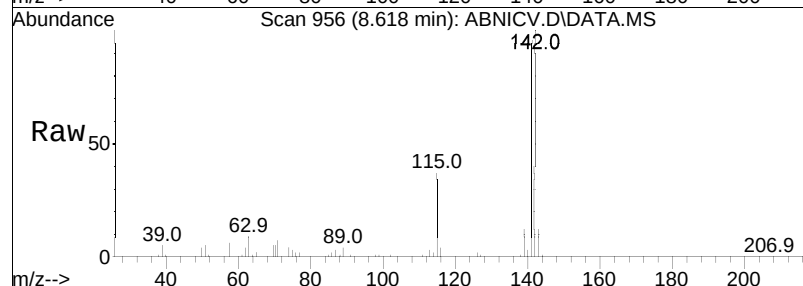
Tgt Ion:	142	Resp:	176905
Ion Ratio	Lower	Upper	
142	100		
141	93.5	69.6	104.4
115	32.9	26.6	40.0

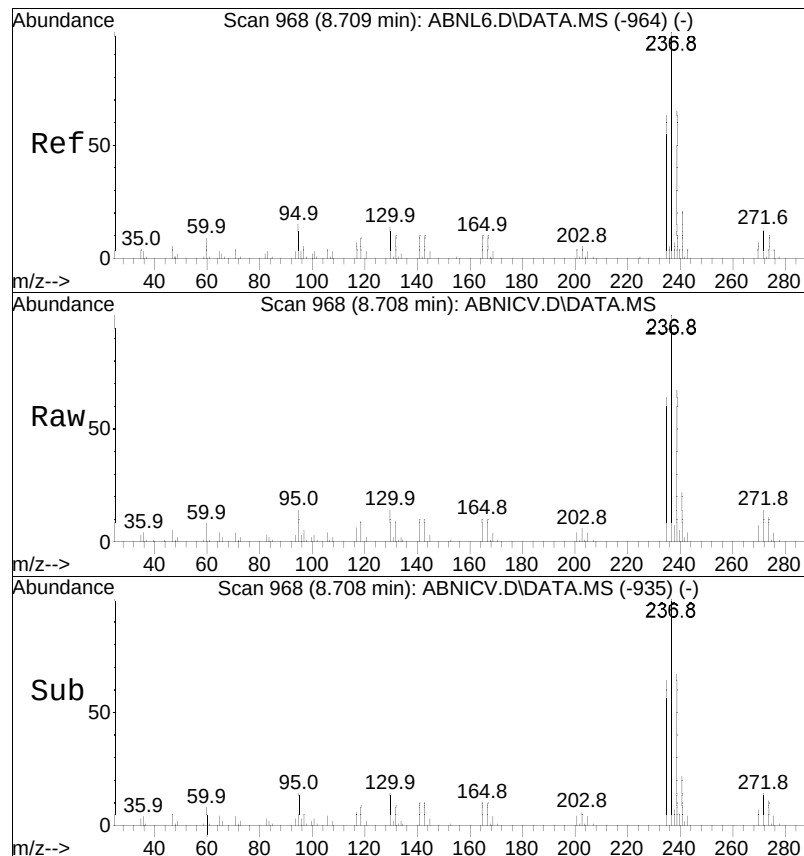




#42
 1-Methylnaphthalene
 Concen: 5.10 ug/ml
 RT: 8.618 min Scan# 956
 Delta R.T. -0.008 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

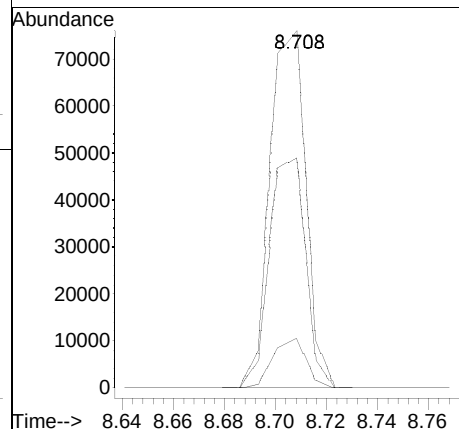
Tgt Ion	Ratio	Lower	Upper
115	100		
141	269.0	207.8	311.6
142	280.2	226.8	340.2

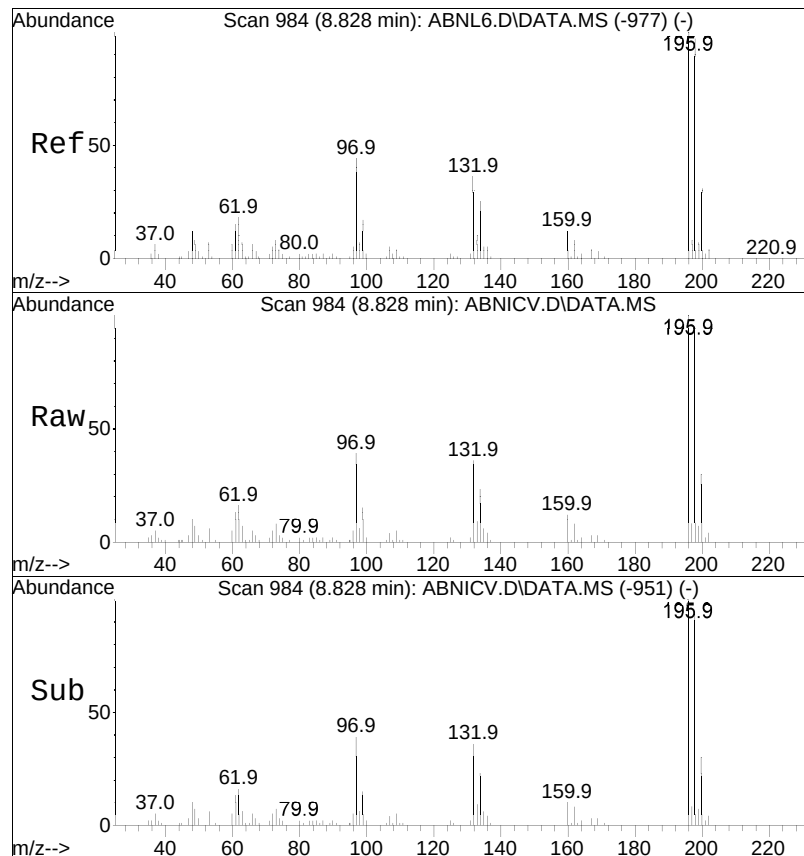




#43
 Hexachlorocyclopentadiene
 Concen: 4.82 ug/ml
 RT: 8.708 min Scan# 968
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

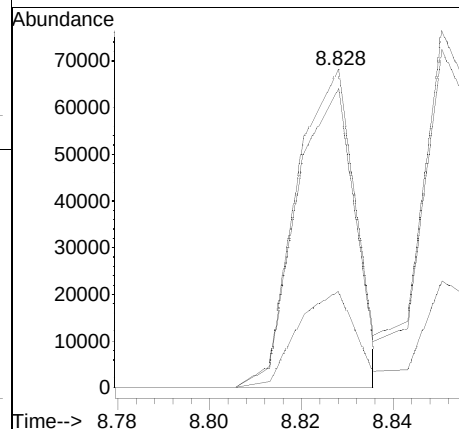
Tgt Ion	Ratio	Lower	Upper
237	100		
235	64.8	49.7	74.5
272	12.9	9.8	14.6

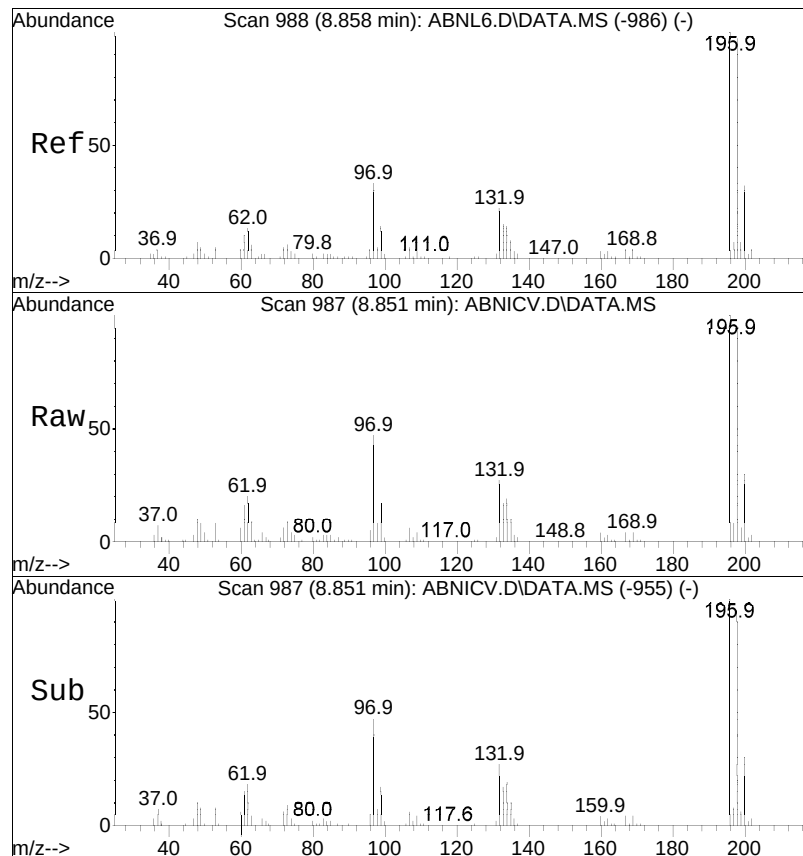




#44
 2,4,6-Trichlorophenol
 Concen: 4.77 ug/ml
 RT: 8.828 min Scan# 984
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

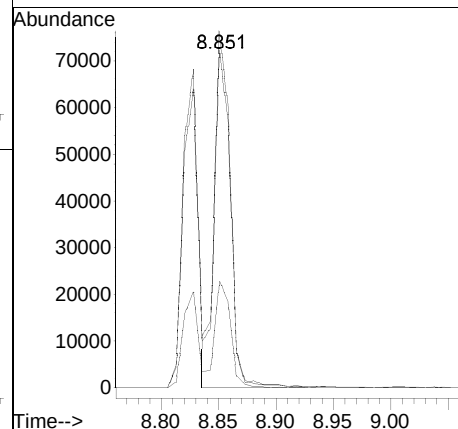
Tgt Ion:	196	Resp:	61811
Ion Ratio	Lower	Upper	
196	100		
198	93.5	77.5	116.3
200	30.0	23.8	35.6

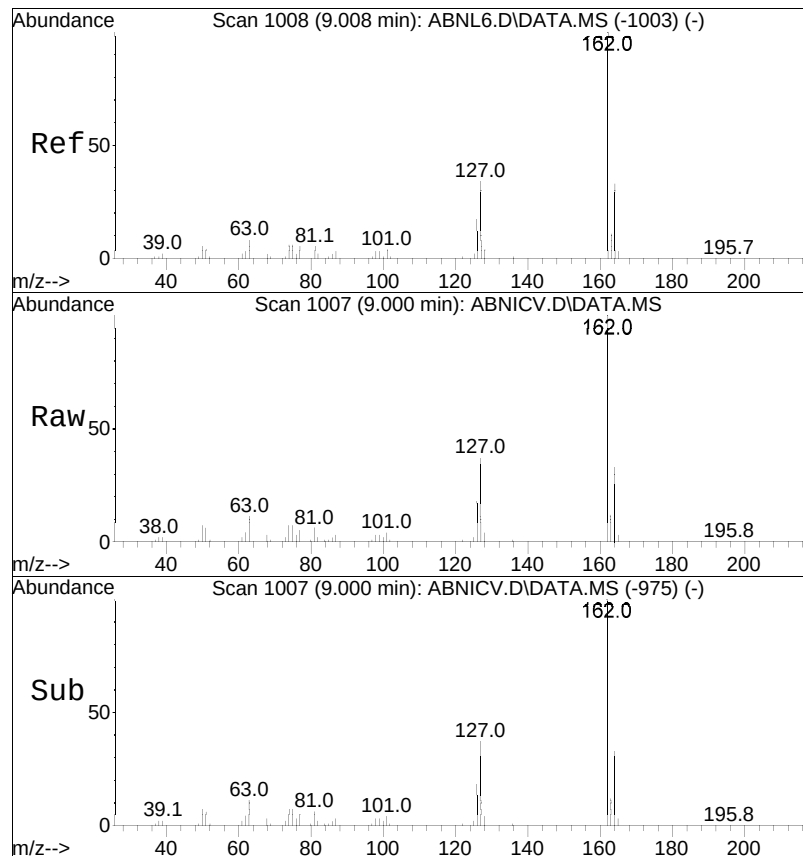




#45
 2,4,5-Trichlorophenol
 Concen: 5.65 ug/ml
 RT: 8.851 min Scan# 987
 Delta R.T. -0.007 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

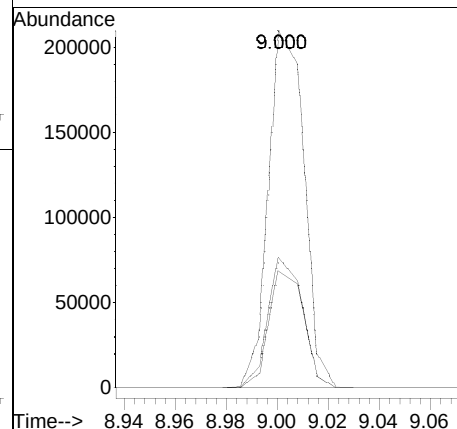
Tgt Ion:	196	Resp:	74264
Ion Ratio	Lower	Upper	
196	100		
200	29.9	25.4	38.0
198	93.0	78.0	117.0

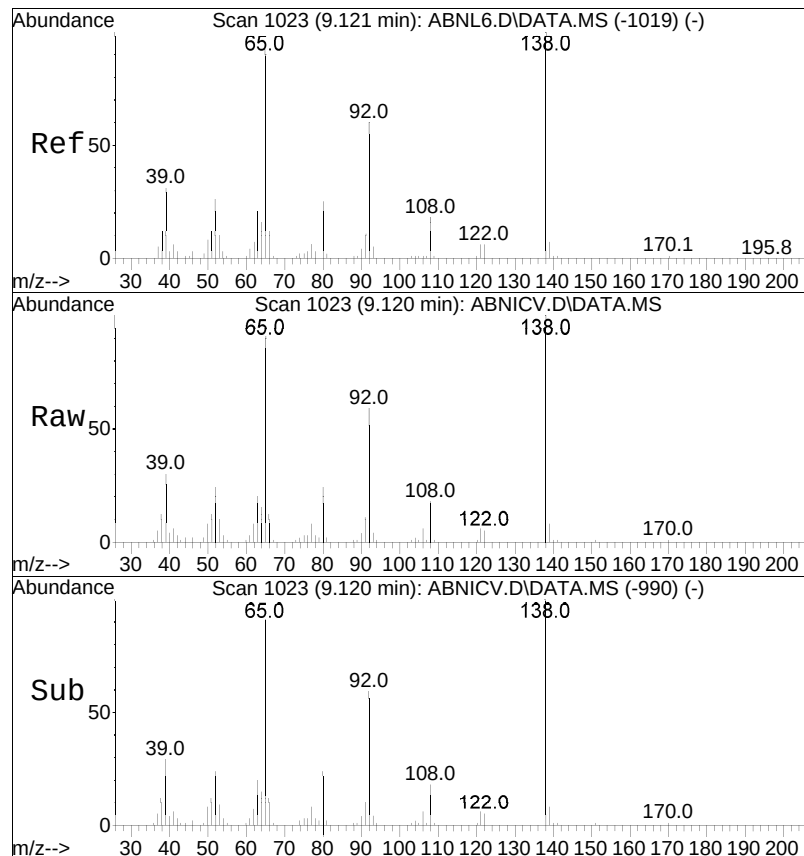




#47
 2-Chloronaphthalene
 Concen: 5.19 ug/ml
 RT: 9.000 min Scan# 1007
 Delta R.T. -0.008 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

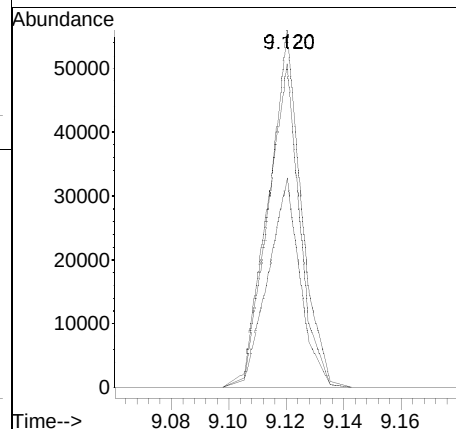
Tgt	Ion:162	Resp:	202516
Ion	Ratio	Lower	Upper
162	100		
127	35.4	32.2	48.4
164	32.2	25.7	38.5

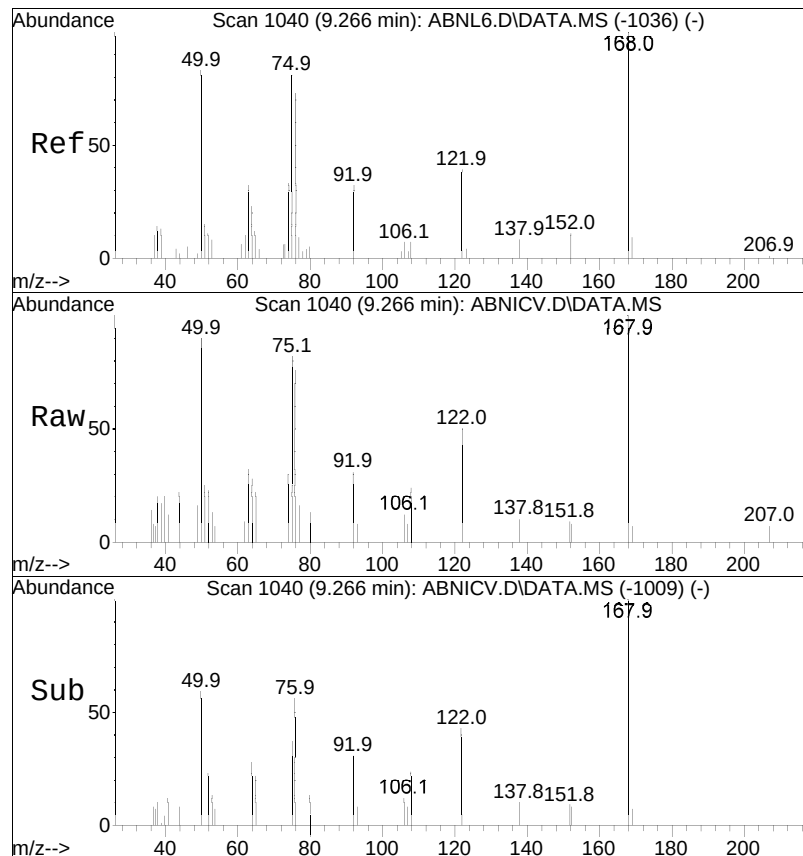




#48
 2-Nitroaniline
 Concen: 5.04 ug/ml
 RT: 9.120 min Scan# 1023
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

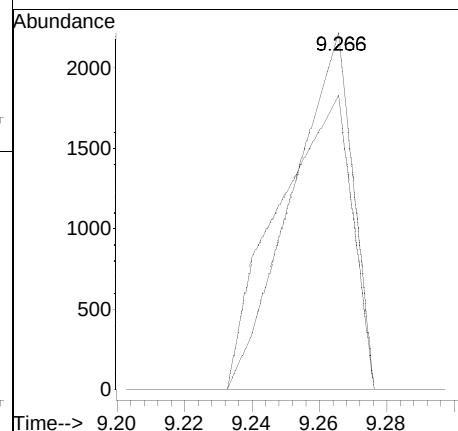
Tgt Ion:	138	Resp:	43241
Ion Ratio	Lower	Upper	
138	100		
92	58.8	53.5	80.3
65	92.2	86.3	129.5

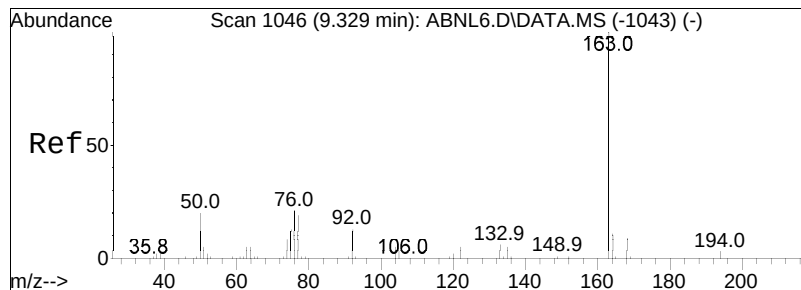




#49
 1,4-Dinitrobenzene
 Concen: 3.02 ug/ml M3
 RT: 9.266 min Scan# 1040
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

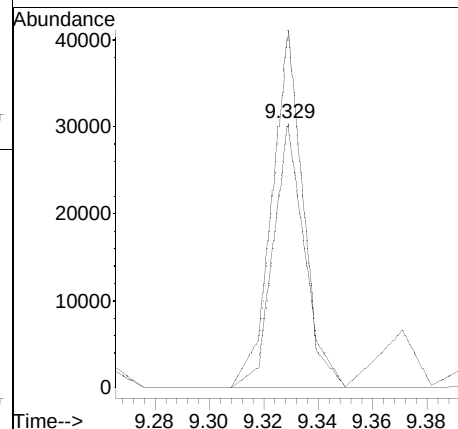
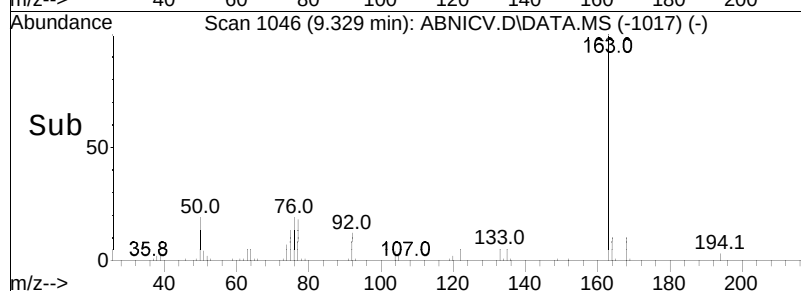
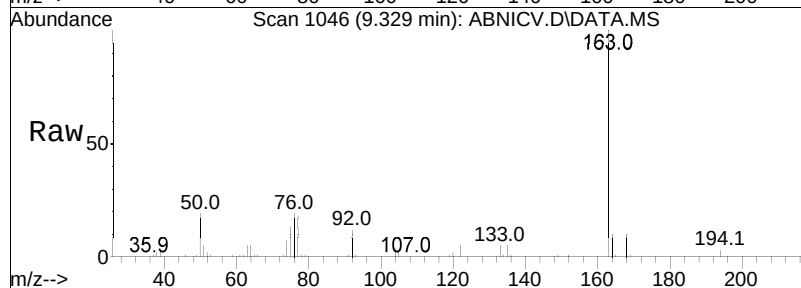
Tgt Ion:168 Resp: 1972
 Ion Ratio Lower Upper
 168 100
 75 1635.6 121.8 182.8#

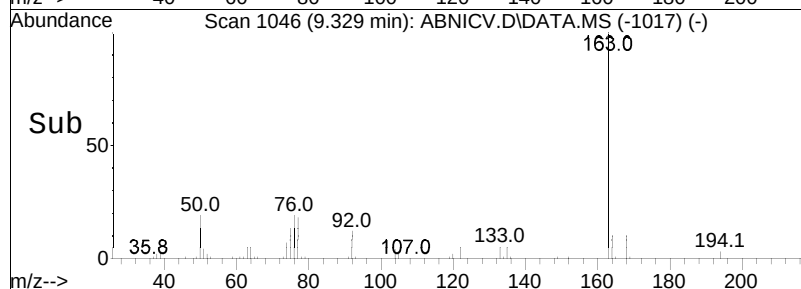
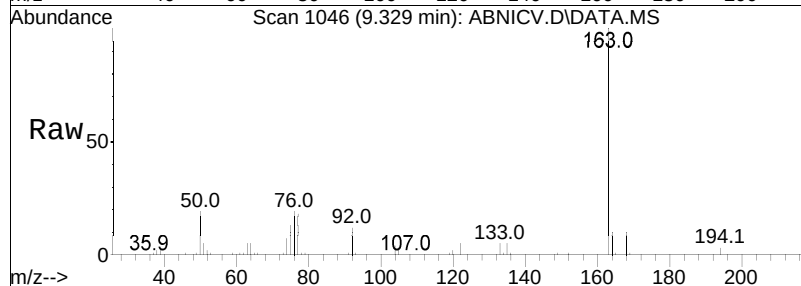
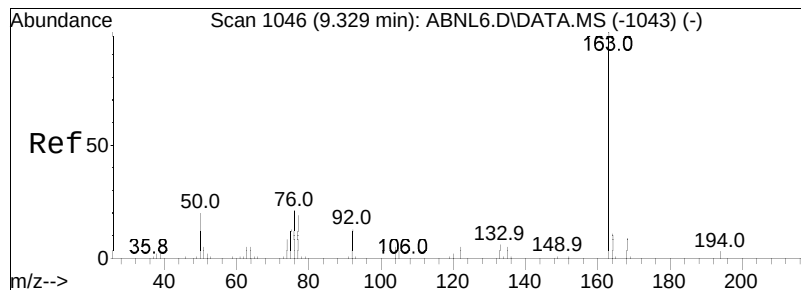




#50
 1,3-Dinitrobenzene
 Concen: 4.49 ug/ml
 RT: 9.329 min Scan# 1046
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

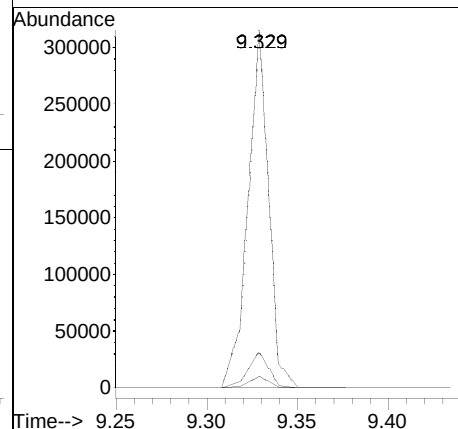
Tgt Ion:168 Resp: 24161
 Ion Ratio Lower Upper
 168 100
 75 133.5 22.7 34.1#

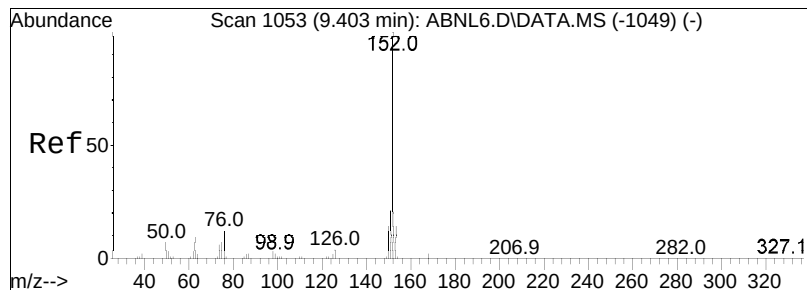




#51
 Dimethyl phthalate
 Concen: 5.23 ug/ml
 RT: 9.329 min Scan# 1046
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

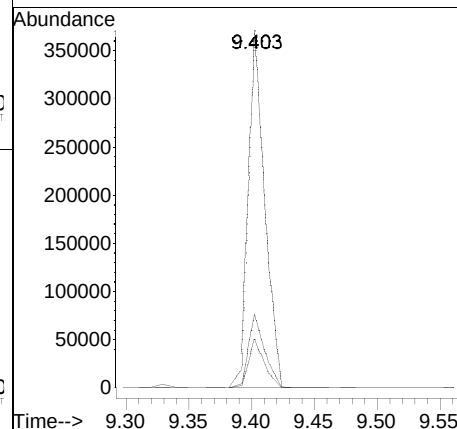
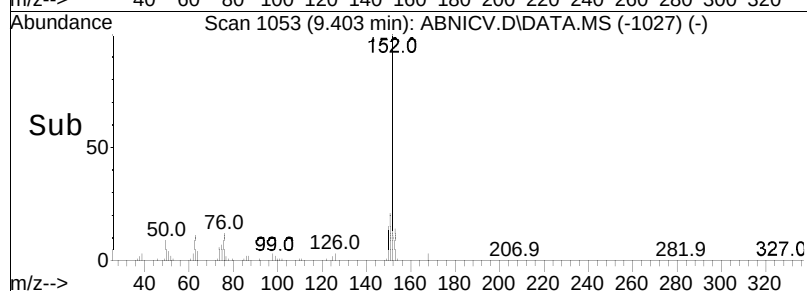
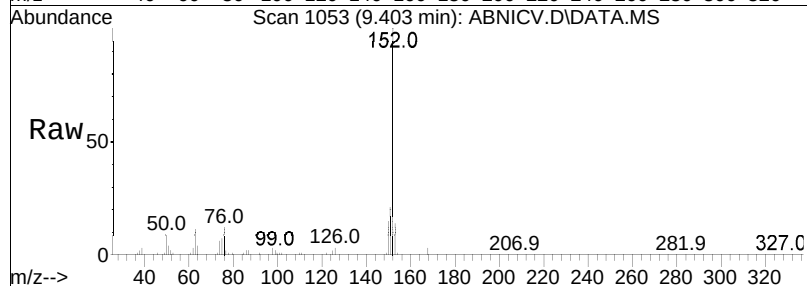
Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.3	7.9	11.9

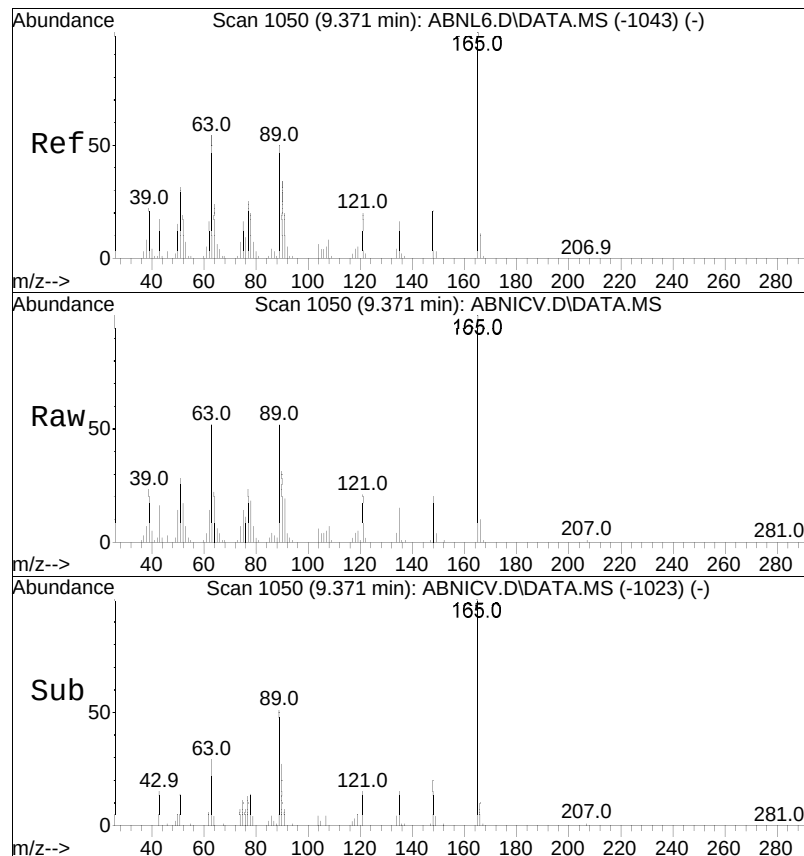




#52
 Acenaphthylene
 Concen: 5.36 ug/ml
 RT: 9.403 min Scan# 1053
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

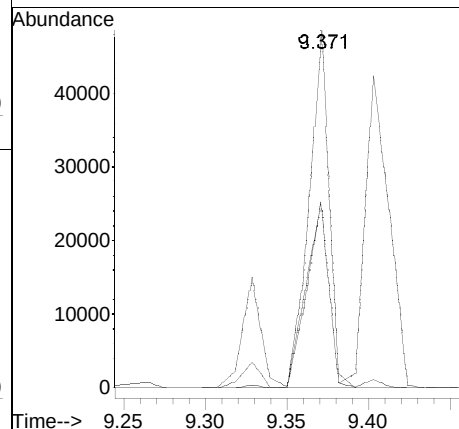
Tgt	Ion:152	Resp:	332051
Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.8	23.6
153	13.2	10.5	15.7

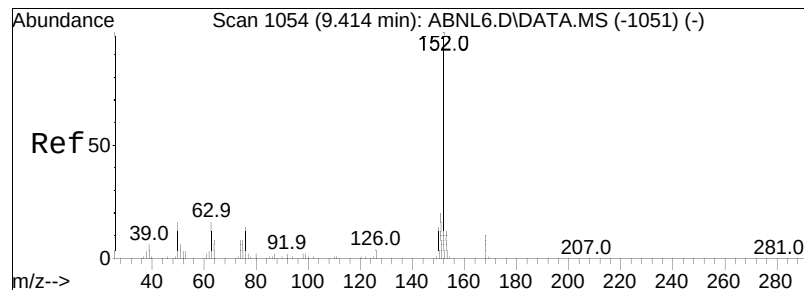




#53
 2,6-Dinitrotoluene
 Concen: 5.69 ug/ml
 RT: 9.371 min Scan# 1050
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

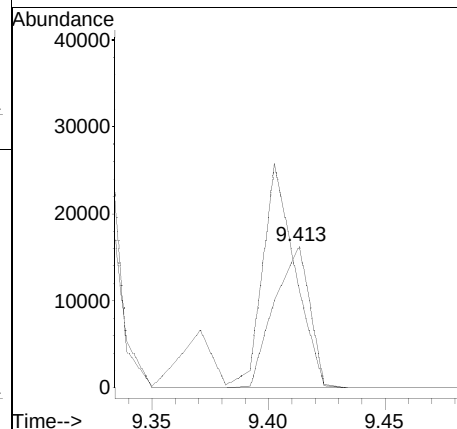
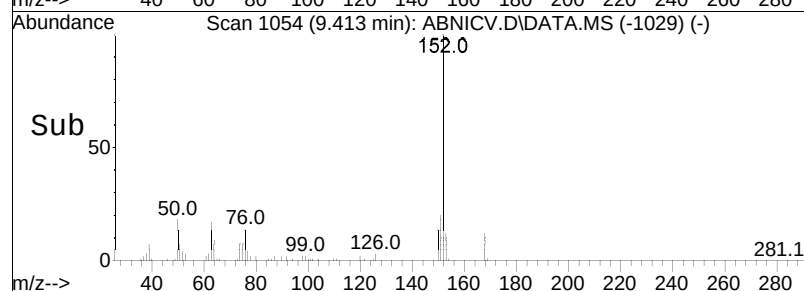
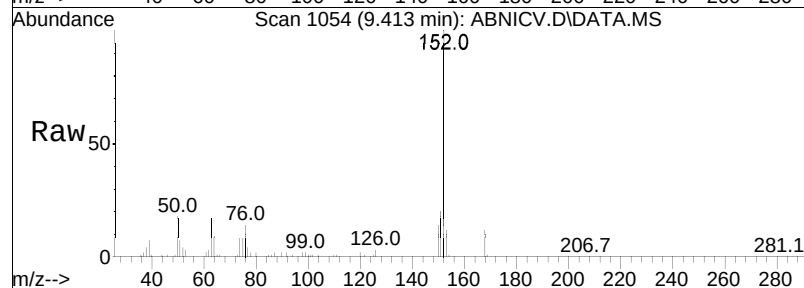
Tgt Ion	Ratio	Resp	Lower	Upper
165	100	44259		
89	53.5		54.2	81.2#
63	53.9		64.2	96.2#

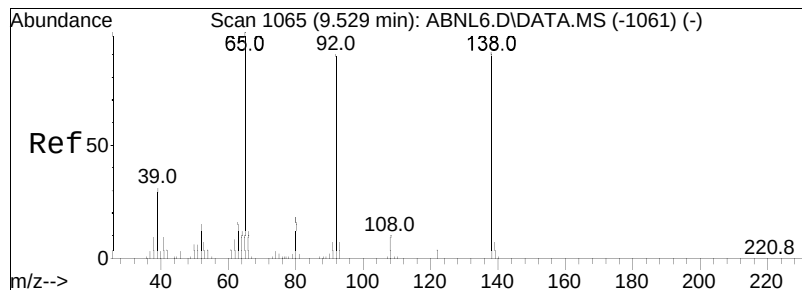




#54
 1,2-Dinitrobenzene
 Concen: 5.26 ug/ml
 RT: 9.413 min Scan# 1054
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

Tgt Ion	Ratio	Lower	Upper
168	100		
75	180.9	30.9	46.3#





#64

3-Nitroaniline

Concen: 5.37 ug/ml

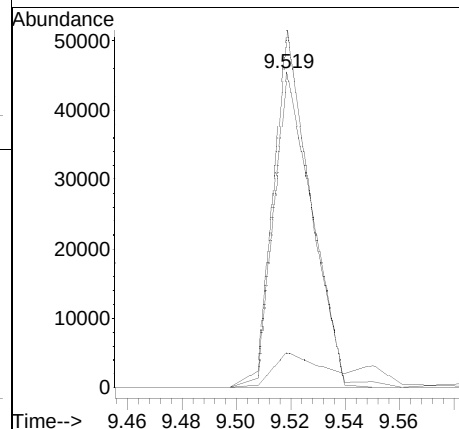
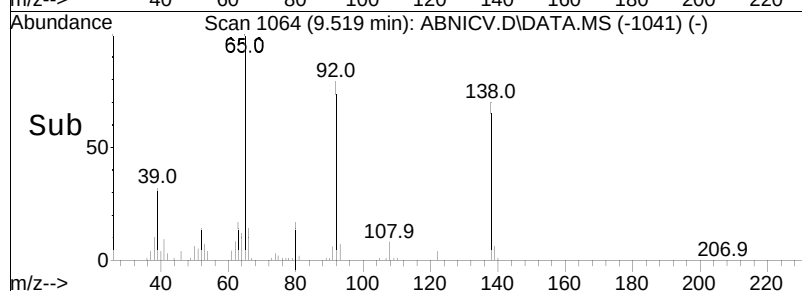
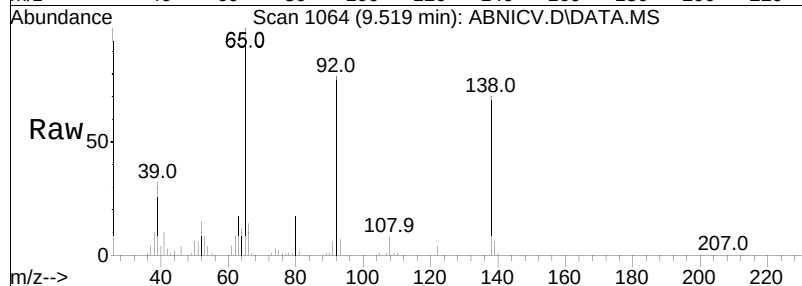
RT: 9.519 min Scan# 1064

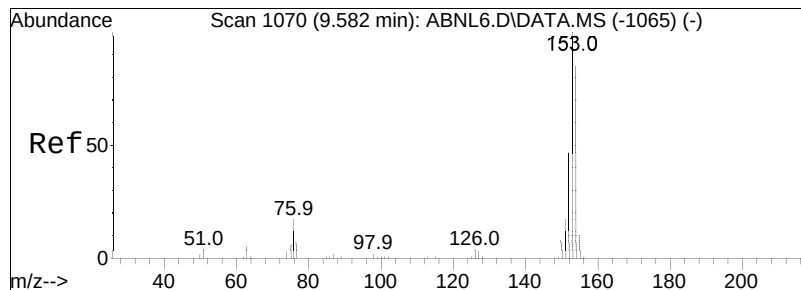
Delta R.T. -0.010 min

Lab File: ABNICV.D

Acq: 11 Mar 2025 10:18 pm

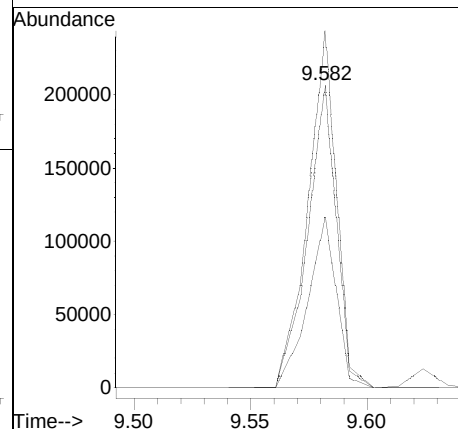
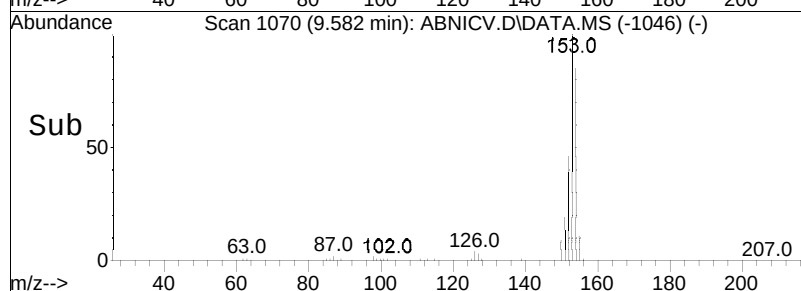
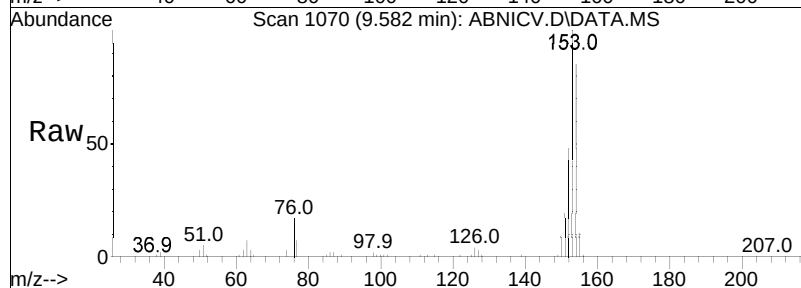
Tgt Ion	Ratio	Lower	Upper
138	100		
92	110.1	93.4	140.2
108	22.0	9.5	14.3#

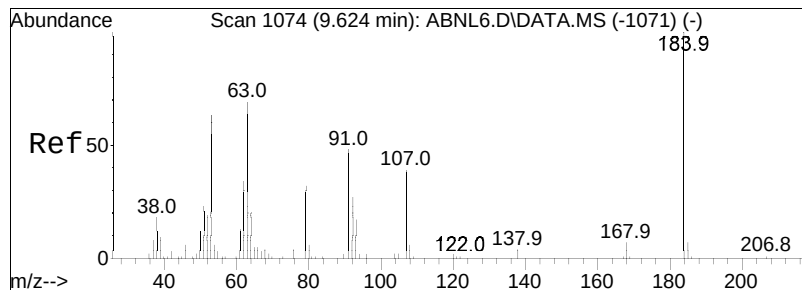




#65
 Acenaphthene
 Concen: 4.97 ug/ml
 RT: 9.582 min Scan# 1070
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

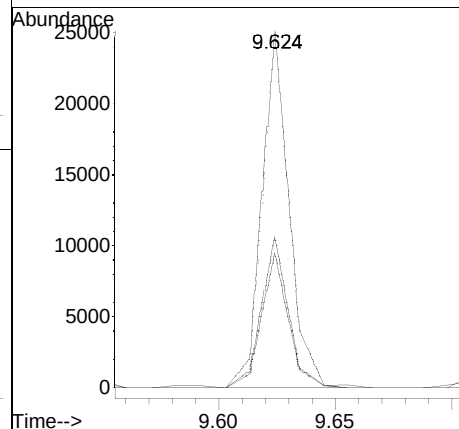
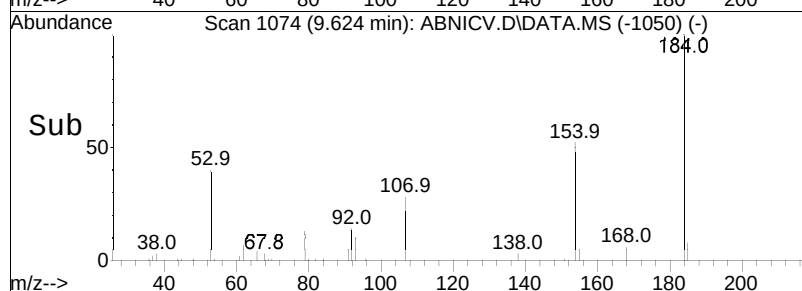
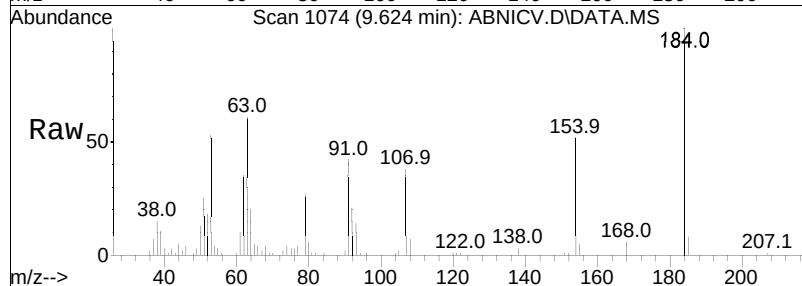
Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.0	85.3	127.9
152	56.4	41.4	62.0

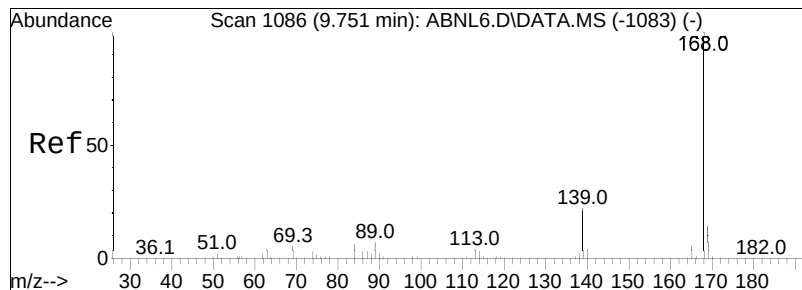




#66
 2,4-Dinitrophenol
 Concen: 4.70 ug/ml
 RT: 9.624 min Scan# 1074
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

Tgt Ion	Ratio	Resp	Lower	Upper
184	100	19873		
107	37.9		37.7	56.5
91	44.5		46.3	69.5#





#67

Dibenzo(furan)

Concen: 4.91 ug/ml

RT: 9.751 min Scan# 1086

Delta R.T. -0.000 min

Lab File: ABNICV.D

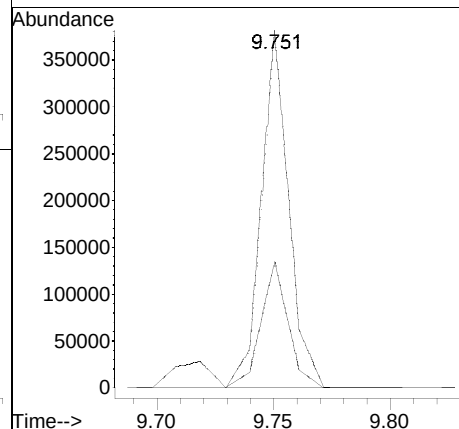
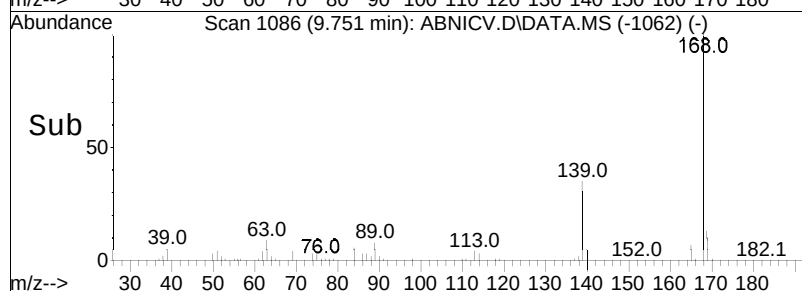
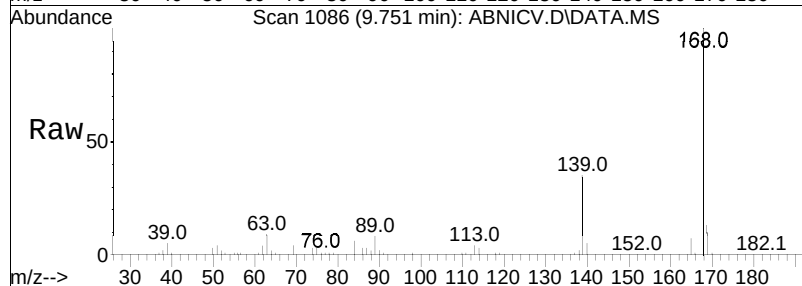
Acq: 11 Mar 2025 10:18 pm

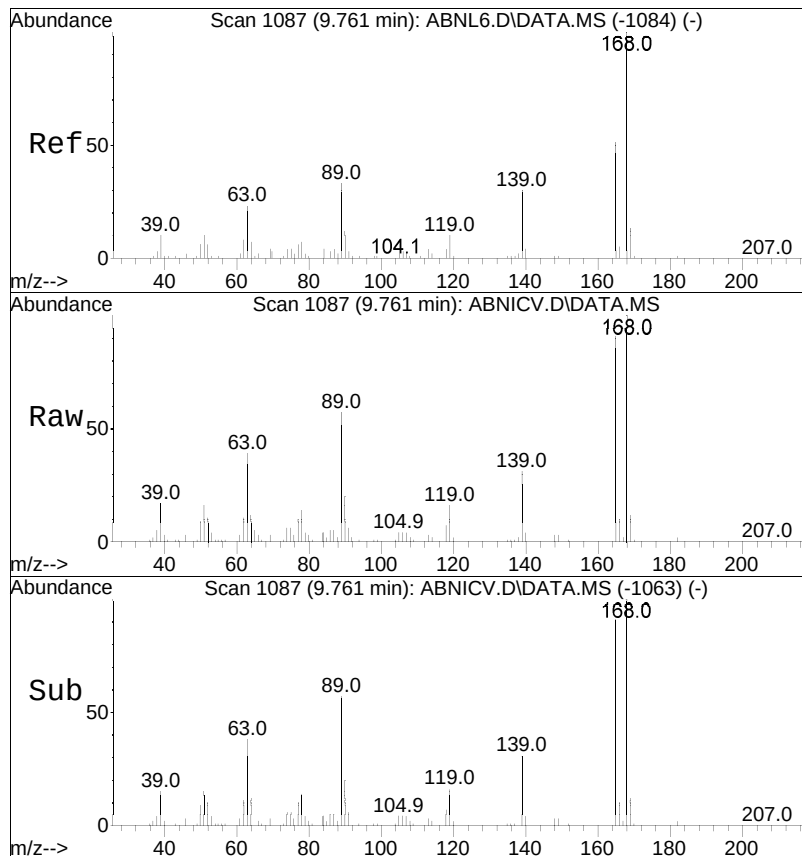
Tgt Ion:168 Resp: 305266

Ion Ratio Lower Upper

168 100

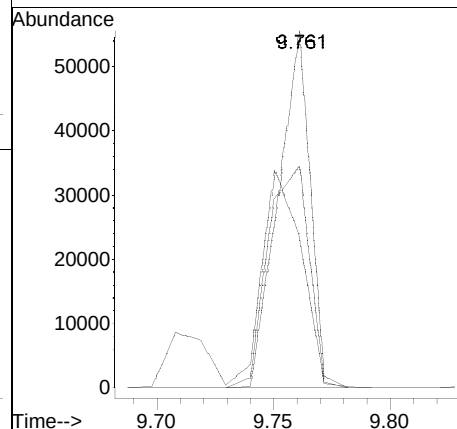
139 50.9 31.4 47.2#

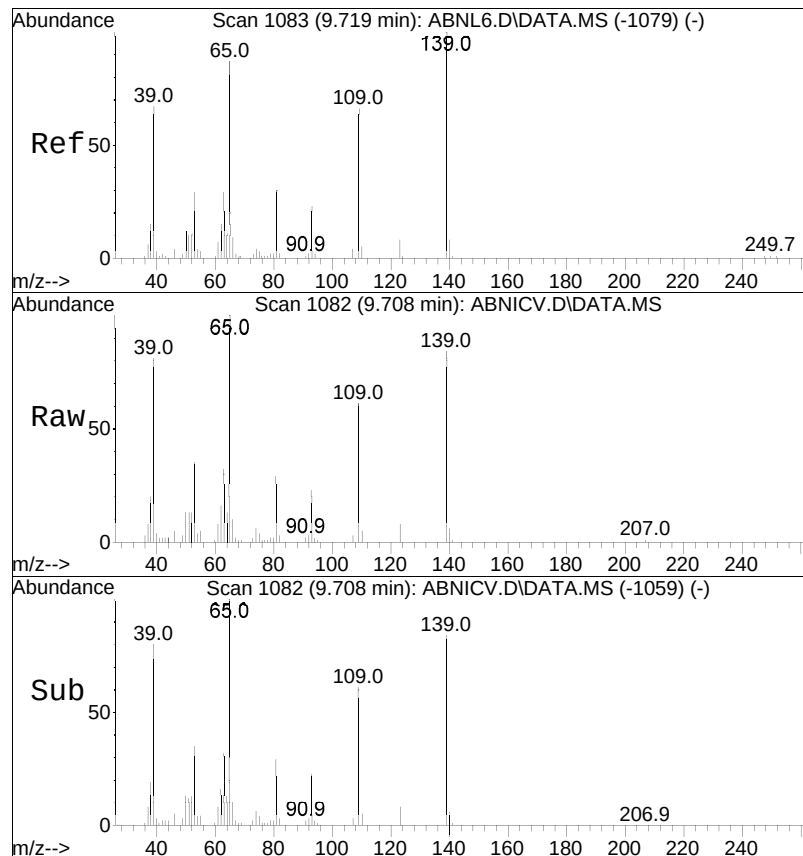




#68
 2,4-Dinitrotoluene
 Concen: 4.64 ug/ml
 RT: 9.761 min Scan# 1087
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

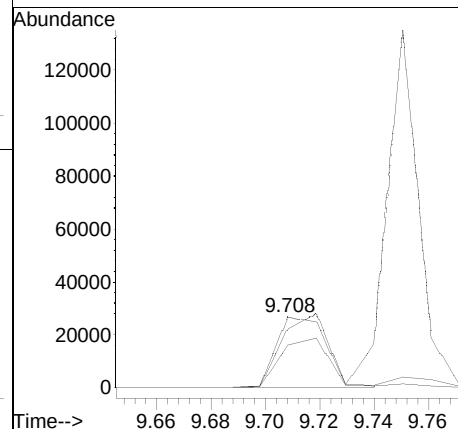
Tgt	Ion:165	Resp:	52324
Ion	Ratio	Lower	Upper
165	100		
89	80.3	72.0	108.0
63	75.2	52.7	79.1

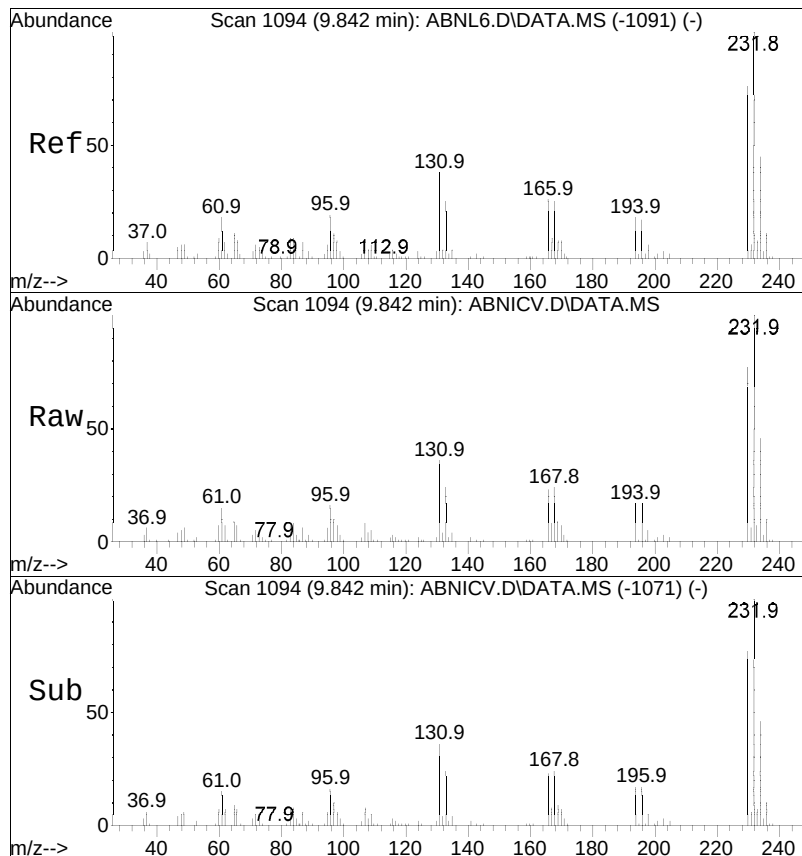




#69
 4-Nitrophenol
 Concen: 5.42 ug/ml
 RT: 9.708 min Scan# 1082
 Delta R.T. -0.011 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

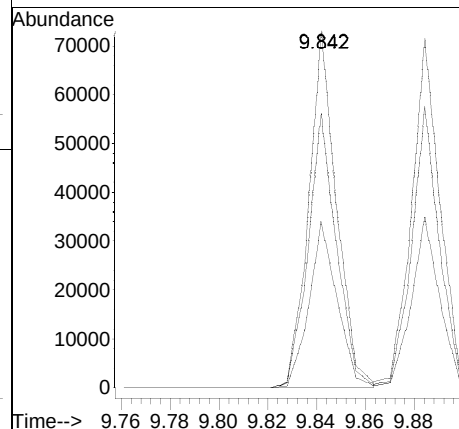
Tgt Ion:	65	Resp:	33937
Ion Ratio	Lower	Upper	
65	100		
109	67.6	47.4	71.2
139	0.0	76.6	115.0#

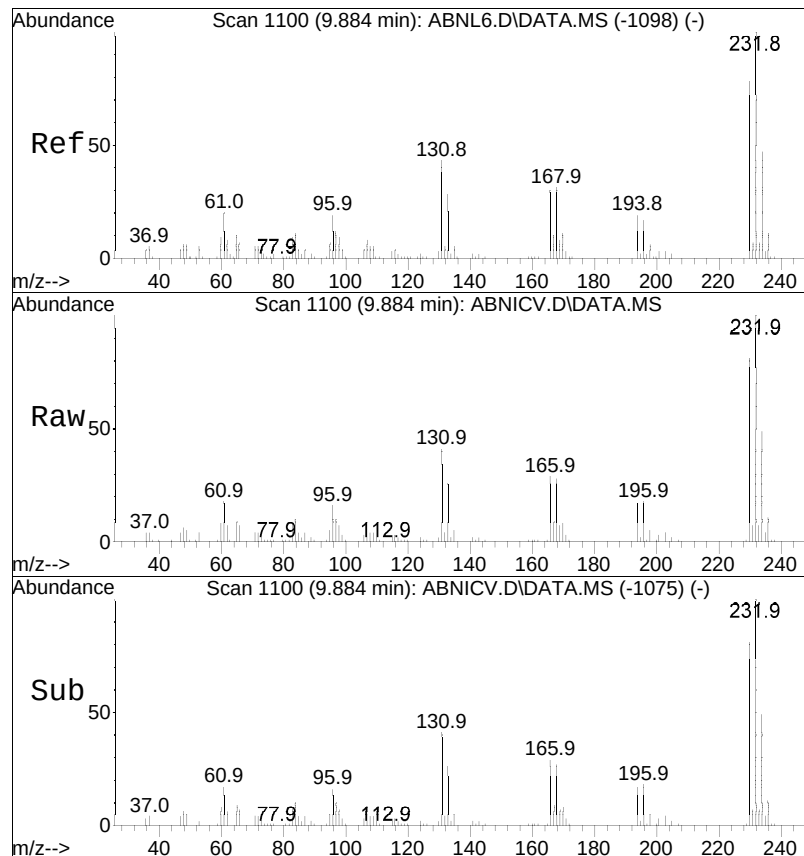




#70
 2,3,5,6-Tetrachlorophenol
 Concen: 6.97 ug/ml
 RT: 9.842 min Scan# 1094
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

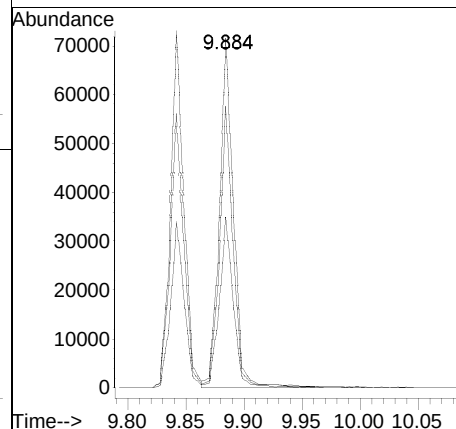
Tgt Ion:	232	Resp:	82818
Ion Ratio	Lower	Upper	
232	100		
230	78.0	64.2	96.4
234	47.1	38.1	57.1

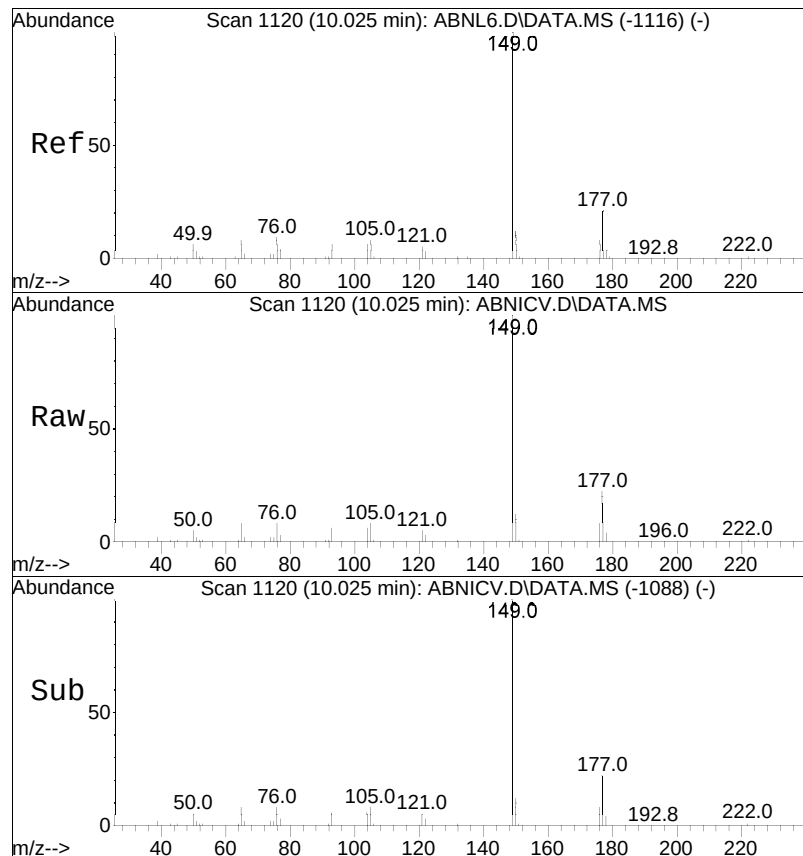




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 5.42 ug/ml
 RT: 9.884 min Scan# 1100
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

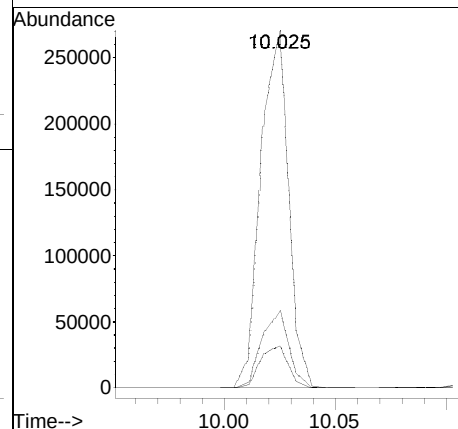
Tgt Ion	Ratio	Resp	Lower	Upper
232	100	60689		
230	77.3		61.8	92.8
234	47.9		36.2	54.2

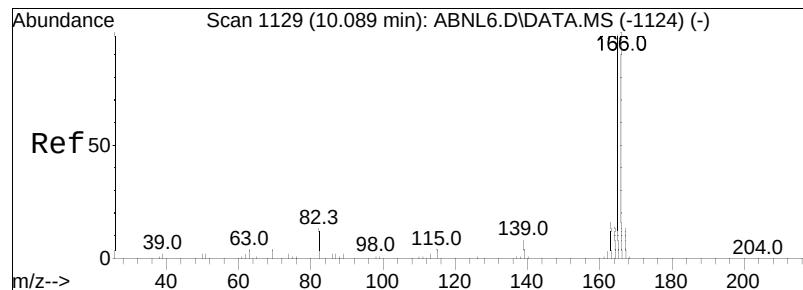




#72
 Diethyl phthalate
 Concen: 5.25 ug/ml
 RT: 10.025 min Scan# 1120
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
177	21.2	16.1	24.1
150	12.0	9.4	14.2





#73

Fluorene

Concen: 5.21 ug/ml

RT: 10.082 min Scan# 1128

Delta R.T. -0.007 min

Lab File: ABNICV.D

Acq: 11 Mar 2025 10:18 pm

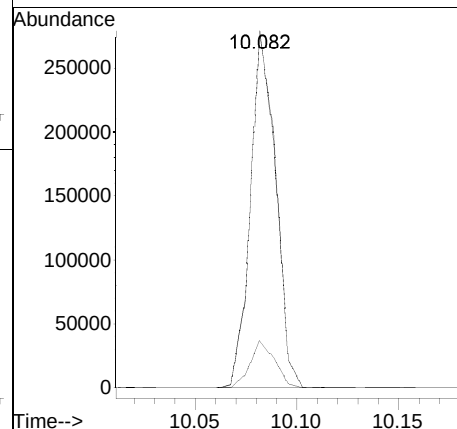
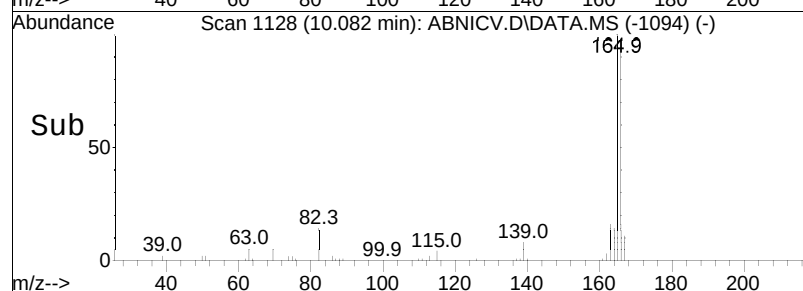
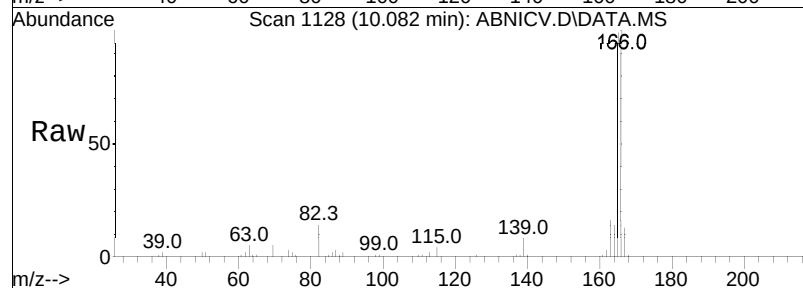
Tgt Ion:166 Resp: 238812

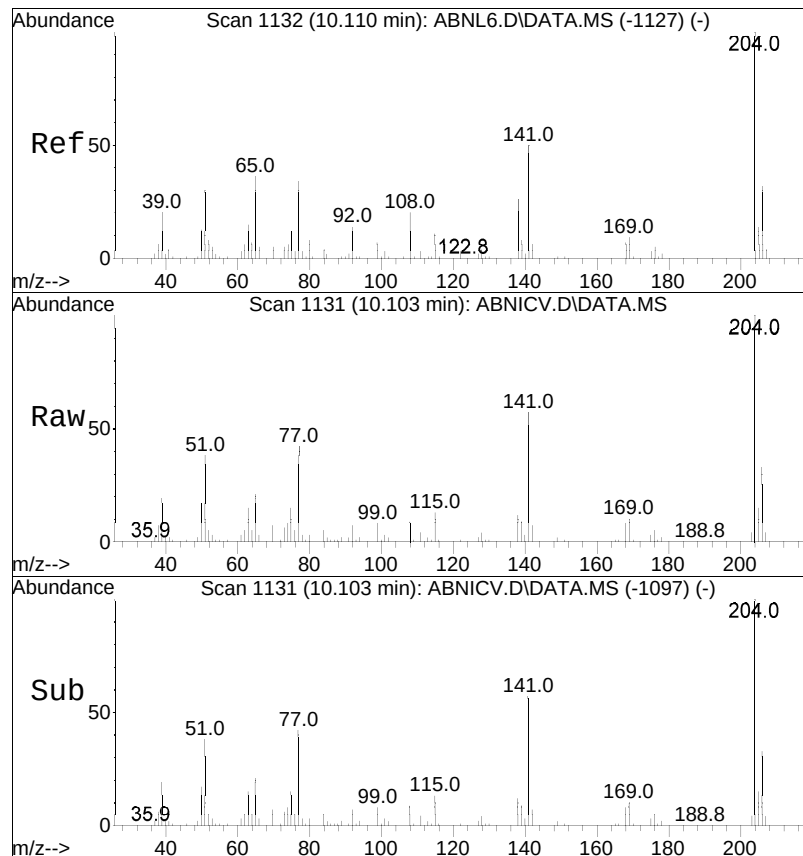
Ion Ratio Lower Upper

166 100

165 101.0 76.2 114.2

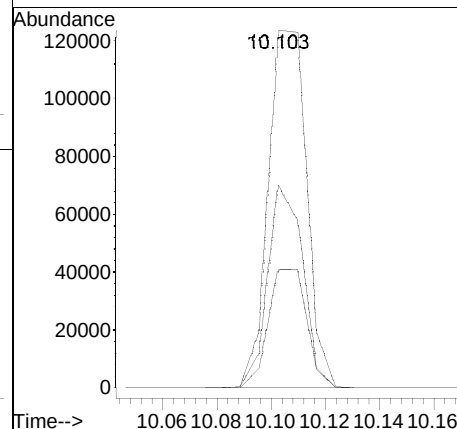
167 13.3 10.6 15.8

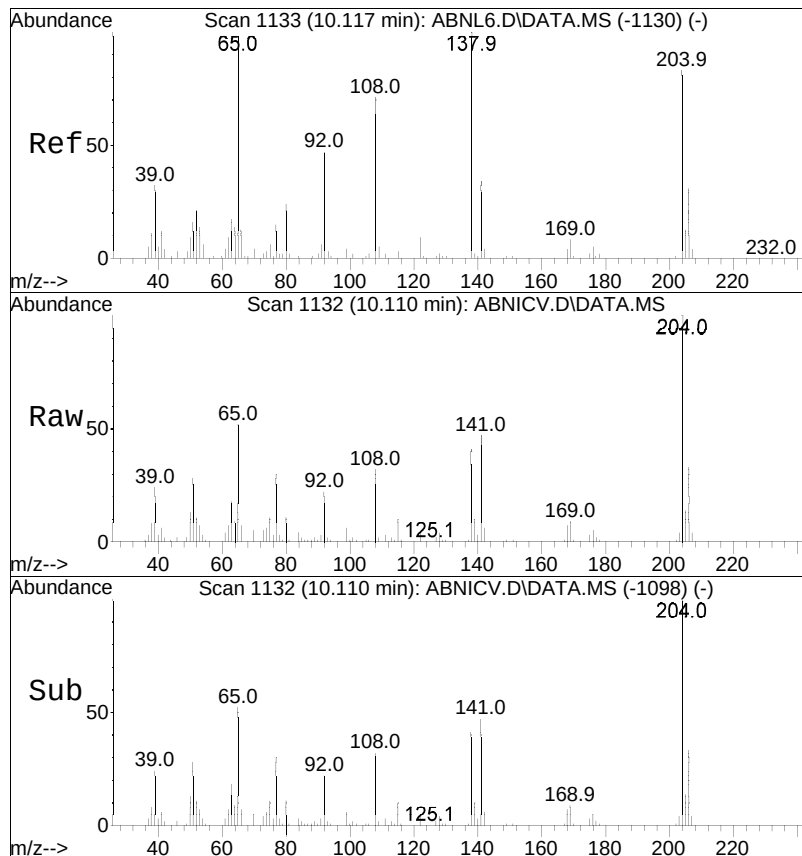




#74
 4-Chlorophenyl phenyl ether
 Concen: 5.04 ug/ml
 RT: 10.103 min Scan# 1131
 Delta R.T. -0.007 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

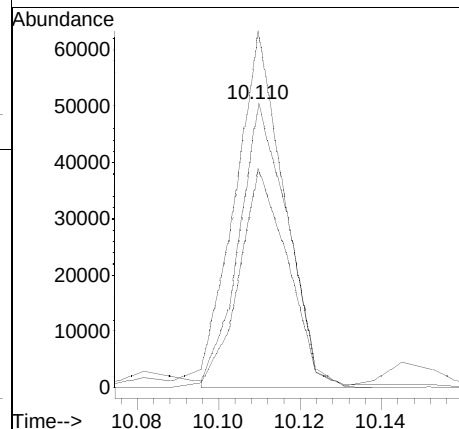
Tgt	Ion:204	Resp:	120770
Ion	Ratio	Lower	Upper
204	100		
206	33.3	25.8	38.6
141	51.8	53.6	80.4#

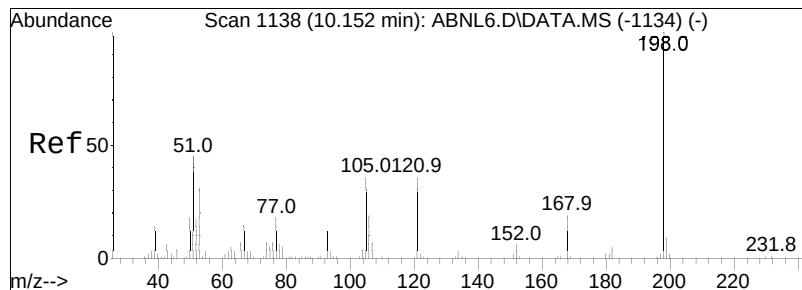




#75
4-Nitroaniline
Concen: 5.26 ug/ml M6
RT: 10.110 min Scan# 1132
Delta R.T. -0.007 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

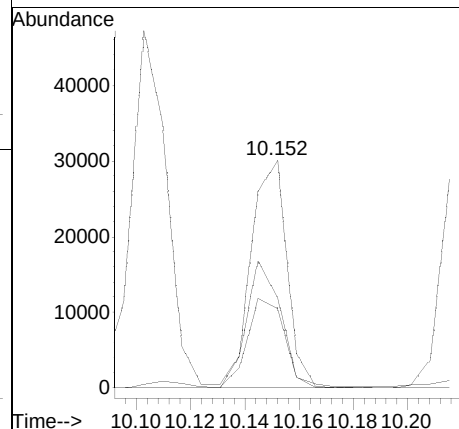
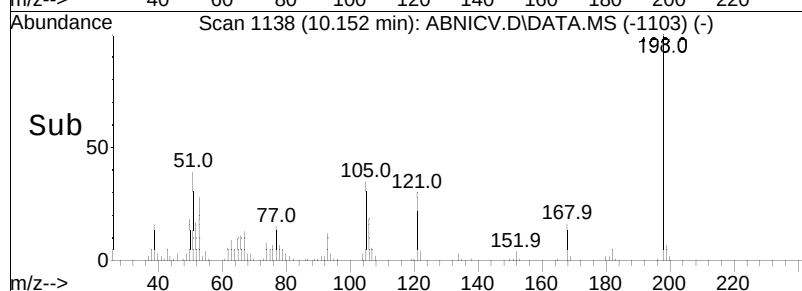
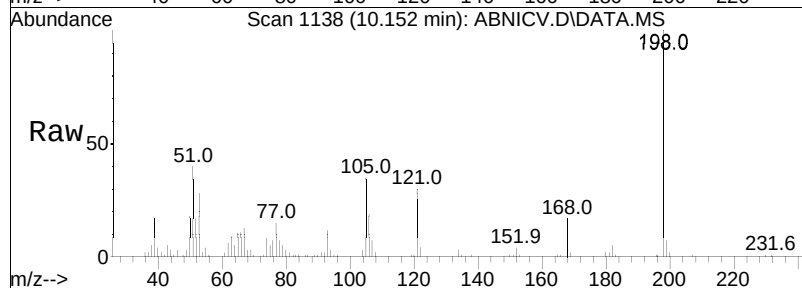
Tgt Ion:	138	Resp:	42007
Ion Ratio	Lower	Upper	
138	100		
108	80.5	52.1	78.1#
65	131.8	115.0	172.6

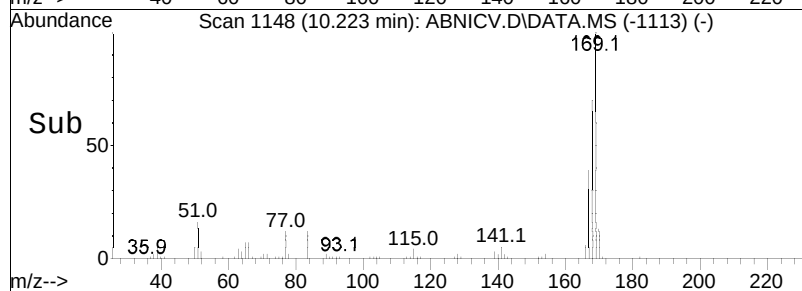
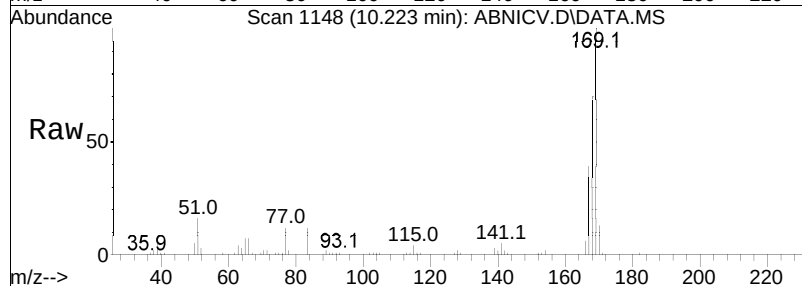
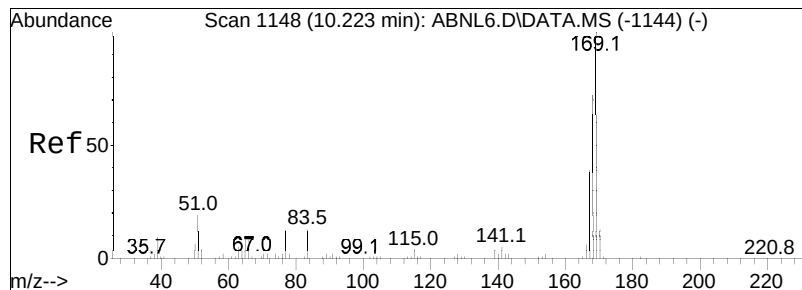




#76
 4,6-Dinitro-o-cresol
 Concen: 4.14 ug/ml
 RT: 10.152 min Scan# 1138
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

Tgt Ion	Ratio	Lower	Upper
198	100		
51	54.9	76.0	114.0#
105	40.8	45.6	68.4#





#77

NDPA/DPA

Concen: 5.30 ug/ml

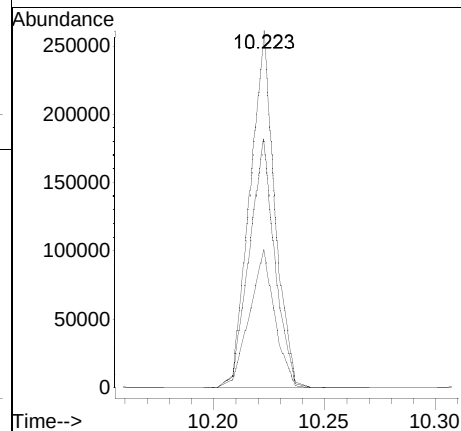
RT: 10.223 min Scan# 1148

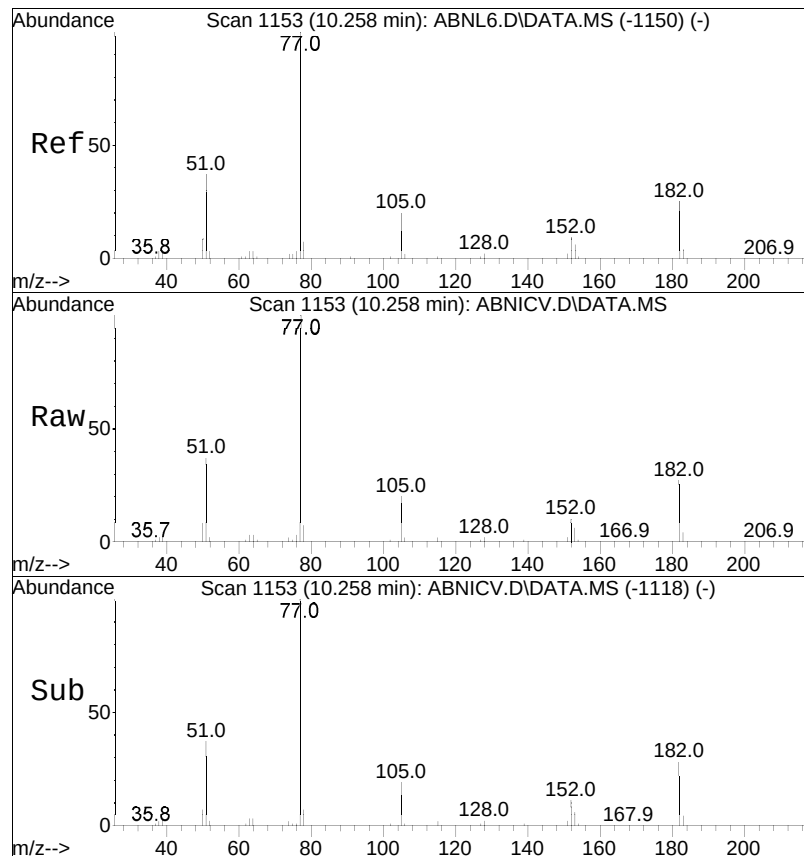
Delta R.T. -0.000 min

Lab File: ABNICV.D

Acq: 11 Mar 2025 10:18 pm

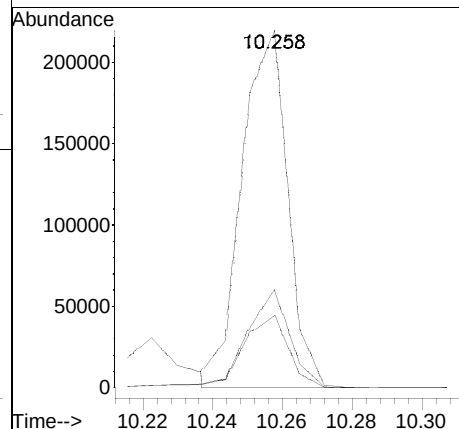
Tgt Ion:	169	Resp:	202666
Ion Ratio	Lower	Upper	
169	100		
168	71.9	54.0	81.0
167	39.6	28.6	42.8

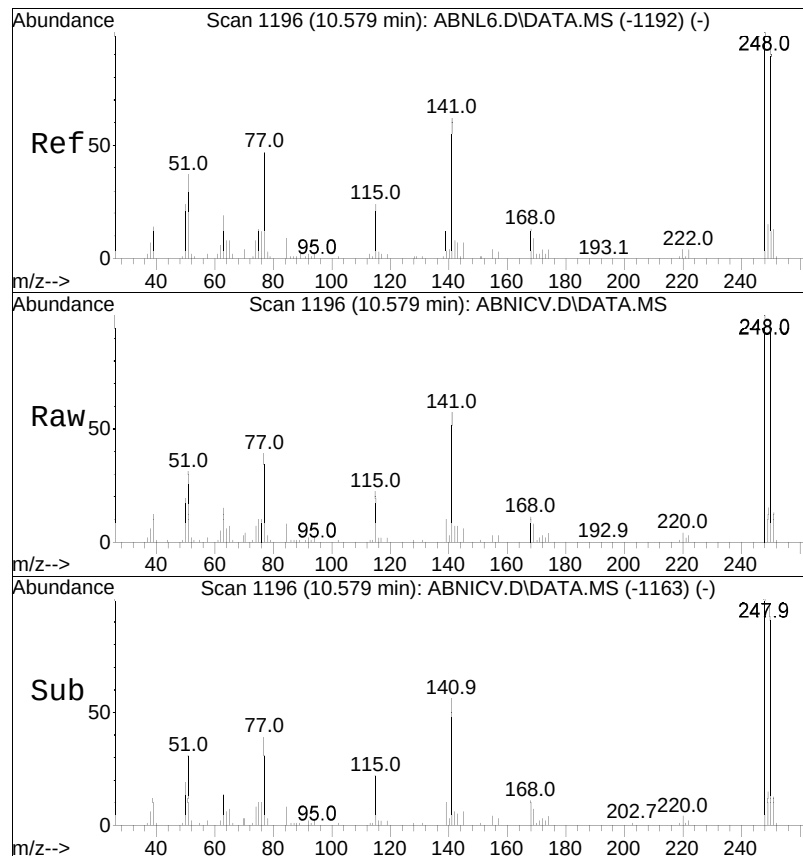




#78
 Azobenzene
 Concen: 5.43 ug/ml
 RT: 10.258 min Scan# 1153
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

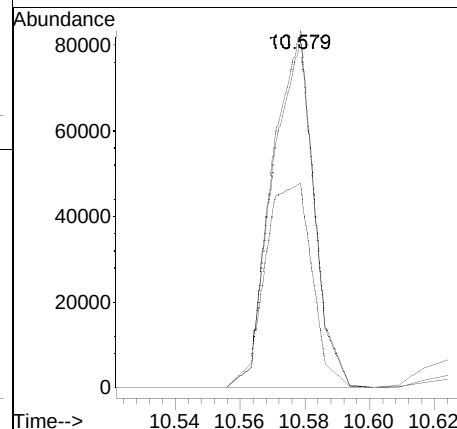
Tgt Ion:	77	Resp:	197919
Ion Ratio	Lower	Upper	
77	100		
182	27.0	17.4	26.2#
105	21.4	15.4	23.2

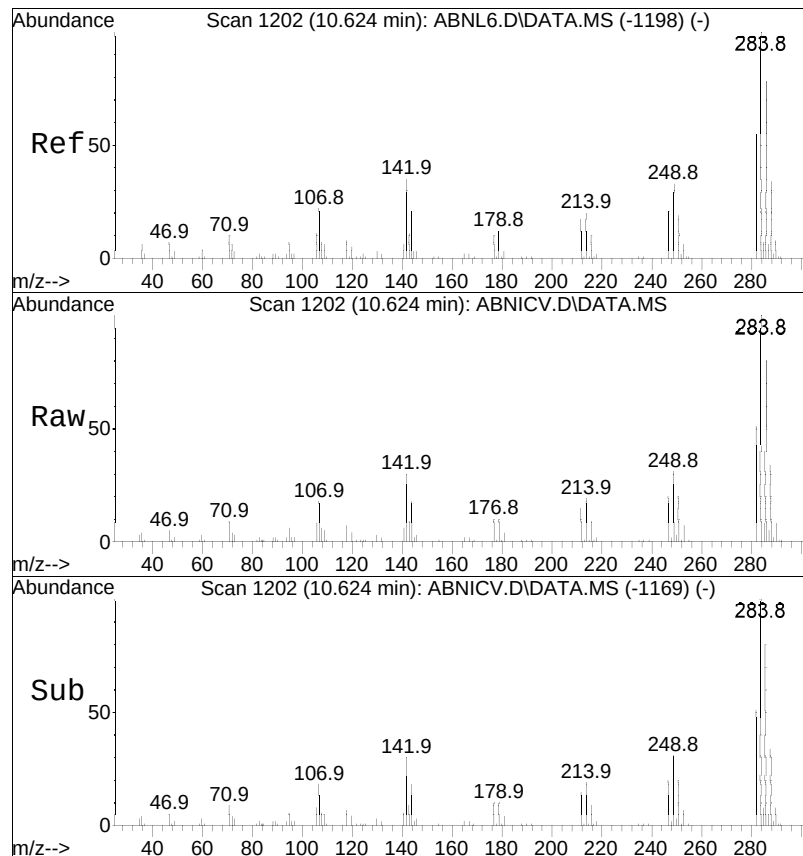




#80
 4-Bromophenyl phenyl ether
 Concen: 4.92 ug/ml
 RT: 10.579 min Scan# 1196
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

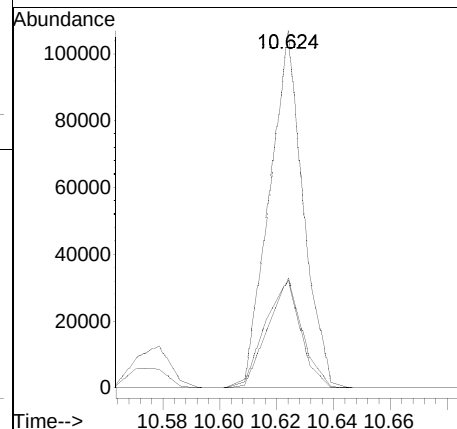
Tgt Ion:	248	Resp:	74019
Ion Ratio	Lower	Upper	
248	100		
141	64.1	76.6	114.8#
250	96.5	77.3	115.9

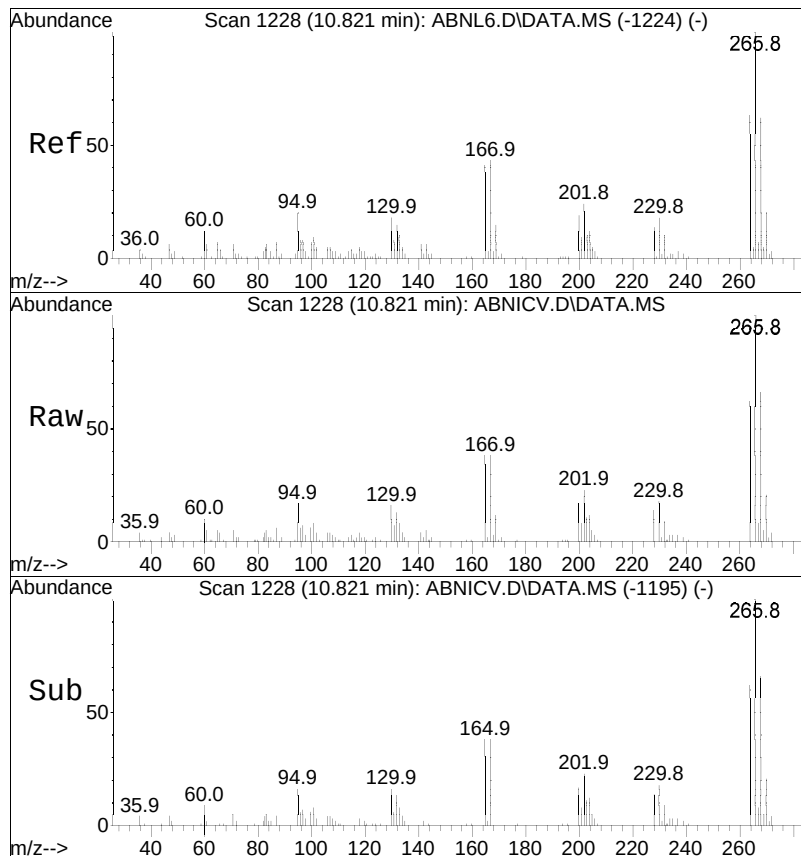




#81
 Hexachlorobenzene
 Concen: 4.99 ug/ml
 RT: 10.624 min Scan# 1202
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

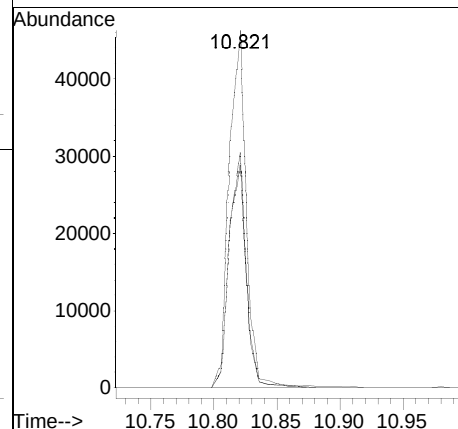
Tgt Ion	Ratio	Lower	Upper
284	100		
142	31.8	41.9	62.9#
249	31.2	24.1	36.1

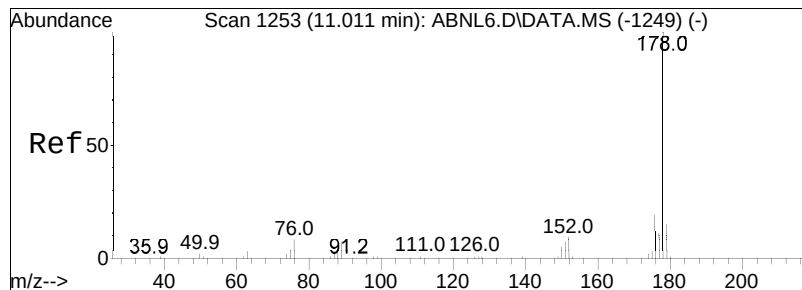




#82
 Pentachlorophenol
 Concen: 4.75 ug/ml
 RT: 10.821 min Scan# 1228
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

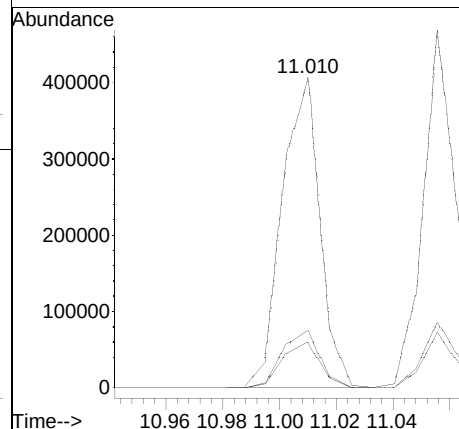
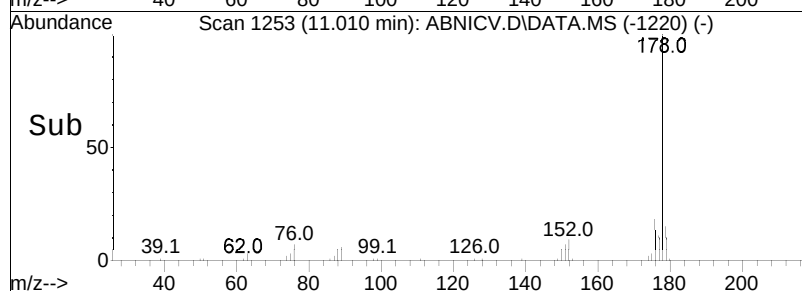
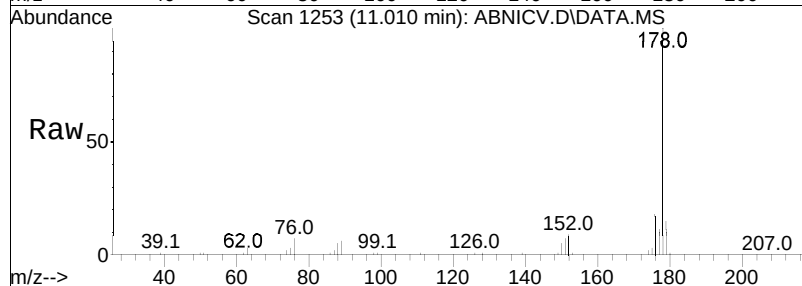
Tgt Ion:	266	Resp:	43595
Ion Ratio	Lower	Upper	
266	100		
264	62.9	49.7	74.5
268	65.0	50.5	75.7

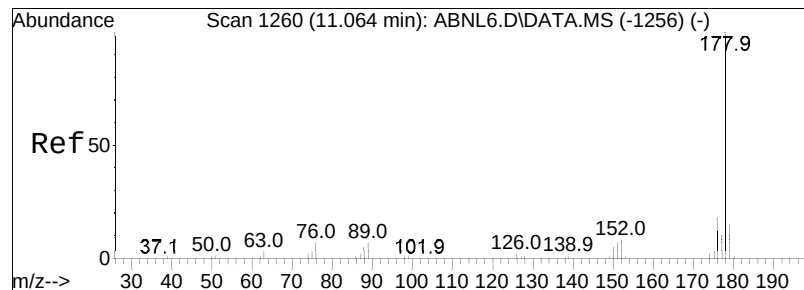




#89
 Phenanthrene
 Concen: 5.17 ug/ml
 RT: 11.010 min Scan# 1253
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

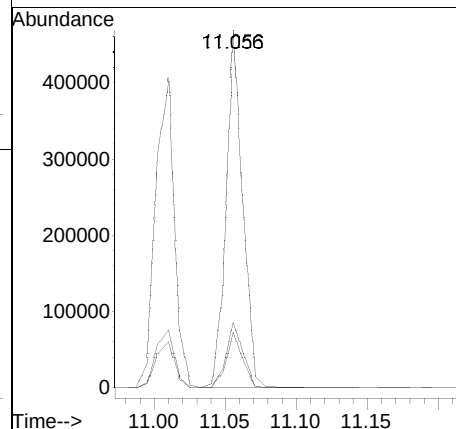
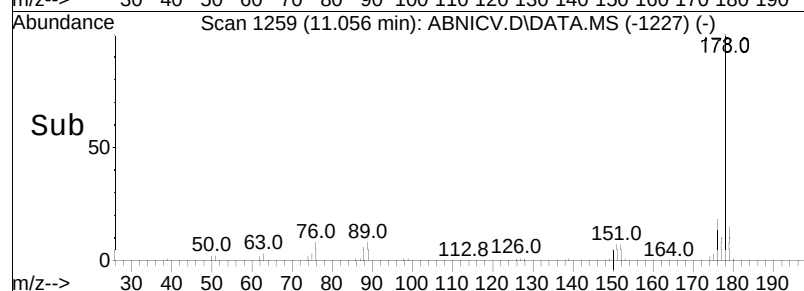
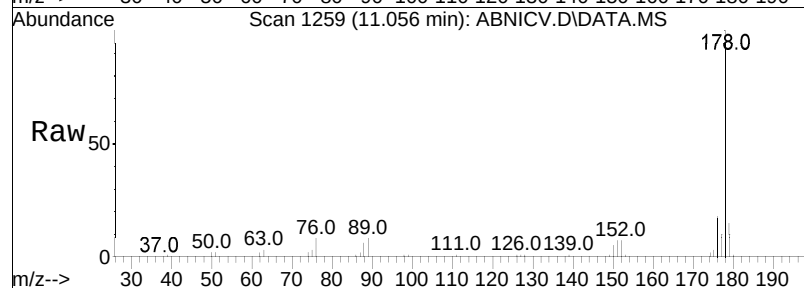
Tgt Ion	Ratio	Lower	Upper
178	100		
179	14.8	12.2	18.2
176	18.5	15.4	23.2

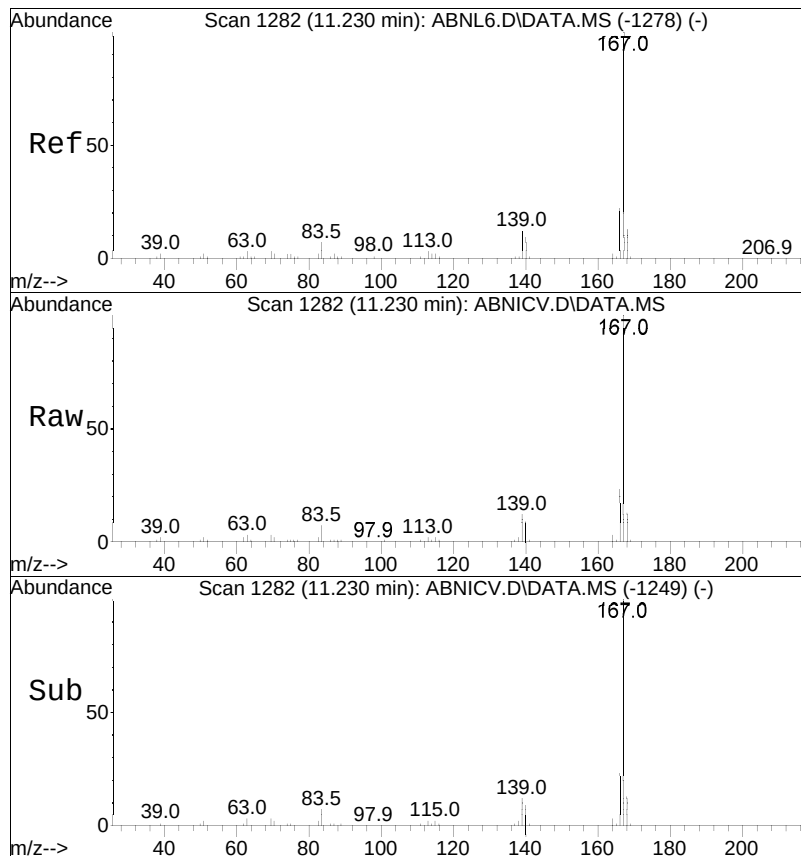




#90
 Anthracene
 Concen: 5.37 ug/ml
 RT: 11.056 min Scan# 1259
 Delta R.T. -0.008 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

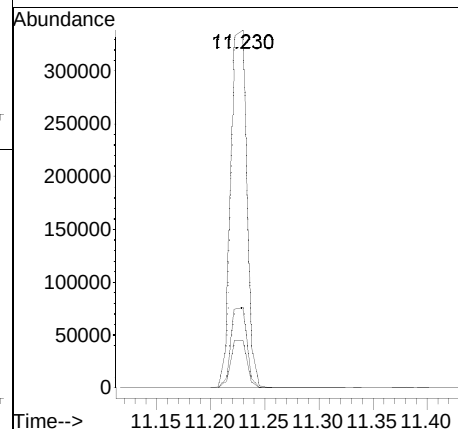
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.0	18.0
176	18.7	14.6	22.0

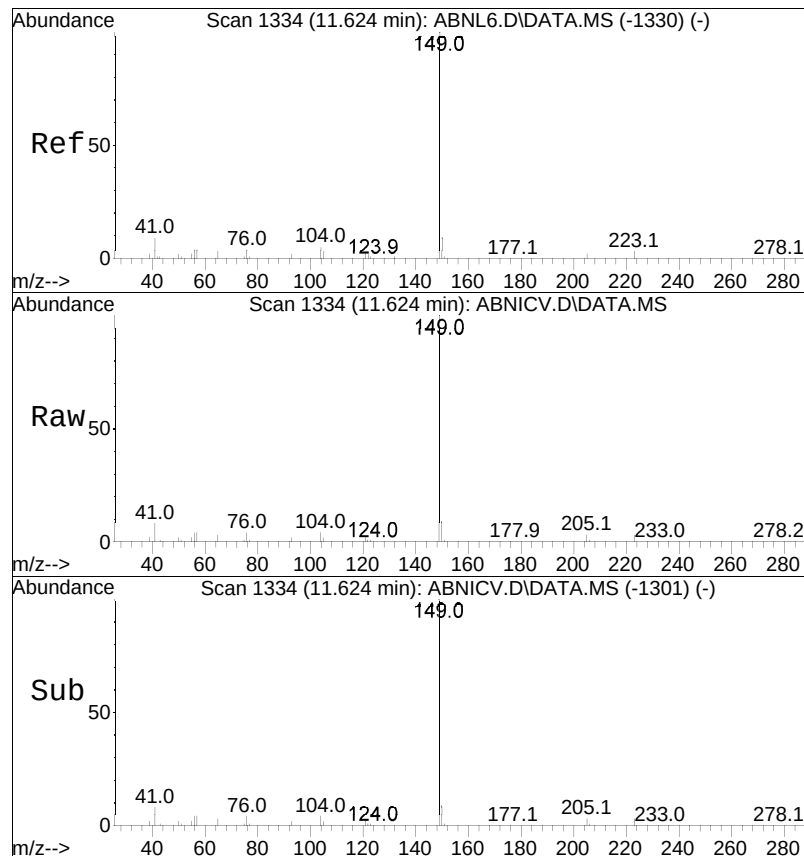




#91
 Carbazole
 Concen: 5.47 ug/ml
 RT: 11.230 min Scan# 1282
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

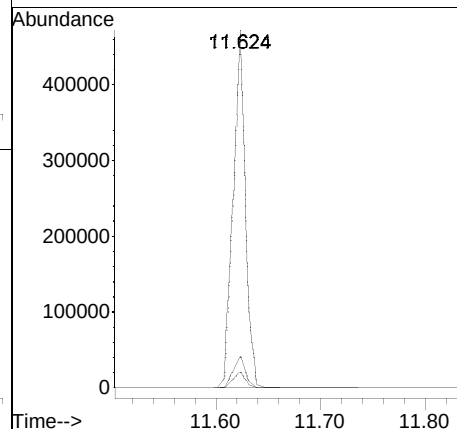
Tgt Ion	Ratio	Resp	Lower	Upper
167	100	345386		
168	13.5		10.6	15.8
166	22.4		17.4	26.0

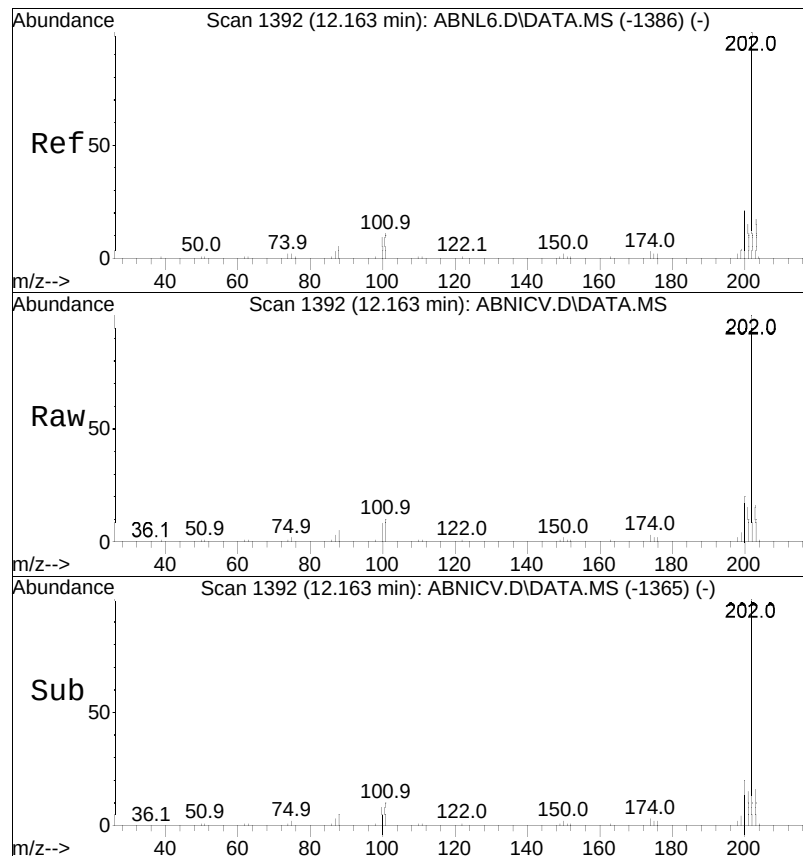




#92
 Di-n-butylphthalate
 Concen: 5.95 ug/ml
 RT: 11.624 min Scan# 1334
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

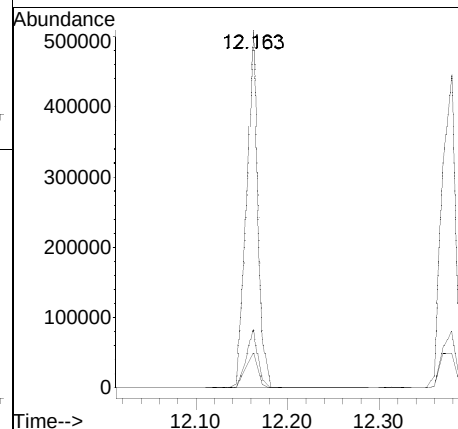
Tgt Ion	Ratio	Lower	Upper
149	100		
150	7.8	7.0	10.6
104	4.1	4.5	6.7#

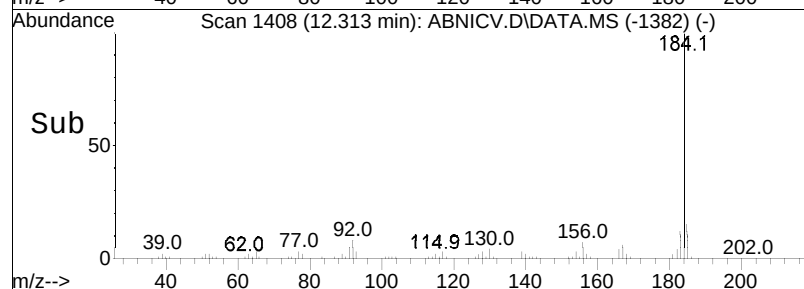
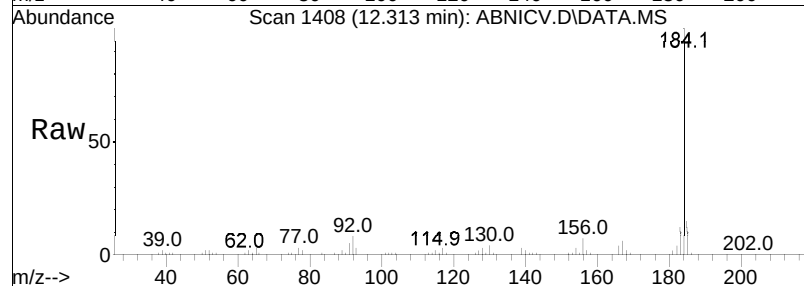
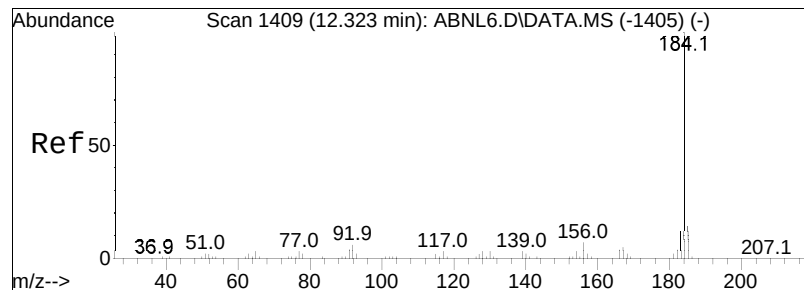




#93
 Fluoranthene
 Concen: 5.35 ug/ml
 RT: 12.163 min Scan# 1392
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	443321		
101	10.6		13.5	20.3#
203	16.9		13.6	20.4





#94

Benzidine

Concen: 5.86 ug/ml

RT: 12.313 min Scan# 1408

Delta R.T. -0.010 min

Lab File: ABNICV.D

Acq: 11 Mar 2025 10:18 pm

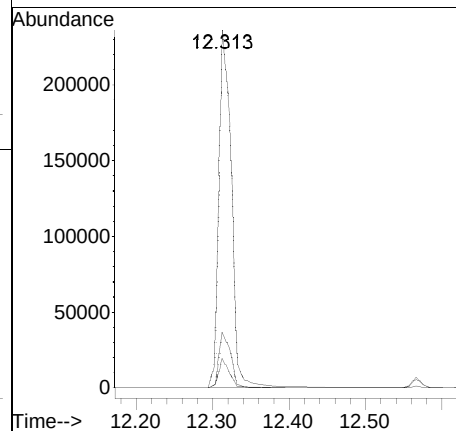
Tgt Ion:184 Resp: 263438

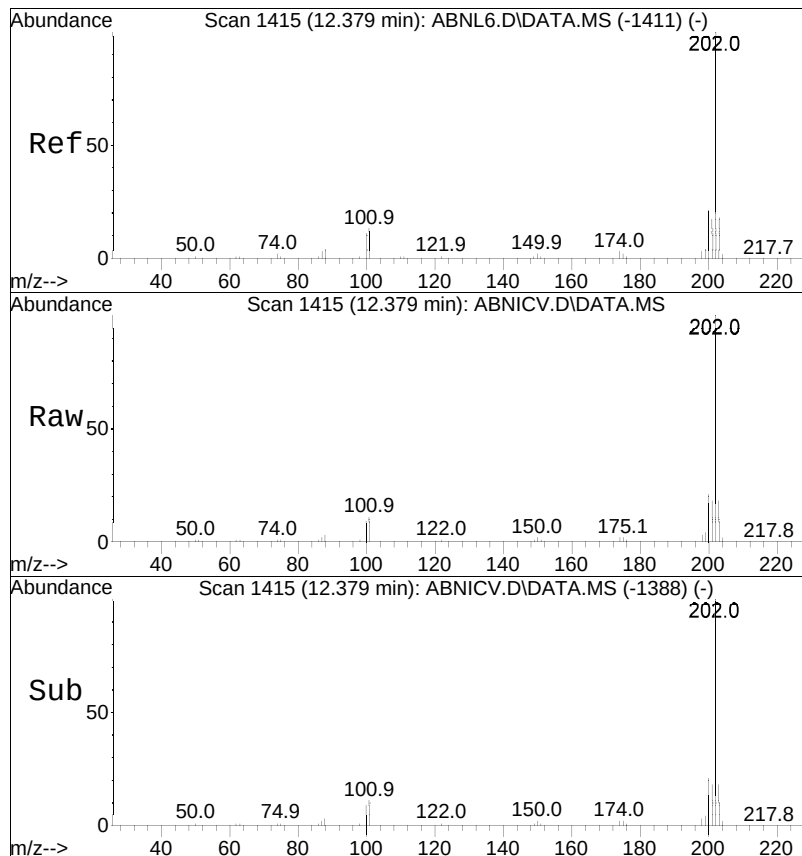
Ion Ratio Lower Upper

184 100

92 7.2 9.1 13.7#

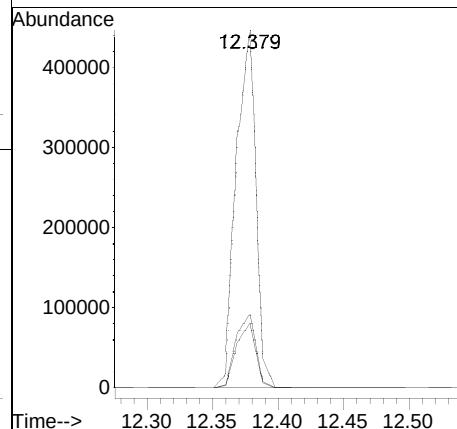
185 14.9 11.1 16.7

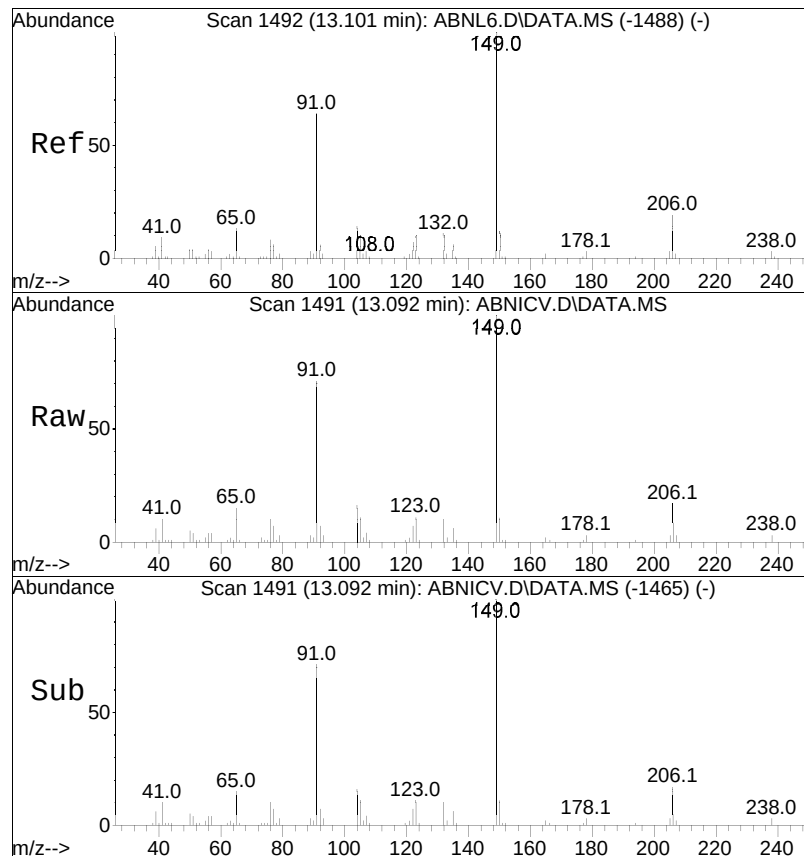




#95
 Pyrene
 Concen: 5.32 ug/ml
 RT: 12.379 min Scan# 1415
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

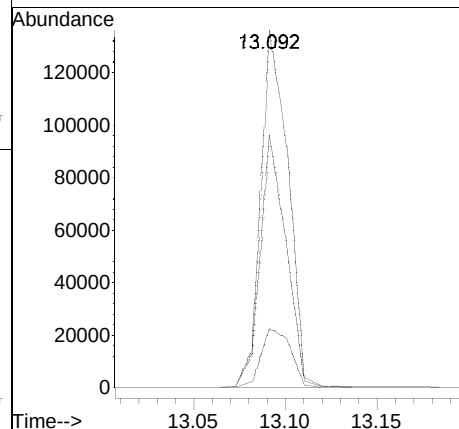
Tgt Ion:	202	Resp:	461974
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.7	25.1
203	17.8	14.2	21.4

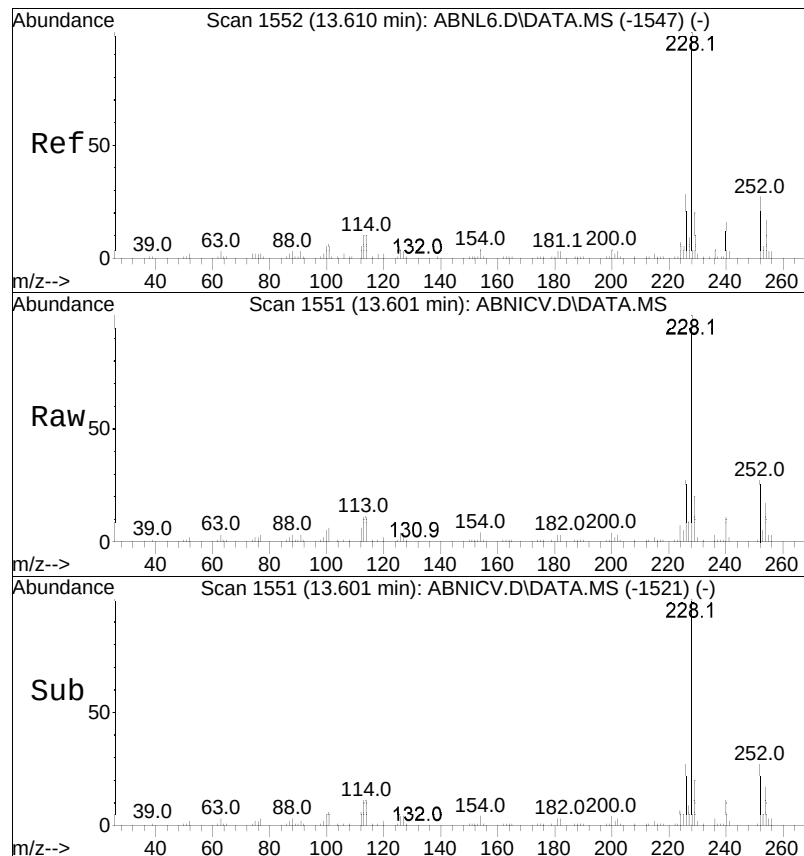




#97
 Butyl benzyl phthalate
 Concen: 4.30 ug/ml
 RT: 13.092 min Scan# 1491
 Delta R.T. -0.009 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

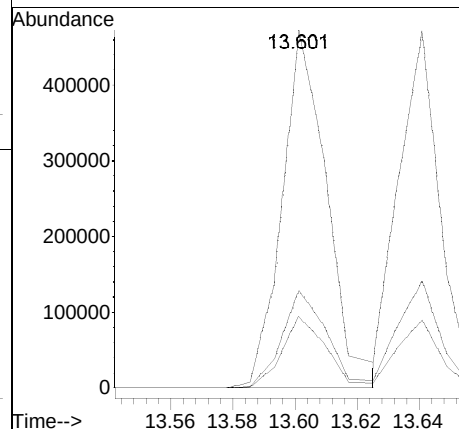
Tgt Ion:	149	Resp:	138193
Ion Ratio	Lower	Upper	
149	100		
91	67.4	63.3	94.9
206	18.1	13.9	20.9

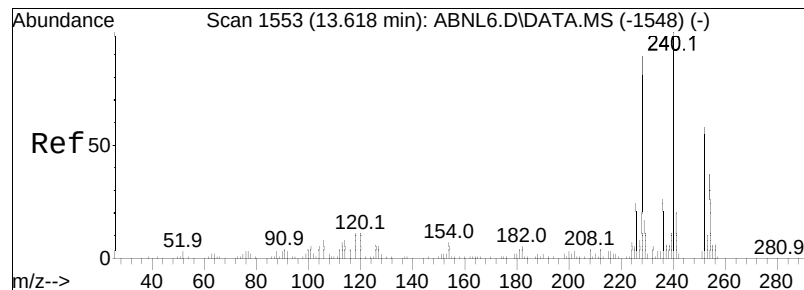




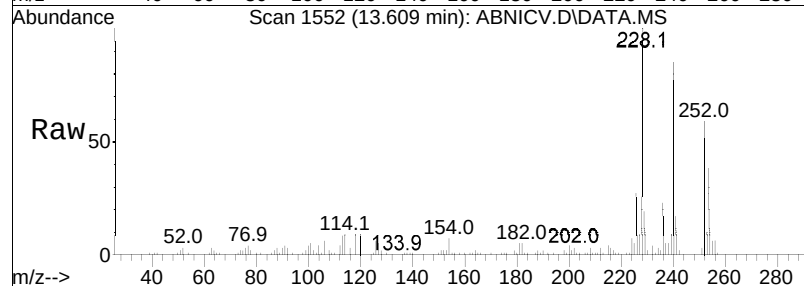
#105
 Benzo(a)anthracene
 Concen: 5.31 ug/ml
 RT: 13.601 min Scan# 1551
 Delta R.T. -0.009 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

Tgt	Ion	Ratio	Resp	Lower	Upper
228	100		475634		
226	27.5	22.2		33.4	
229	19.9	15.6		23.4	

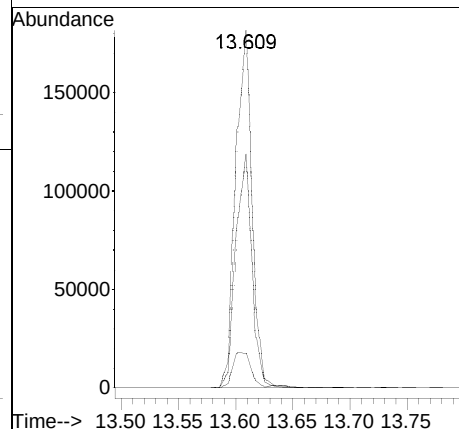
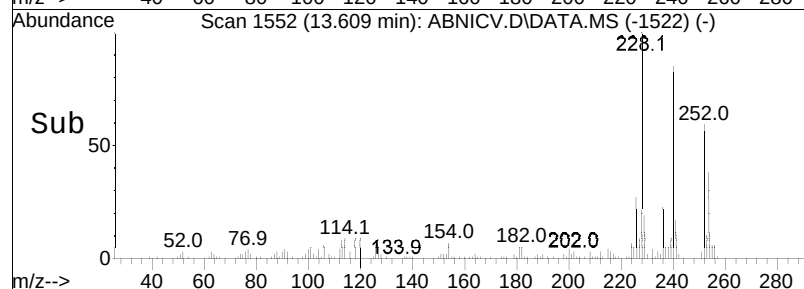


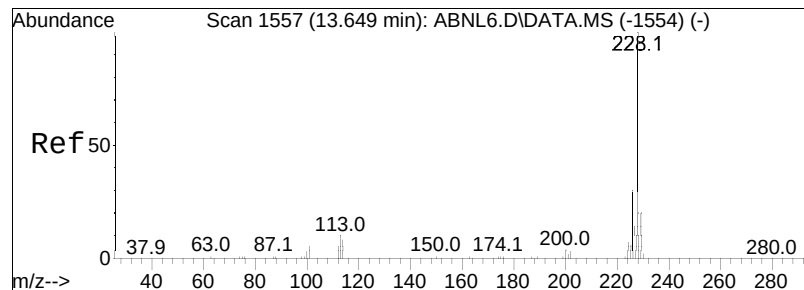


#106
 3,3'-Dichlorobenzidine
 Concen: 5.96 ug/ml
 RT: 13.609 min Scan# 1552
 Delta R.T. -0.009 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm



Tgt Ion:	252	Resp:	179178
Ion Ratio	Lower	Upper	
252	100		
126	12.4	14.5	21.7#
254	64.7	51.2	76.8





#107

Chrysene

Concen: 4.84 ug/ml

RT: 13.641 min Scan# 1556

Delta R.T. -0.008 min

Lab File: ABNICV.D

Acq: 11 Mar 2025 10:18 pm

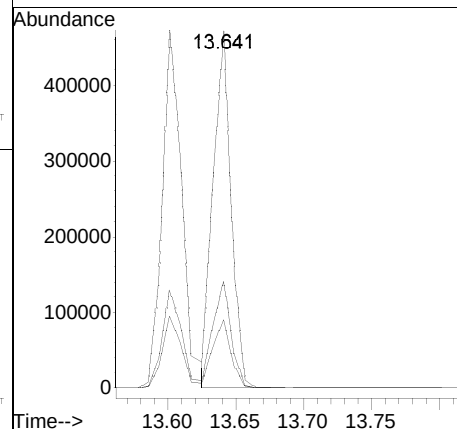
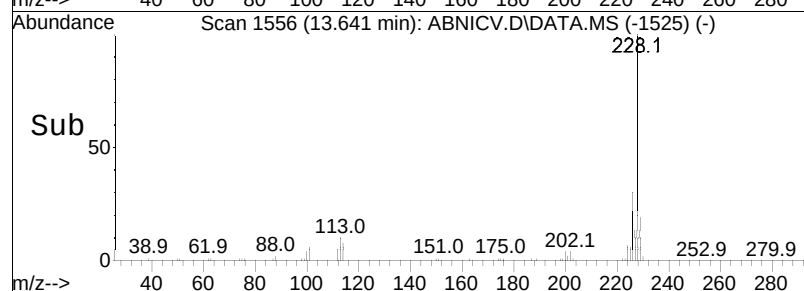
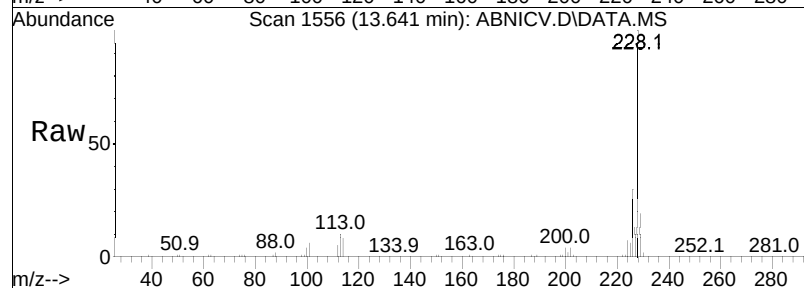
Tgt Ion: 228 Resp: 429359

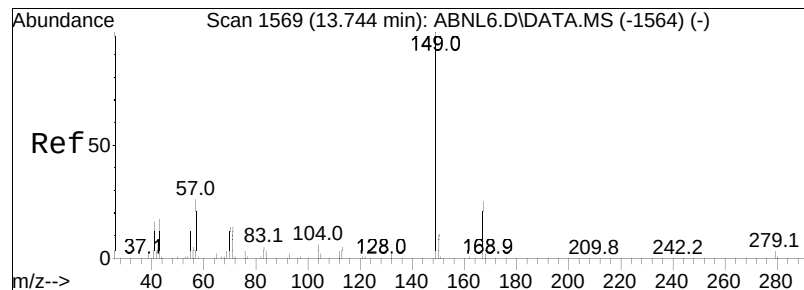
Ion Ratio Lower Upper

228 100

226 30.1 24.0 36.0

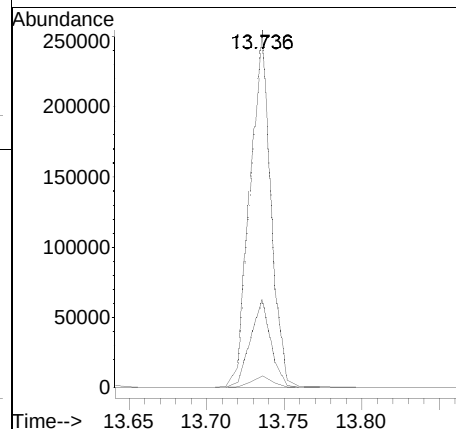
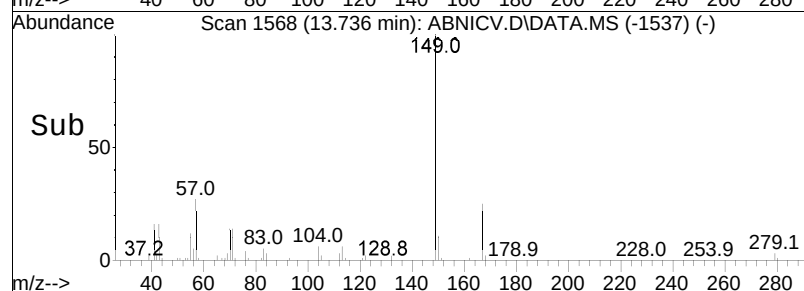
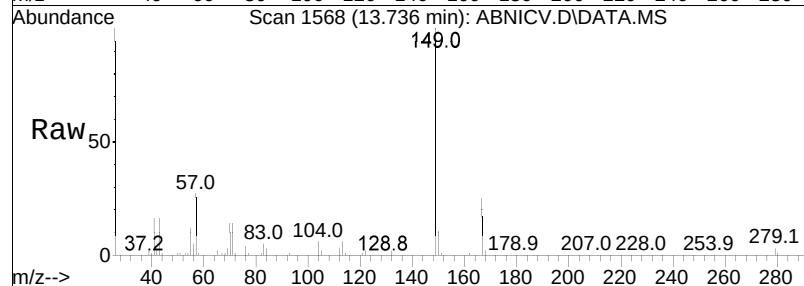
229 19.3 15.8 23.8

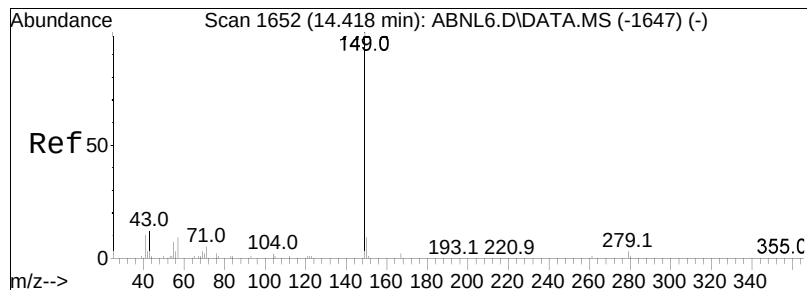




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 4.61 ug/ml
 RT: 13.736 min Scan# 1568
 Delta R.T. -0.008 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

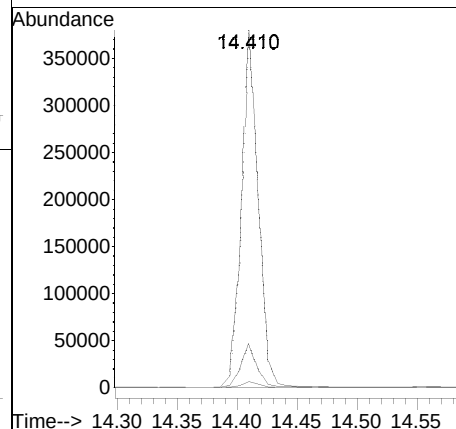
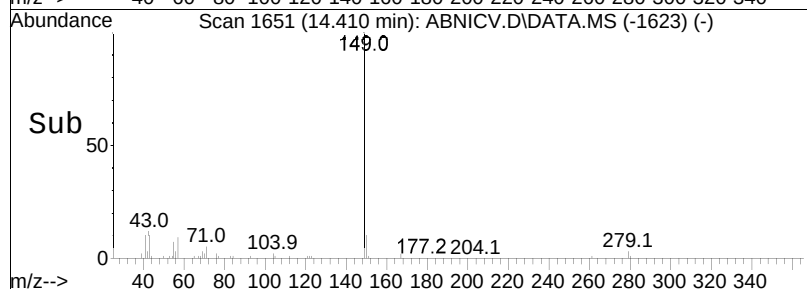
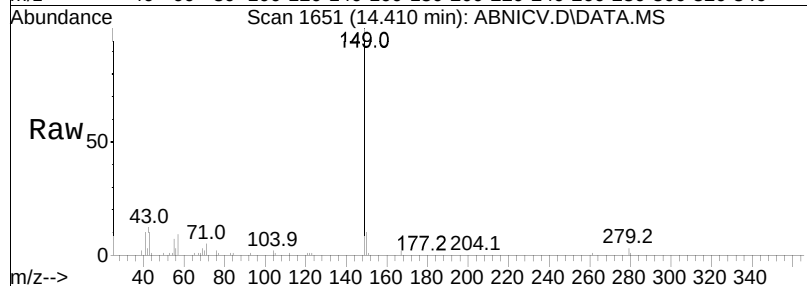
Tgt Ion:	149	Resp:	233680
Ion Ratio	Lower	Upper	
149	100		
167	24.6	22.1	33.1
279	3.0	3.0	4.4

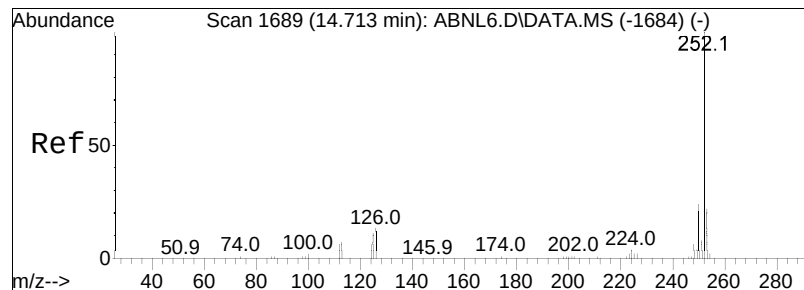




#109
 Di-n-octylphthalate
 Concen: 4.27 ug/ml
 RT: 14.410 min Scan# 1651
 Delta R.T. -0.008 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

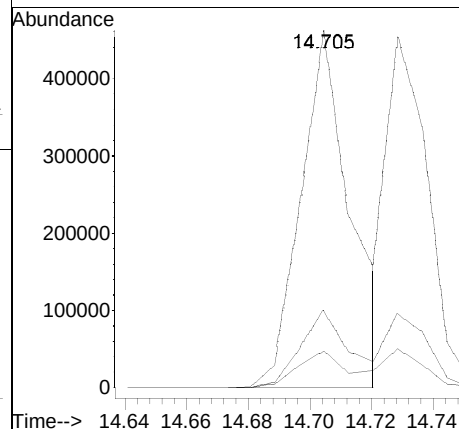
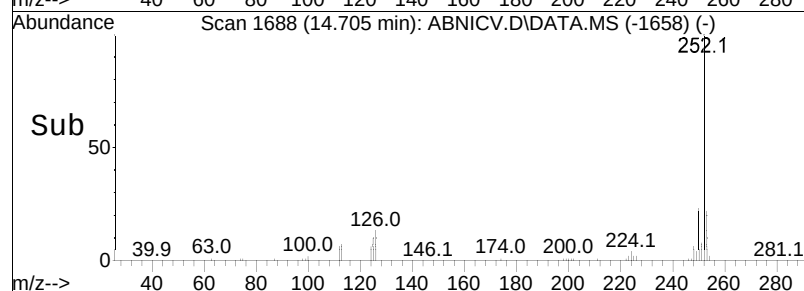
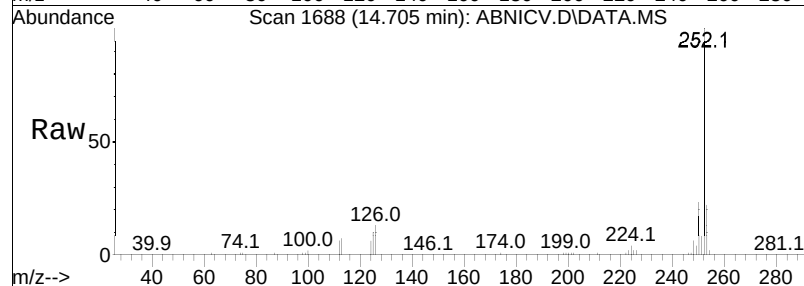
Tgt Ion	Ratio	Lower	Upper
149	100		
43	12.1	18.8	28.2#
167	1.5	1.3	1.9

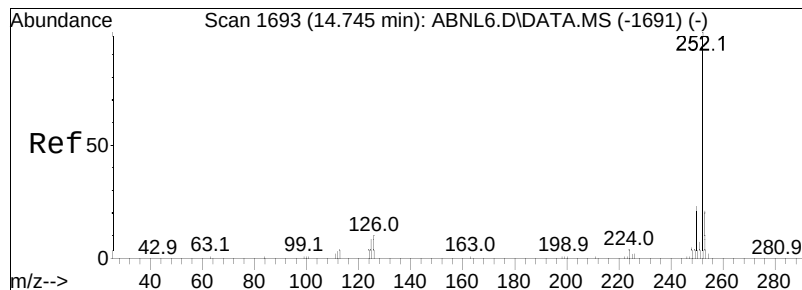




#110
 Benzo(b)fluoranthene
 Concen: 5.71 ug/ml
 RT: 14.705 min Scan# 1688
 Delta R.T. -0.008 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

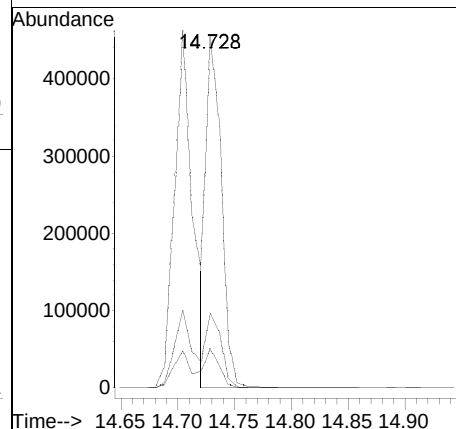
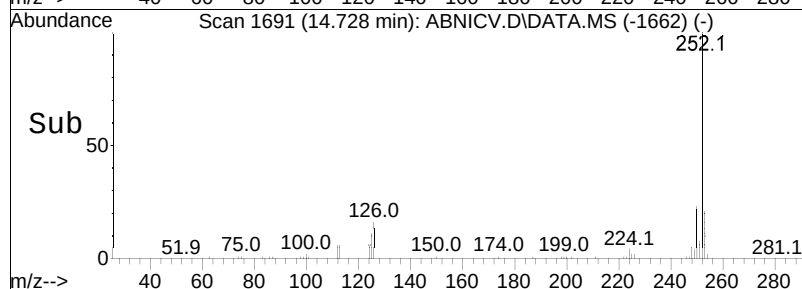
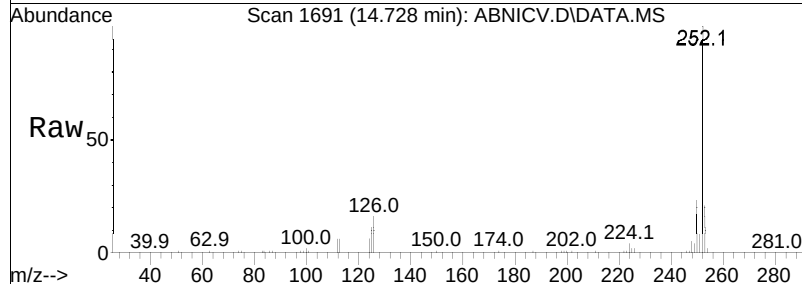
Tgt Ion:	252	Resp:	525748
Ion Ratio	Lower	Upper	
252	100		
125	9.1	13.3	19.9#
253	21.7	17.1	25.7

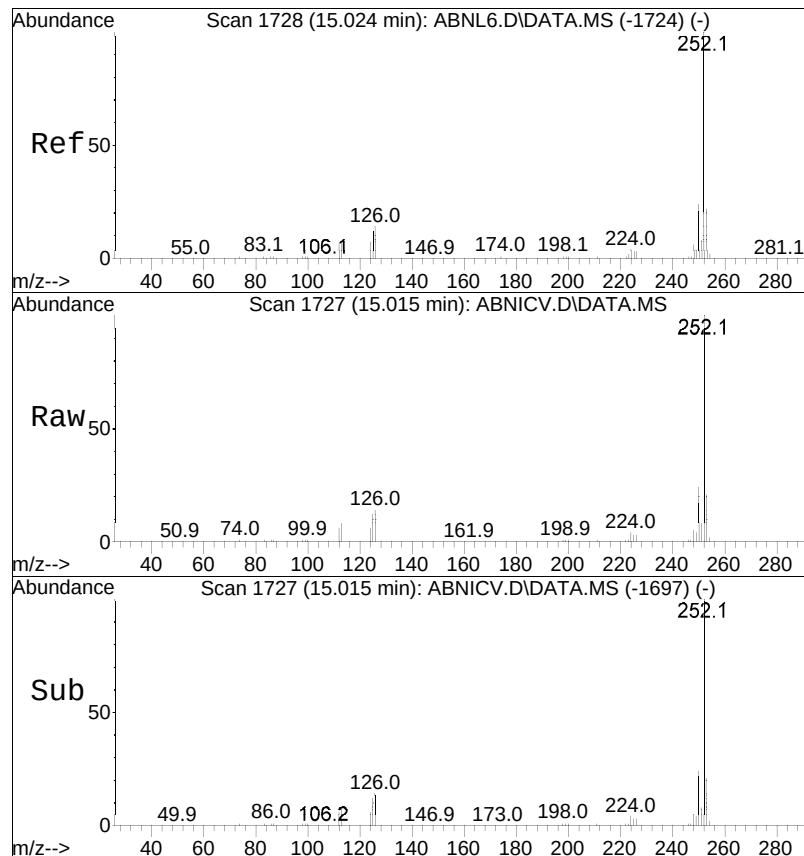




#111
 Benzo(k)fluoranthene
 Concen: 4.85 ug/ml
 RT: 14.728 min Scan# 1691
 Delta R.T. -0.017 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

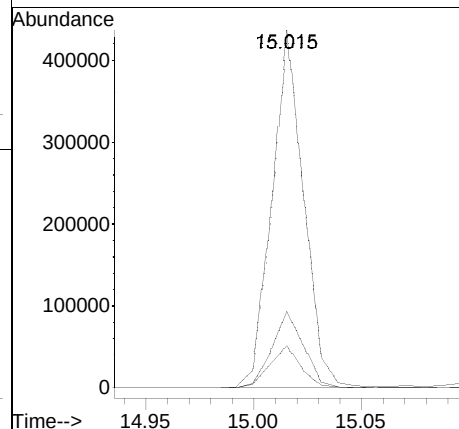
Tgt	Ion:252	Resp:	415673
Ion	Ratio	Lower	Upper
252	100		
125	9.9	13.0	19.6#
253	21.2	16.8	25.2

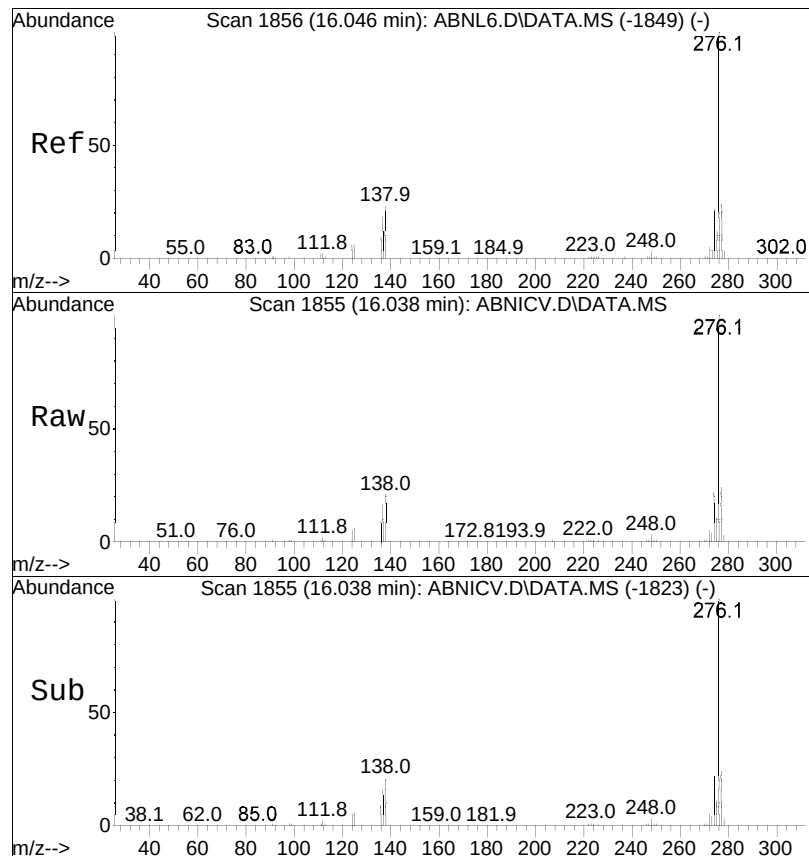




#112
 Benzo(a)pyrene
 Concen: 5.45 ug/ml
 RT: 15.015 min Scan# 1727
 Delta R.T. -0.009 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

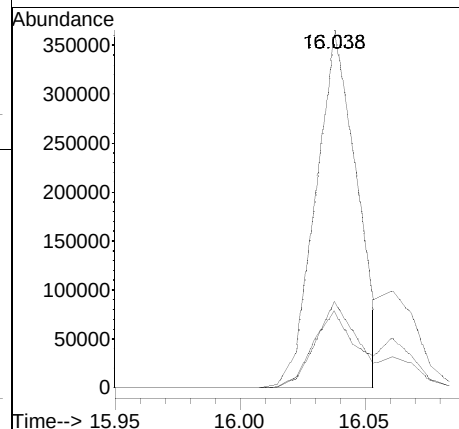
Tgt	Ion:252	Resp:	441421
Ion	Ratio	Lower	Upper
252	100		
125	11.9	14.2	21.2#
253	21.6	16.9	25.3

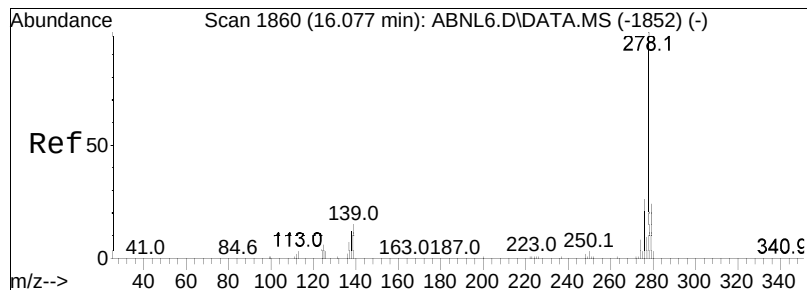




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 5.39 ug/mL M6
 RT: 16.038 min Scan# 1855
 Delta R.T. -0.008 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

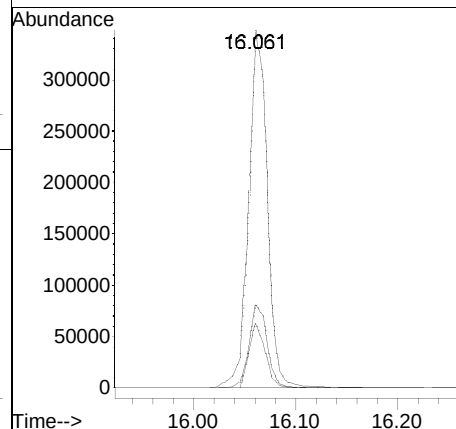
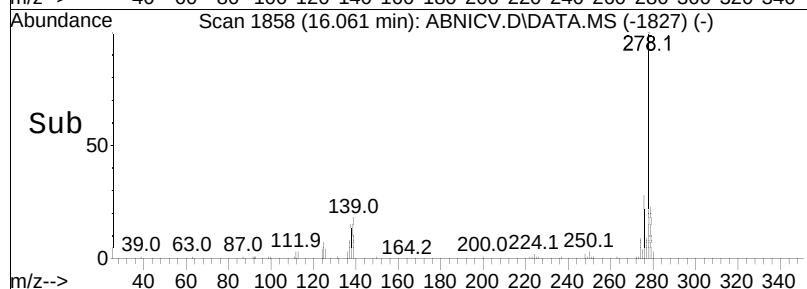
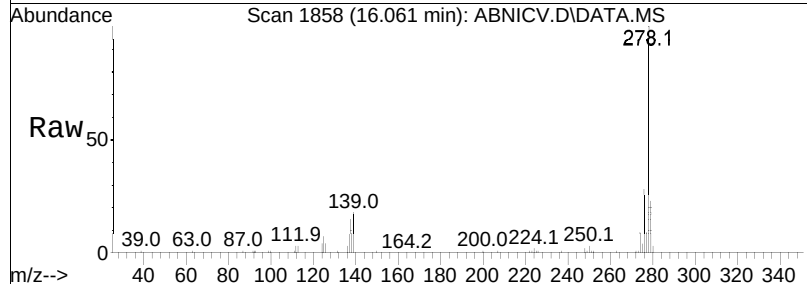
Tgt Ion	Ratio	Lower	Upper
276	100		
138	33.9	25.1	37.7
277	31.9	18.6	28.0

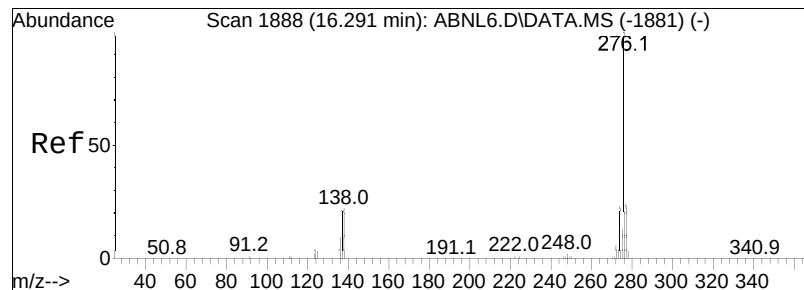




#115
Dibenzo(a,h)anthracene
Concen: 5.55 ug/ml
RT: 16.061 min Scan# 1858
Delta R.T. -0.016 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

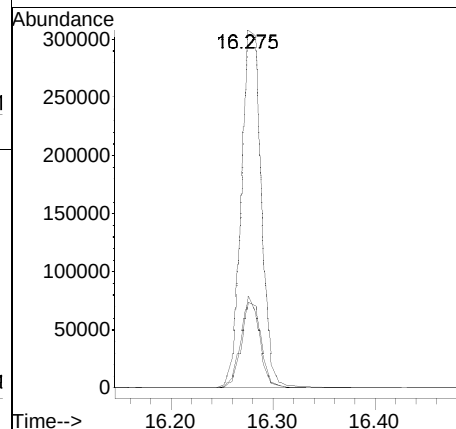
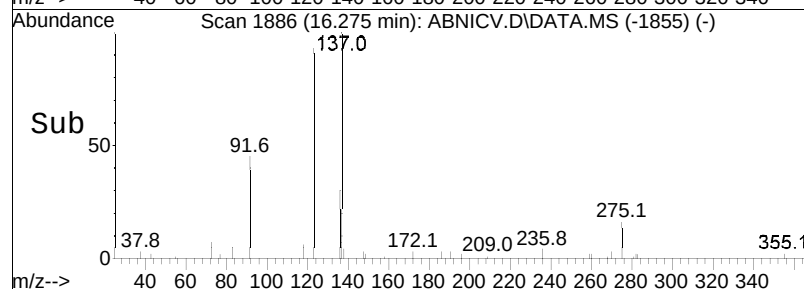
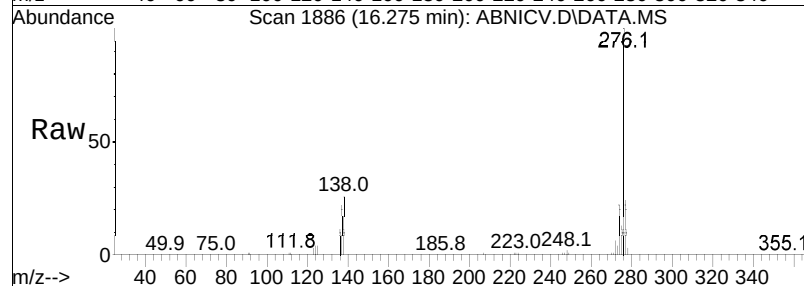
Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.1	20.8	31.2#
279	23.0	18.3	27.5





#116
 Benzo(ghi)perylene
 Concen: 5.39 ug/ml
 RT: 16.275 min Scan# 1886
 Delta R.T. -0.016 min
 Lab File: ABNICV.D
 Acq: 11 Mar 2025 10:18 pm

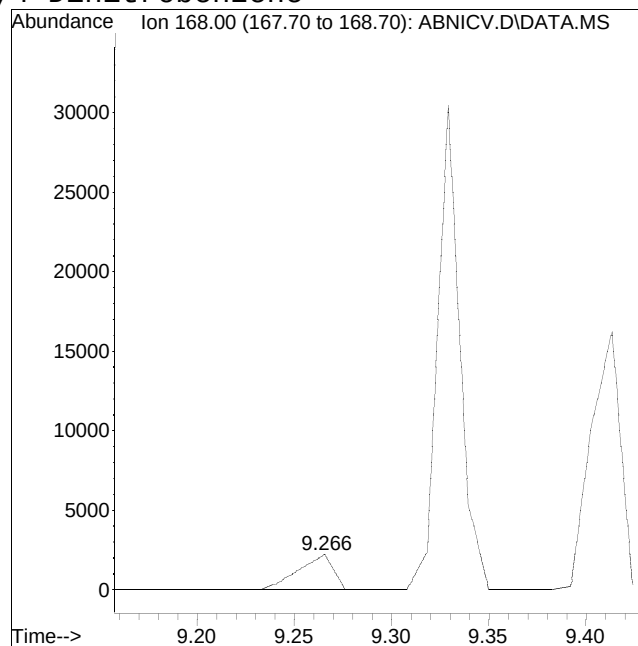
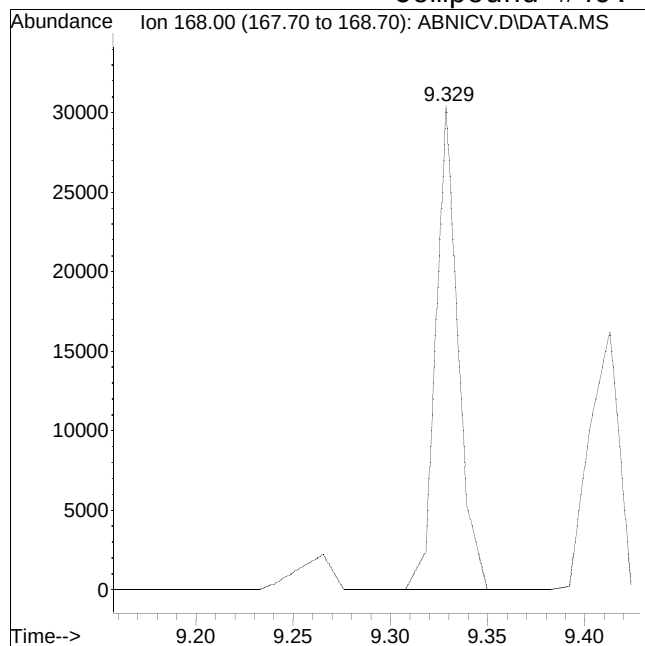
Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.2	29.2	43.8#
277	23.8	18.8	28.2



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNICV.D Operator : SV106:l jg
Date Inj'd : 3/11/2025 10:18 pm Instrument : SV 106
Sample : CQICV1,32,,ABNICV Lot# 114Quant Date : 3/12/2025 12:21 pm

Compound #49: 1,4-Dinitrobenzene



Original Peak Response = 24161

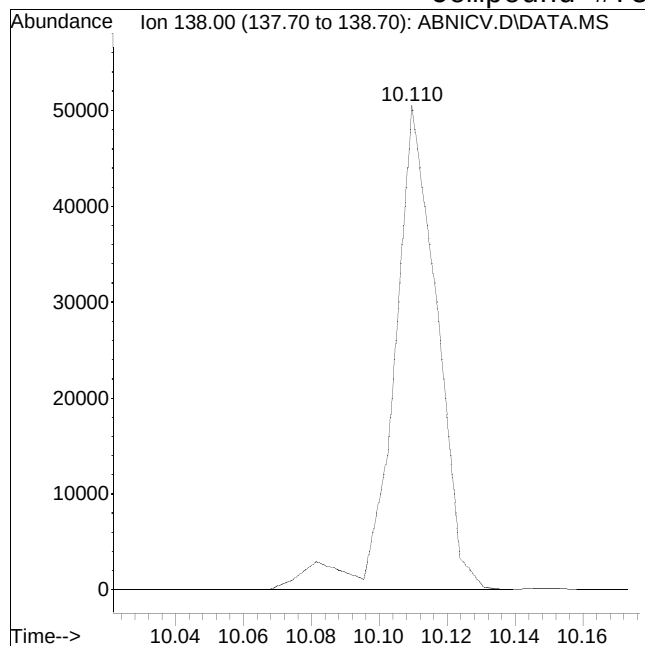
Manual Peak Response = 1972 M3

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

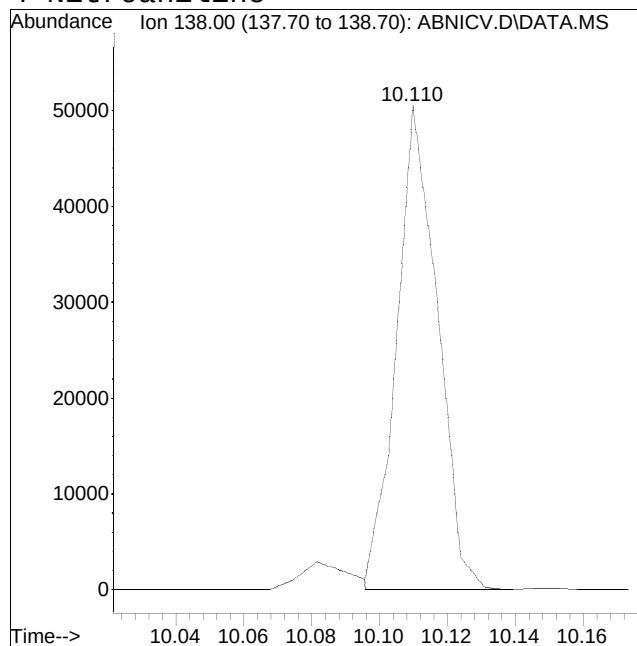
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNICV.D Operator : SV106:ljb
Date Inj'd : 3/11/2025 10:18 pm Instrument : SV 106
Sample : CQICV1,32,,ABNICV Lot# 114 Quant Date : 3/12/2025 12:21 pm

Compound #75: 4-Nitroaniline



Original Peak Response = 45007

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

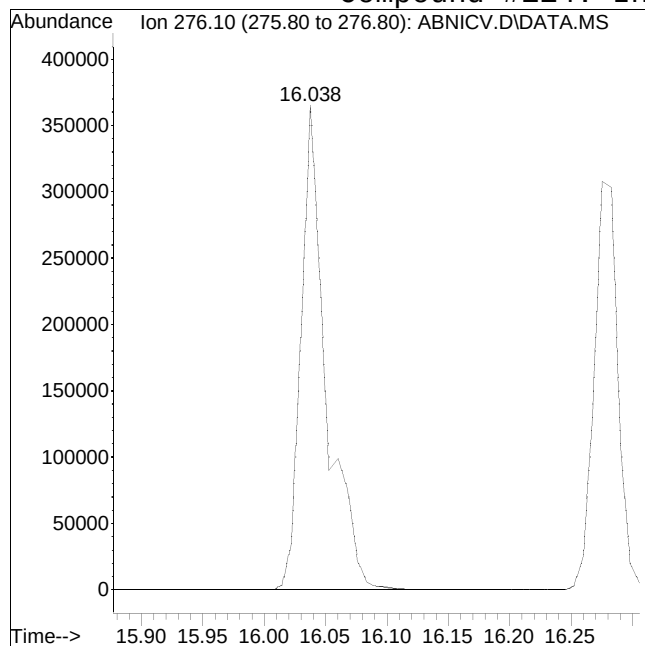


Manual Peak Response = 42007 M6

Manual Integration Report

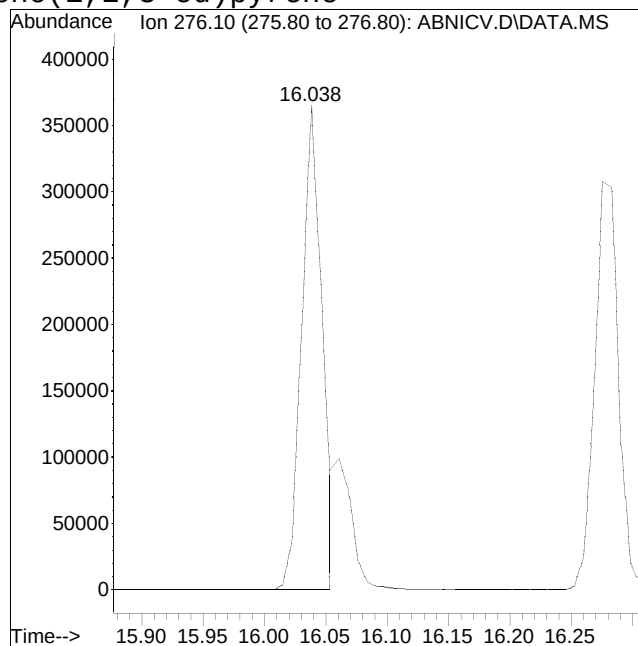
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNICV.D Operator : SV106:ljl
Date Inj'd : 3/11/2025 10:18 pm Instrument : SV 106
Sample : CQICV1,32,,ABNICV Lot# 114Quant Date : 3/12/2025 12:21 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 524337

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



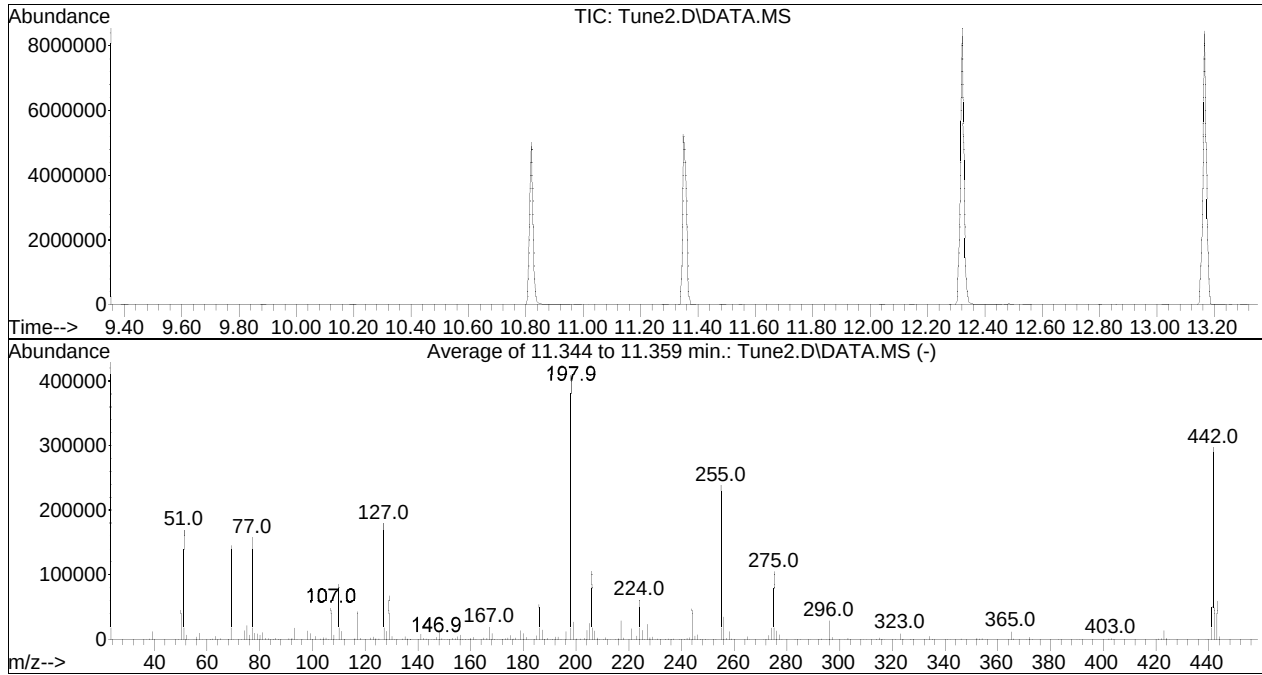
Manual Peak Response = 425828 M6

DFTPP

Data Path : I:\8270\SV106\250311RVTical\
 Data File : Tune2.D
 Acq On : 11 Mar 2025 11:05 pm
 Operator : SV106:ljg
 Sample : Tune2 Lot# 11459
 Misc : WG2039658,,ical
 ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Mar 12 12:21:00 2025



Spectrum Information: Average of 11.344 to 11.359 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.4	169072	PASS
68	69	0.00	2	0.7	1091	PASS
69	69	100	100	100.0	145803	PASS
70	69	0.00	2	0.5	719	PASS
127	198	10	80	43.7	178635	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	408317	PASS
199	198	5	9	6.6	27143	PASS
275	198	10	60	25.6	104515	PASS
365	198	1	100	3.0	12385	PASS
441	442	0.01	24	16.9	50261	PASS
442	198	50	100	72.8	297117	PASS
443	442	15	24	19.6	58130	PASS

Data Path : I:\8270\SV106\250311RVTical\

Data File : Tune2.D

Acq On : 11 Mar 2025 11:05 pm

Operator : SV106:ljj

Sample : Tune2 Lot# 11459

Misc : WG2039658,,ical

ALS Vial : 141 Sample Multiplier: 1

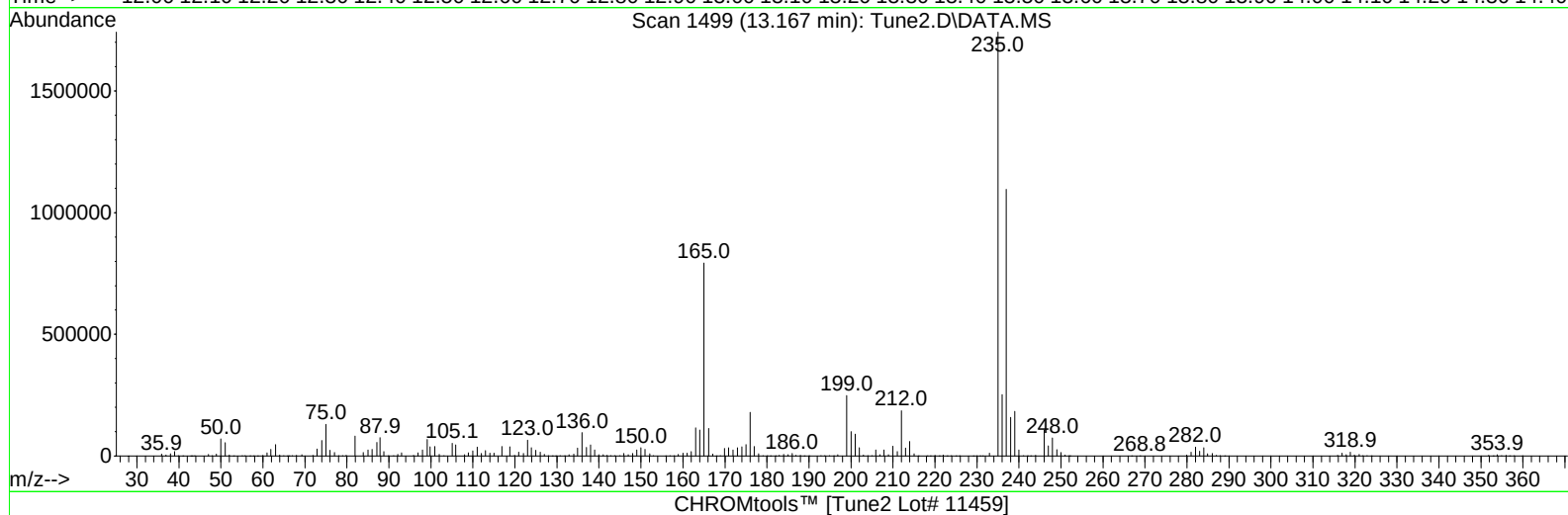
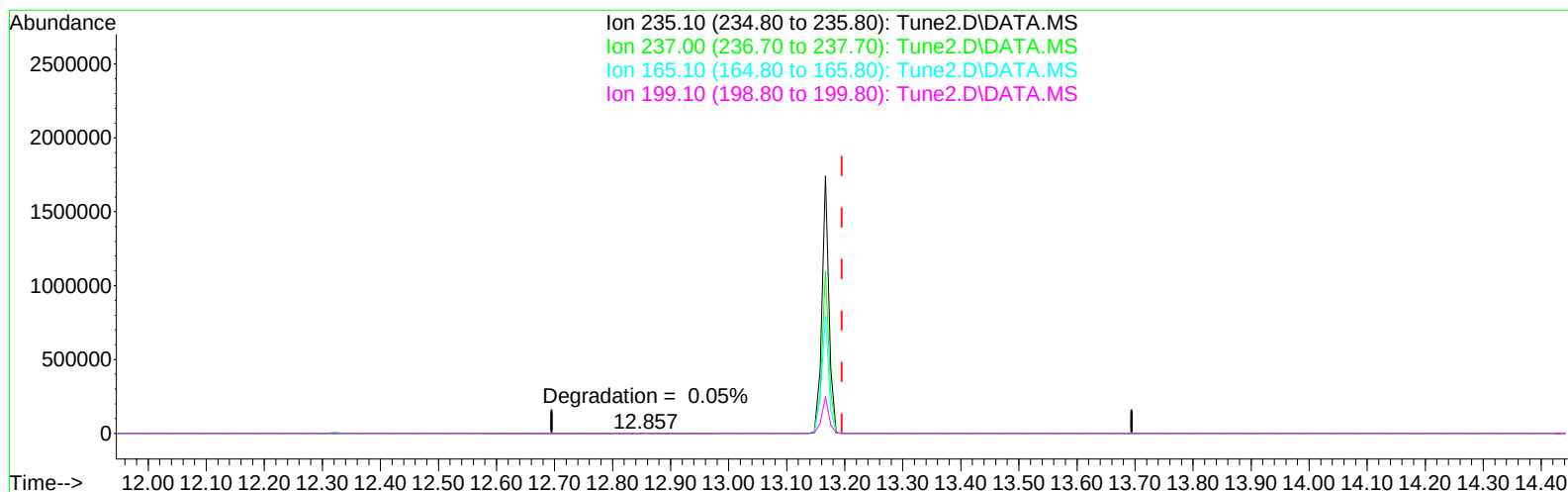
Quant Time: Mar 12 06:03:23 2025

Quant Method : I:\8270\SV106\250311RVTical\DftppSV106.m

Quant Title : Semivolatiles by GC/MS by modified 8270

QLast Update : Thu Mar 06 00:46:17 2025

Response via : Initial Calibration



(6) DDT (T)

13.167min (-0.028) 266.44

response 1624133

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	64.60
165.10	44.50	47.70
199.10	14.80	15.39

Data Path : I:\8270\SV106\250311RVTical\

Data File : Tune2.D

Acq On : 11 Mar 2025 11:05 pm

Operator : SV106:lbg

Sample : Tune2 Lot# 11459

Misc : WG2039658,,ical

ALS Vial : 141 Sample Multiplier: 1

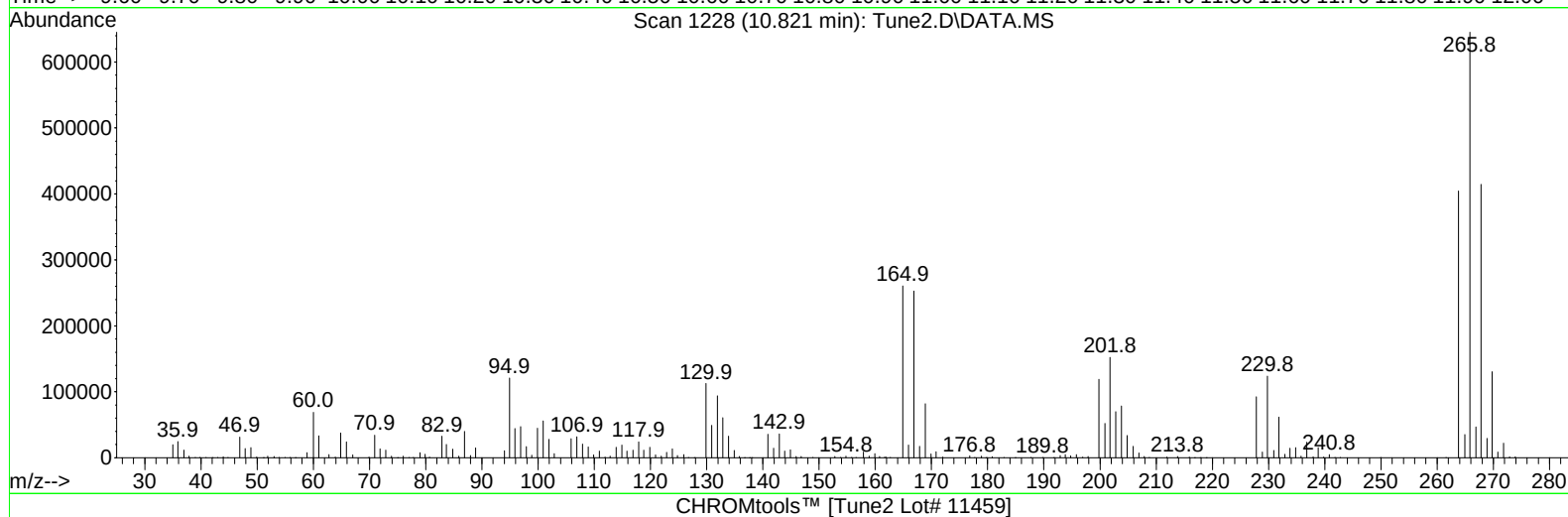
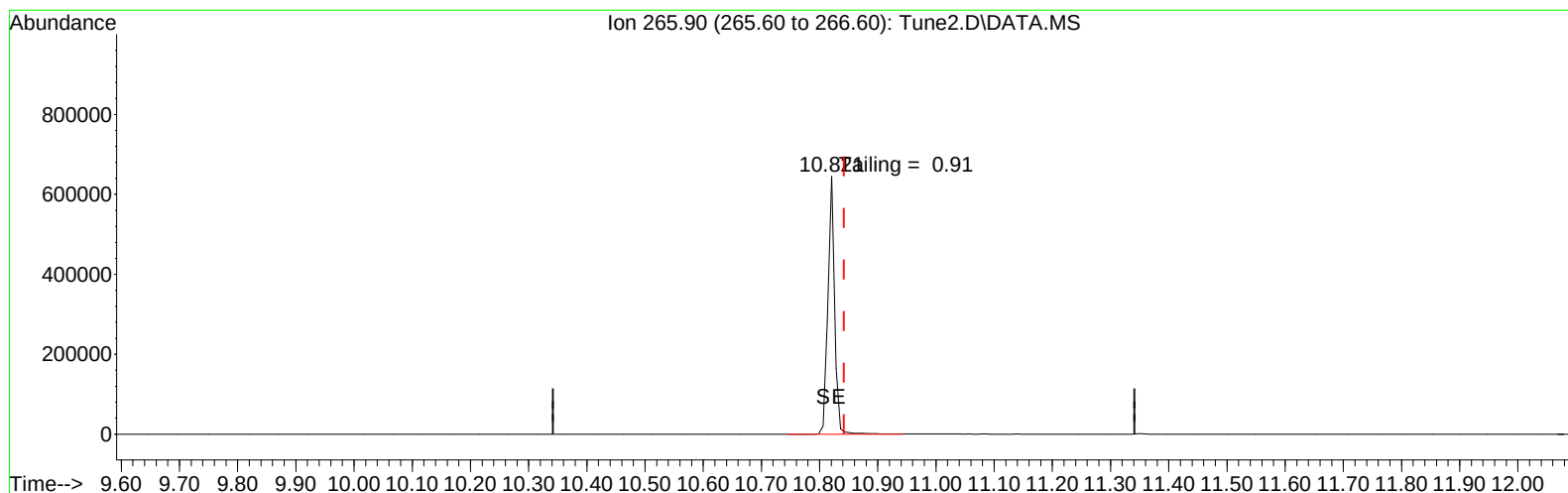
Quant Time: Mar 12 06:03:23 2025

Quant Method : I:\8270\SV106\250311RVTical\DftppSV106.m

Quant Title : Semivolatiles by GC/MS by modified 8270

QLast Update : Thu Mar 06 00:46:17 2025

Response via : Initial Calibration



(1) Pentachlorophenol (T)

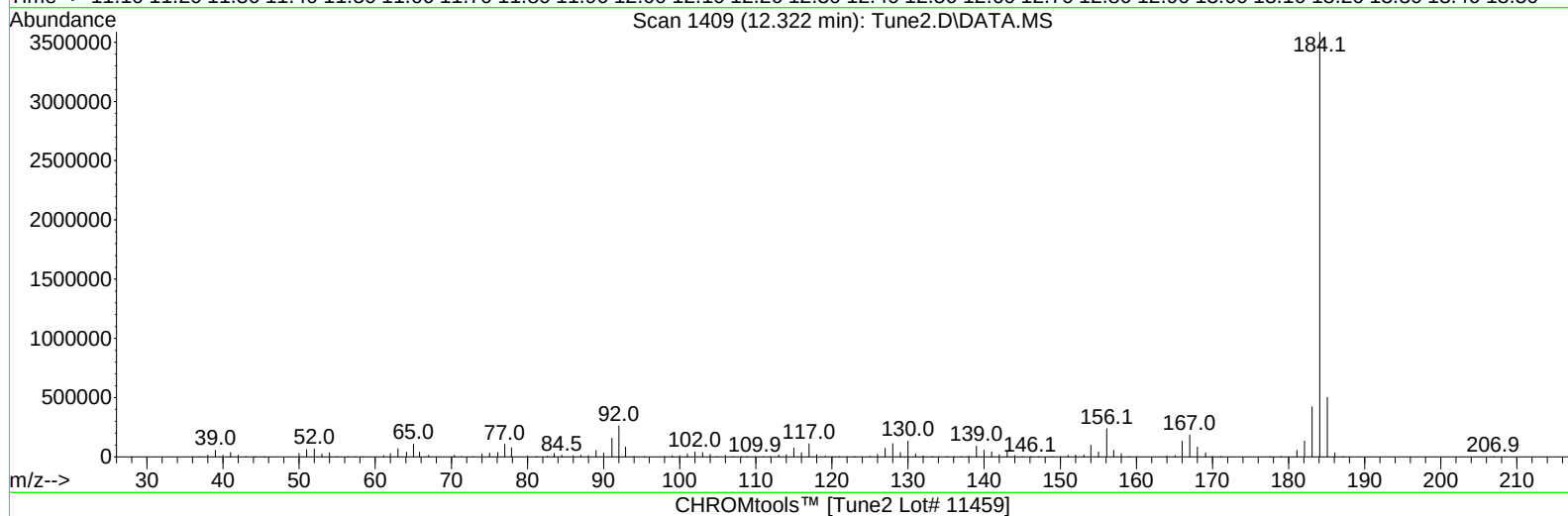
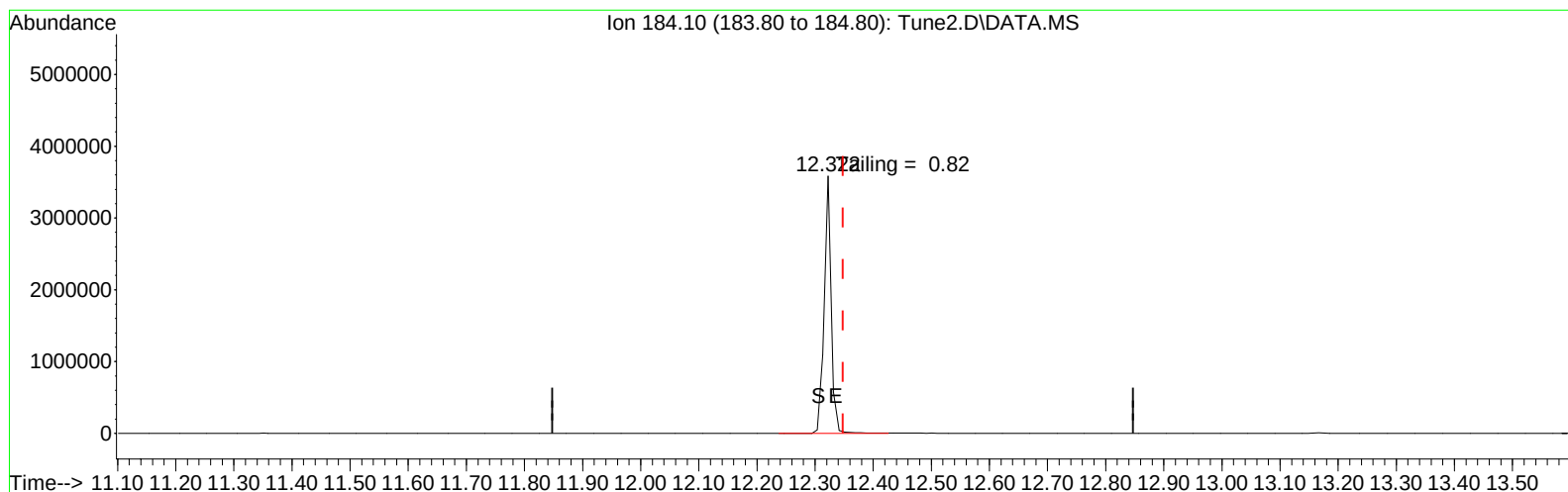
10.821min (-0.021) 249.67

response 524399

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

Data Path : I:\8270\SV106\250311RVTical\
Data File : Tune2.D
Acq On : 11 Mar 2025 11:05 pm
Operator : SV106:ljj
Sample : Tune2 Lot# 11459
Misc : WG2039658,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 12 06:03:23 2025
Quant Method : I:\8270\SV106\250311RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 00:46:17 2025
Response via : Initial Calibration



(3) Benzidine (T)

12.322min (-0.026) 299.48

response 3048761

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\250311RVTical\
 Data File : AP9L9.D
 Acq On : 11 Mar 2025 11:29 pm
 Operator : SV106:ljb
 Sample : IL2,32,,AP9L50 Lot# 11434
 Misc : WG2039658,,ical
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 12 11:30:27 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.351	152	56507	4.000	ug/ml	0.00
Standard Area 3 = 56555			Recovery =	99.92%		
55) IS2_Naphthalene-d8	7.783	136	207695	4.000	ug/ml	# 0.00
Standard Area 3 = 212446			Recovery =	97.76%		
83) IS2_Acenaphthene-d10	9.550	164	128104	4.000	ug/ml	0.00
Standard Area 3 = 130976			Recovery =	97.81%		
98) IS2_Phenanthrene-d10	10.988	188	264496	4.000	ug/ml	0.00
Standard Area 3 = 265623			Recovery =	99.58%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	5.765	105	692346	51.385	ug/ml	94
29) Acetophenone	6.852	105	1206217	51.886	ug/ml#	86
30) m-Toluidine	6.957	106	1177895	55.063	ug/ml	95
31) 2-Chloroaniline	7.363	127	1081318	51.693	ug/ml#	93
56) a-Terpineol	7.869	59	792895	55.569	ug/ml	90
57) 3-Chloroaniline	7.876	65	377672	52.155	ug/ml	90
58) 2,6-Dichlorophenol	7.905	162	765728	54.607	ug/ml	99
59) 1-chloro-2-nitrobenzene	8.171	111	327148	58.347	ug/ml#	1
60) Caprolactam	8.229	55	477174	55.833	ug/ml#	85
61) 1,2,4,5-Tetrachloroben...	8.701	216	1008535	48.377	ug/ml	97
62) Biphenyl	9.001	154	2201044	47.879	ug/ml	99
84) Dichloran	10.692	206	266944	49.857	ug/ml#	67
85) Pentachloronitrobenzene	10.836	237	288429	62.594	ug/ml#	79
99) Diphenamid	11.900	167	1638112	60.017	ug/ml#	79

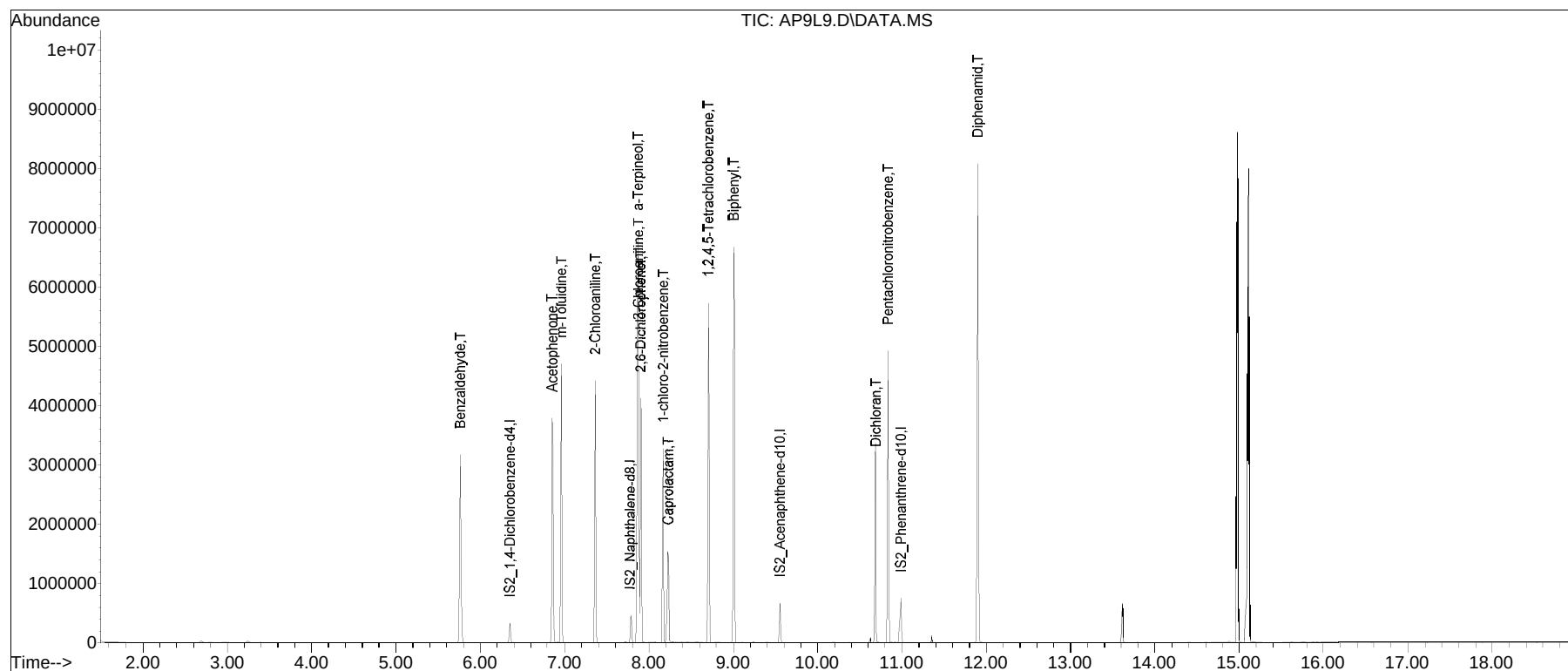
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L9.D
 Acq On : 11 Mar 2025 11:29 pm
 Operator : SV106:ljj
 Sample : IL2,32,,AP9L50 Lot# 11434
 Misc : WG2039658,,ical
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 12 11:30:27 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L9.D Operator : SV106:ljpg
Date Inj'd : 3/11/2025 11:29 pm Instrument : SV 106
Sample : IL2,32,,AP9L50 Lot# 11434 Quant Date : 3/12/2025 11:31 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L8.D
 Acq On : 11 Mar 2025 11:52 pm
 Operator : SV106:ljb
 Sample : IL3,32,,AP9L25 Lot# 11435
 Misc : WG2039658,,ical
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 12 11:30:17 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.351	152	55563	4.000	ug/ml	0.00
Standard Area 3 = 56555			Recovery =	98.25%		
55) IS2_Naphthalene-d8	7.783	136	210049	4.000	ug/ml	# 0.00
Standard Area 3 = 212446			Recovery =	98.87%		
83) IS2_Acenaphthene-d10	9.550	164	131615	4.000	ug/ml	0.00
Standard Area 3 = 130976			Recovery =	100.49%		
98) IS2_Phenanthrene-d10	10.988	188	268349	4.000	ug/ml	0.00
Standard Area 3 = 265623			Recovery =	101.03%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	5.765	105	378349	28.558	ug/ml	96
29) Acetophenone	6.852	105	656452	28.717	ug/ml#	87
30) m-Toluidine	6.957	106	644657	30.648	ug/ml	95
31) 2-Chloroaniline	7.363	127	605573	29.442	ug/ml#	93
56) a-Terpineol	7.862	59	426099	29.528	ug/ml	89
57) 3-Chloroaniline	7.876	65	209786	28.646	ug/ml	91
58) 2,6-Dichlorophenol	7.898	162	418336	29.499	ug/ml	99
59) 1-chloro-2-nitrobenzene	8.171	111	175202	30.897	ug/ml#	1
60) Caprolactam	8.222	55	263008	30.429	ug/ml#	85
61) 1,2,4,5-Tetrachloroben...	8.701	216	559974	26.560	ug/ml	97
62) Biphenyl	9.001	154	1233086	26.523	ug/ml	99
84) Dichloran	10.685	206	136072	25.684	ug/ml#	68
85) Pentachloronitrobenzene	10.836	237	151819	32.068	ug/ml#	79
99) Diphenamid	11.900	167	902672	32.597	ug/ml#	79

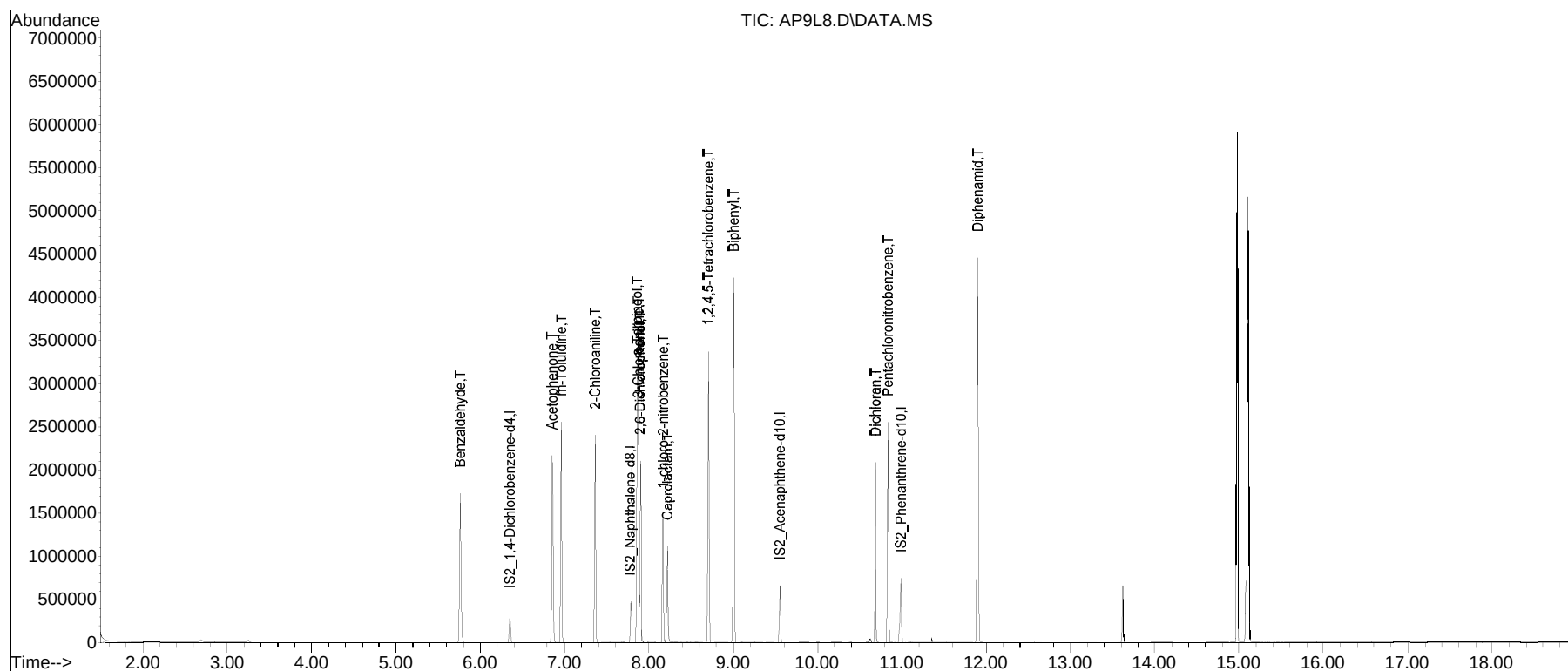
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L8.D
 Acq On : 11 Mar 2025 11:52 pm
 Operator : SV106:ljj
 Sample : IL3,32,,AP9L25 Lot# 11435
 Misc : WG2039658,,ical
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 12 11:30:17 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L8.D Operator : SV106:ljpg
Date Inj'd : 3/11/2025 11:52 pm Instrument : SV 106
Sample : IL3,32,,AP9L25 Lot# 11435 Quant Date : 3/12/2025 11:31 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L7.D
 Acq On : 12 Mar 2025 12:15 am
 Operator : SV106:ljb
 Sample : IL4,32,,AP9L10 Lot# 11436
 Misc : WG2039658,,ical
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 12 11:30:08 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.351	152	55037	4.000	ug/ml	0.00
Standard Area 3 = 56555			Recovery =	97.32%		
55) IS2_Naphthalene-d8	7.782	136	200736	4.000	ug/ml	# 0.00
Standard Area 3 = 212446			Recovery =	94.49%		
83) IS2_Acenaphthene-d10	9.550	164	125270	4.000	ug/ml	0.00
Standard Area 3 = 130976			Recovery =	95.64%		
98) IS2_Phenanthrene-d10	10.988	188	258864	4.000	ug/ml	0.00
Standard Area 3 = 265623			Recovery =	97.46%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	5.764	105	127937	9.749	ug/ml	97
29) Acetophenone	6.852	105	221932	9.802	ug/ml#	87
30) m-Toluidine	6.957	106	214835	10.311	ug/ml	95
31) 2-Chloroaniline	7.363	127	205777	10.100	ug/ml#	93
56) a-Terpineol	7.862	59	138352	10.032	ug/ml	87
57) 3-Chloroaniline	7.869	65	70617	10.090	ug/ml	94
58) 2,6-Dichlorophenol	7.898	162	137362	10.135	ug/ml	97
59) 1-chloro-2-nitrobenzene	8.164	111	56147	10.361	ug/ml#	1
60) Caprolactam	8.207	55	83234	10.077	ug/ml#	85
61) 1,2,4,5-Tetrachloroben...	8.701	216	191058	9.482	ug/ml	97
62) Biphenyl	9.000	154	416182	9.367	ug/ml	98
84) Dichloran	10.685	206	37998	8.864	ug/ml#	71
85) Pentachloronitrobenzene	10.836	237	45991	10.207	ug/ml#	80
99) Diphenamid	11.900	167	286356	10.720	ug/ml#	78

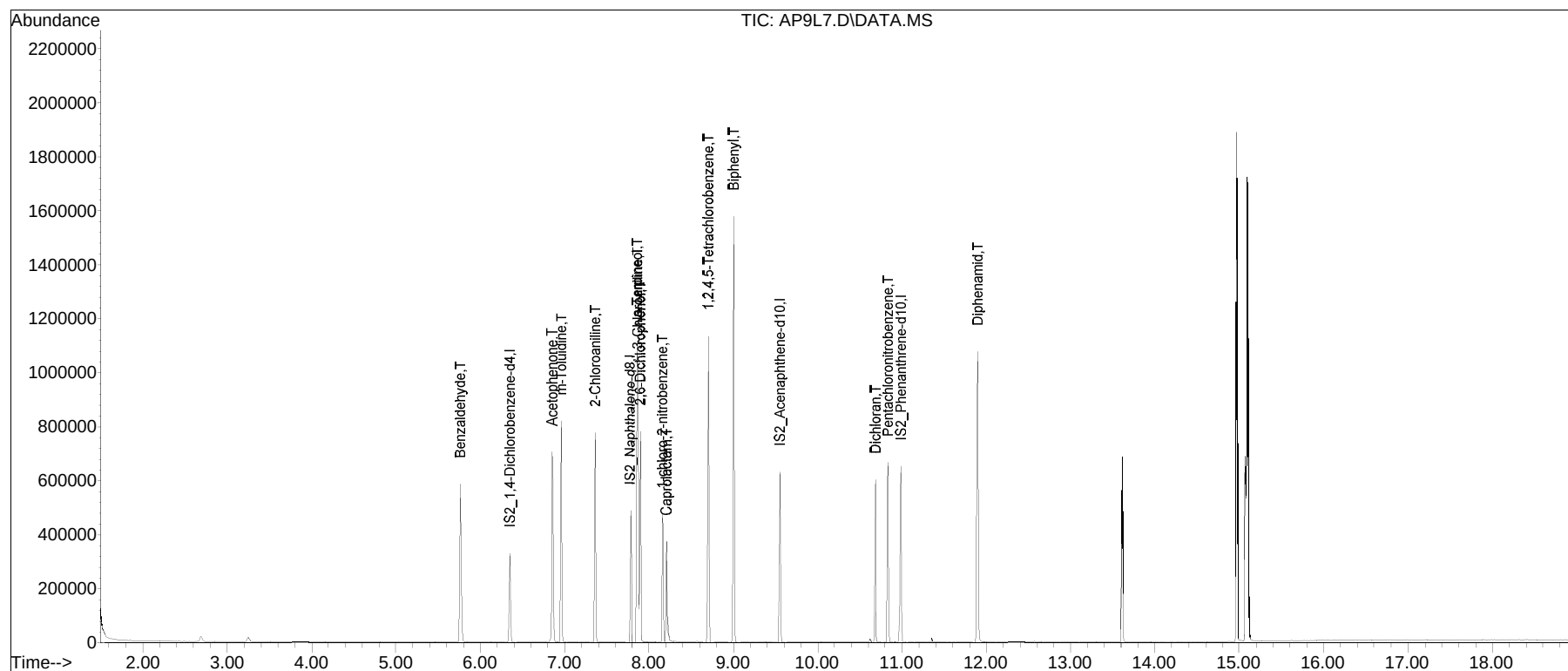
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L7.D
 Acq On : 12 Mar 2025 12:15 am
 Operator : SV106:ljj
 Sample : IL4,32,,AP9L10 Lot# 11436
 Misc : WG2039658,,ical
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 12 11:30:08 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L7.D Operator : SV106:ljpg
Date Inj'd : 3/12/2025 12:15 am Instrument : SV 106
Sample : IL4,32,,AP9L10 Lot# 11436 Quant Date : 3/12/2025 11:31 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L6.D
 Acq On : 12 Mar 2025 12:39 am
 Operator : SV106:ljb
 Sample : IL5,32,,AP9L5 Lot# 11437
 Misc : WG2039658,,ical
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 12 11:29:58 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.351	152	56555	4.000	ug/ml	0.00
Standard Area 3 = 56555			Recovery =	100.00%		
55) IS2_Naphthalene-d8	7.782	136	212446	4.000	ug/ml	# 0.00
Standard Area 3 = 212446			Recovery =	100.00%		
83) IS2_Acenaphthene-d10	9.550	164	130976	4.000	ug/ml	0.00
Standard Area 3 = 130976			Recovery =	100.00%		
98) IS2_Phenanthrene-d10	10.988	188	265623	4.000	ug/ml	0.00
Standard Area 3 = 265623			Recovery =	100.00%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	5.764	105	66637	4.942	ug/ml	97
29) Acetophenone	6.860	105	117703	5.059	ug/ml#	85
30) m-Toluidine	6.957	106	110078	5.141	ug/ml	94
31) 2-Chloroaniline	7.363	127	103893	4.962	ug/ml#	94
56) a-Terpineol	7.862	59	72135	4.942	ug/ml	87
57) 3-Chloroaniline	7.876	65	37253	5.029	ug/ml	90
58) 2,6-Dichlorophenol	7.898	162	70130	4.889	ug/ml	97
59) 1-chloro-2-nitrobenzene	8.164	111	27639	4.819	ug/ml#	1
60) Caprolactam	8.207	55	39331	4.499	ug/ml#	85
61) 1,2,4,5-Tetrachloroben...	8.701	216	101229	4.747	ug/ml	97
62) Biphenyl	9.000	154	224028	4.764	ug/ml	97
84) Dichloran	10.685	206	17591	4.973	ug/ml#	68
85) Pentachloronitrobenzene	10.836	237	21652	4.596	ug/ml#	79
99) Diphenamid	11.900	167	141548	5.164	ug/ml#	78

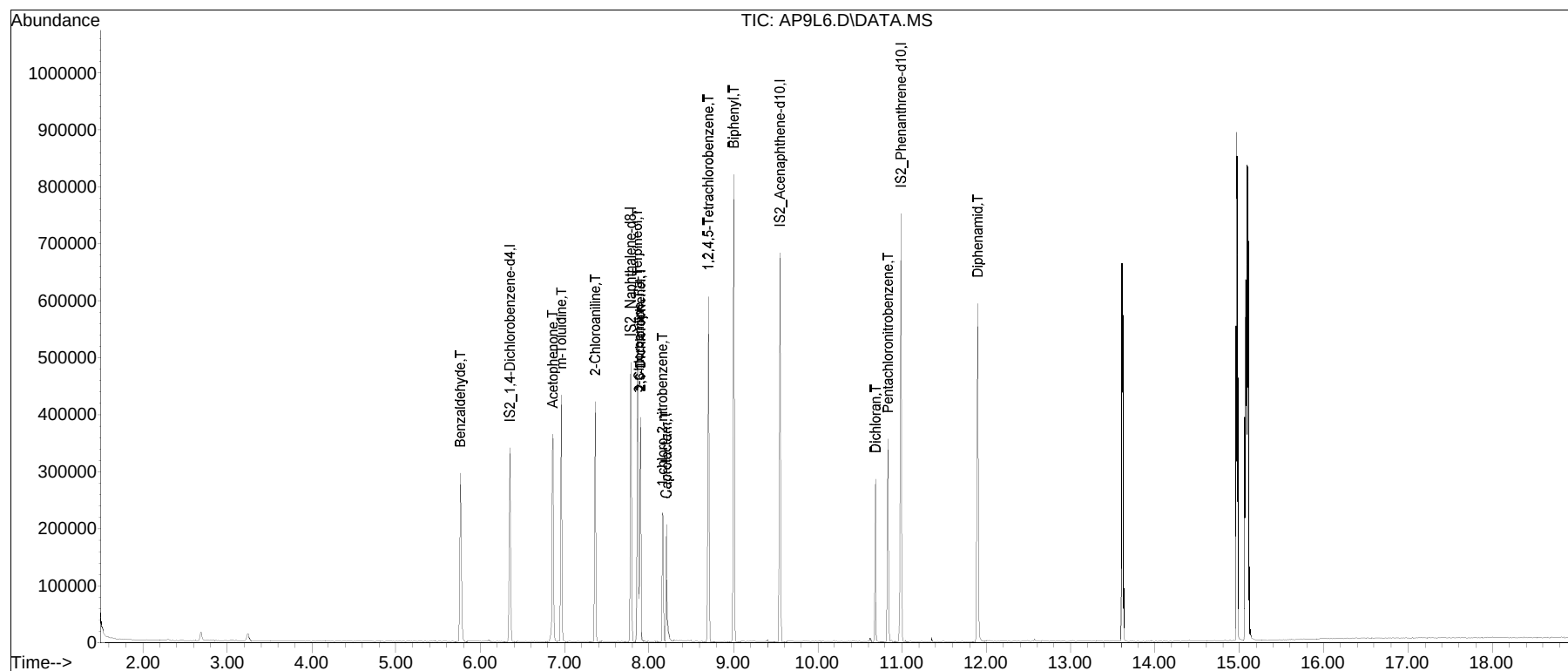
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L6.D
 Acq On : 12 Mar 2025 12:39 am
 Operator : SV106:ljj
 Sample : IL5,32,,AP9L5 Lot# 11437
 Misc : WG2039658,,ical
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 12 11:29:58 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L6.D Operator : SV106:ljpg
Date Inj'd : 3/12/2025 12:39 am Instrument : SV 106
Sample : IL5,32,,AP9L5 Lot# 11437 Quant Date : 3/12/2025 11:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L5.D
 Acq On : 12 Mar 2025 1:02 am
 Operator : SV106:ljl
 Sample : IL6,32,,AP9L2.5 Lot# 11438
 Misc : WG2039658,,ical
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 12 11:29:48 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.351	152	58916	4.000	ug/ml	0.00
Standard Area 3 = 56555			Recovery =	104.17%		
55) IS2_Naphthalene-d8	7.783	136	212580	4.000	ug/ml	# 0.00
Standard Area 3 = 212446			Recovery =	100.06%		
83) IS2_Acenaphthene-d10	9.550	164	131775	4.000	ug/ml	0.00
Standard Area 3 = 130976			Recovery =	100.61%		
98) IS2_Phenanthrene-d10	10.988	188	271904	4.000	ug/ml	0.00
Standard Area 3 = 265623			Recovery =	102.36%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	5.773	105	31831	2.266	ug/ml	94
29) Acetophenone	6.860	105	55304	2.282	ug/ml#	90
30) m-Toluidine	6.957	106	51347	2.302	ug/ml	92
31) 2-Chloroaniline	7.363	127	50423	2.312	ug/ml#	93
56) a-Terpineol	7.862	59	33440	2.290	ug/ml#	85
57) 3-Chloroaniline	7.869	65	17116	2.309	ug/ml	92
58) 2,6-Dichlorophenol	7.898	162	31326	2.183	ug/ml	95
59) 1-chloro-2-nitrobenzene	8.164	111	13125	2.287	ug/ml#	1
60) Caprolactam	8.207	55	18027	2.061	ug/ml#	87
61) 1,2,4,5-Tetrachloroben...	8.701	216	48940	2.294	ug/ml#	97
62) Biphenyl	9.000	154	107255	2.280	ug/ml	98
84) Dichloran	10.685	206	7106	3.122	ug/ml#	75
85) Pentachloronitrobenzene	10.836	237	9780	2.063	ug/ml#	77
99) Diphenamid	11.891	167	60772	2.166	ug/ml#	79

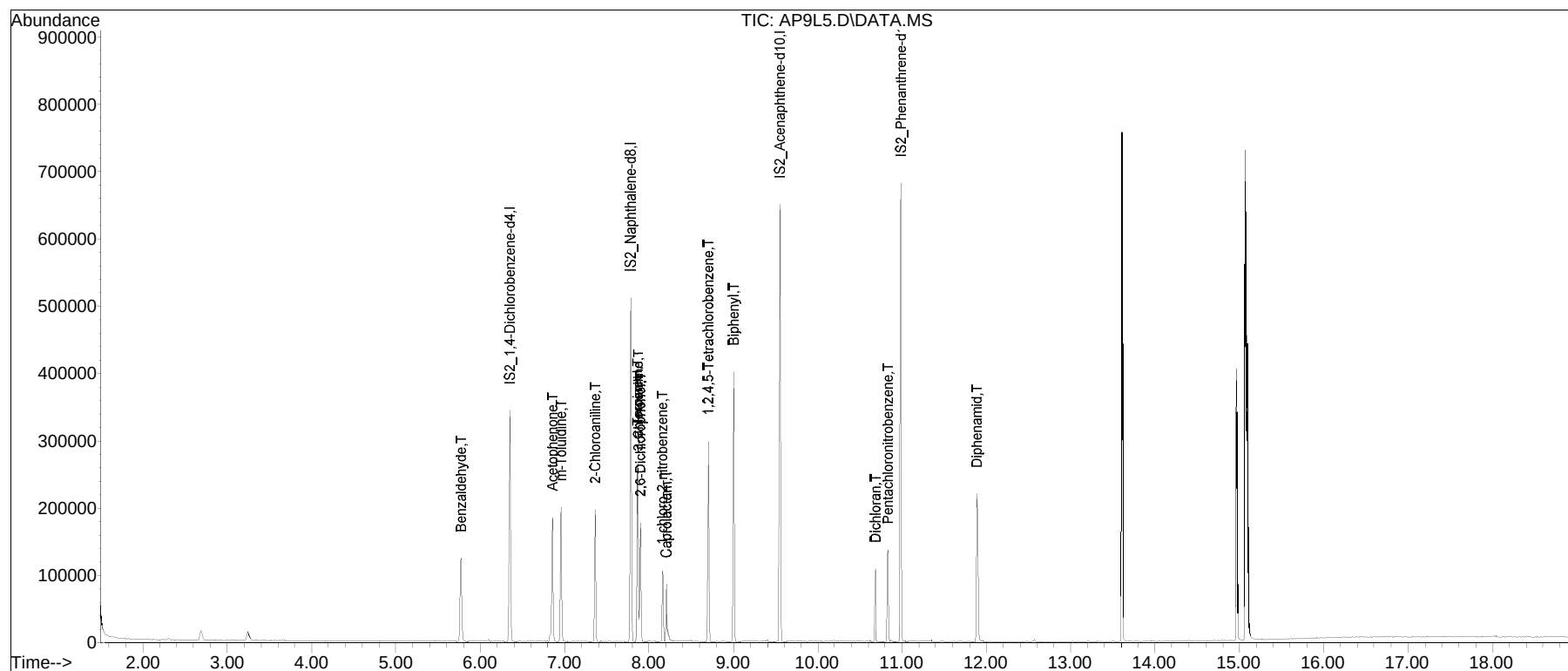
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L5.D
 Acq On : 12 Mar 2025 1:02 am
 Operator : SV106:ljj
 Sample : IL6,32,,AP9L2.5 Lot# 11438
 Misc : WG2039658,,ical
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 12 11:29:48 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L5.D Operator : SV106:ljpg
Date Inj'd : 3/12/2025 1:02 am Instrument : SV 106
Sample : IL6,32,,AP9L2.5 Lot# 11438 Quant Date : 3/12/2025 11:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L4.D
 Acq On : 12 Mar 2025 1:26 am
 Operator : SV106:ljb
 Sample : IL7,32,,AP9L1 Lot# 11439
 Misc : WG2039658,,ical
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 12 11:29:38 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.351	152	57343	4.000	ug/ml	0.00
Standard Area 3 = 56555			Recovery =	101.39%		
55) IS2_Naphthalene-d8	7.783	136	205569	4.000	ug/ml	# 0.00
Standard Area 3 = 212446			Recovery =	96.76%		
83) IS2_Acenaphthene-d10	9.550	164	126602	4.000	ug/ml	0.00
Standard Area 3 = 130976			Recovery =	96.66%		
98) IS2_Phenanthrene-d10	10.988	188	265494	4.000	ug/ml	0.00
Standard Area 3 = 265623			Recovery =	99.95%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	5.773	105	13710	1.003	ug/ml	97
29) Acetophenone	6.860	105	23481	0.995	ug/ml#	90
30) m-Toluidine	6.957	106	18600	0.857	ug/ml	94
31) 2-Chloroaniline	7.363	127	21000	0.989	ug/ml#	93
56) a-Terpineol	7.862	59	13409	0.949	ug/ml#	84
57) 3-Chloroaniline	7.869	65	7717	1.077	ug/ml	81
58) 2,6-Dichlorophenol	7.898	162	13272	0.956	ug/ml	94
59) 1-chloro-2-nitrobenzene	8.164	111	5267	0.949	ug/ml#	1
60) Caprolactam	8.215	55	7531	0.890	ug/ml#	93
61) 1,2,4,5-Tetrachloroben...	8.701	216	21003	1.018	ug/ml#	95
62) Biphenyl	9.001	154	45745	1.005	ug/ml	98
84) Dichloran	10.685	206	3236	2.469	ug/ml#	61
85) Pentachloronitrobenzene	10.836	237	3515	0.772	ug/ml#	79
99) Diphenamid	11.891	167	23335	0.852	ug/ml#	77

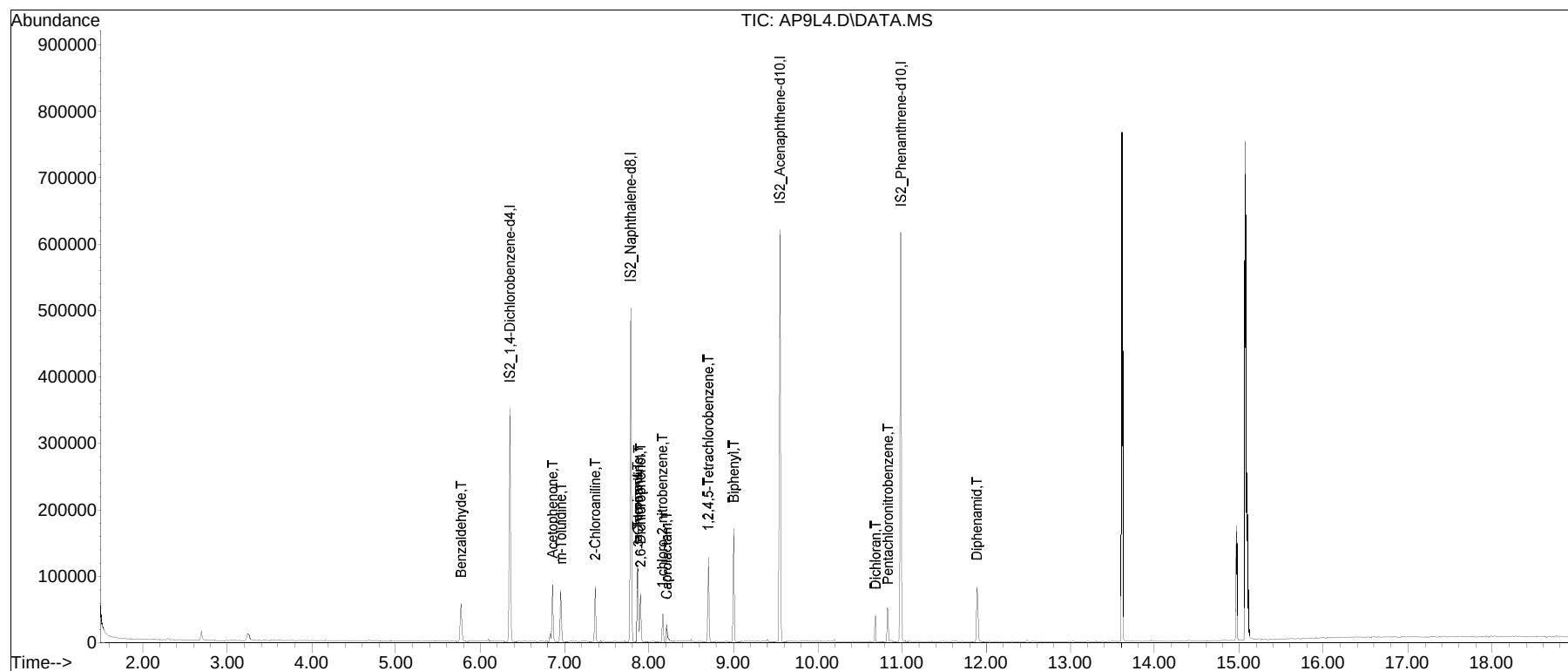
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L4.D
 Acq On : 12 Mar 2025 1:26 am
 Operator : SV106:ljb
 Sample : IL7,32,,AP9L1 Lot# 11439
 Misc : WG2039658,,ical
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 12 11:29:38 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L4.D Operator : SV106:ljpg
Date Inj'd : 3/12/2025 1:26 am Instrument : SV 106
Sample : IL7,32,,AP9L1 Lot# 11439 Quant Date : 3/12/2025 11:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L3.D
 Acq On : 12 Mar 2025 1:49 am
 Operator : SV106:ljb
 Sample : IL8,32,,AP9L0.5 Lot# 11440
 Misc : WG2039658,,ical
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 12 11:29:29 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.351	152	56735	4.000	ug/ml	0.00
Standard Area 3 = 56555			Recovery =	100.32%		
55) IS2_Naphthalene-d8	7.783	136	208252	4.000	ug/ml	# 0.00
Standard Area 3 = 212446			Recovery =	98.03%		
83) IS2_Acenaphthene-d10	9.550	164	121699	4.000	ug/ml	0.00
Standard Area 3 = 130976			Recovery =	92.92%		
98) IS2_Phenanthrene-d10	10.980	188	259274	4.000	ug/ml	0.00
Standard Area 3 = 265623			Recovery =	97.61%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	5.773	105	7553	0.558	ug/ml	93
29) Acetophenone	6.860	105	12899	0.553	ug/ml#	94
30) m-Toluidine	6.957	106	8975	0.418	ug/ml	94
31) 2-Chloroaniline	7.363	127	11732	0.559	ug/ml	93
56) a-Terpineol	7.862	59	7257	0.507	ug/ml#	83
57) 3-Chloroaniline	7.869	65	3967	0.546	ug/ml	89
58) 2,6-Dichlorophenol	7.898	162	6905	0.491	ug/ml	96
59) 1-chloro-2-nitrobenzene	8.171	111	2807	0.499	ug/ml#	1
60) Caprolactam	8.214	55	3878	0.453	ug/ml#	90
61) 1,2,4,5-Tetrachloroben...	8.701	216	11496	0.550	ug/ml#	96
62) Biphenyl	9.000	154	25184	0.546	ug/ml	99
84) Dichloran	10.685	206	1753	2.212	ug/ml#	66
85) Pentachloronitrobenzene	10.829	237	2032	0.464	ug/ml#	76
99) Diphenamid	11.891	167	12423	0.464	ug/ml#	79

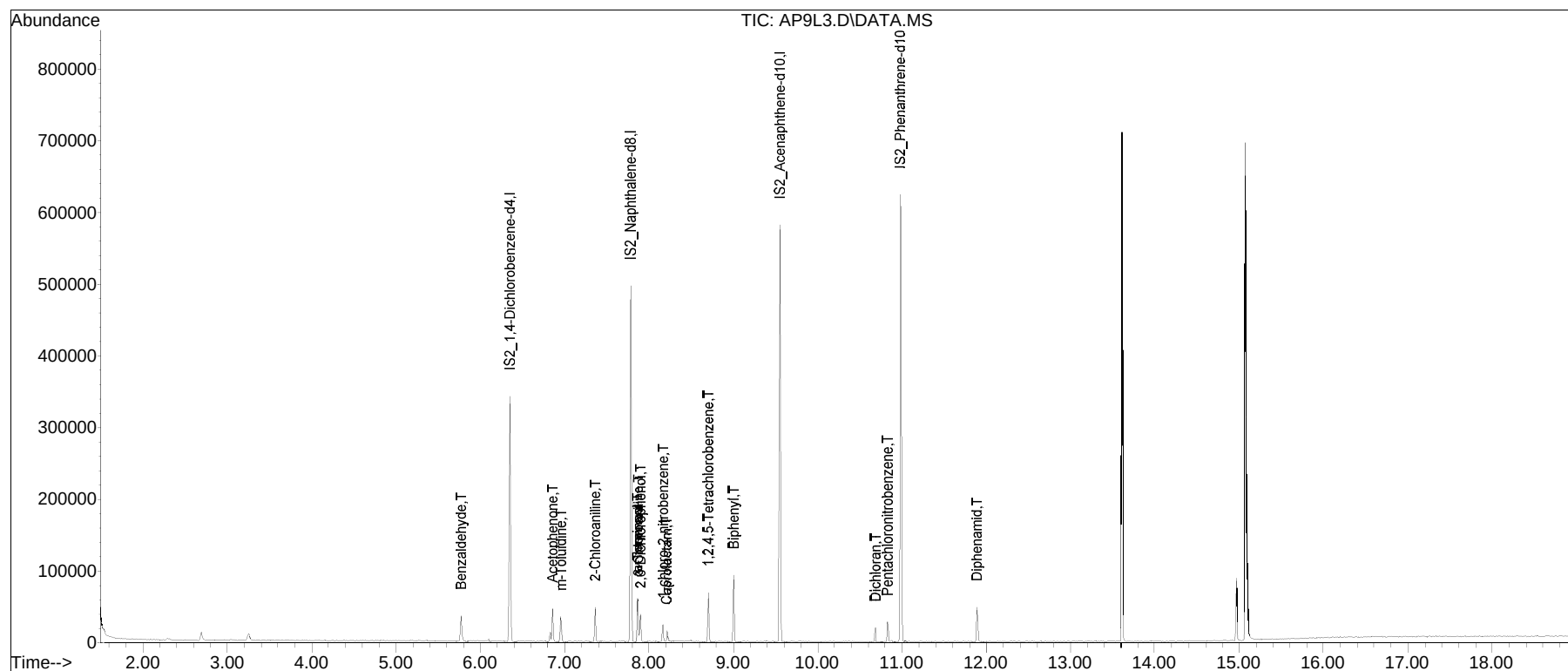
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L3.D
 Acq On : 12 Mar 2025 1:49 am
 Operator : SV106:ljj
 Sample : IL8,32,,AP9L0.5 Lot# 11440
 Misc : WG2039658,,ical
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 12 11:29:29 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L3.D Operator : SV106:ljpg
Date Inj'd : 3/12/2025 1:49 am Instrument : SV 106
Sample : IL8,32,,AP9L0.5 Lot# 11440 Quant Date : 3/12/2025 11:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L2.D
 Acq On : 12 Mar 2025 2:12 am
 Operator : SV106:ljb
 Sample : IL9,32,,AP9L0.2 Lot# 11441
 Misc : WG2039658,,ical
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 12 11:29:21 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.351	152	60708	4.000	ug/ml	0.00
Standard Area 3 = 56555			Recovery =	107.34%		
55) IS2_Naphthalene-d8	7.783	136	216867	4.000	ug/ml	# 0.00
Standard Area 3 = 212446			Recovery =	102.08%		
83) IS2_Acenaphthene-d10	9.550	164	134033	4.000	ug/ml	0.00
Standard Area 3 = 130976			Recovery =	102.33%		
98) IS2_Phenanthrene-d10	10.988	188	266278	4.000	ug/ml	# 0.00
Standard Area 3 = 265623			Recovery =	100.25%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	5.773	105	2850	0.197	ug/ml	90
29) Acetophenone	6.860	105	4013M6	0.161	ug/ml	
30) m-Toluidine	6.965	106	1216	0.053	ug/ml#	90
31) 2-Chloroaniline	7.363	127	3801	0.169	ug/ml#	89
56) a-Terpineol	7.862	59	2392	0.161	ug/ml#	78
57) 3-Chloroaniline	7.876	65	1245	0.165	ug/ml	93
58) 2,6-Dichlorophenol	7.898	162	2563	0.175	ug/ml	99
59) 1-chloro-2-nitrobenzene	8.171	111	1002	0.171	ug/ml#	1
60) Caprolactam	8.222	55	1693	0.190	ug/ml#	76
61) 1,2,4,5-Tetrachloroben...	8.701	216	3878	0.178	ug/ml	96
62) Biphenyl	9.000	154	9139	0.190	ug/ml	99
84) Dichloran	10.685	206	503	1.967	ug/ml#	26
85) Pentachloronitrobenzene	10.836	237	539	0.112	ug/ml#	27
99) Diphenamid	11.900	167	4470	0.163	ug/ml#	69

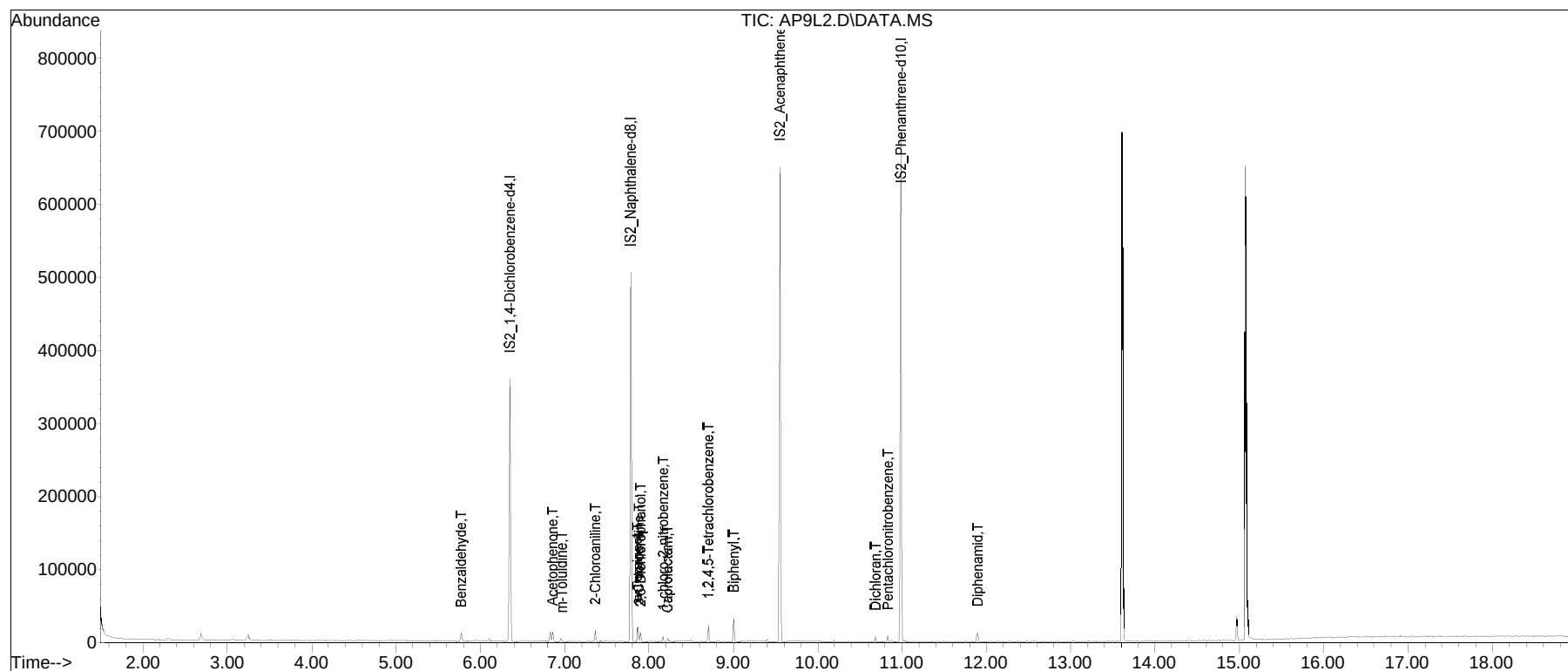
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L2.D
 Acq On : 12 Mar 2025 2:12 am
 Operator : SV106:ljj
 Sample : IL9,32,,AP9L0.2 Lot# 11441
 Misc : WG2039658,,ical
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 12 11:29:21 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

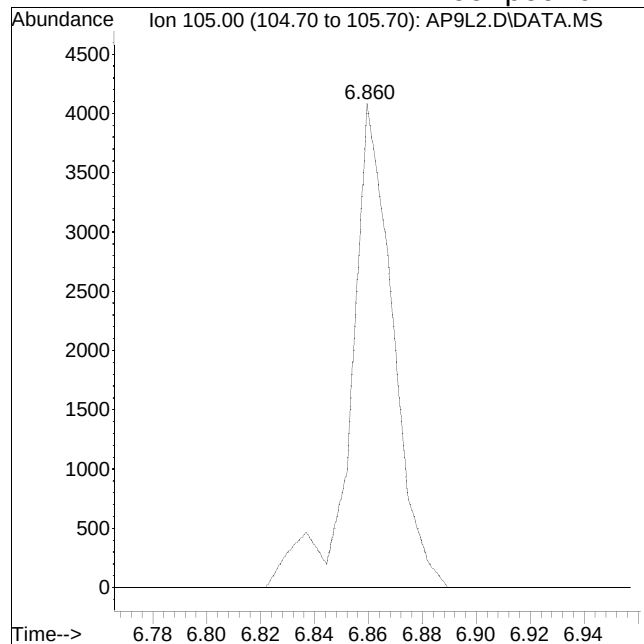
Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

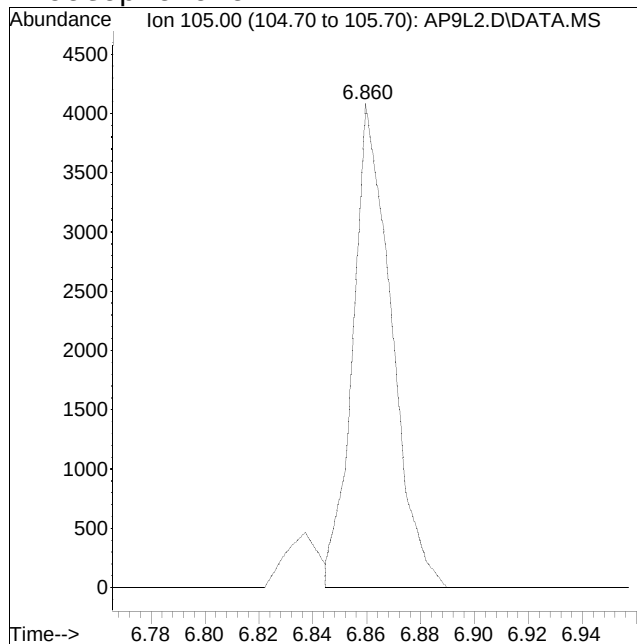
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L2.D Operator : SV106:ljg
Date Inj'd : 3/12/2025 2:12 am Instrument : SV 106
Sample : IL9,32,,AP9L0.2 Lot# 11441 Quant Date : 3/12/2025 11:30 am

Compound #29: Acetophenone



Original Peak Response = 4444

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



Manual Peak Response = 4013 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L1.D
 Acq On : 12 Mar 2025 2:36 am
 Operator : SV106:ljl
 Sample : IL10,32,,AP9L0.1 Lot# 11442
 Misc : WG2039658,,ical
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 12 11:29:12 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.351	152	52482	4.000	ug/ml	0.00
Standard Area 3 = 56555			Recovery =	92.80%		
55) IS2_Naphthalene-d8	7.782	136	190067	4.000	ug/ml	# 0.00
Standard Area 3 = 212446			Recovery =	89.47%		
83) IS2_Acenaphthene-d10	9.550	164	112695	4.000	ug/ml	0.00
Standard Area 3 = 130976			Recovery =	86.04%		
98) IS2_Phenanthrene-d10	10.988	188	224443	4.000	ug/ml	0.00
Standard Area 3 = 265623			Recovery =	84.50%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	5.781	105	1072	0.086	ug/ml	96
29) Acetophenone	6.867	105	2170	0.101	ug/ml#	76
30) m-Toluidine	0.000		0	N.D.		
31) 2-Chloroaniline	7.363	127	1766	0.091	ug/ml	96
56) a-Terpineol	7.862	59	1349	0.103	ug/ml#	86
57) 3-Chloroaniline	7.876	65	583	0.088	ug/ml	94
58) 2,6-Dichlorophenol	7.898	162	1347	0.105	ug/ml#	75
59) 1-chloro-2-nitrobenzene	8.171	111	451M2	0.088	ug/ml	
60) Caprolactam	8.236	55	931M1	0.119	ug/ml	
61) 1,2,4,5-Tetrachloroben...	8.701	216	2187	0.115	ug/ml#	80
62) Biphenyl	9.000	154	4754	0.113	ug/ml	94
84) Dichloran	10.685	206	314M2	1.945	ug/ml	
85) Pentachloronitrobenzene	10.829	237	383M2	0.094	ug/ml	
99) Diphenamid	11.891	167	2156	0.093	ug/ml#	81

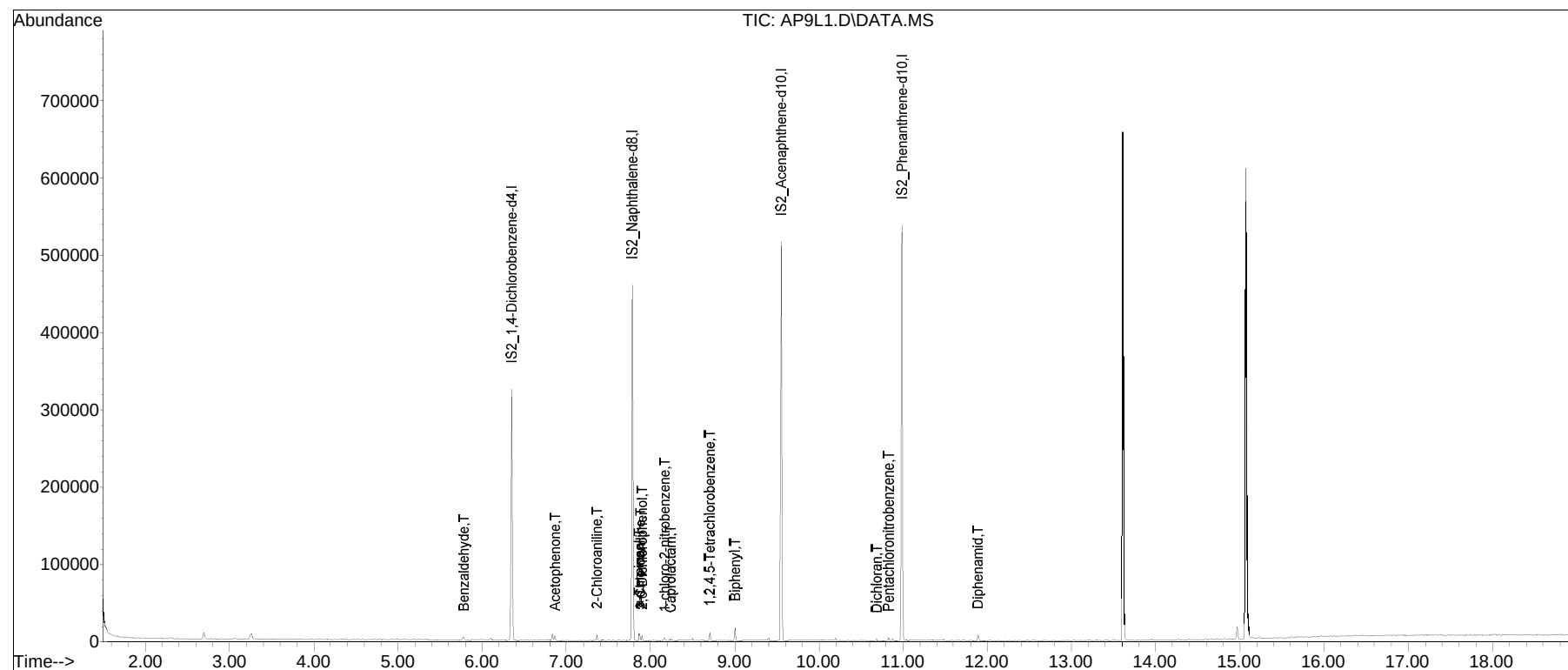
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9L1.D
 Acq On : 12 Mar 2025 2:36 am
 Operator : SV106:ljj
 Sample : IL10,32,,AP9L0.1 Lot# 11442
 Misc : WG2039658,,ical
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 12 11:29:12 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:34:57 2025
 Response via : Initial Calibration

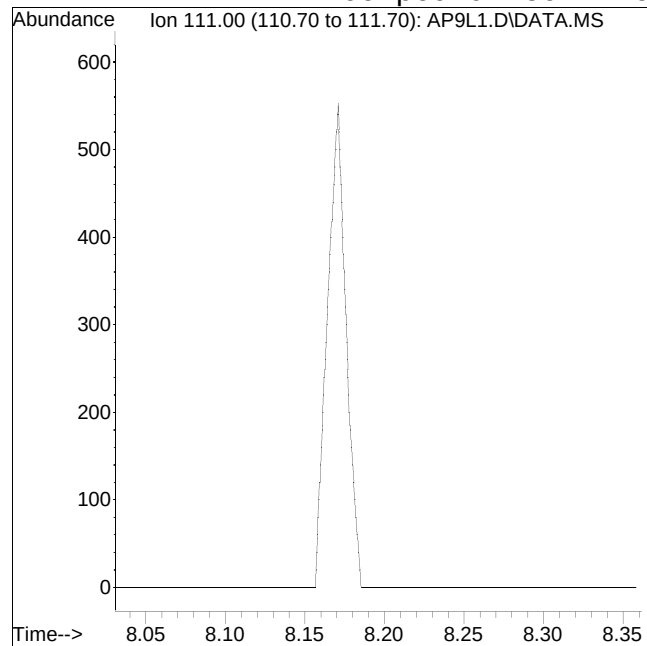
Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

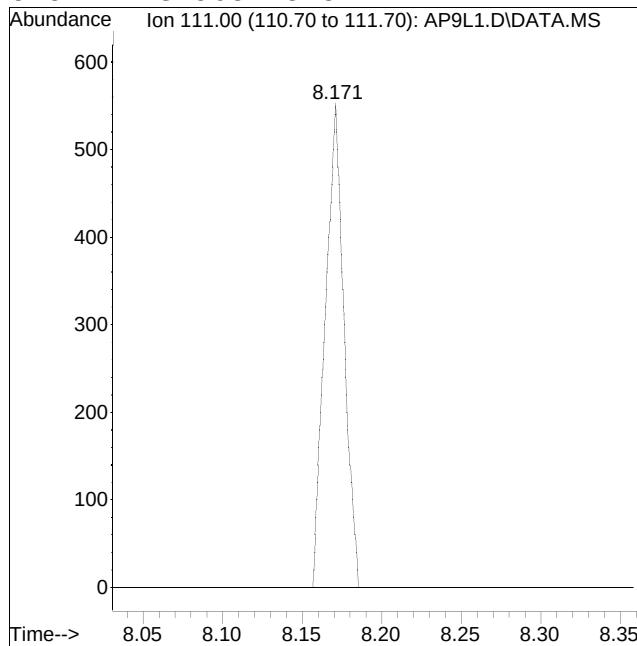
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L1.D Operator : SV106:ljg
Date Inj'd : 3/12/2025 2:36 am Instrument : SV 106
Sample : IL10,32,,AP9L0.1 Lot# 1144Quant Date : 3/12/2025 11:30 am

Compound #59: 1-chloro-2-nitrobenzene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

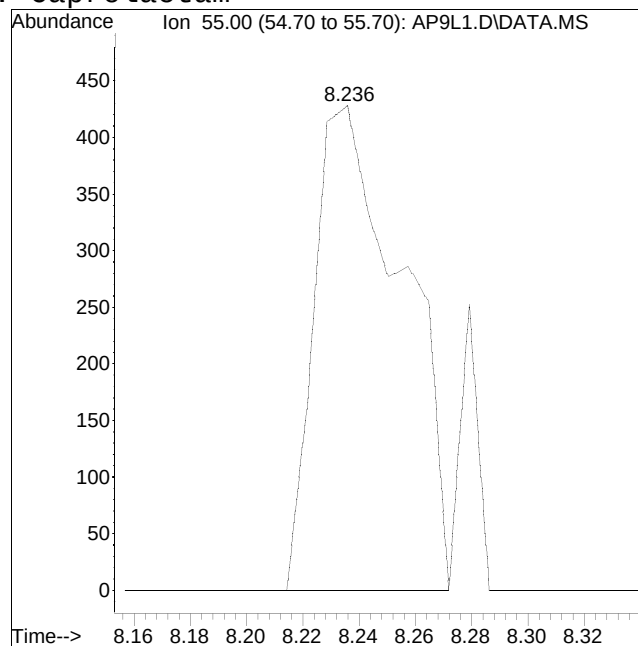
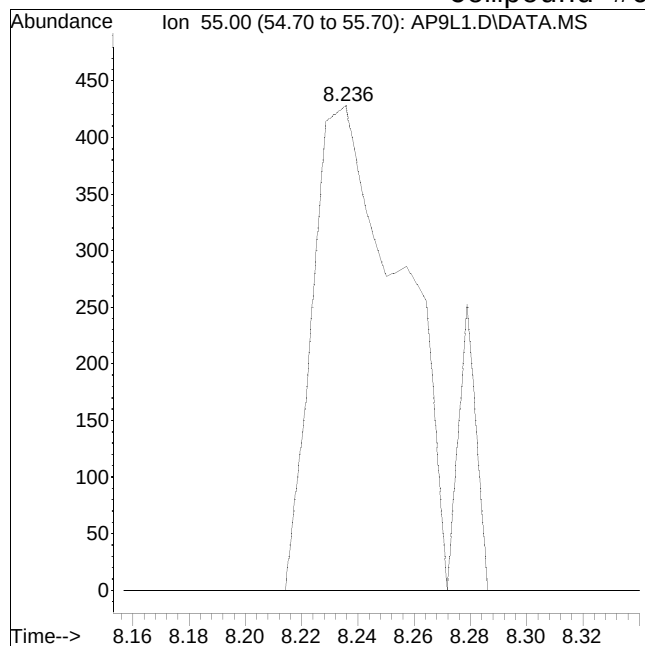


Manual Peak Response = 451 M2

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L1.D Operator : SV106:ljb
Date Inj'd : 3/12/2025 2:36 am Instrument : SV 106
Sample : IL10,32,,AP9L0.1 Lot# 1144 Quant Date : 3/12/2025 11:30 am

Compound #60: Caprolactam



Original Peak Response = 1041

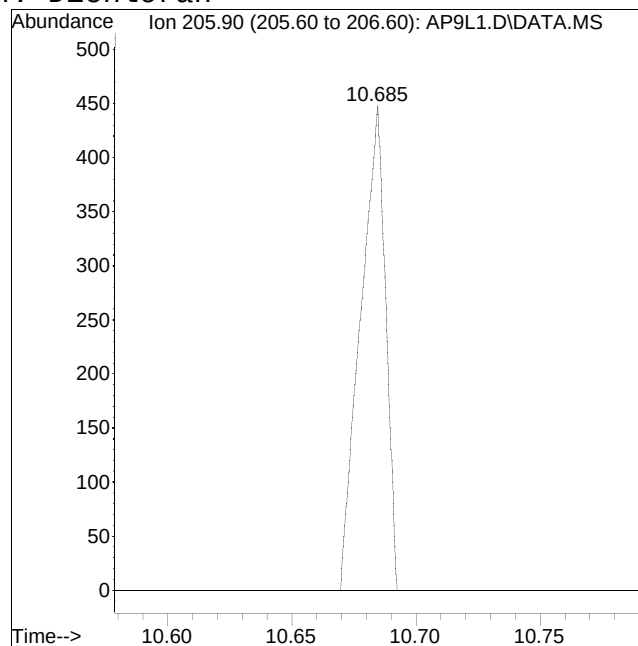
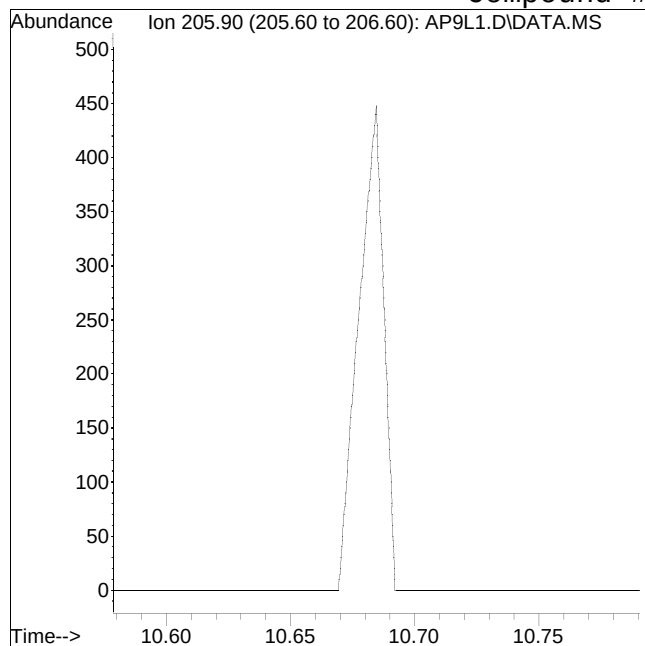
Manual Peak Response = 931 M1

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

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L1.D Operator : SV106:ljb
Date Inj'd : 3/12/2025 2:36 am Instrument : SV 106
Sample : IL10,32,,AP9L0.1 Lot# 1144 Quant Date : 3/12/2025 11:30 am

Compound #84: Dichloran



Original Peak Response = 0

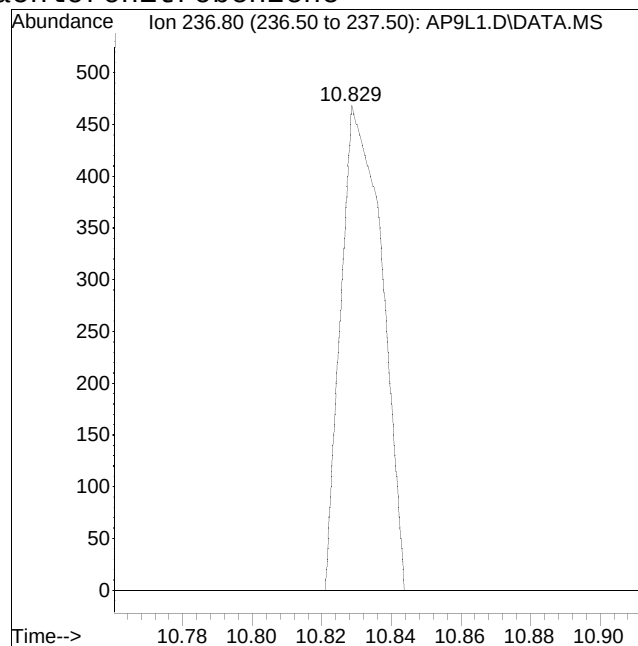
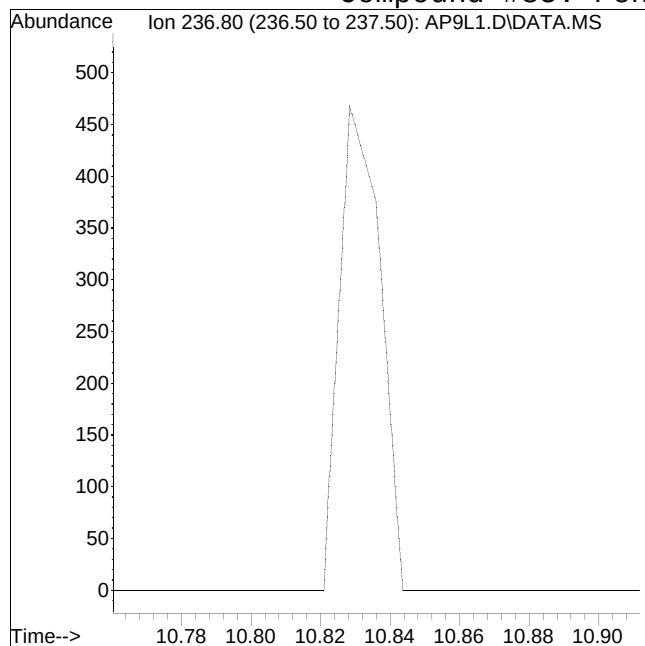
Manual Peak Response = 314 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L1.D Operator : SV106:ljl
Date Inj'd : 3/12/2025 2:36 am Instrument : SV 106
Sample : IL10,32,,AP9L0.1 Lot# 1144 Quant Date : 3/12/2025 11:30 am

Compound #85: Pentachloronitrobenzene



Original Peak Response = 0

Manual Peak Response = 383 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ADPL9.D
 Acq On : 12 Mar 2025 2:59 am
 Operator : SV106:ljb
 Sample : IL2,32,,ADPL50 Lot# 11443
 Misc : WG2039658,,ical
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 12 10:29:50 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:30:49 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	50622	4.000	ug/ml	0.00
Standard Area 2 = 58261			Recovery	=	86.89%	
86) IS3_Acenaphthene-d10	9.550	164	114457	4.000	ug/ml	0.00
Standard Area 2 = 127382			Recovery	=	89.85%	
100) IS3_Phenanthrene-d10	10.987	188	242176	4.000	ug/ml	0.00
Standard Area 2 = 266366			Recovery	=	90.92%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.731	88	316110	45.588	ug/ml#	61
34) n-Decane	6.249	57	1088035	50.582	ug/ml#	38
87) Atrazine	10.768	200	629720	60.211	ug/ml	96
101) n-Octadecane	10.972	57	1571811	56.690	ug/ml#	1
102) Parathion	11.778	109	293925	62.492	ug/ml	96
103) 3,3'-Dimethylbenzidine	13.054	212	2935321	74.963	ug/ml	98

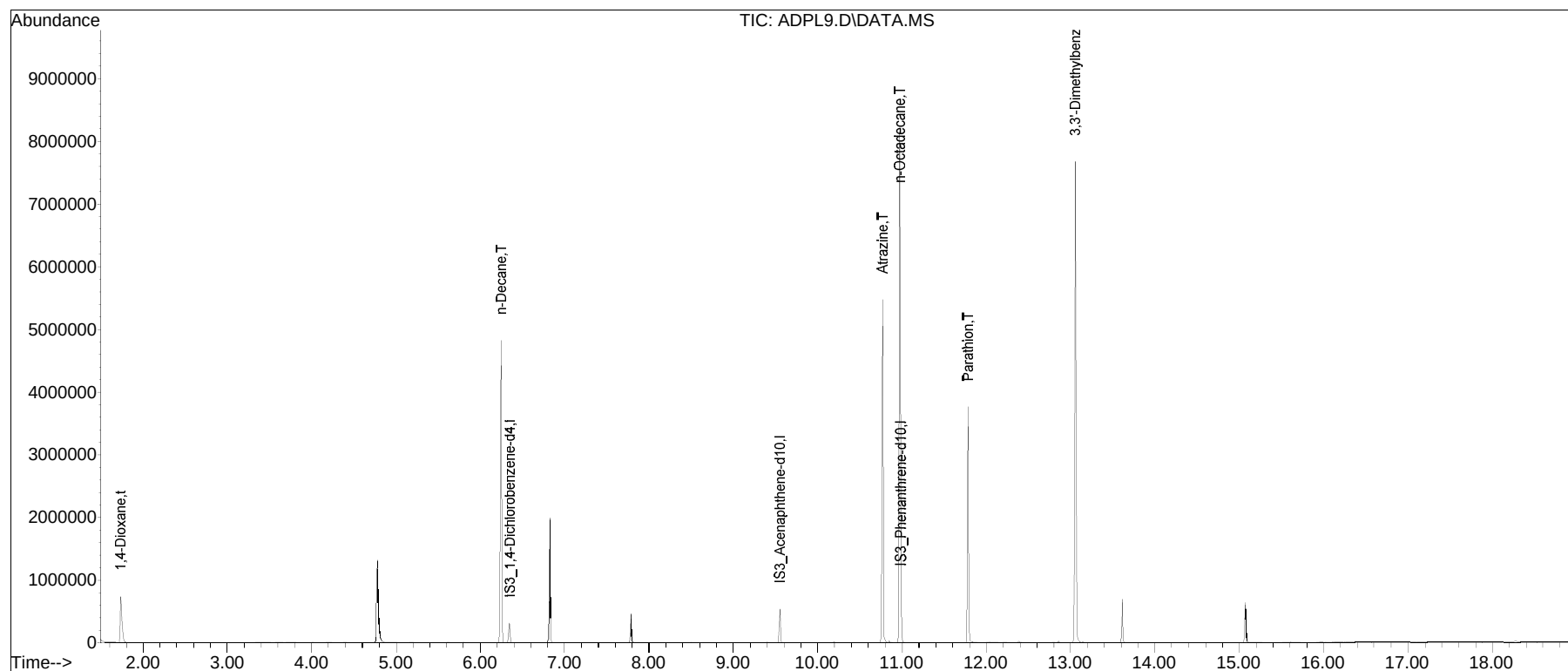
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ADPL9.D
 Acq On : 12 Mar 2025 2:59 am
 Operator : SV106:ljb
 Sample : IL2,32,,ADPL50 Lot# 11443
 Misc : WG2039658,,ical
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 12 10:29:50 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:30:49 2025
 Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ADPL9.D Operator : SV106:ljpg
Date Inj'd : 3/12/2025 2:59 am Instrument : SV 106
Sample : IL2,32,,ADPL50 Lot# 11443 Quant Date : 3/12/2025 10:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ADPL8.D
 Acq On : 12 Mar 2025 3:23 am
 Operator : SV106:ljb
 Sample : IL3,32,,ADPL25 Lot# 11444
 Misc : WG2039658,,ical
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 12 10:29:39 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:30:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	56242	4.000	ug/ml	0.00
Standard Area 2 = 58261			Recovery =	96.53%		
86) IS3_Acenaphthene-d10	9.550	164	118052	4.000	ug/ml	0.00
Standard Area 2 = 127382			Recovery =	92.68%		
100) IS3_Phenanthrene-d10	10.980	188	255155	4.000	ug/ml	0.00
Standard Area 2 = 266366			Recovery =	95.79%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.746	88	192355	24.969	ug/ml#	60
34) n-Decane	6.249	57	667856	27.946	ug/ml#	37
87) Atrazine	10.768	200	381049	35.325	ug/ml	97
101) n-Octadecane	10.972	57	962959	32.964	ug/ml#	1
102) Parathion	11.778	109	169910	34.353	ug/ml	93
103) 3,3'-Dimethylbenzidine	13.054	212	1691698	41.005	ug/ml	98

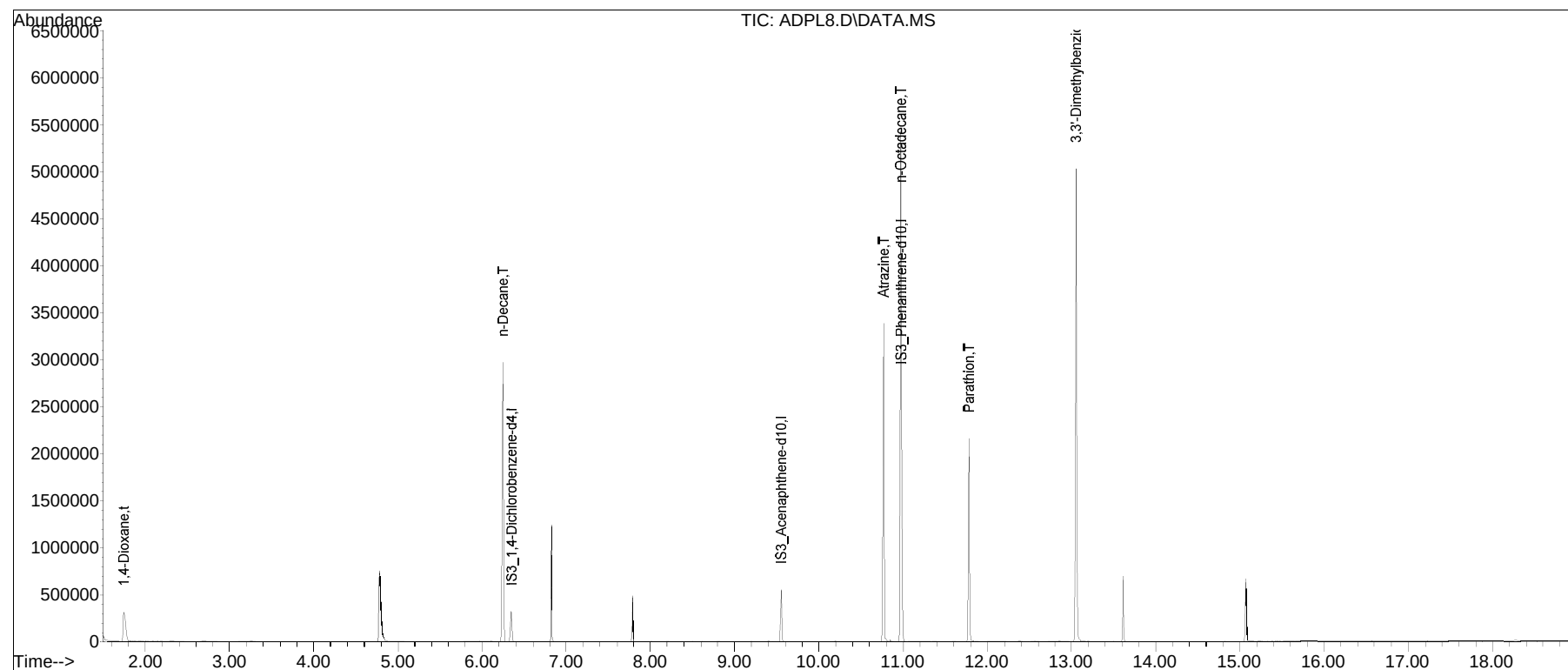
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL8.D
Acq On : 12 Mar 2025 3:23 am
Operator : SV106:ljb
Sample : IL3,32,,ADPL25 Lot# 11444
Misc : WG2039658,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 12 10:29:39 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:30:38 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ADPL8.D Operator : SV106:ljpg
Date Inj'd : 3/12/2025 3:23 am Instrument : SV 106
Sample : IL3,32,,ADPL25 Lot# 11444 Quant Date : 3/12/2025 10:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ADPL7.D
 Acq On : 12 Mar 2025 3:46 am
 Operator : SV106:ljl
 Sample : IL4,32,,ADPL10 Lot# 11445
 Misc : WG2039658,,ical
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 12 10:29:29 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:30:28 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	56194	4.000	ug/ml	0.00
Standard Area 2 = 58261			Recovery =	96.45%		
86) IS3_Acenaphthene-d10	9.550	164	123752	4.000	ug/ml	0.00
Standard Area 2 = 127382			Recovery =	97.15%		
100) IS3_Phenanthrene-d10	10.988	188	262736	4.000	ug/ml	0.00
Standard Area 2 = 266366			Recovery =	98.64%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.746	88	66044	8.580	ug/ml#	61
34) n-Decane	6.249	57	228529	9.571	ug/ml#	37
87) Atrazine	10.768	200	118980	10.522	ug/ml	96
101) n-Octadecane	10.973	57	314688	10.462	ug/ml#	1
102) Parathion	11.779	109	44659	8.877	ug/ml#	95
103) 3,3'-Dimethylbenzidine	13.054	212	501782	11.812	ug/ml	99

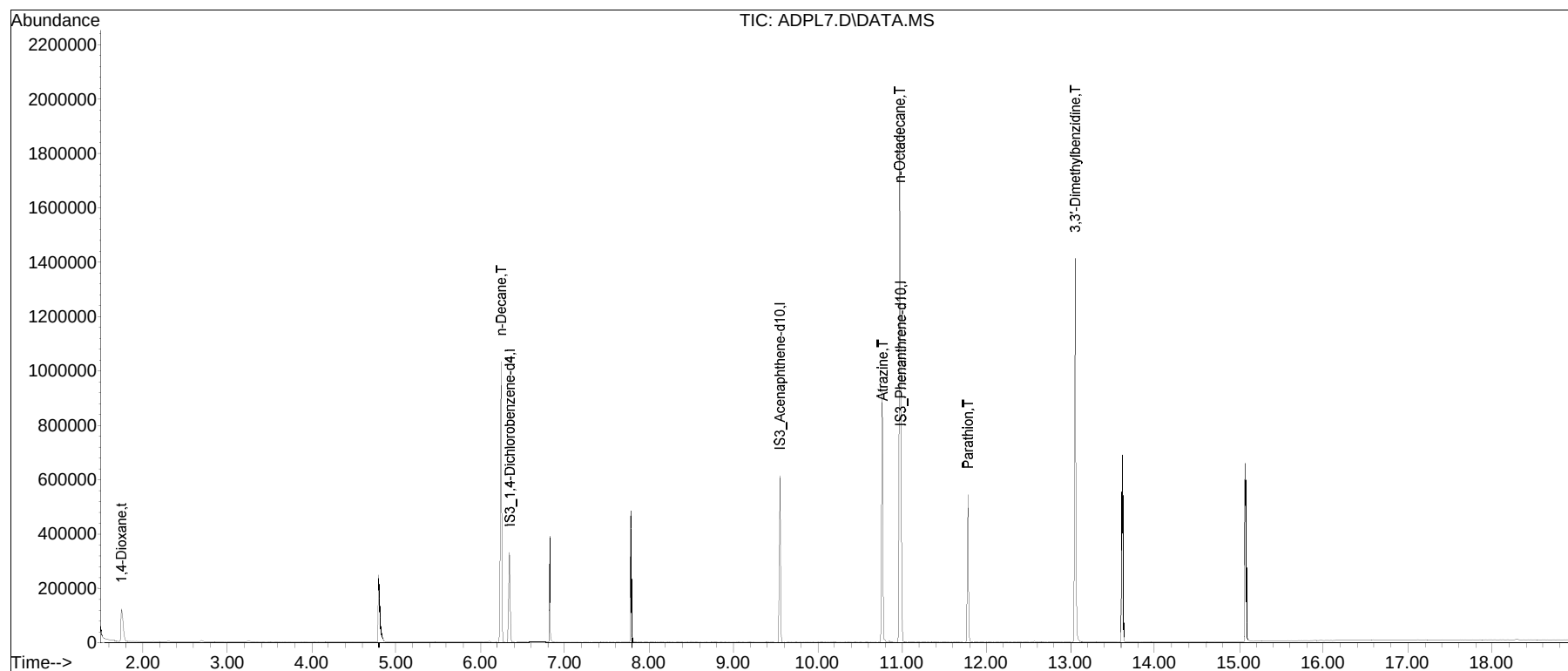
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL7.D
Acq On : 12 Mar 2025 3:46 am
Operator : SV106:ljj
Sample : IL4,32,,ADPL10 Lot# 11445
Misc : WG2039658,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 12 10:29:29 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:30:28 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ADPL7.D Operator : SV106:ljpg
Date Inj'd : 3/12/2025 3:46 am Instrument : SV 106
Sample : IL4,32,,ADPL10 Lot# 11445 Quant Date : 3/12/2025 10:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ADPL6.D
 Acq On : 12 Mar 2025 4:09 am
 Operator : SV106:ljb
 Sample : IL5,32,,ADPL5 Lot# 11446
 Misc : WG2039658,,ical
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 12 10:29:19 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:30:16 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	58261	4.000	ug/ml	0.00
Standard Area 2 = 58261			Recovery	=	100.00%	
86) IS3_Acenaphthene-d10	9.550	164	127382	4.000	ug/ml	0.00
Standard Area 2 = 127382			Recovery	=	100.00%	
100) IS3_Phenanthrene-d10	10.988	188	266366	4.000	ug/ml	# 0.00
Standard Area 2 = 266366			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.753	88	33982	4.258	ug/ml#	61
34) n-Decane	6.249	57	114296	4.617	ug/ml#	36
87) Atrazine	10.760	200	53357	4.584	ug/ml	97
101) n-Octadecane	10.973	57	146808	4.814	ug/ml#	1
102) Parathion	11.778	109	19034	3.816	ug/ml#	94
103) 3,3'-Dimethylbenzidine	13.054	212	198733	4.614	ug/ml	99

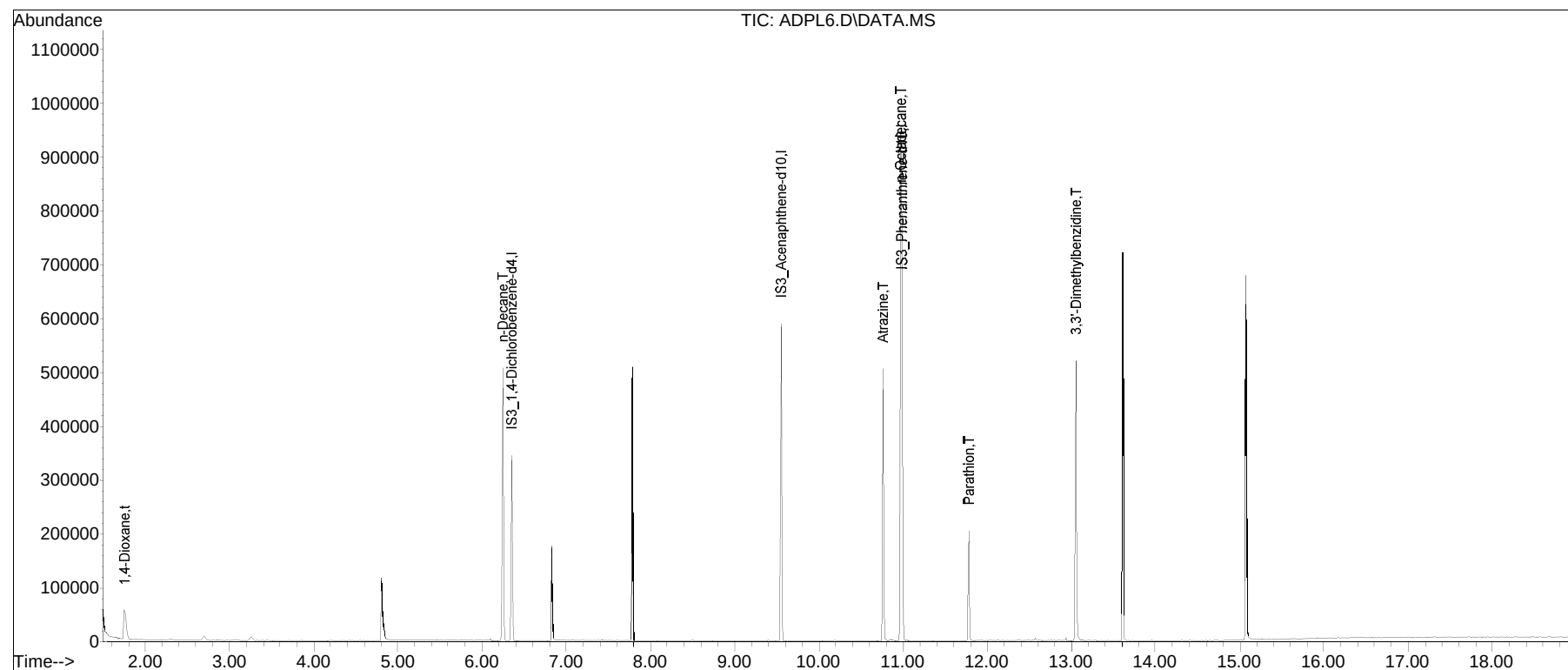
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ADPL6.D
 Acq On : 12 Mar 2025 4:09 am
 Operator : SV106:ljj
 Sample : IL5,32,,ADPL5 Lot# 11446
 Misc : WG2039658,,ical
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 12 10:29:19 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:30:16 2025
 Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ADPL6.D Operator : SV106:ljpg
Date Inj'd : 3/12/2025 4:09 am Instrument : SV 106
Sample : IL5,32,,ADPL5 Lot# 11446 Quant Date : 3/12/2025 10:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ADPL5.D
 Acq On : 12 Mar 2025 4:33 am
 Operator : SV106:ljb
 Sample : IL6,32,,ADPL2.5 Lot# 11447
 Misc : WG2039658,,ical
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 12 10:29:06 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:30:06 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	55405	4.000	ug/ml	0.00
Standard Area 2 = 58261			Recovery =	95.10%		
86) IS3_Acenaphthene-d10	9.550	164	119346	4.000	ug/ml	0.00
Standard Area 2 = 127382			Recovery =	93.69%		
100) IS3_Phenanthrene-d10	10.980	188	253725	4.000	ug/ml	0.00
Standard Area 2 = 266366			Recovery =	95.25%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.753	88	16182	2.132	ug/ml#	64
34) n-Decane	6.249	57	50558	2.147	ug/ml#	35
87) Atrazine	10.760	200	22752	2.086	ug/ml	95
101) n-Octadecane	10.973	57	59761	2.057	ug/ml#	1
102) Parathion	11.778	109	8047	1.774	ug/ml#	92
103) 3,3'-Dimethylbenzidine	13.054	212	77092	1.879	ug/ml	98

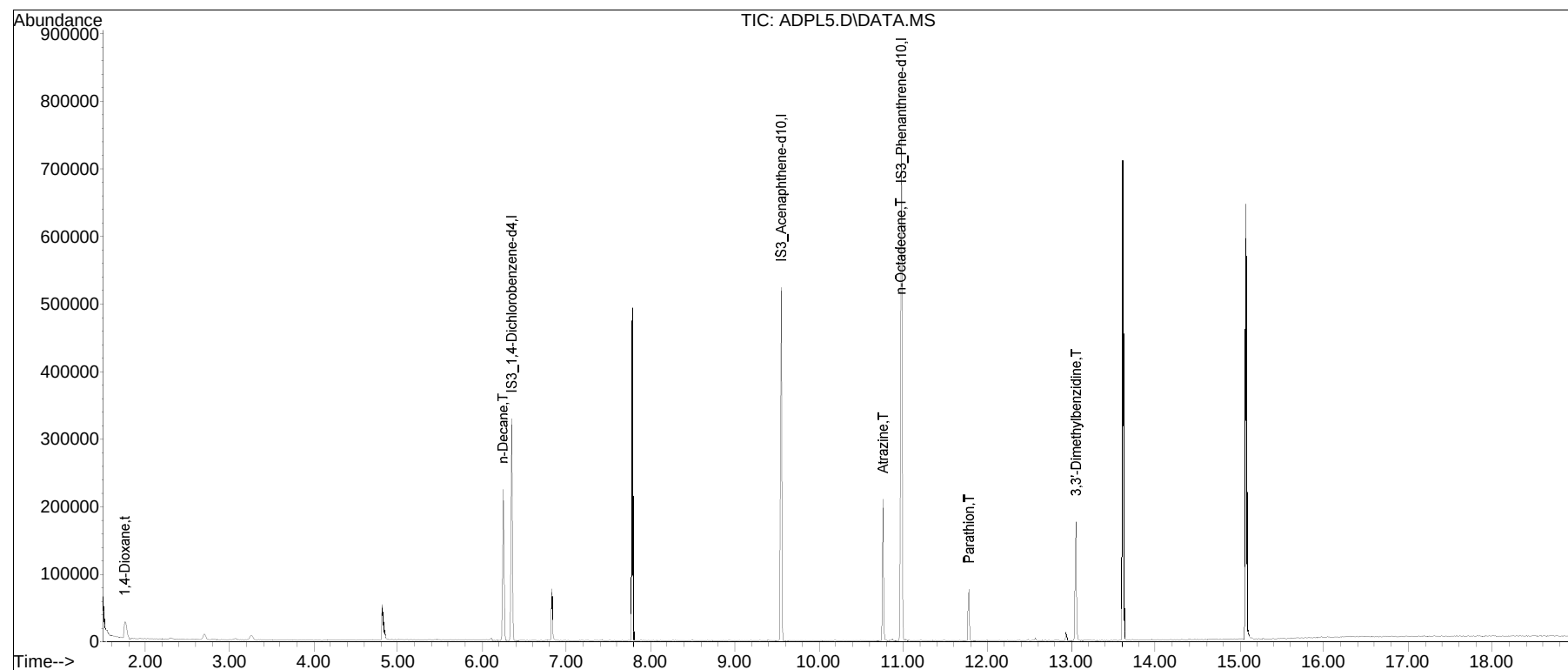
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL5.D
Acq On : 12 Mar 2025 4:33 am
Operator : SV106:ljg
Sample : IL6,32,,ADPL2.5 Lot# 11447
Misc : WG2039658,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 12 10:29:06 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:30:06 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ADPL5.D Operator : SV106:ljpg
Date Inj'd : 3/12/2025 4:33 am Instrument : SV 106
Sample : IL6,32,,ADPL2.5 Lot# 11447Quant Date : 3/12/2025 10:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ADPL4.D
 Acq On : 12 Mar 2025 4:56 am
 Operator : SV106:ljb
 Sample : IL7,32,,ADPL1 Lot# 11448
 Misc : WG2039658,,ical
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 12 10:28:57 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:29:57 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	57291	4.000	ug/ml	0.00
Standard Area 2 = 58261			Recovery =	98.34%		
86) IS3_Acenaphthene-d10	9.550	164	122156	4.000	ug/ml	0.00
Standard Area 2 = 127382			Recovery =	95.90%		
100) IS3_Phenanthrene-d10	10.988	188	250087	4.000	ug/ml	0.00
Standard Area 2 = 266366			Recovery =	93.89%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.767	88	7495	0.955	ug/ml#	60
34) n-Decane	6.249	57	25267	1.038	ug/ml#	37
87) Atrazine	10.760	200	9342	0.837	ug/ml	98
101) n-Octadecane	10.972	57	26430	0.923	ug/ml#	1
102) Parathion	11.778	109	3559	0.876	ug/ml	95
103) 3,3'-Dimethylbenzidine	13.054	212	21817	0.540	ug/ml	98

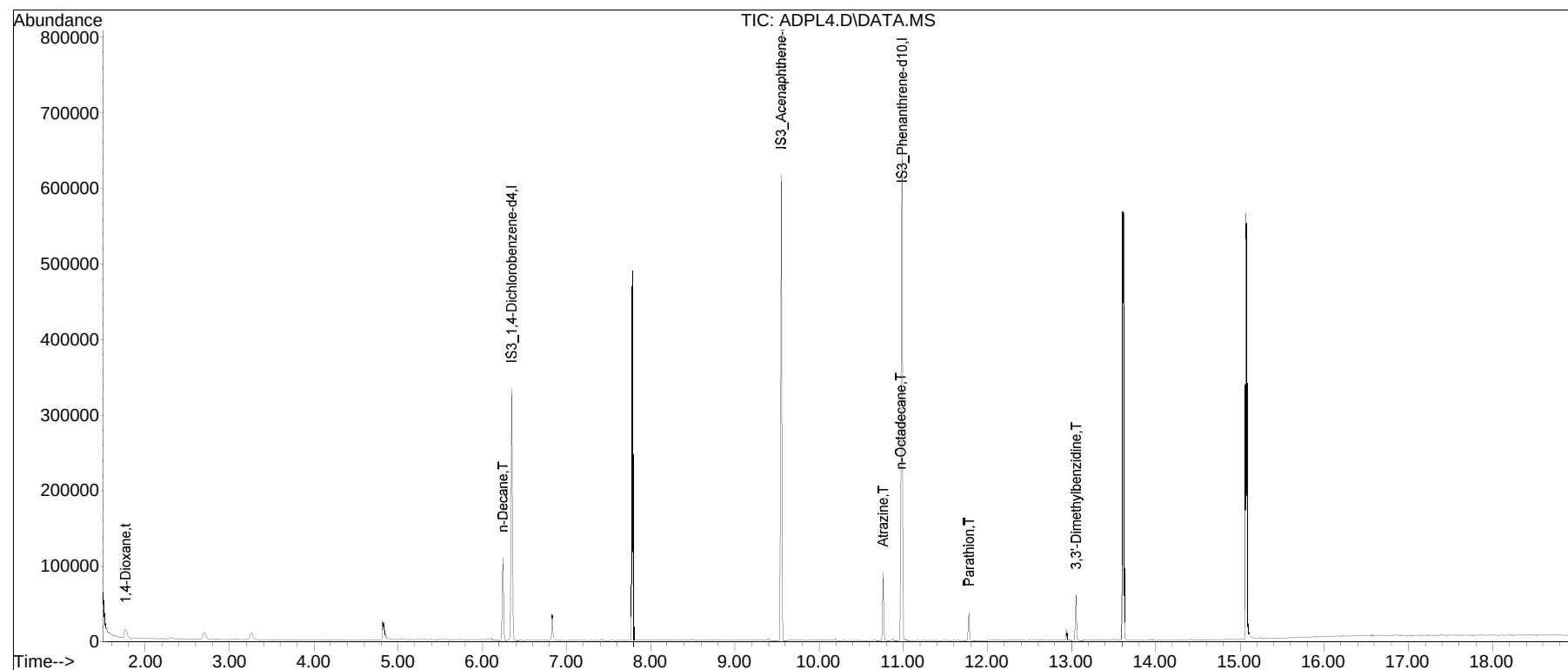
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL4.D
Acq On : 12 Mar 2025 4:56 am
Operator : SV106:ljl
Sample : IL7,32,,ADPL1 Lot# 11448
Misc : WG2039658,,ical
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 12 10:28:57 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:29:57 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ADPL4.D Operator : SV106:ljpg
Date Inj'd : 3/12/2025 4:56 am Instrument : SV 106
Sample : IL7,32,,ADPL1 Lot# 11448 Quant Date : 3/12/2025 10:29 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ADPL3.D
 Acq On : 12 Mar 2025 5:20 am
 Operator : SV106:ljb
 Sample : IL8,32,,ADPL0.5 Lot# 11449
 Misc : WG2039658,,ical
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 12 10:28:24 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:29:24 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	53514	4.000	ug/ml	0.00
Standard Area 2 = 58261			Recovery =	91.85%		
86) IS3_Acenaphthene-d10	9.550	164	113473	4.000	ug/ml	0.00
Standard Area 2 = 127382			Recovery =	89.08%		
100) IS3_Phenanthrene-d10	10.987	188	235698	4.000	ug/ml	0.00
Standard Area 2 = 266366			Recovery =	88.49%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.753	88	4661	0.636	ug/ml#	69
34) n-Decane	6.249	57	12582	0.553	ug/ml#	36
87) Atrazine	10.760	200	4678	0.451	ug/ml	96
101) n-Octadecane	10.972	57	12842	0.476	ug/ml#	1
102) Parathion	11.778	109	1948	0.570	ug/ml#	83
103) 3,3'-Dimethylbenzidine	13.054	212	8865	0.233	ug/ml	99

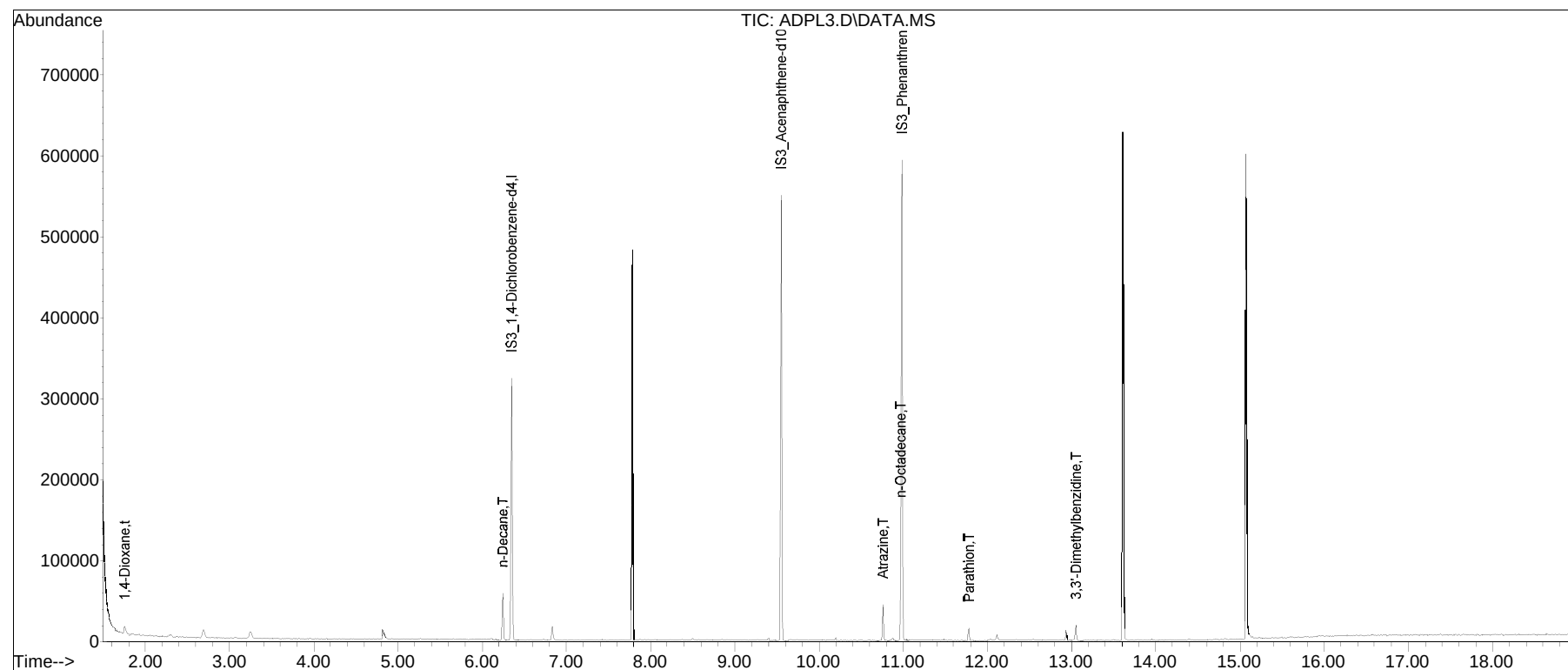
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL3.D
Acq On : 12 Mar 2025 5:20 am
Operator : SV106:ljj
Sample : IL8,32,,ADPL0.5 Lot# 11449
Misc : WG2039658,,ical
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 12 10:28:24 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:29:24 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ADPL3.D Operator : SV106:ljpg
Date Inj'd : 3/12/2025 5:20 am Instrument : SV 106
Sample : IL8,32,,ADPL0.5 Lot# 11449 Quant Date : 3/12/2025 10:29 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ADPL2.D
 Acq On : 12 Mar 2025 5:43 am
 Operator : SV106:ljb
 Sample : IL9,32,,ADPL0.2 Lot# 11450
 Misc : WG2039658,,ical
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Mar 12 10:27:35 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:28:34 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	51722	4.000	ug/ml	0.00
Standard Area 2 = 58261			Recovery	=	88.78%	
86) IS3_Acenaphthene-d10	9.550	164	105533	4.000	ug/ml	0.00
Standard Area 2 = 127382			Recovery	=	82.85%	
100) IS3_Phenanthrene-d10	10.980	188	220396	4.000	ug/ml	0.00
Standard Area 2 = 266366			Recovery	=	82.74%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.753	88	1475	0.208	ug/ml#	80
34) n-Decane	6.249	57	3961	0.180	ug/ml#	28
87) Atrazine	10.761	200	1589	0.165	ug/ml#	70
101) n-Octadecane	10.973	57	4168	0.165	ug/ml#	1
102) Parathion	11.779	109	464M2	0.253	ug/ml	
103) 3,3'-Dimethylbenzidine	0.000		0	N.D.		

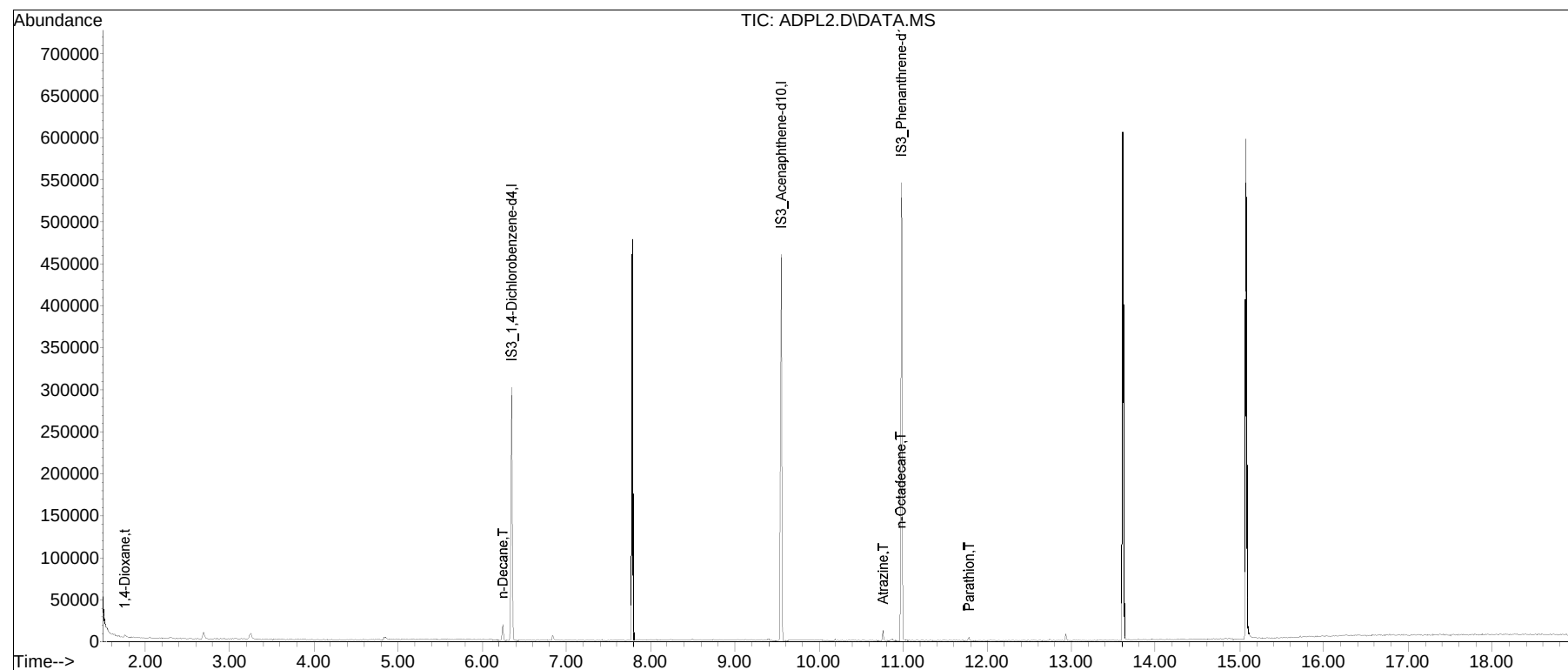
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ADPL2.D
 Acq On : 12 Mar 2025 5:43 am
 Operator : SV106:ljj
 Sample : IL9,32,,ADPL0.2 Lot# 11450
 Misc : WG2039658,,ical
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Mar 12 10:27:35 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:28:34 2025
 Response via : Initial Calibration

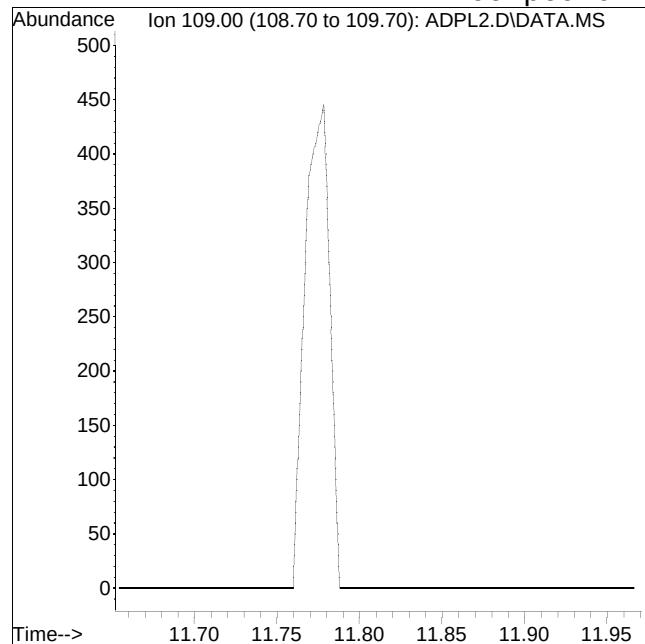
Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

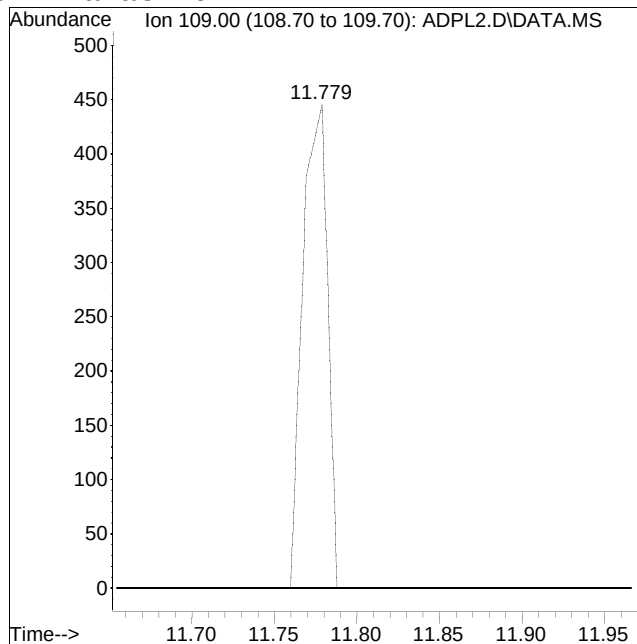
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ADPL2.D Operator : SV106:ljg
Date Inj'd : 3/12/2025 5:43 am Instrument : SV 106
Sample : IL9,32,,ADPL0.2 Lot# 11450 Quant Date : 3/12/2025 10:28 am

Compound #102: Parathion



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 464 M2

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ADPL1.D
 Acq On : 12 Mar 2025 6:06 am
 Operator : SV106:ljb
 Sample : IL10,32,,ADPL0.1 Lot# 11451
 Misc : WG2039658,,ical
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Mar 12 10:27:08 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:28:07 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	53575	4.000	ug/ml	0.00
Standard Area 2 = 58261			Recovery =	91.96%		
86) IS3_Acenaphthene-d10	9.550	164	112878	4.000	ug/ml	0.00
Standard Area 2 = 127382			Recovery =	88.61%		
100) IS3_Phenanthrene-d10	10.988	188	227259	4.000	ug/ml	0.00
Standard Area 2 = 266366			Recovery =	85.32%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.753	88	924	0.126	ug/ml#	72
34) n-Decane	6.249	57	2471	0.109	ug/ml#	29
87) Atrazine	10.760	200	1048	0.102	ug/ml#	33
101) n-Octadecane	10.972	57	2641	0.102	ug/ml#	1
102) Parathion	11.778	109	346M2	0.223	ug/ml	
103) 3,3'-Dimethylbenzidine	0.000		0	N.D.		

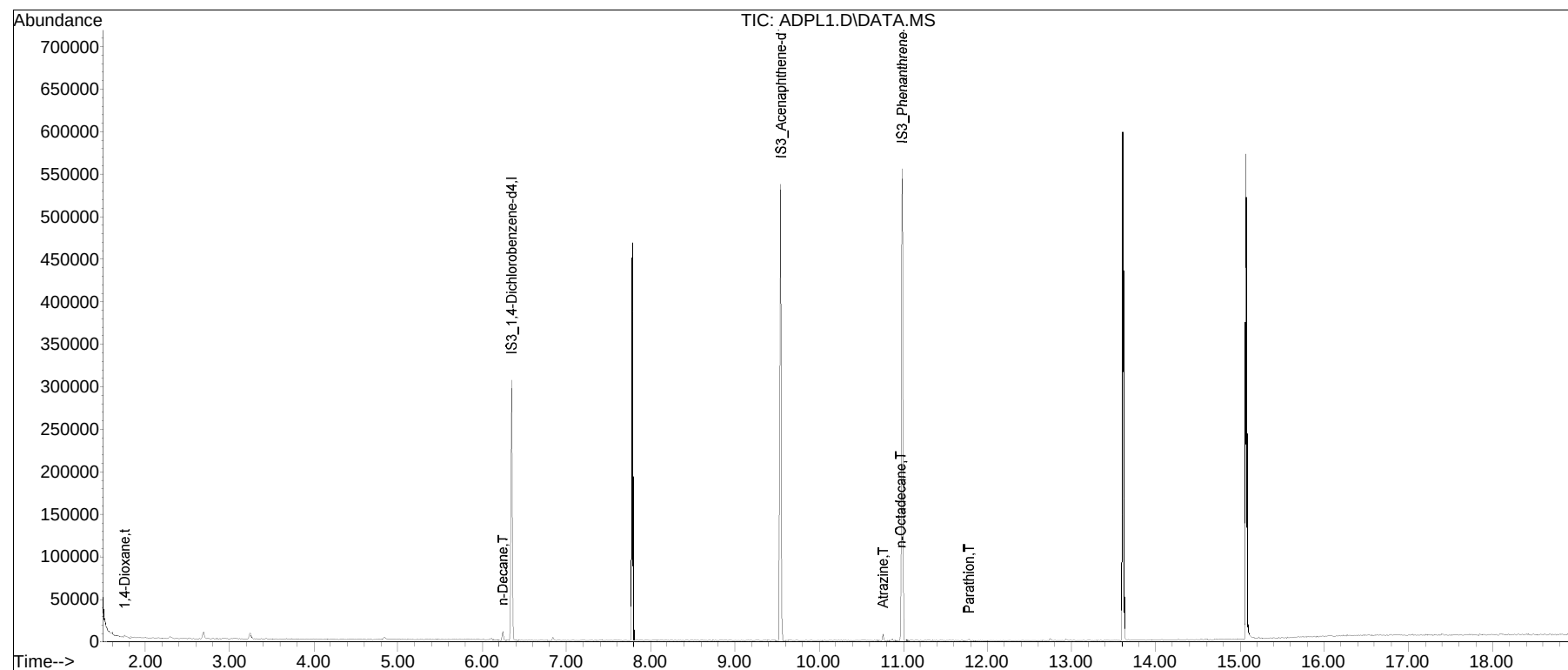
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ADPL1.D
 Acq On : 12 Mar 2025 6:06 am
 Operator : SV106:ljj
 Sample : IL10,32,,ADPL0.1 Lot# 11451
 Misc : WG2039658,,ical
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Mar 12 10:27:08 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 10:28:07 2025
 Response via : Initial Calibration

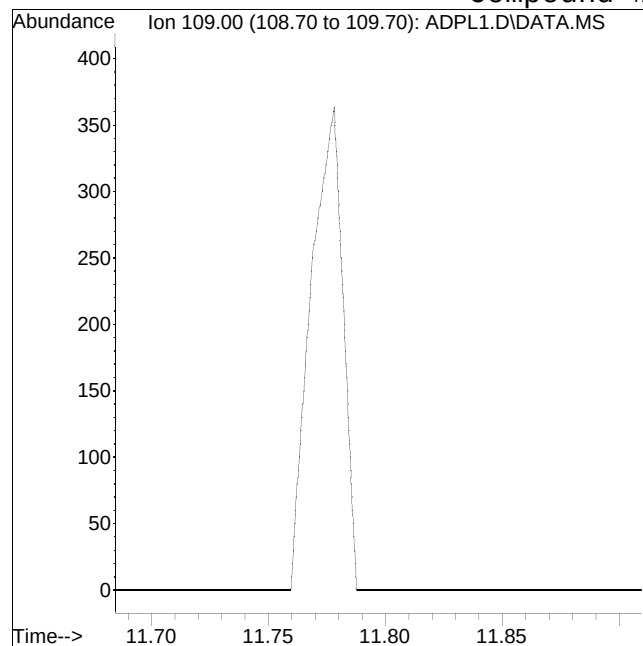
Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

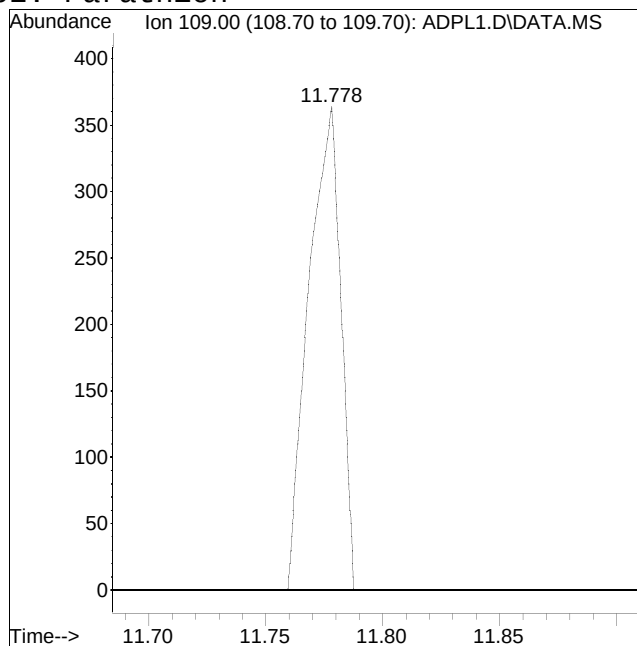
Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ADPL1.D Operator : SV106:ljg
Date Inj'd : 3/12/2025 6:06 am Instrument : SV 106
Sample : IL10,32,,ADPL0.1 Lot# 1145Quant Date : 3/12/2025 10:28 am

Compound #102: Parathion



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 346 M2

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9ICV.D
 Acq On : 12 Mar 2025 6:30 am
 Operator : SV106:ljj
 Sample : CQICV2,32,,AP9ICV Lot# 11453
 Misc : WG2039658,,ical
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 12 12:20:59 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 12:21:58 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	89	0.00
28 T	Benzaldehyde	0.954	1.172	-22.9#	110	0.00
29 T	Acetophenone	1.646	2.003	-21.7#	107	0.00
30 T	m-Toluidine	1.514	1.919	-26.8#	109	0.00
31 T	2-Chloroaniline	1.481	1.814	-22.5#	109	0.00
55 I	IS2_Naphthalene-d8	1.000	1.000	0.0	87	0.00
56 T	a-Terpineol	0.275	0.319	-16.0	102	0.00
57 T	3-Chloroaniline	0.139	0.177	-27.3#	110	0.00
58 T	2,6-Dichlorophenol	0.270	0.313	-15.9	103	0.00
59 T	1-chloro-2-nitrobenzene	0.108	0.123	-13.9	102	0.00
60 T	Caprolactam	0.165	0.173	-4.8	101	0.00
61 T	1,2,4,5-Tetrachlorobenzene	0.401	0.476	-18.7	108	0.00
62 T	Biphenyl	0.885	1.054	-19.1	108	0.00
83 I	IS2_Acenaphthene-d10	1.000	1.000	0.0	83	0.00
84 T	Dichloran	* 5.000	5.546	-10.9	99	0.00
85 T	Pentachloronitrobenzene	0.144	0.161	-11.8	102	0.00
98 I	IS2_Phenanthrene-d10	1.000	1.000	0.0	84	0.00
99 T	Diphenamid	0.413	0.528	-27.8#	104	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\250311RVTical\
 Data File : AP9ICV.D
 Acq On : 12 Mar 2025 6:30 am
 Operator : SV106:ljl
 Sample : CQICV2,32,,AP9ICV Lot# 11453
 Misc : WG2039658,,ical
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 12 12:20:59 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 12:21:58 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.351	152	50080	4.000	ug/ml	0.00
Standard Area 3 = 56555			Recovery =	88.55%		
55) IS2_Naphthalene-d8	7.783	136	184384	4.000	ug/ml	# 0.00
Standard Area 3 = 212446			Recovery =	86.79%		
83) IS2_Acenaphthene-d10	9.550	164	109241	4.000	ug/ml	0.00
Standard Area 3 = 130976			Recovery =	83.41%		
98) IS2_Phenanthrene-d10	10.988	188	223243	4.000	ug/ml	# 0.00
Standard Area 3 = 265623			Recovery =	84.05%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	5.765	105	73385	6.146	ug/ml	94
29) Acetophenone	6.852	105	125365	6.085	ug/ml#	88
30) m-Toluidine	6.957	106	120144	6.337	ug/ml	95
31) 2-Chloroaniline	7.363	127	113544	6.125	ug/ml#	94
56) a-Terpineol	7.862	59	73543	5.806	ug/ml#	86
57) 3-Chloroaniline	7.869	65	40890	6.361	ug/ml	89
58) 2,6-Dichlorophenol	7.898	162	72072	5.790	ug/ml#	87
59) 1-chloro-2-nitrobenzene	8.164	111	28322	5.690	ug/ml#	1
60) Caprolactam	8.207	55	39903	5.259	ug/ml#	88
61) 1,2,4,5-Tetrachloroben...	8.701	216	109727	5.929	ug/ml	98
62) Biphenyl	9.001	154	242983	5.954	ug/ml	98
84) Dichloran	10.685	206	17393	5.546	ug/ml#	74
85) Pentachloronitrobenzene	10.836	237	22043	5.610	ug/ml#	79
99) Diphenamid	11.901	167	147216	6.390	ug/ml#	79

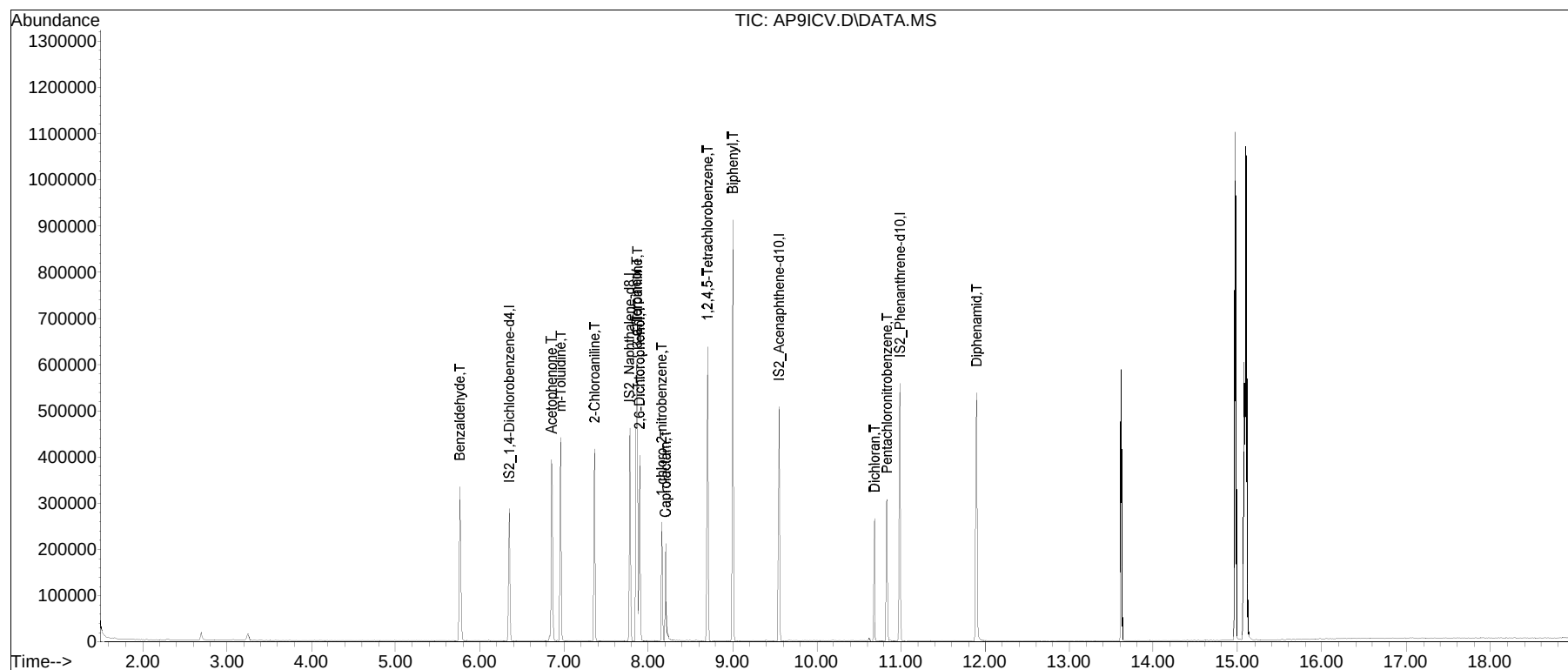
(#) = qualifier out of range (m) = manual integration (+) = signals summed

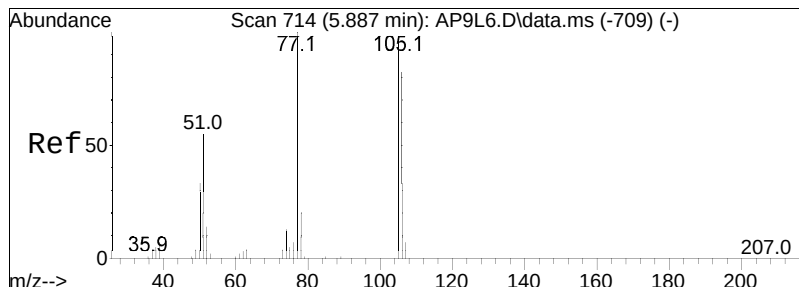
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
 Data File : AP9ICV.D
 Acq On : 12 Mar 2025 6:30 am
 Operator : SV106:ljj
 Sample : CQICV2,32,,AP9ICV Lot# 11453
 Misc : WG2039658,,ical
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 12 12:20:59 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 12:21:58 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•





#28

Benzaldehyde

Concen: 6.15 ug/ml

RT: 5.765 min Scan# 592

Delta R.T. 0.001 min

Lab File: AP9ICV.D

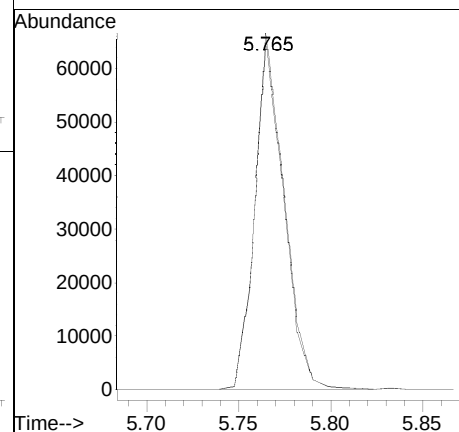
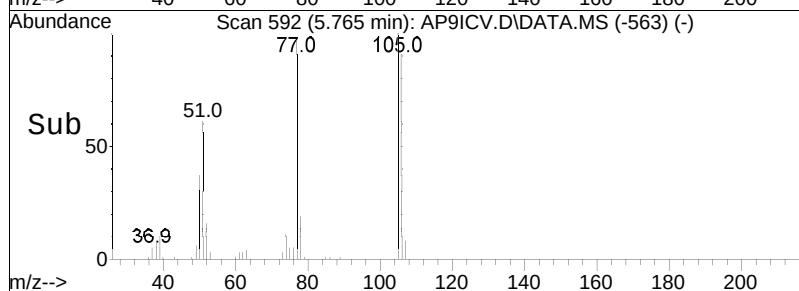
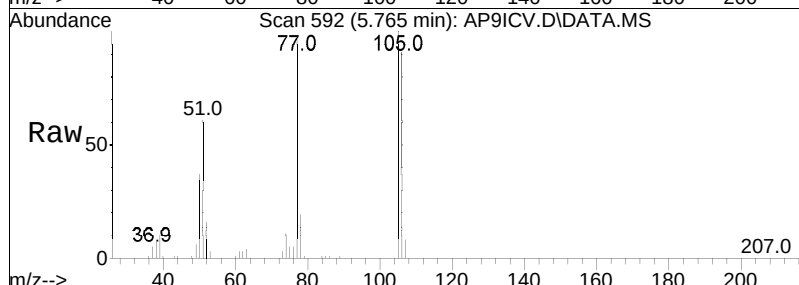
Acq: 12 Mar 2025 6:30 am

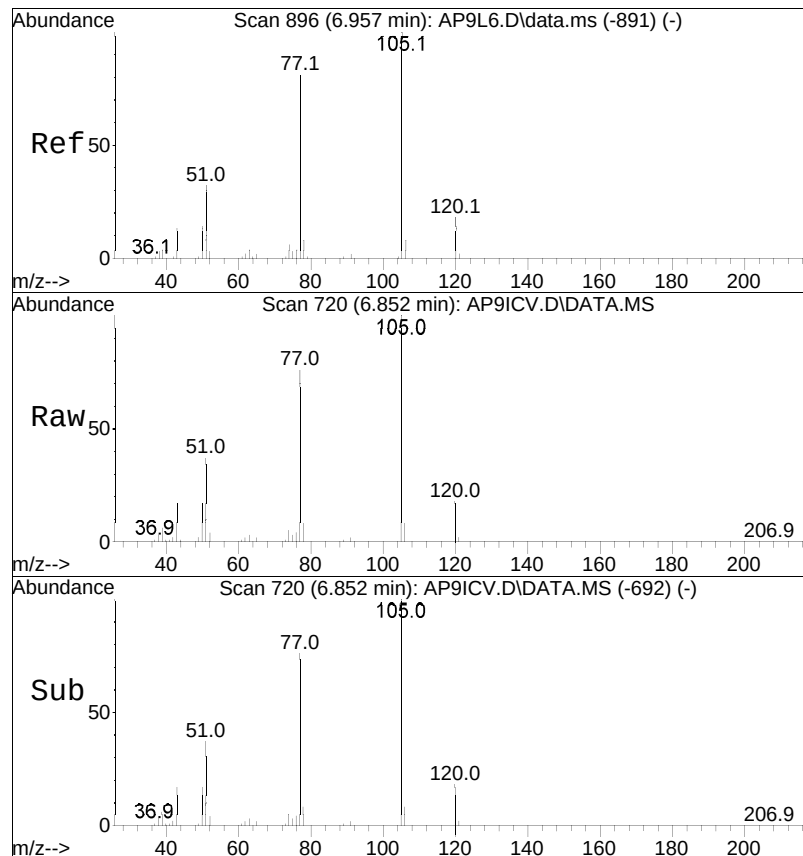
Tgt Ion:105 Resp: 73385

Ion Ratio Lower Upper

105 100

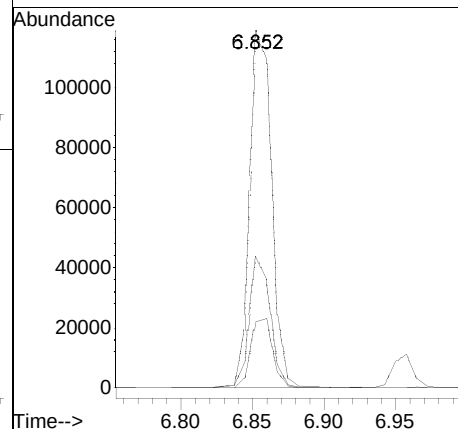
77 97.1 82.2 123.4

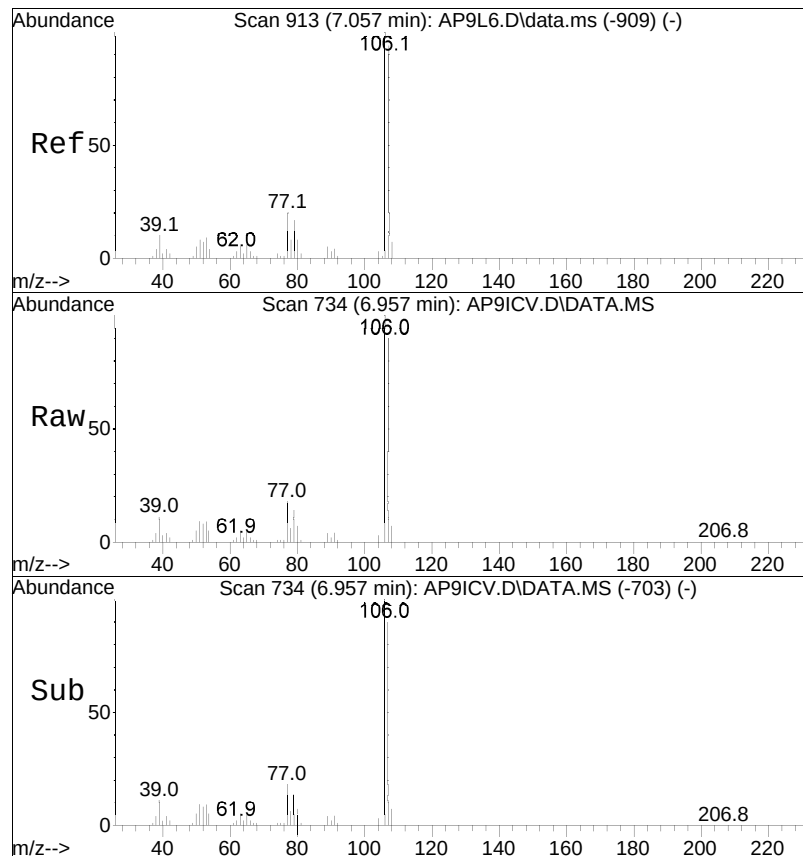




#29
 Acetophenone
 Concen: 6.08 ug/ml
 RT: 6.852 min Scan# 720
 Delta R.T. -0.008 min
 Lab File: AP9ICV.D
 Acq: 12 Mar 2025 6:30 am

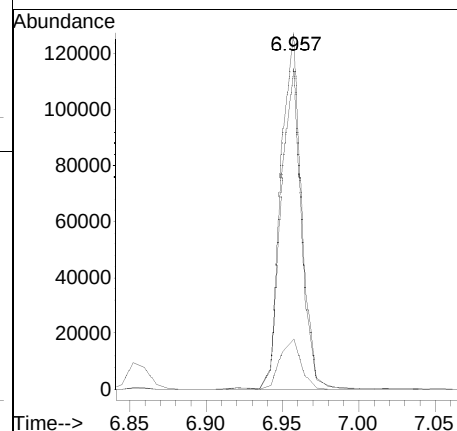
Tgt Ion:	105	Resp:	125365
Ion Ratio	Lower	Upper	
105	100		
120	19.5	20.5	30.7#
51	36.2	34.9	52.3

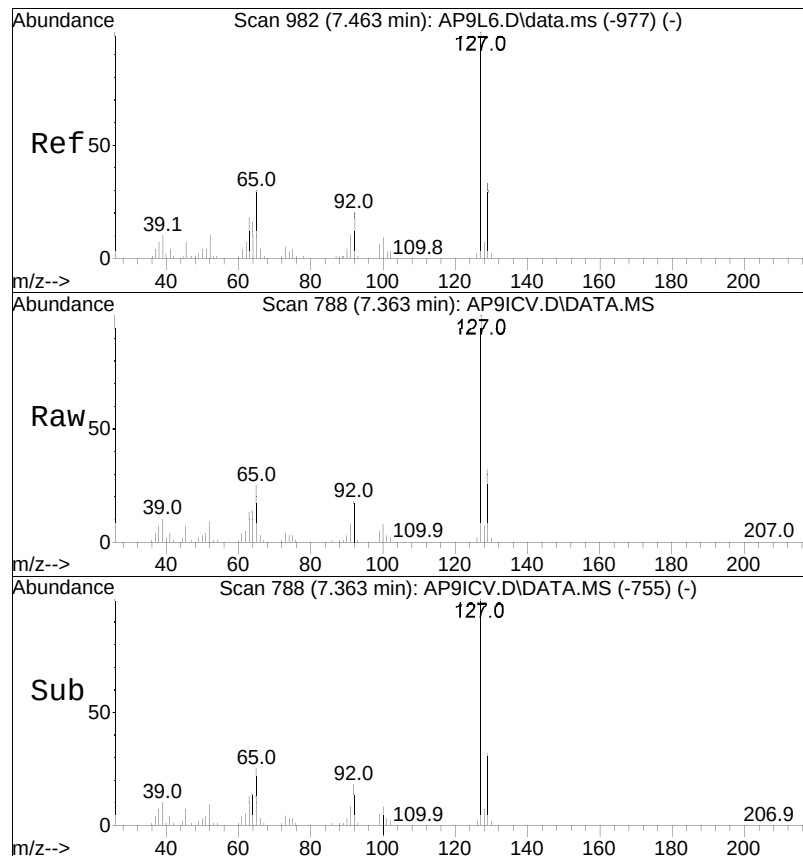




#30
 m-Toluidine
 Concen: 6.34 ug/ml
 RT: 6.957 min Scan# 734
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 12 Mar 2025 6:30 am

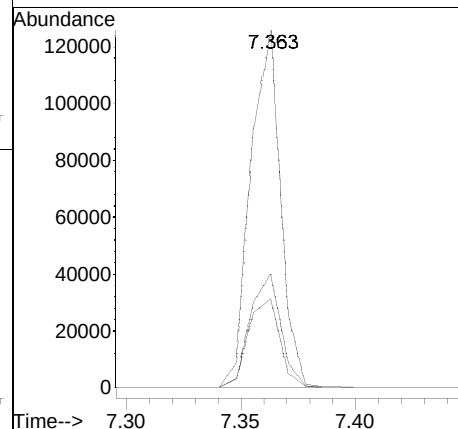
Tgt Ion	Ratio	Lower	Upper
106	100		
107	88.8	75.7	113.5
79	14.4	11.8	17.8

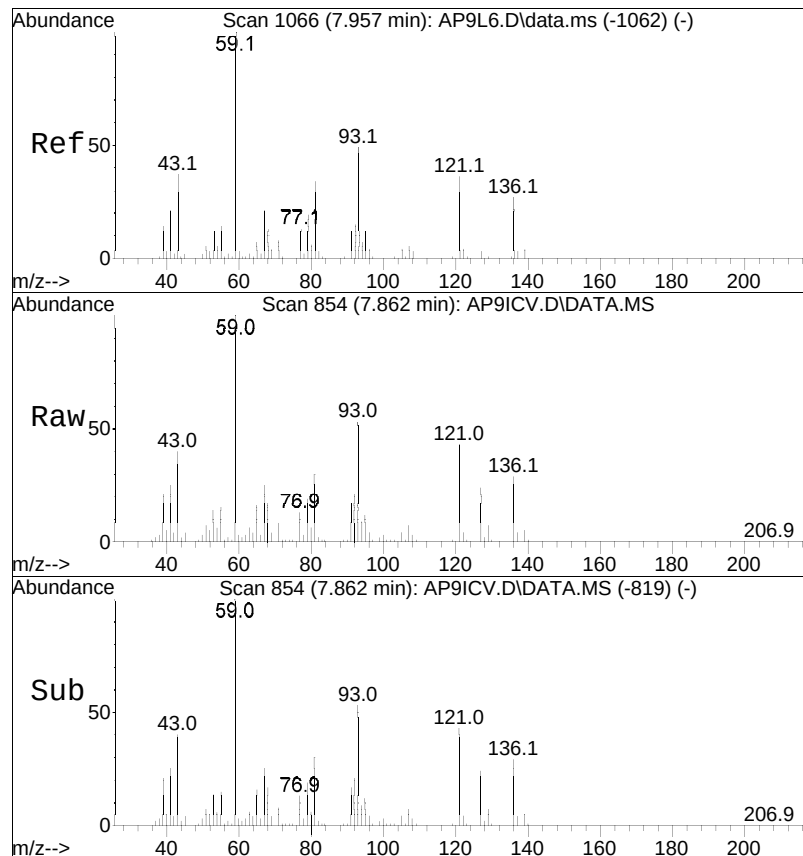




#31
 2-Chloroaniline
 Concen: 6.12 ug/ml
 RT: 7.363 min Scan# 788
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 12 Mar 2025 6:30 am

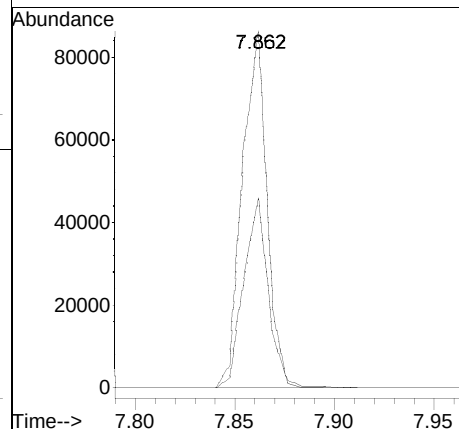
Tgt Ion:	127	Resp:	113544
Ion Ratio	Lower	Upper	
127	100		
129	32.6	25.9	38.9
65	26.2	26.3	39.5#

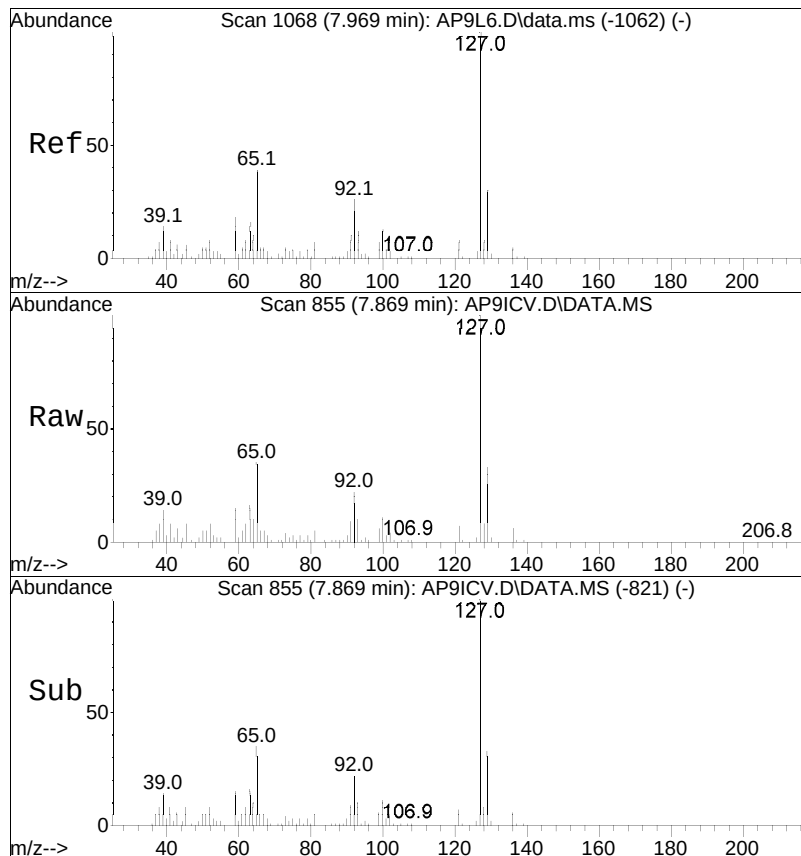




#56
a-Terpineol
Concen: 5.81 ug/ml
RT: 7.862 min Scan# 854
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

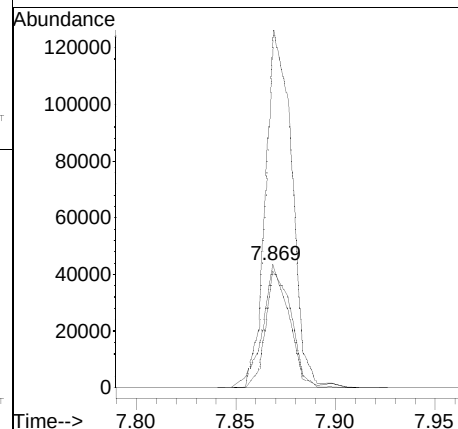
Tgt Ion:	59	93	Ratio	100	53.7	Resp:	73543	Lower	Upper
								35.6	53.4#

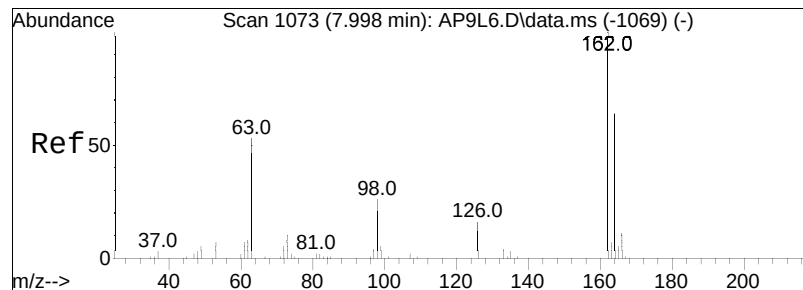




#57
 3-Chloroaniline
 Concen: 6.36 ug/ml
 RT: 7.869 min Scan# 855
 Delta R.T. -0.007 min
 Lab File: AP9ICV.D
 Acq: 12 Mar 2025 6:30 am

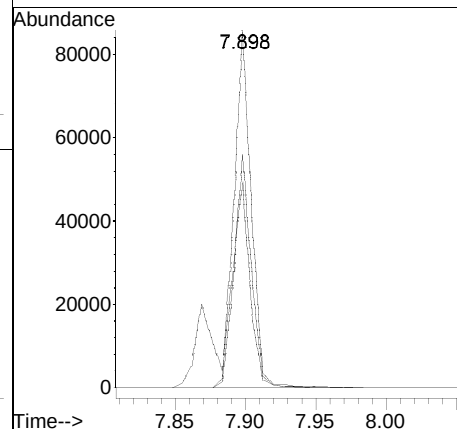
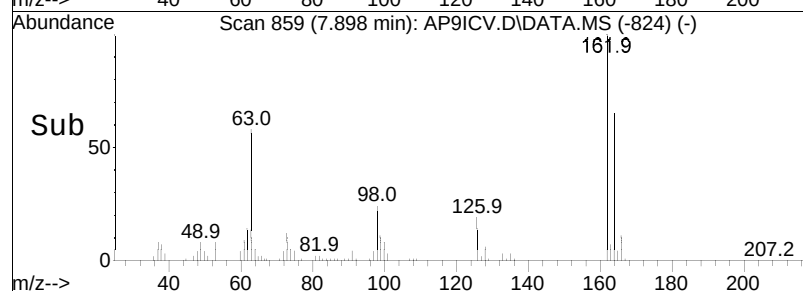
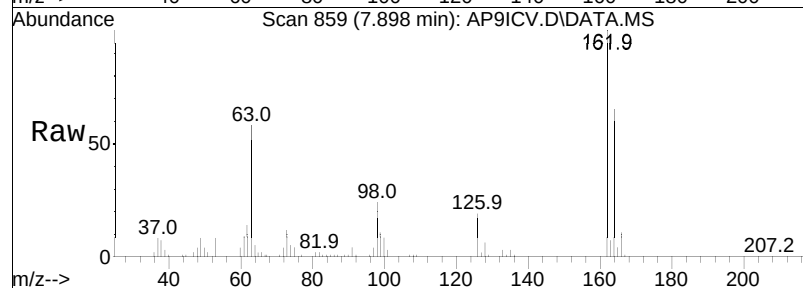
Tgt Ion:	65	Resp:	40890
Ion Ratio	Lower	Upper	
65	100		
127	281.3	243.2	364.8
129	91.0	78.8	118.2

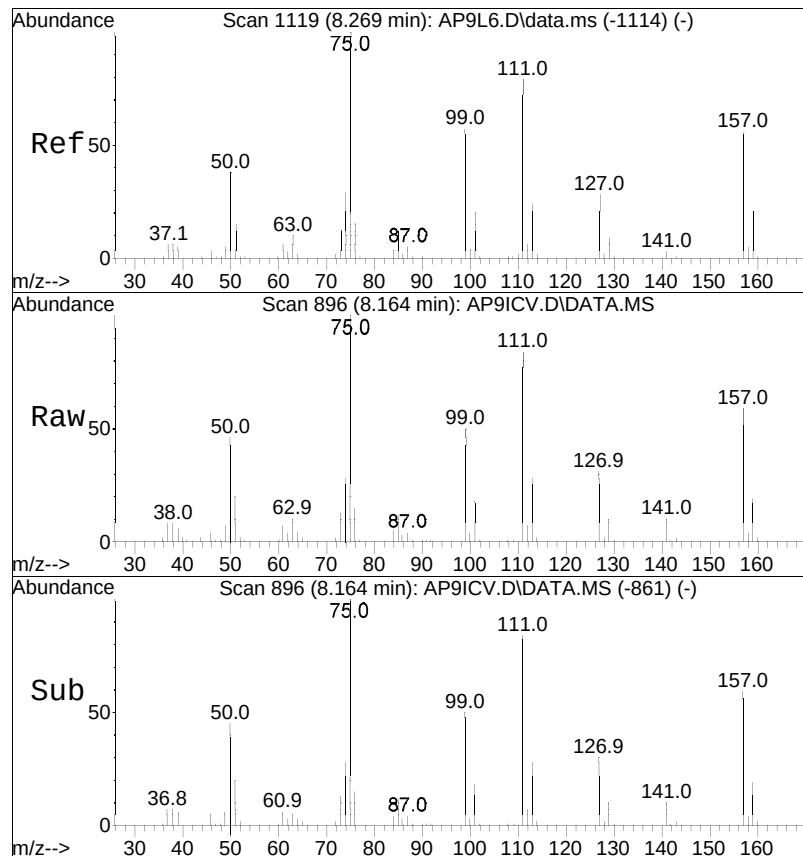




#58
 2,6-Dichlorophenol
 Concen: 5.79 ug/ml
 RT: 7.898 min Scan# 859
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 12 Mar 2025 6:30 am

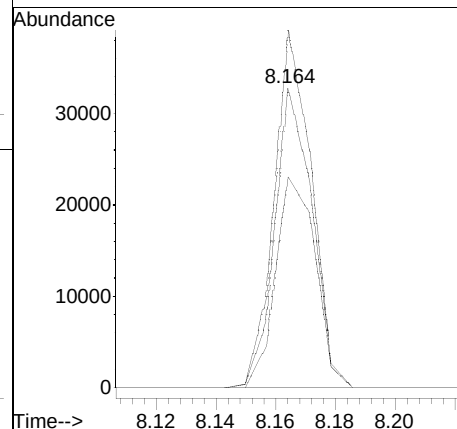
Tgt Ion	Ratio	Lower	Upper
162	100		
164	64.9	51.1	76.7
63	56.6	60.8	91.2

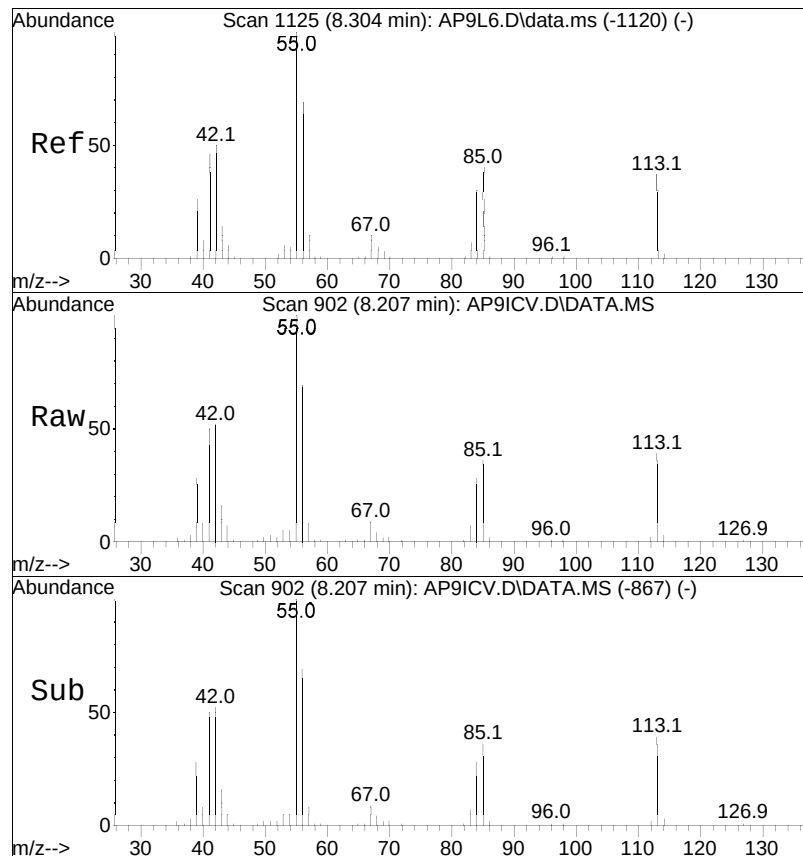




#59
 1-chloro-2-nitrobenzene
 Concen: 5.69 ug/ml
 RT: 8.164 min Scan# 896
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 12 Mar 2025 6:30 am

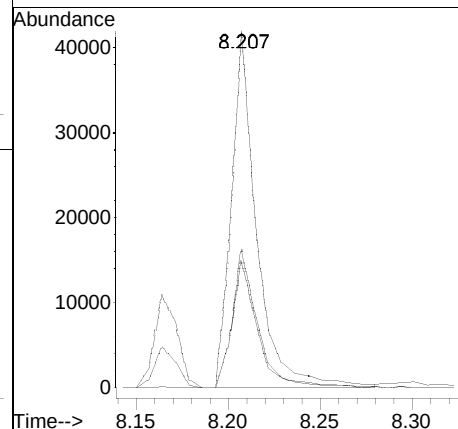
Tgt Ion:	111	Resp:	28322
Ion Ratio	Lower	Upper	
111	100		
157	75.0	0.0	0.0#
75	118.1	28.2	42.2#

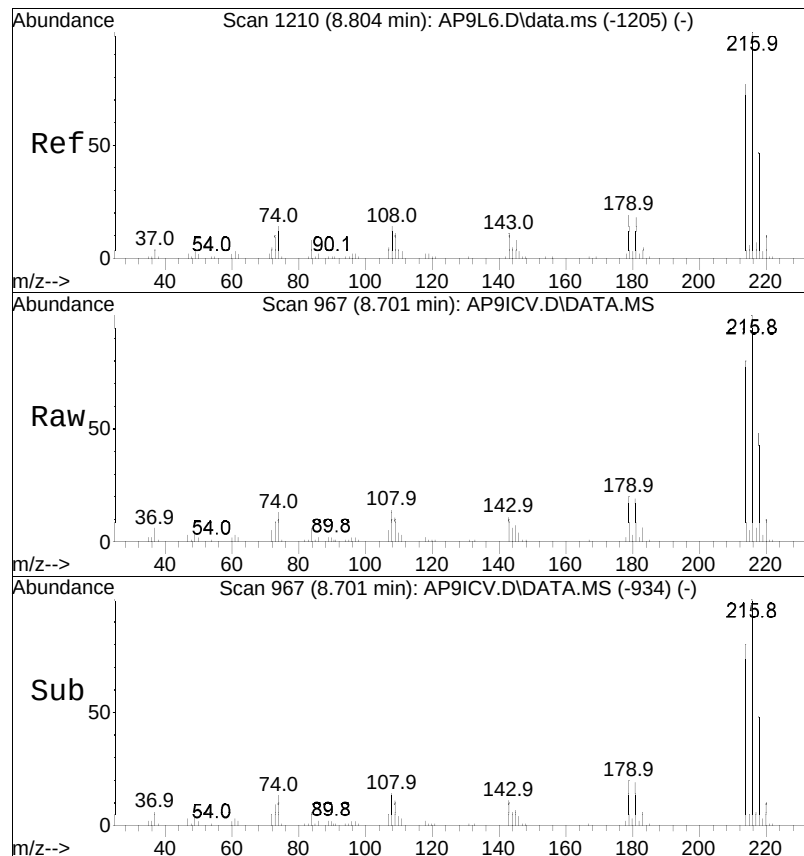




#60
 Caprolactam
 Concen: 5.26 ug/ml
 RT: 8.207 min Scan# 902
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 12 Mar 2025 6:30 am

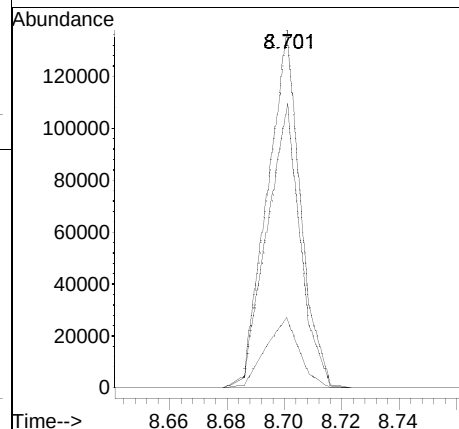
Tgt	Ion: 55	Resp:	39903
Ion	Ratio	Lower	Upper
55	100		
85	36.4	19.8	29.6#
113	39.9	29.6	44.4

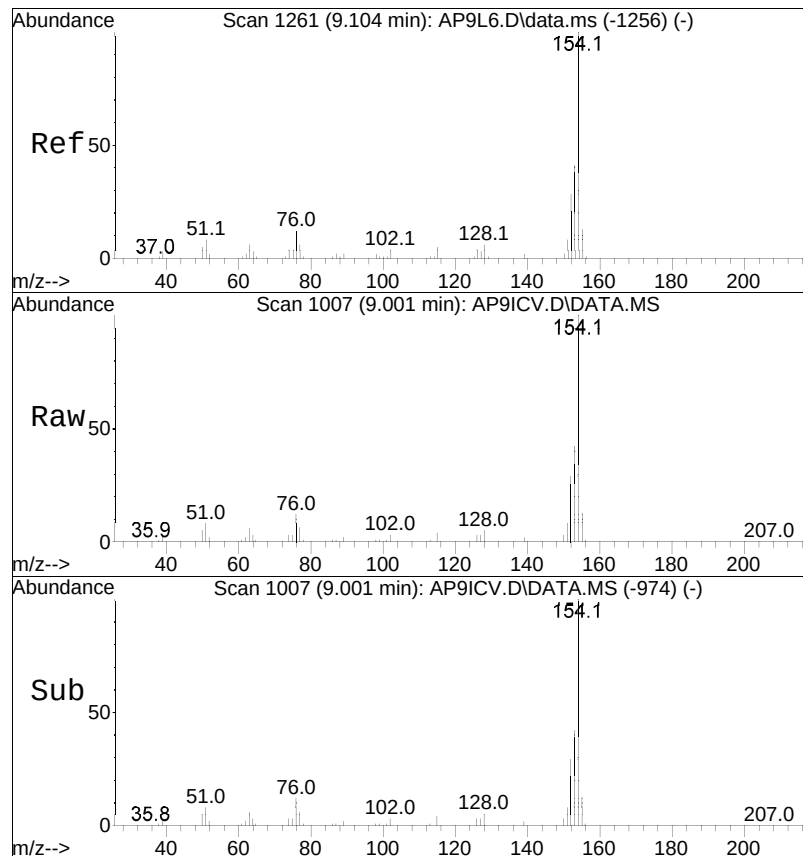




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 5.93 ug/ml
 RT: 8.701 min Scan# 967
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 12 Mar 2025 6:30 am

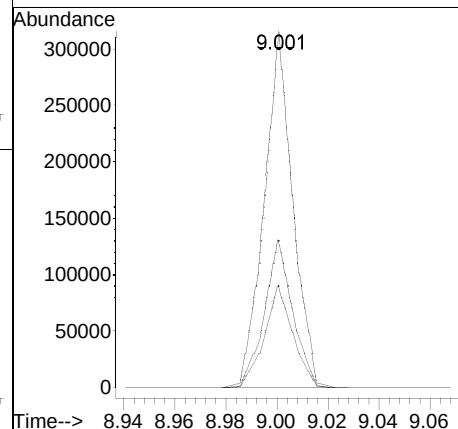
Tgt	Ion:216	Resp:	109727
Ion	Ratio	Lower	Upper
216	100		
214	80.1	63.7	95.5
179	20.0	19.0	28.6

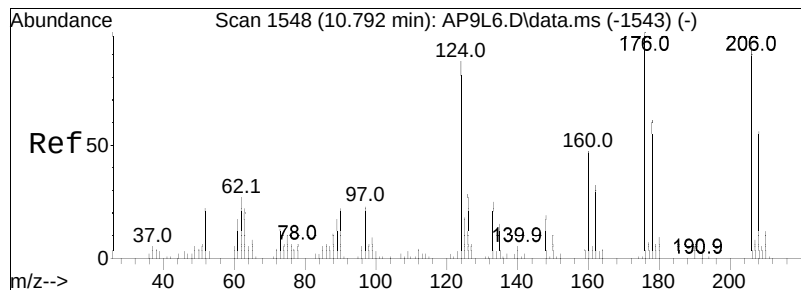




#62
 Biphenyl
 Concen: 5.95 ug/ml
 RT: 9.001 min Scan# 1007
 Delta R.T. 0.001 min
 Lab File: AP9ICV.D
 Acq: 12 Mar 2025 6:30 am

Tgt Ion:	154	Resp:	242983
Ion Ratio	Lower	Upper	
154	100		
153	41.5	32.3	48.5
152	29.0	22.5	33.7





#84

Dichloran

Concen: 5.55 ug/ml

RT: 10.685 min Scan# 1210

Delta R.T. -0.000 min

Lab File: AP9ICV.D

Acq: 12 Mar 2025 6:30 am

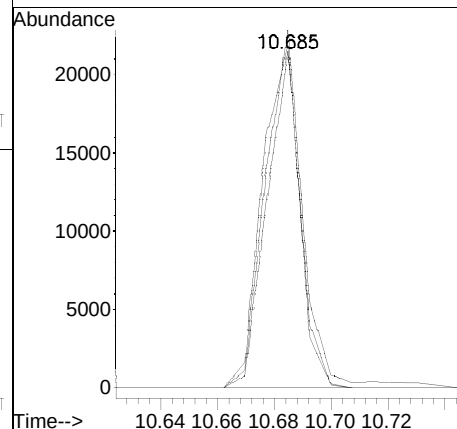
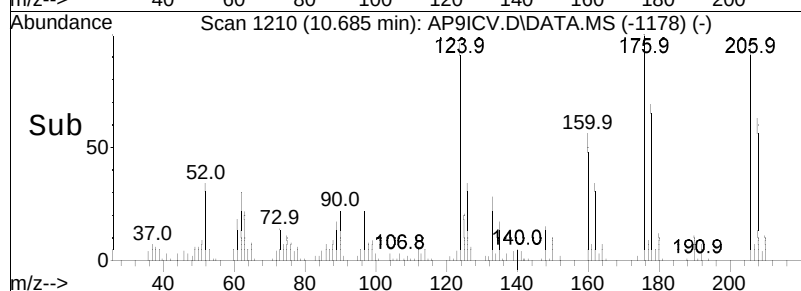
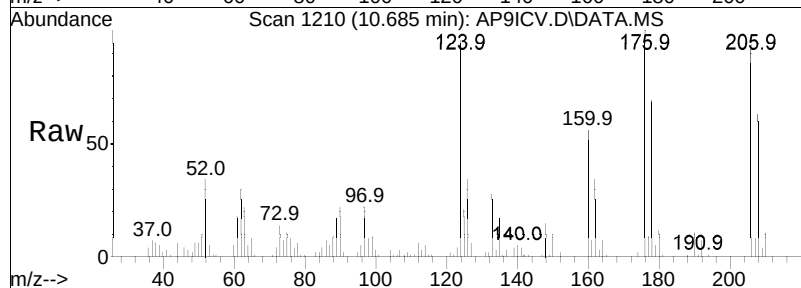
Tgt Ion: 206 Resp: 17393

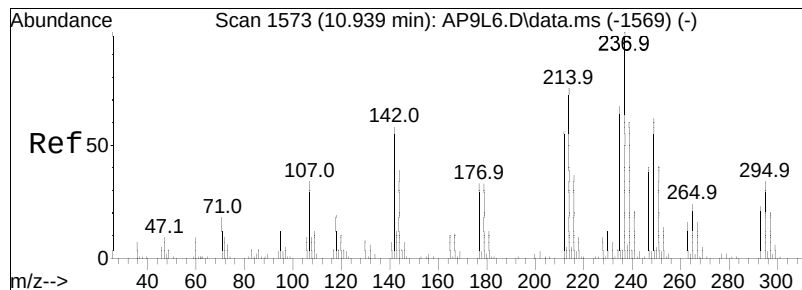
Ion Ratio Lower Upper

206 100

176 118.6 104.6 157.0

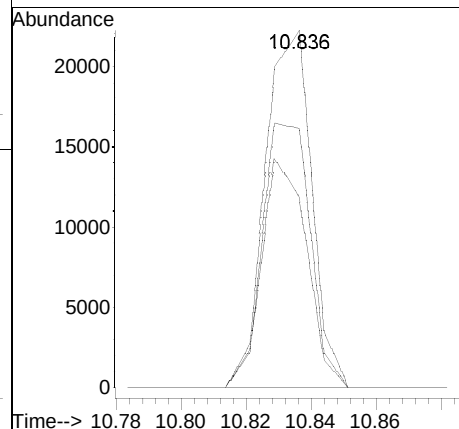
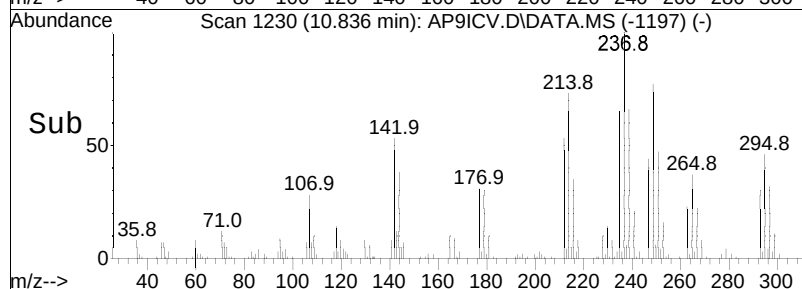
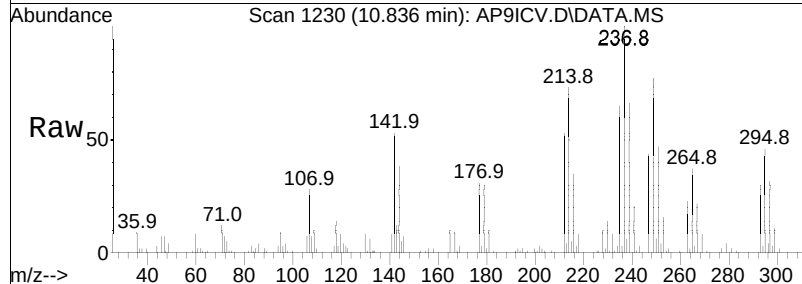
124 112.2 130.5 195.7#

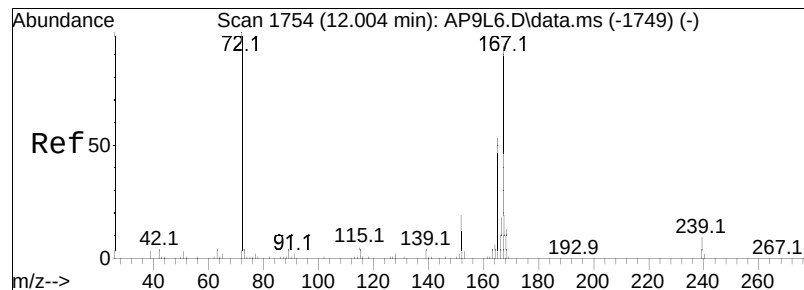




#85
 Pentachloronitrobenzene
 Concen: 5.61 ug/ml
 RT: 10.836 min Scan# 1230
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 12 Mar 2025 6:30 am

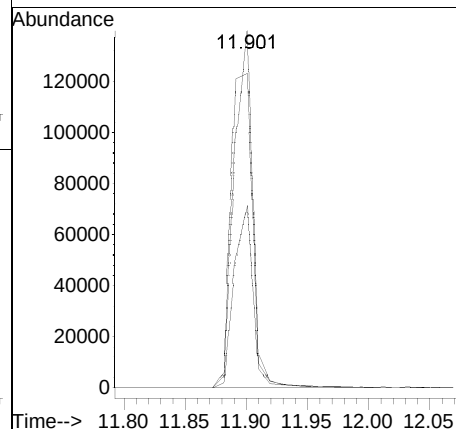
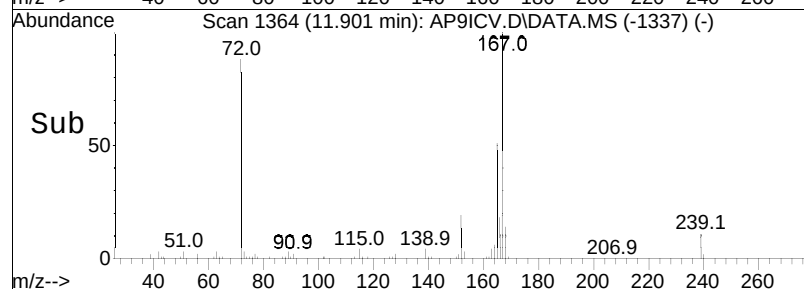
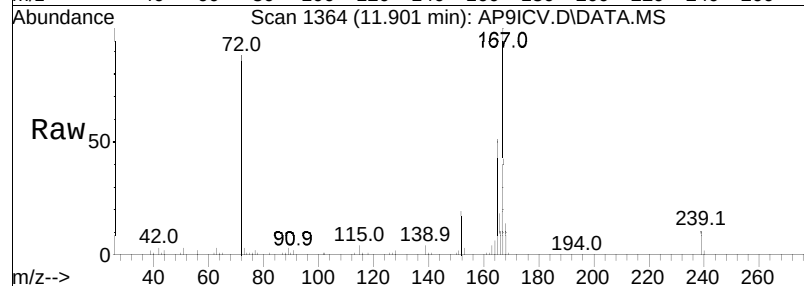
Tgt Ion	Ratio	Lower	Upper
237	100		
142	62.4	77.0	115.4#
214	76.4	58.2	87.4





#99
Diphenamid
Concen: 6.39 ug/ml
RT: 11.901 min Scan# 1364
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion	Ratio	Lower	Upper
167	100		
72	102.5	109.7	164.5#
165	52.9	41.8	62.6



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9ICV.D Operator : SV106:ljb
Date Inj'd : 3/12/2025 6:30 am Instrument : SV 106
Sample : CQICV2,32,,AP9ICV Lot# 114Quant Date : 3/12/2025 12:21 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250311RVTical\
 Data File : ADPICV.D
 Acq On : 12 Mar 2025 6:53 am
 Operator : SV106:ljb
 Sample : CQICV,32,,ADPICV Lot# 11454
 Misc : WG2039658,,ical
 ALS Vial : 36 Sample Multiplier: 1

Quant Time: Mar 12 12:20:50 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 12:21:49 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	90	-0.02
33 t	1,4-Dioxane	0.548	0.490	10.6	95	-0.01
34 T	n-Decane	1.700	1.734	-2.0	100	-0.02
86 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	91	-0.02
87 T	Atrazine	0.366	0.339	7.4	92	-0.02
100 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	92	-0.02
101 T	n-Octadecane	0.458	0.469	-2.4	98	-0.02
102 T	Parathion	* 5.000	4.964	0.7	90	-0.02
103 T	3,3'-Dimethylbenzidine	* 5.000	4.470	10.6	94	-0.03

* 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\250311RVTical\
 Data File : ADPICV.D
 Acq On : 12 Mar 2025 6:53 am
 Operator : SV106:ljb
 Sample : CQICV,32,,ADPICV Lot# 11454
 Misc : WG2039658,,ical
 ALS Vial : 36 Sample Multiplier: 1

Quant Time: Mar 12 12:20:50 2025
 Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 12 12:21:49 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
 : 2 - I:\8270\SV106\250311RVTical\ADPL6.D
 : 3 - I:\8270\SV106\250311RVTical\AP9L6.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	52682	4.000	ug/ml	-0.02
Standard Area 2 = 58261			Recovery	=	90.42%	
86) IS3_Acenaphthene-d10	9.550	164	115579	4.000	ug/ml	-0.02
Standard Area 2 = 127382			Recovery	=	90.73%	
100) IS3_Phenanthrene-d10	10.988	188	244485	4.000	ug/ml	#-0.02
Standard Area 2 = 266366			Recovery	=	91.79%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.746	88	32235	4.467	ug/ml#	62
34) n-Decane	6.249	57	114193	5.101	ug/ml#	37
87) Atrazine	10.760	200	48983	4.638	ug/ml	96
101) n-Octadecane	10.972	57	143247	5.118	ug/ml#	1
102) Parathion	11.778	109	17069	4.964	ug/ml#	92
103) 3,3'-Dimethylbenzidine	13.054	212	187467	4.470	ug/ml	100

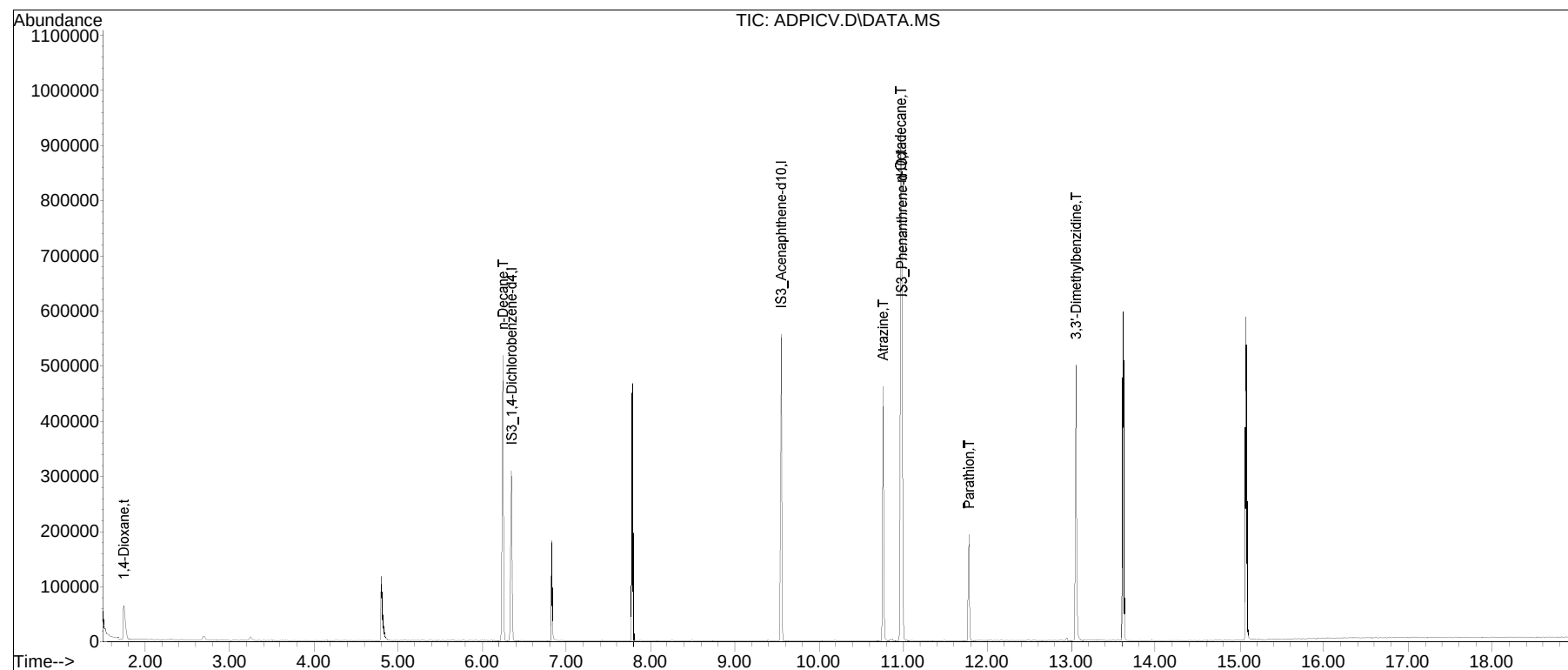
(#) = qualifier out of range (m) = manual integration (+) = signals summed

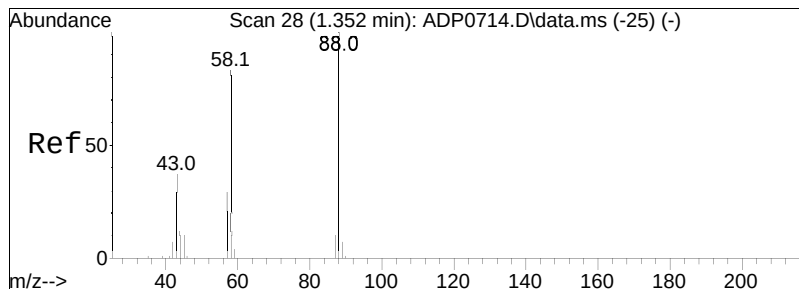
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPICV.D
Acq On : 12 Mar 2025 6:53 am
Operator : SV106:ljj
Sample : CQICV,32,,ADPICV Lot# 11454
Misc : WG2039658,,ical
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Mar 12 12:20:50 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 12:21:49 2025
Response via : Initial Calibration

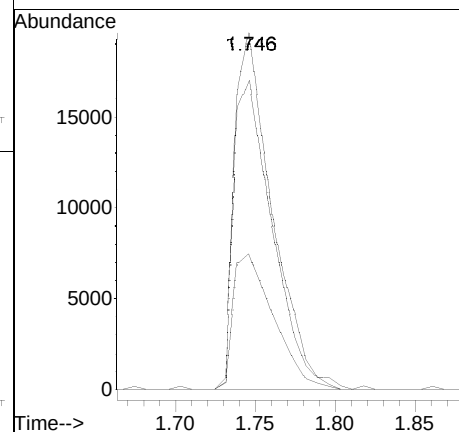
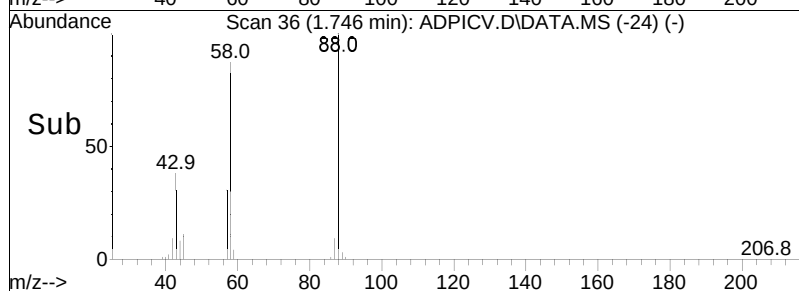
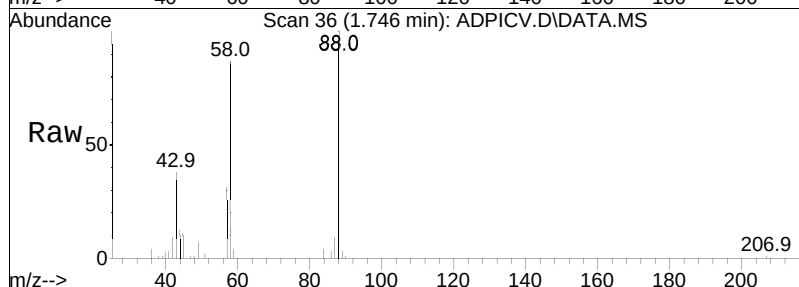
Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•

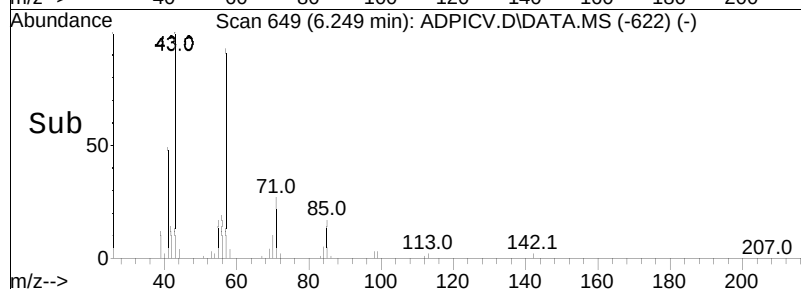
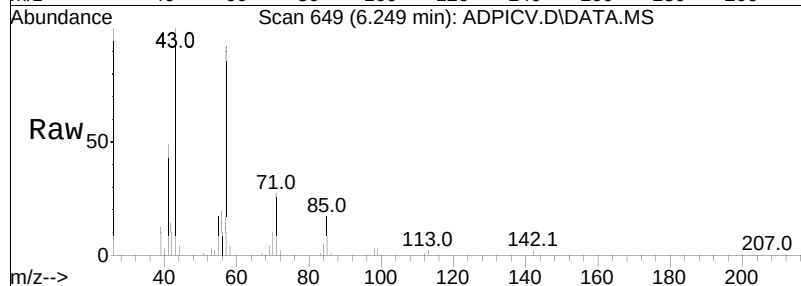
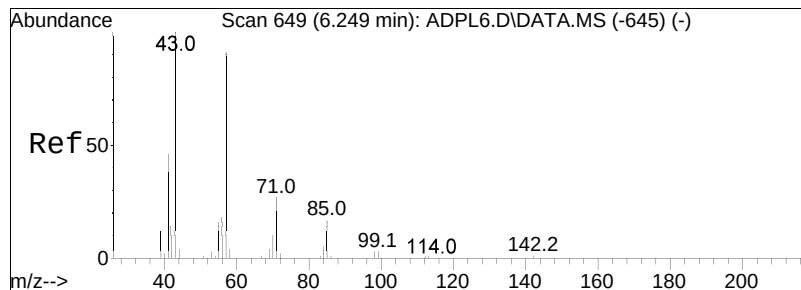




#33
 1,4-Dioxane
 Concen: 4.47 ug/ml
 RT: 1.746 min Scan# 36
 Delta R.T. -0.014 min
 Lab File: ADPICV.D
 Acq: 12 Mar 2025 6:53 am

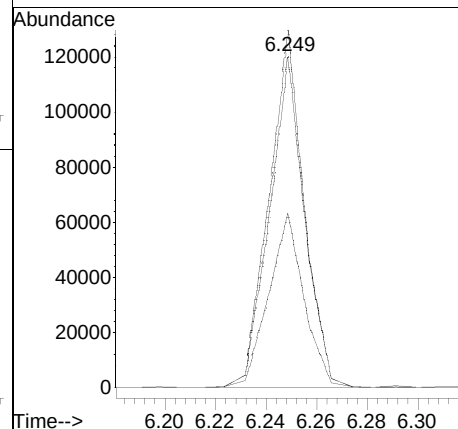
Tgt Ion: 88 Resp: 32235
 Ion Ratio Lower Upper
 88 100
 58 88.4 44.8 67.2#
 43 40.7 22.4 33.6#

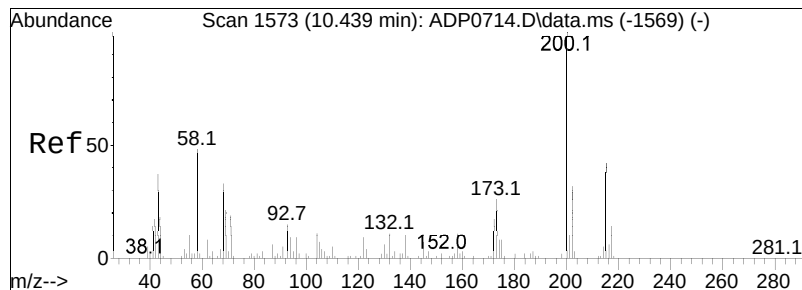




#34
 n-Decane
 Concen: 5.10 ug/ml
 RT: 6.249 min Scan# 649
 Delta R.T. -0.023 min
 Lab File: ADPICV.D
 Acq: 12 Mar 2025 6:53 am

Tgt Ion	Ratio	Lower	Upper
57	100		
43	108.0	0.2	0.2#
41	53.4	0.2	0.2#





#87

Atrazine

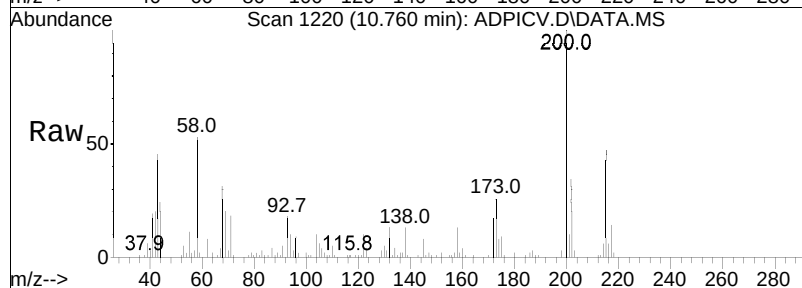
Concen: 4.64 ug/ml

RT: 10.760 min Scan# 1220

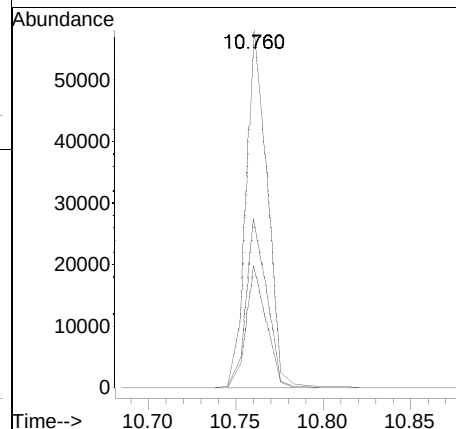
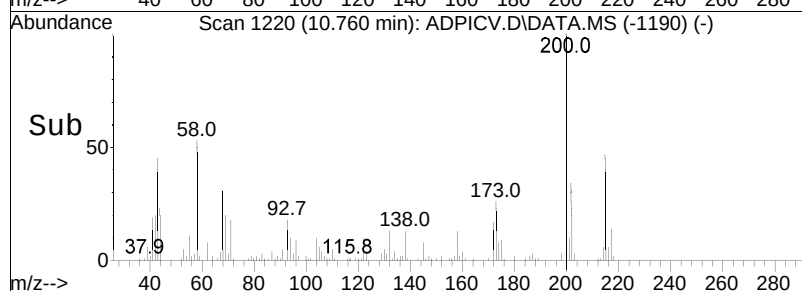
Delta R.T. -0.023 min

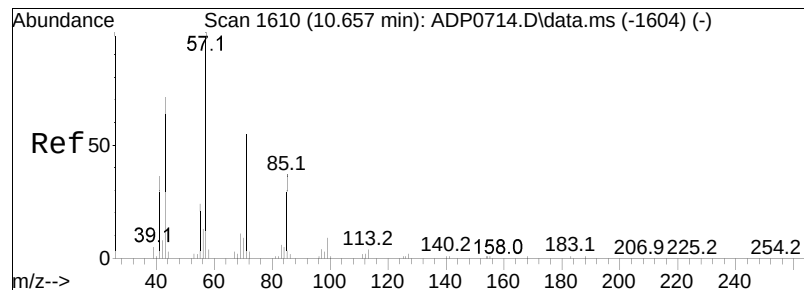
Lab File: ADPICV.D

Acq: 12 Mar 2025 6:53 am



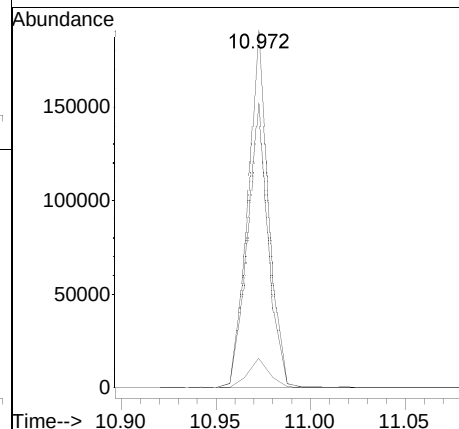
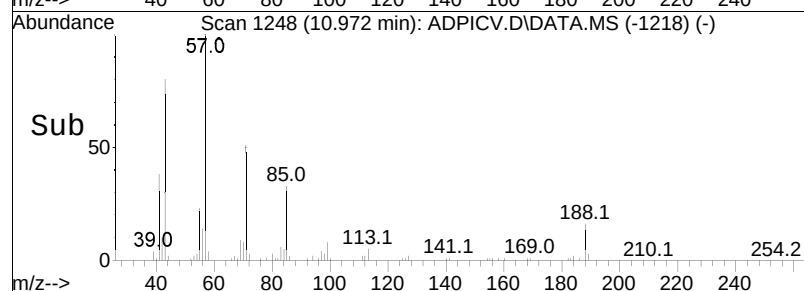
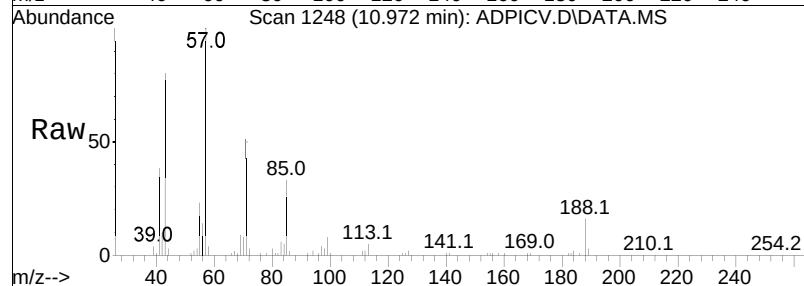
Tgt	Ion:200	Resp:	48983
Ion	Ratio	Lower	Upper
200	100		
202	32.4	25.8	38.6
215	45.9	40.2	60.4

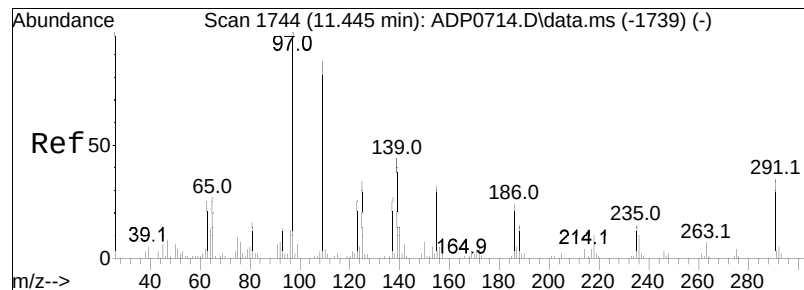




#101
 n-Octadecane
 Concen: 5.12 ug/ml
 RT: 10.972 min Scan# 1248
 Delta R.T. -0.023 min
 Lab File: ADPICV.D
 Acq: 12 Mar 2025 6:53 am

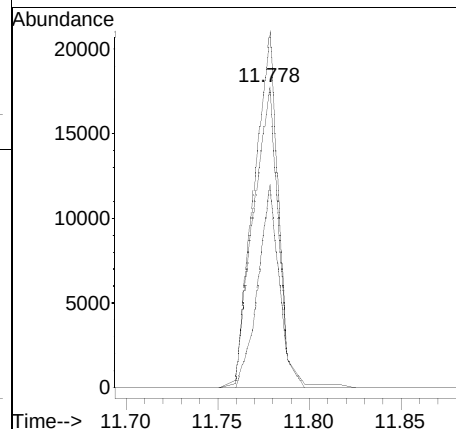
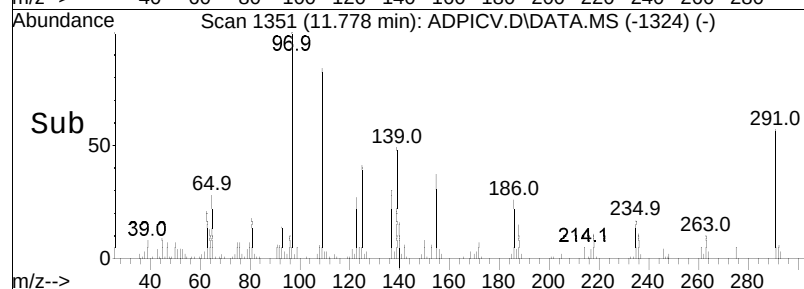
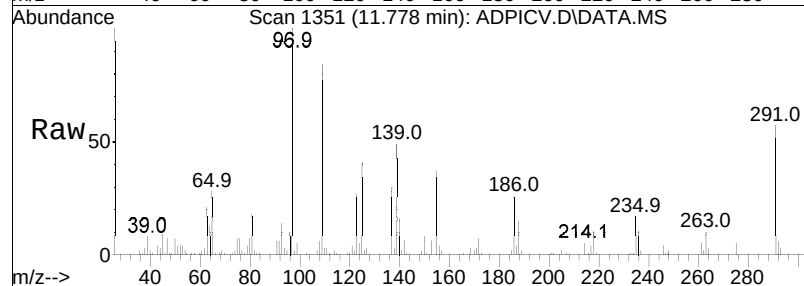
Tgt Ion	Ratio	Lower	Upper
57	100		
43	81.2	9.0	13.6#
70	8.5	0.2	0.2#

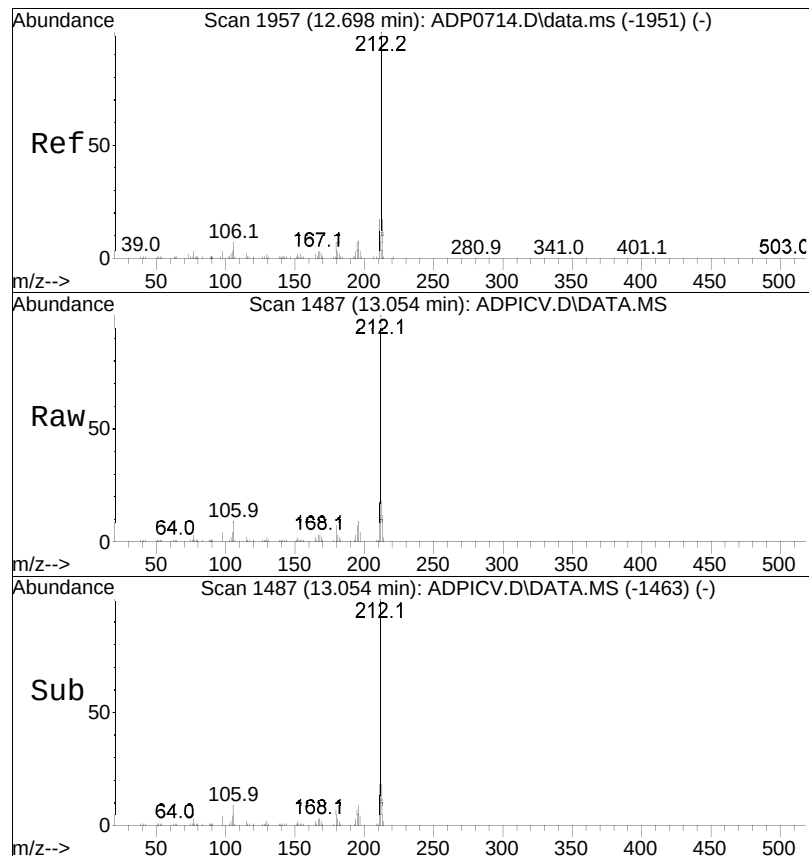




#102
 Parathion
 Concen: 4.96 ug/ml
 RT: 11.778 min Scan# 1351
 Delta R.T. -0.023 min
 Lab File: ADPICV.D
 Acq: 12 Mar 2025 6:53 am

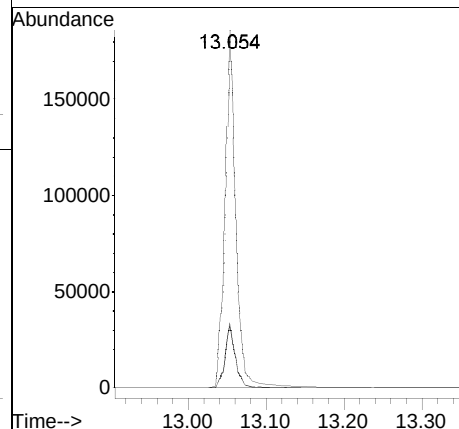
Tgt Ion	Ratio	Lower	Upper
109	100		
97	111.7	87.4	131.2
291	56.2	34.2	51.2#





#103
 3,3'-Dimethylbenzidine
 Concen: 4.47 ug/ml
 RT: 13.054 min Scan# 1487
 Delta R.T. -0.029 min
 Lab File: ADPICV.D
 Acq: 12 Mar 2025 6:53 am

Tgt Ion:	212	Resp:	187467
Ion Ratio	Lower	Upper	
212	100		
211	15.9	12.9	19.3
213	16.6	13.2	19.8



Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ADPICV.D Operator : SV106:l jg
Date Inj'd : 3/12/2025 6:53 am Instrument : SV 106
Sample : CQICV,32,,ADPICV Lot# 1145Quant Date : 3/12/2025 12:21 pm

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

Method Path : I:\8270\SV106\250311RVTical\
 Method File : FS250311SV106.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Mar 12 12:21:00 2025

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
37	T Benzoic Acid	Q	ug/ml	5.0	3.802	-24.0	0.50	0.700	40.0
49	T 1,4-Dinitrobenzene	Q	ug/ml	5.0	4.814	-3.7	0.20	0.128	-36.0
66	T 2,4-Dinitrophenol	Q	ug/ml	5.0	4.507	-9.9	0.10	0.139	39.0
68	T 2,4-Dinitrotoluene	Q	ug/ml	5.0	4.773	-4.5	0.10	0.134	34.0
76	T 4,6-Dinitro-o-cresol	L	ug/ml	5.0	4.279	-14.4	0.50	0.727	45.4
84	T Dichloran	L	ug/ml	5.0	4.973	-0.5	2.50	3.122	24.9
97	T Butyl benzyl phthalate	L	ug/ml	5.0	4.363	-12.7	0.50	0.710	42.0
102	T Parathion	Q	ug/ml	5.0	5.062	1.2	0.50	0.495	-1.0
103	T 3,3'-Dimethylbenzidine	L	ug/ml	5.0	4.389	-12.2	2.50	2.654	6.2
108	T Bis(2-ethylhexyl)phthalate	L	ug/ml	5.0	4.518	-9.6	0.20	0.289	44.5
109	T Di-n-octylphthalate	L	ug/ml	5.0	4.299	-14.0	0.50	0.725	45.0

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
37	T Benzoic Acid	Quadratic	0.997895	0.017298	0.118996	-0.00334956
49	T 1,4-Dinitrobenzene	Quadratic	0.999966	0.007385	0.00642516	0.000488527
66	T 2,4-Dinitrophenol	Quadratic	0.995642	0.003294	0.128885	-0.00332982
68	T 2,4-Dinitrotoluene	Quadratic	0.997850	0.012914	0.33636	-0.00539953
76	T 4,6-Dinitro-o-cresol	Linear	0.992945	0.000000	0.227666	-0.0237378
84	T Dichloran	Linear	0.998600	0.000000	0.173737	-0.0816857
97	T Butyl benzyl phthalate	Linear	0.994123	0.000000	0.552985	-0.0530676
102	T Parathion	Quadratic	0.999965	0.010433	0.0408483	0.00305091
103	T 3,3'-Dimethylbenzidine	Linear	0.994476	0.000000	1.01936	-0.372446
108	T Bis(2-ethylhexyl)phthalate	Linear	0.996118	0.000000	0.750968	-0.0325275
109	T Di-n-octylphthalate	Linear	0.993052	0.000000	1.34507	-0.145299

Response Factor Report Dakota

Method Path : I:\8270\Dakota\250416RVTICAL\
 Method File : FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Apr 17 14:28:59 2025
 Response Via : Initial Calibration

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound		L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD

1) I	IS1_1,4-Dichlorobenzene-d4	-----ISTD-----										
2) t	n-Nitrosodimet...	0.623	0.641	0.748	0.802	0.648	0.670	0.700	0.680	0.657	0.686	8.34
3) t	Pyridine	1.198	1.345	1.253	1.154	1.149	1.145	1.196	1.167	1.201		5.69
4) S	2-Fluorophenol	1.156	1.128	1.093	1.019	0.929	1.017	0.984	0.974	0.944	1.027	7.87
5) T	Aniline	1.416	1.465	1.844	1.798	1.694	1.780	1.750	1.705	1.676	1.681	8.74
6) t	2-Chlorophenol	1.329	1.065	1.224	1.092	1.073	1.118	1.126	1.113	1.093	1.137	7.54
7) S	Phenol-d6	1.299	1.151	1.195	1.336	1.250	1.293	1.296	1.304	1.275	1.267	4.66
8) T	Phenol	1.435	1.662	1.662	1.592	1.440	1.548	1.539	1.509	1.496	1.542	5.44
9) T	Bis(2-chloroet...	0.930	0.996	1.161	1.024	0.972	0.965	0.980	0.988	0.946	0.996	6.80
10) T	1,3-Dichlorobe...	1.714	1.628	1.685	1.478	1.393	1.427	1.470	1.405	1.379	1.509	8.69
11) T	1,4-Dichlorobe...	1.953	1.616	1.645	1.559	1.432	1.463	1.467	1.455	1.407	1.555	10.98
12) T	1,2-Dichlorobe...	1.679	1.408	1.476	1.535	1.363	1.386	1.395	1.409	1.355	1.445	7.23
13) t	Benzyl alcohol	1.159	0.998	0.890	0.983	0.957	0.975	1.004	1.054	1.022	1.005	7.34
14) T	Bis(2-chlorois...	2.461	2.109	2.210	2.168	2.023	2.073	2.076	2.095	2.046	2.140	6.24
15) T	2-Methylphenol	0.835	1.107	1.090	1.016	0.980	1.015	1.008	1.044	1.028	1.014	7.72
16) T	Hexachloroethane	0.593	0.457	0.591	0.546	0.500	0.531	0.541	0.530	0.517	0.534	7.95
17) T	n-Nitrosodi-n-...	0.735	0.854	0.897	0.969	0.900	0.908	0.940	0.997	0.966	0.907	8.65
18) T	3-Methylphenol...	1.021	1.085	1.060	1.122	1.055	1.096	1.103	1.131	1.101	1.086	3.21
19) S	Nitrobenzene-d5	1.425	1.286	1.320	1.349	1.313	1.368	1.372	1.402	1.385	1.358	3.30
20) T	Nitrobenzene	1.268	1.344	1.386	1.338	1.292	1.319	1.319	1.351	1.345	1.329	2.60
21) T	Isophorone	2.633	2.286	2.448	2.415	2.312	2.386	2.475	2.525	2.492	2.441	4.39
22) T	2-Nitrophenol	0.421	0.579	0.543	0.570	0.585	0.618	0.651	0.655	0.658	0.587	12.73
23) T	2,4-Dimethylph...	1.065	1.139	1.121	1.158	1.178	1.159	1.227	1.240	1.235	1.169	4.98
24) T	Bis(2-chloroet...	1.418	1.515	1.532	1.409	1.385	1.394	1.440	1.435	1.416	1.438	3.59
25) T	2,4-Dichloroph...	1.088	1.121	1.207	1.251	1.173	1.204	1.270	1.292	1.308	1.213	6.22
26) T	1,2,4-Trichlor...	1.750	1.367	1.595	1.563	1.445	1.492	1.478	1.481	1.481	1.517	7.20

27) I	IS2_1,4-Dichlorobenzene-d4	-----ISTD-----										
28) T	Benzaldehyde	0.668	0.920	0.605	0.970	0.861	0.871	0.902	0.859	0.898	0.839	14.41
29) T	Acetophenone	1.362	1.478	1.066	1.625	1.531	1.521	1.586	1.541	1.621	1.481	11.82

Response Factor Report Dakota

Method Path : I:\8270\Dakota\250416RVTICAL\
 Method File : FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Apr 17 14:28:59 2025
 Response Via : Initial Calibration

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound		L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD

30) T	m-Toluidine			1.238	1.395	1.488	1.571	1.590	1.660	1.490	10.30	
31) T	2-Chloroaniline	1.065	1.217	0.956	1.395	1.424	1.344	1.459	1.424	1.491	1.308	14.40
32) I	IS3_1,4-Dichlorobenzene-d4	-----ISTD-----										
33) T	1,4-Dioxane	0.333	0.463	0.531	0.474	0.449	0.414	0.404	0.394	0.413	0.431	13.11
34) t	n-Nitrosodieth...	0.244	0.429	0.430	0.421	0.409	0.431	0.444	0.431	0.457	0.411	15.58
35) T	n-Decane	1.255	1.429	1.467	1.356	1.385	1.315	1.305	1.268	1.327	1.345	5.30
36) t	n-Nitrosopyrro...	0.372	0.627	0.473	0.542	0.503	0.501	0.523	0.553	0.573	0.518	13.75
37) I	IS1_Naphthalene-d8	-----ISTD-----										
38) T	Naphthalene	1.194	1.122	1.099	0.996	0.972	0.955	0.989	0.949	0.948	1.025	8.79
39) T	Benzoic Acid					0.130	0.172	0.227	0.246	0.259	*L	0.9993
40) T	4-Chloroaniline	0.090	0.160	0.146	0.160	0.141	0.134	0.143	0.143	0.142	0.140	14.64
41) T	Hexachlorobuta...	0.263	0.228	0.286	0.263	0.243	0.242	0.254	0.249	0.246	0.253	6.57
42) T	p-Chloro-m-cresol	0.245	0.252	0.296	0.291	0.286	0.280	0.307	0.301	0.305	0.285	7.82
43) T	2-Methylnaphth...	0.631	0.676	0.705	0.666	0.662	0.660	0.678	0.666	0.650	0.666	3.05
44) T	1-Methylnaphth...	0.215	0.233	0.234	0.227	0.223	0.222	0.233	0.225	0.224	0.226	2.77
45) T	Hexachlorocycl...	0.345	0.357	0.335	0.327	0.332	0.328	0.345	0.351	0.350	0.341	3.23
46) T	2,4,6-Trichlor...	0.274	0.274	0.288	0.298	0.288	0.293	0.315	0.313	0.314	0.295	5.42
47) T	2,4,5-Trichlor...	0.351	0.300	0.331	0.311	0.322	0.319	0.335	0.342	0.338	0.328	4.88
48) S	2-Fluorobiphenyl	1.136	1.059	1.061	1.063	1.035	0.967	1.039	1.011	1.007	1.042	4.54
49) T	2-Chloronaphth...	0.800	0.910	0.894	0.843	0.812	0.800	0.841	0.830	0.821	0.839	4.66
50) T	2-Nitroaniline	0.196	0.199	0.199	0.191	0.214	0.211	0.235	0.240	0.243	0.214	9.41
51) T	1,4-Dinitroben...	0.076	0.089	0.094	0.111	0.116	0.111	0.131	0.133	0.132	0.110	18.62
52) T	1,3-Dinitroben...	0.110	0.129	0.139	0.121	0.130	0.138	0.150	0.148	0.148	0.135	10.15
53) T	Dimethyl phtha...	1.035	1.030	1.031	0.992	1.002	0.974	1.046	1.009	0.985	1.012	2.48
54) T	Acenaphthylene	1.296	1.305	1.300	1.329	1.332	1.312	1.394	1.346	1.332	1.327	2.26
55) T	2,6-Dinitrotol...	0.180	0.185	0.195	0.197	0.199	0.210	0.219	0.215	0.221	0.202	7.20
56) T	1,2-Dinitroben...		0.077	0.071	0.089	0.080	0.081	0.094	0.091	0.090	0.084	9.63
57) I	IS2_Naphthalene-d8	-----ISTD-----										

Response Factor Report Dakota

Method Path : I:\8270\Dakota\250416RVTICAL\
 Method File : FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Apr 17 14:28:59 2025
 Response Via : Initial Calibration

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound		L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD

58) T	a-Terpineol	0.254	0.260	0.206	0.316	0.291	0.310	0.325	0.325	0.326	0.290	14.43
59) T	3-Chloroaniline	0.113	0.179	0.099	0.174	0.147	0.152	0.154	0.160	0.158	0.149	17.80
60) T	2,6-Dichloroph...	0.282	0.304	0.234	0.358	0.345	0.349	0.359	0.362	0.367	0.329	13.93
61) T	1-chloro-2-nit...	0.111	0.147	0.109	0.152	0.141	0.146	0.148	0.148	0.151	0.139	12.22
62) T	Caprolactam				0.144	0.150	0.162	0.181	0.188	0.190	0.169	11.74
63) T	1,2,4,5-Tetrac...	0.459	0.424	0.341	0.509	0.450	0.436	0.463	0.456	0.457	0.444	10.14
64) T	Biphenyl	0.900	0.917	0.773	1.036	0.980	0.975	1.007	0.984	0.981	0.950	8.26
65) I	IS1_Acenaphthene-d10	-----ISTD-----										
66) T	3-Nitroaniline	0.166	0.280	0.272	0.249	0.271	0.291	0.308	0.306	0.307	0.272	16.42
67) T	Acenaphthene	1.044	1.113	1.071	1.090	1.028	1.002	1.022	1.025	1.023	1.046	3.51
68) T	2,4-Dinitrophenol		0.042	0.105	0.126	0.169	0.178	0.215	0.223		*Q	0.9978
69) T	Dibenzofuran	2.096	2.025	1.962	1.885	1.831	1.757	1.799	1.752	1.758	1.874	6.79
70) T	2,4-Dinitrotol...	0.306	0.340	0.377	0.401	0.427	0.414	0.451	0.442	0.446	0.400	12.61
71) T	4-Nitrophenol	0.210	0.195	0.237	0.245	0.252	0.252	0.279	0.275	0.278	0.247	11.95
72) T	2,3,5,6-Tetrac...	0.406	0.350	0.393	0.362	0.410	0.408	0.438	0.433	0.440	0.404	7.88
73) T	2,3,4,6-Tetrac...	0.387	0.366	0.377	0.423	0.374	0.397	0.419	0.413	0.419	0.397	5.54
74) T	Diethyl phthalate	1.462	1.416	1.428	1.387	1.393	1.336	1.443	1.378	1.383	1.403	2.72
75) T	Fluorene	1.581	1.463	1.471	1.468	1.463	1.386	1.455	1.412	1.441	1.460	3.68
76) T	4-Chlorophenyl...	0.919	0.754	0.836	0.744	0.747	0.675	0.718	0.704	0.710	0.756	10.01
77) T	4-Nitroaniline	0.208	0.225	0.272	0.285	0.311	0.311	0.331	0.317	0.314	0.286	15.16
78) T	4,6-Dinitro-o-...			0.192	0.191	0.220	0.259	0.282	0.286	0.304	0.248	18.86
79) T	NDPA/DPA	1.466	1.151	1.277	1.278	1.297	1.221	1.296	1.246	1.249	1.275	6.64
80) T	Azobenzene	1.348	1.265	1.317	1.295	1.309	1.245	1.314	1.298	1.297	1.299	2.28
81) S	2,4,6-Tribromo...	0.182	0.207	0.250	0.215	0.239	0.241	0.255	0.257	0.272	0.235	12.12
82) T	4-Bromophenyl ...	0.537	0.435	0.541	0.485	0.462	0.452	0.467	0.453	0.468	0.478	7.81
83) T	Hexachlorobenzene	0.655	0.597	0.617	0.544	0.528	0.503	0.525	0.511	0.538	0.558	9.45
84) T	Pentachlorophenol			0.273	0.259	0.315	0.323	0.356	0.387	0.401	0.331	16.29
85) I	IS2_Acenaphthene-d10	-----ISTD-----										
86) T	Dichloran				0.185	0.178	0.190	0.205	0.234	0.239	0.205	12.61

Response Factor Report Dakota

Method Path : I:\8270\Dakota\250416RVTICAL\
 Method File : FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Apr 17 14:28:59 2025
 Response Via : Initial Calibration

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound		L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
87) T	Pentachloronit...	0.146	0.130	0.187	0.191	0.197	0.203	0.213	0.211	0.184	16.52	
88) I	IS3_Acenaphthene-d10	-----ISTD-----										
89) T	Atrazine	0.351	0.407	0.426	0.407	0.422	0.398	0.451	0.468	0.481	0.423	9.32
90) I	IS1_Phenanthrene-d10	-----ISTD-----										
91) T	Phenanthrene	1.222	1.158	1.236	1.218	1.122	1.092	1.118	1.084	1.101	1.150	5.24
92) T	Anthracene	1.120	1.066	1.156	1.163	1.132	1.095	1.152	1.117	1.137	1.127	2.76
93) T	Carbazole	1.091	1.055	1.033	1.094	1.055	1.045	1.085	1.035	1.049	1.060	2.23
94) T	Di-n-butylphth...	1.114	1.034	1.040	1.035	1.077	1.088	1.179	1.171	1.166	1.100	5.44
95) T	Fluoranthene	1.372	1.340	1.405	1.361	1.338	1.331	1.385	1.331	1.334	1.355	2.00
96) T	Benzidine			0.609	0.715	0.799	0.824	0.936	0.908	0.931	0.817	14.93
97) T	Pyrene	1.618	1.426	1.468	1.483	1.458	1.433	1.485	1.411	1.409	1.466	4.36
98) S	4-Terphenyl-d14	1.139	1.125	1.071	1.039	1.035	1.030	1.087	1.051	1.045	1.069	3.75
99) T	Butyl benzyl p...	0.372	0.432	0.400	0.437	0.482	0.495	0.555	0.562	0.563	0.478	15.10
100) I	IS2_Phenanthrene-d10	-----ISTD-----										
101) T	Diphenamid	0.379	0.406	0.348	0.461	0.490	0.501	0.516	0.545	0.547	0.466	15.60
102) I	IS3_Phenanthrene-d10	-----ISTD-----										
103) T	n-Octadecane	0.426	0.328	0.405	0.395	0.378	0.387	0.410	0.406	0.398	0.392	7.06
104) T	Parathion				0.075	0.074	0.082	0.098	0.119	0.127	*Q	0.9977
105) T	3,3'-Dimethylb...				0.452	0.661	0.715	0.824	0.964	1.014	*L	0.9962
106) I	IS1_Chrysene-d12	-----ISTD-----										
107) T	Benzo(a)anthra...	1.403	1.324	1.338	1.293	1.310	1.287	1.326	1.292	1.248	1.313	3.27
108) T	3,3'-Dichlorob...	0.401	0.426	0.436	0.452	0.472	0.472	0.505	0.511	0.504	0.464	8.36
109) T	Chrysene	1.490	1.463	1.355	1.312	1.238	1.198	1.220	1.200	1.160	1.293	9.29
110) T	Bis(2-ethylhex...	0.547	0.578	0.582	0.586	0.681	0.700	0.760	0.767	0.750	0.661	13.39
111) T	Di-n-octylphth...	0.818	0.840	0.880	0.947	1.114	1.157	1.299	1.333	1.280	1.074	19.27
112) T	Benzo(b)fluora...	1.373	1.282	1.406	1.339	1.335	1.338	1.342	1.295	1.281	1.332	3.11

Response Factor Report Dakota

Method Path : I:\8270\Dakota\250416RVTICAL\
Method File : FS250416RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Apr 17 14:28:59 2025
Response Via : Initial Calibration

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

Compound		L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD

113) T	Benzo(k)fluora...	1.335	1.441	1.330	1.426	1.354	1.343	1.320	1.370	1.276	1.355	3.81
114) T	Benzo(a)pyrene	1.225	1.288	1.256	1.327	1.247	1.276	1.284	1.285	1.249	1.271	2.38
115) I	IS1_Perylene-d12	-----ISTD-----										
116) T	Indeno(1,2,3-c...	1.205	1.085	1.213	1.247	1.239	1.254	1.271	1.307	1.362	1.242	6.15
117) T	Dibenzo(a,h)an...	1.070	1.235	1.241	1.221	1.206	1.163	1.199	1.205	1.235	1.197	4.45
118) T	Benzo(ghi)pery...	1.256	1.169	1.238	1.224	1.173	1.145	1.184	1.186	1.203	1.198	2.97

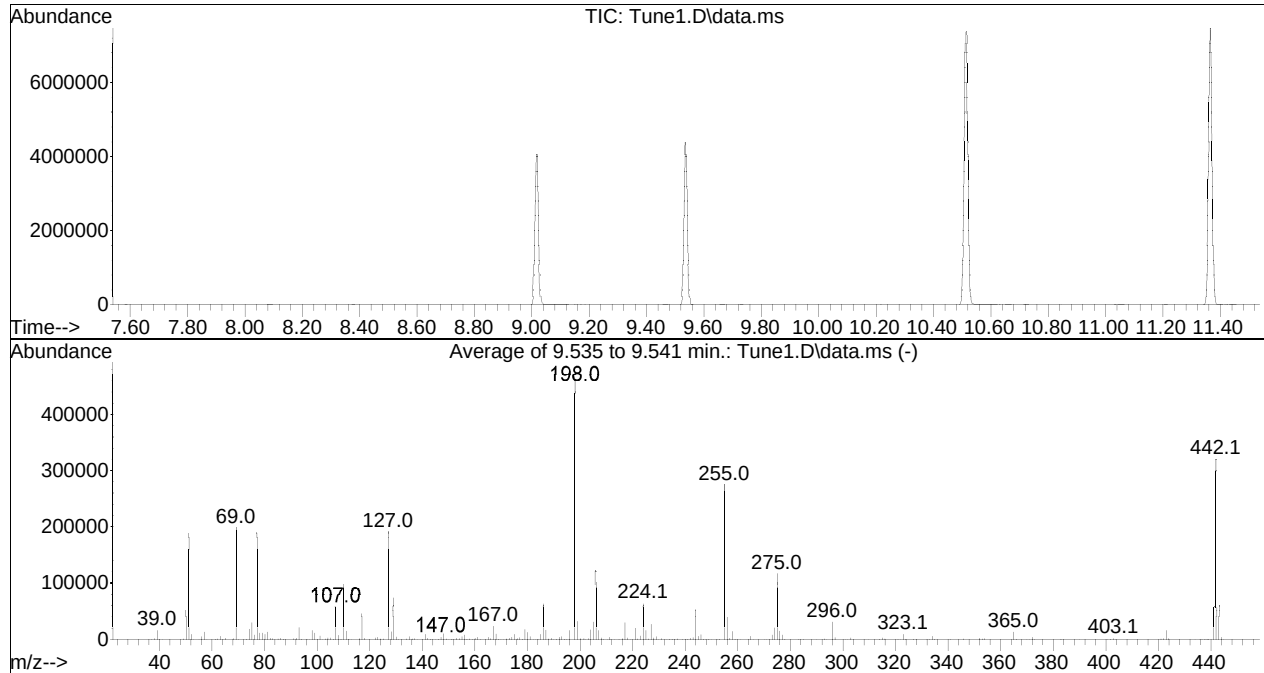
(#) = Out of Range

DFTPP

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : Tune1.D
 Acq On : 16 Apr 2025 5:04 pm
 Operator : Dakota:HNY
 Sample : Tune1 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Apr 17 14:28:59 2025



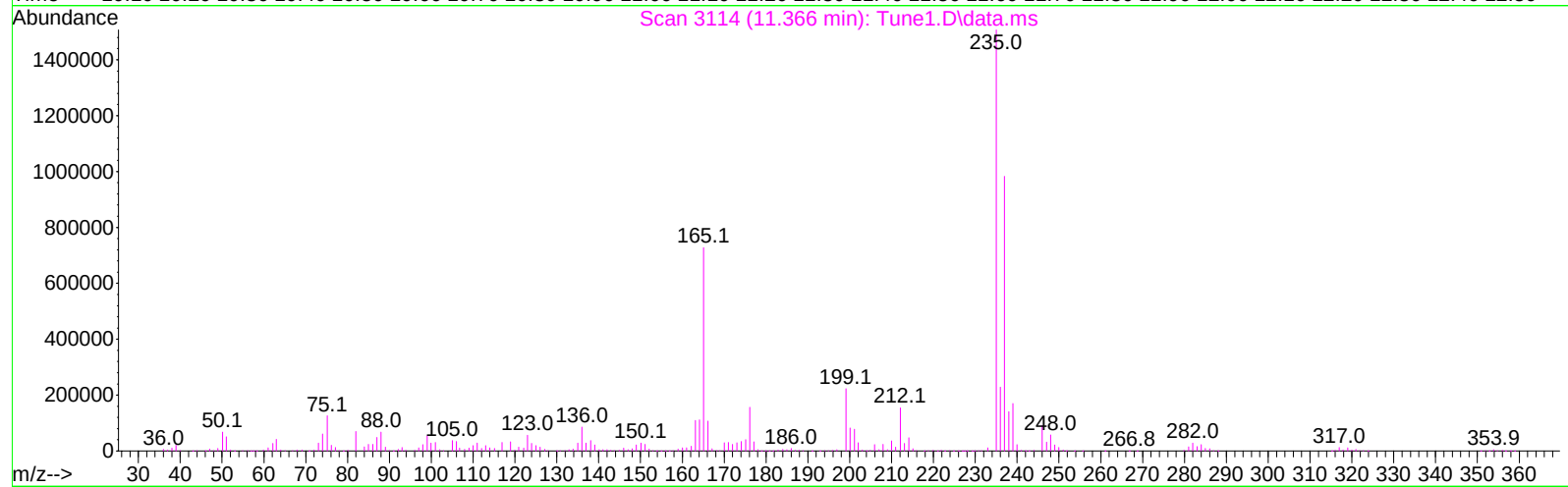
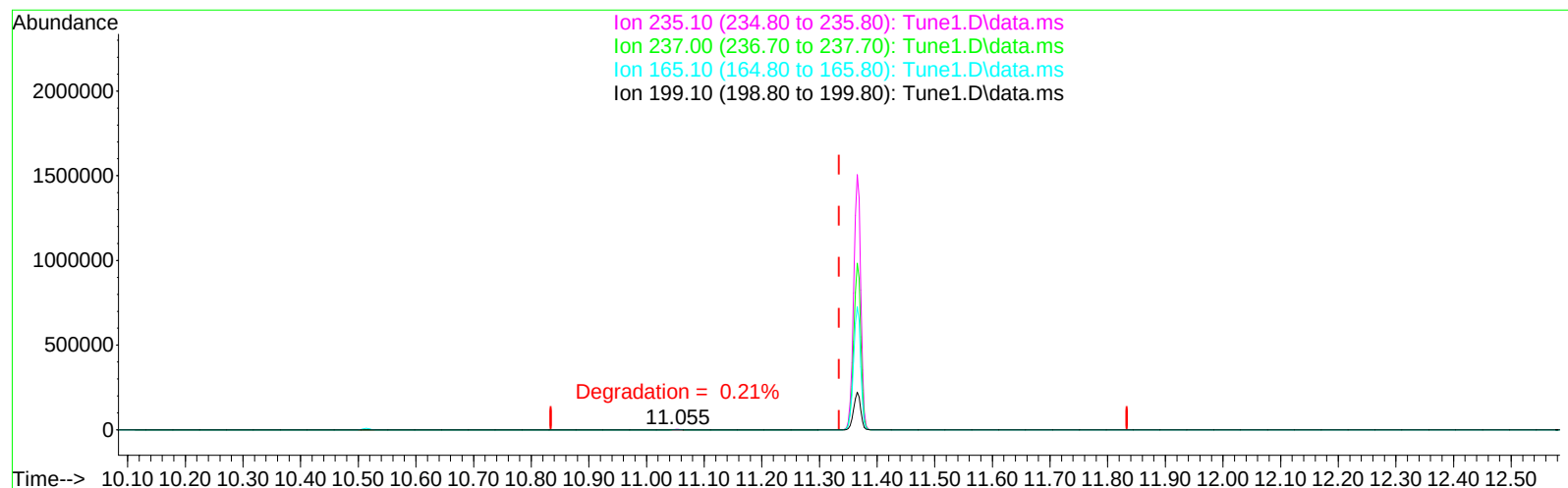
Spectrum Information: Average of 9.535 to 9.541 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.1	187925	PASS
68	69	0.00	2	1.3	2569	PASS
69	69	100	100	100.0	198891	PASS
70	69	0.00	2	0.7	1327	PASS
127	198	10	80	40.8	191275	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	468907	PASS
199	198	5	9	6.7	31475	PASS
275	198	10	60	24.7	116011	PASS
365	198	1	100	2.9	13729	PASS
441	442	0.01	24	18.3	58821	PASS
442	198	50	100	68.4	320811	PASS
443	442	15	24	18.8	60416	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : Tune1.D
 Acq On : 16 Apr 2025 5:04 pm
 Operator : Dakota:HNY
 Sample : Tune1 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Apr 16 17:24:56 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\DftppDakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Apr 04 07:50:11 2025
 Response via : Initial Calibration



CHROMtools™ [Tune1 Lot # 11483]

(6) DDT (T)

11.366min (+ 0.032) 210.46

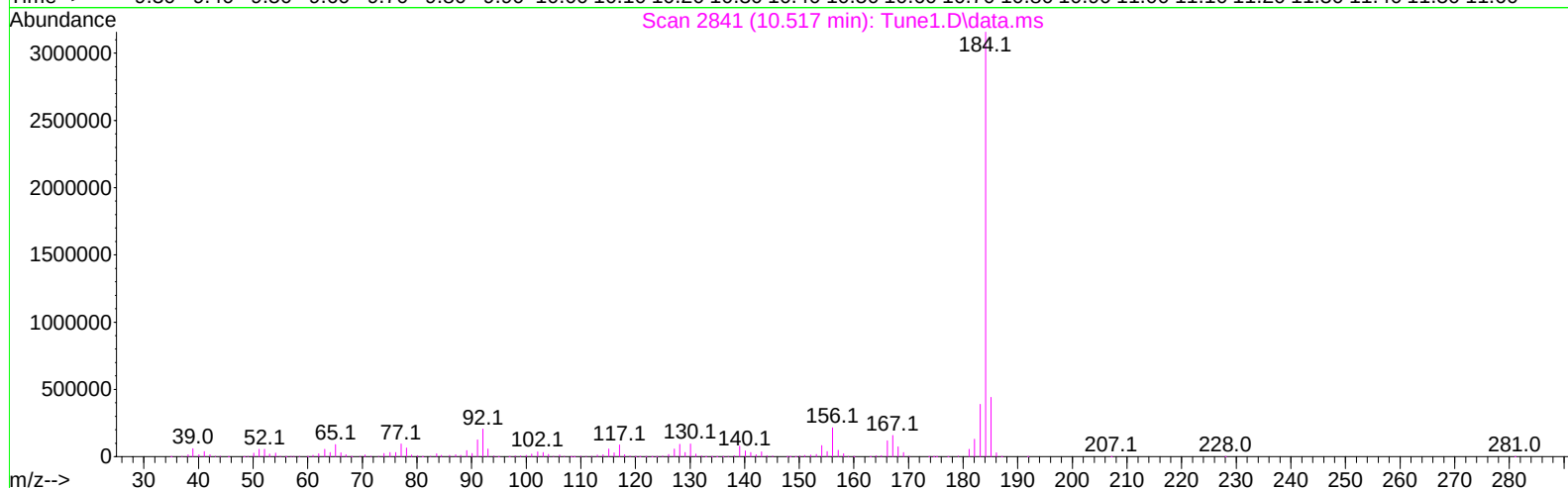
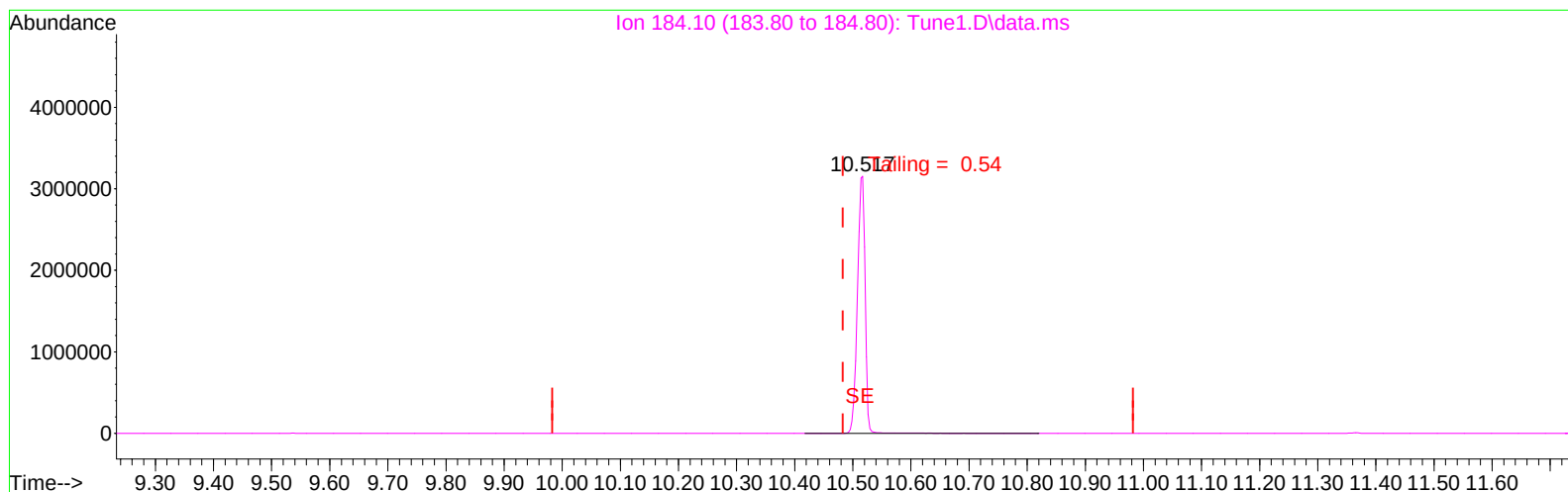
response 1282889

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.90	65.05
165.10	48.70	48.21
199.10	15.80	14.56

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : Tune1.D
 Acq On : 16 Apr 2025 5:04 pm
 Operator : Dakota:HNY
 Sample : Tune1 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Apr 16 17:24:56 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\DftppDakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Apr 04 07:50:11 2025
 Response via : Initial Calibration



CHROMtools™ [Tune1 Lot # 11483]

(3) Benzidine (T)

10.517min (+ 0.034) 284.33

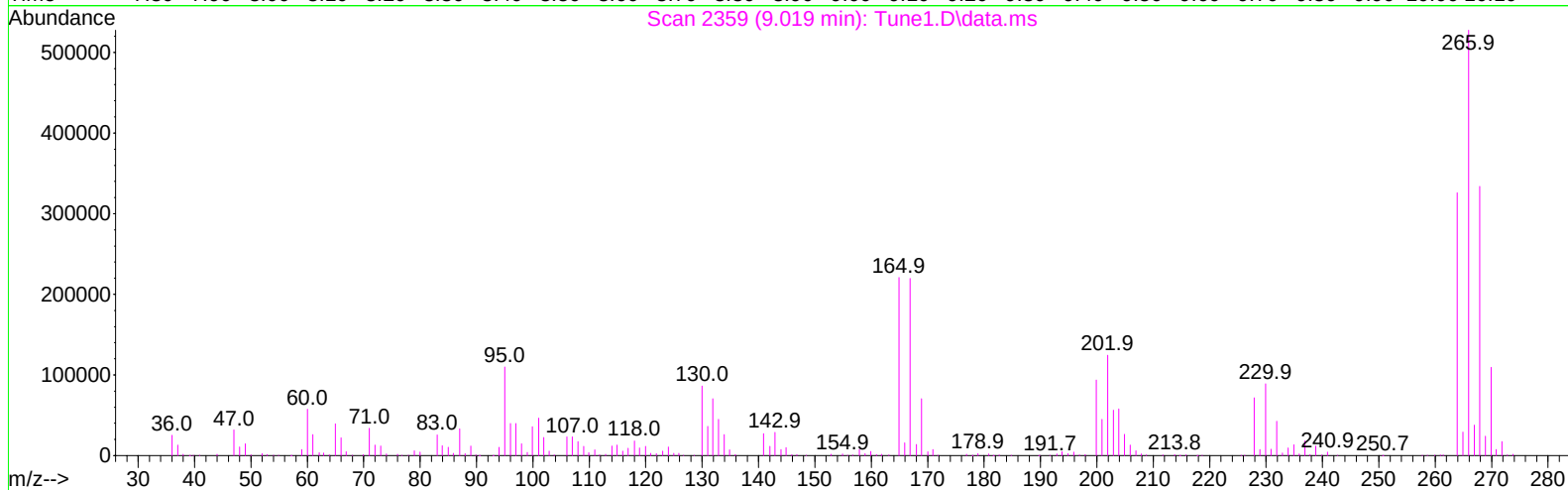
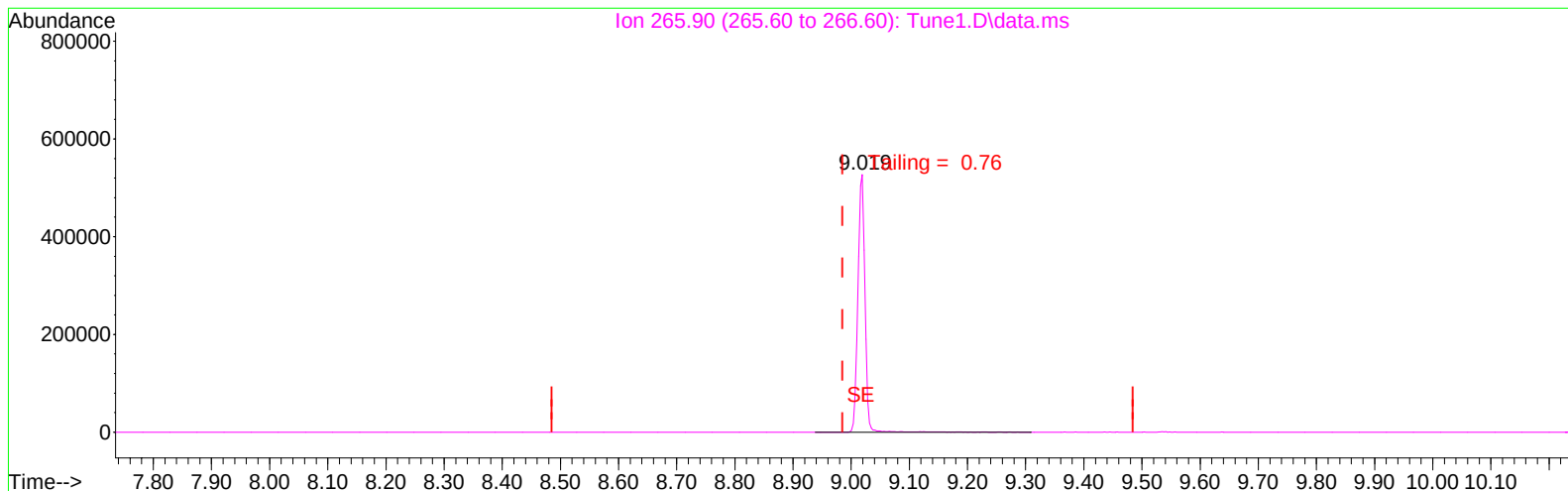
response 2894498

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\Dakota\250416RVTICAL\
 Data File : Tune1.D
 Acq On : 16 Apr 2025 5:04 pm
 Operator : Dakota:HNY
 Sample : Tune1 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Apr 16 17:24:56 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\DftppDakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Apr 04 07:50:11 2025
 Response via : Initial Calibration



CHROMtools™ [Tune1 Lot # 11483]

(1) Pentachlorophenol (T)

9.019min (+ 0.034) 208.72

response 438388

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 (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL9.D
 Acq On : 16 Apr 2025 5:27 pm
 Operator : Dakota:HNY
 Sample : IL2,32,,ABNL50 Lot# 11532
 Misc : WG2055280
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 17 15:22:28 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.820	152	46051	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	118.33%		
37) IS1_Naphthalene-d8	6.057	136	166190	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	120.83%		
65) IS1_Acenaphthene-d10	7.760	164	119345	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	121.68%		
90) IS1_Phenanthrene-d10	9.190	188	255062	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	120.81%		
106) IS1_Chrysene-d12	11.832	240	295108	4.000	ug/ml	0.01
Standard Area 1 = 240990			Recovery =	122.46%		
115) IS1_Perylene-d12	13.286	264	317504	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	112.45%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.549	112	543328	45.956	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	2297.80%#		
7) Phenol-d6	4.497	99	734051	50.337	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	2516.85%#		
19) Nitrobenzene-d5	5.361	82	796979	50.985	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	5098.50%#		
48) 2-Fluorobiphenyl	7.123	172	2091153	48.308	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	4830.80%#		
81) 2,4,6-Tribromophenol	8.525	330	406134	57.801	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	2890.05%#		
98) 4-Terphenyl-d14	10.766	244	3331370	48.864	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	4886.40%#		
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.175	74	378410	47.948	ug/ml#	88
3) Pyridine	2.206	79	671773	48.585	ug/ml#	67
5) Aniline	4.500	93	964731	49.854	ug/ml#	40
6) 2-Chlorophenol	4.615	128	629078	48.069	ug/ml	96
8) Phenol	4.509	94	861036	48.487	ug/ml#	41
9) Bis(2-chloroethyl)ether	4.580	93	544750	47.519	ug/ml	93
10) 1,3-Dichlorobenzene	4.761	146	794019	45.713	ug/ml	94
11) 1,4-Dichlorobenzene	4.835	146	809988	45.233	ug/ml	94
12) 1,2-Dichlorobenzene	4.981	146	779894	46.881	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL9.D
 Acq On : 16 Apr 2025 5:27 pm
 Operator : Dakota:HNY
 Sample : IL2,32,,ABNL50 Lot# 11532
 Misc : WG2055280
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 17 15:22:28 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.969	79	588089	50.847	ug/ml	96
14)	Bis(2-chloroisopropyl)...	5.118	45	1177898	47.810	ug/ml#	97
15)	2-Methylphenol	5.096	108	591948	50.724	ug/ml	99
16)	Hexachloroethane	5.311	117	297330	48.360	ug/ml#	43
17)	n-Nitrosodi-n-propylamine	5.239	70	555939	53.217	ug/ml#	85
18)	3-Methylphenol/4-Methy...	5.252	108	633666	50.682	ug/ml	97
20)	Nitrobenzene	5.379	77	774115	50.591	ug/ml	93
21)	Isophorone	5.625	82	1434418	51.040	ug/ml#	92
22)	2-Nitrophenol	5.693	139	378848	56.092	ug/ml	94
23)	2,4-Dimethylphenol	5.765	107	711051	52.832	ug/ml	96
24)	Bis(2-chloroethoxy)met...	5.855	93	814955	49.220	ug/ml#	95
25)	2,4-Dichlorophenol	5.933	162	752679	53.917	ug/ml#	92
26)	1,2,4-Trichlorobenzene	6.010	180	852472	48.818	ug/ml#	97
38)	Naphthalene	6.075	128	1968571	46.233	ug/ml	99
39)	Benzoic Acid	5.911	105	538671	50.454	ug/ml	92
40)	4-Chloroaniline	6.144	65	295889	50.841	ug/ml	97
41)	Hexachlorobutadiene	6.222	225	510600	48.651	ug/ml	99
42)	p-Chloro-m-cresol	6.635	107	632580	53.487	ug/ml	94
43)	2-Methylnaphthalene	6.753	142	1350880	48.819	ug/ml	99
44)	1-Methylnaphthalene	6.846	115	465143	49.462	ug/ml	90
45)	Hexachlorocyclopentadiene	6.924	237	728019	51.372	ug/ml	100
46)	2,4,6-Trichlorophenol	7.039	196	651735	53.139	ug/ml	99
47)	2,4,5-Trichlorophenol	7.067	196	701327	51.531	ug/ml	100
49)	2-Chloronaphthalene	7.222	162	1706253	48.951	ug/ml#	90
50)	2-Nitroaniline	7.331	138	504148	56.663	ug/ml	92
51)	1,4-Dinitrobenzene	7.465	168	274554	59.856	ug/ml	82
52)	1,3-Dinitrobenzene	7.539	168	307970	55.029	ug/ml#	1
53)	Dimethyl phthalate	7.536	163	2047063	48.706	ug/ml#	97
54)	Acenaphthylene	7.620	152	2766931	50.175	ug/ml	98
55)	2,6-Dinitrotoluene	7.577	165	458805	54.551	ug/ml#	76
56)	1,2-Dinitrobenzene	7.623	168	186631	53.450	ug/ml#	1
66)	3-Nitroaniline	7.735	138	458426	56.433	ug/ml#	93
67)	Acenaphthene	7.794	154	1526470	48.892	ug/ml	91
68)	2,4-Dinitrophenol	7.832	184	354175	46.094	ug/ml#	79
69)	Dibenzofuran	7.962	168	2622944	46.914	ug/ml	89
70)	2,4-Dinitrotoluene	7.965	165	664643	55.635	ug/ml	88
71)	4-Nitrophenol	7.915	65	415245	56.339	ug/ml	95
72)	2,3,5,6-Tetrachlorophenol	8.046	232	655662	54.329	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL9.D
 Acq On : 16 Apr 2025 5:27 pm
 Operator : Dakota:HNY
 Sample : IL2,32,,ABNL50 Lot# 11532
 Misc : WG2055280
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 17 15:22:28 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.090	232	625655	52.782	ug/ml	98
74)	Diethyl phthalate	8.223	149	2063891	49.309	ug/ml	98
75)	Fluorene	8.292	166	2149472	49.346	ug/ml	94
76)	4-Chlorophenyl phenyl ...	8.307	204	1059079	46.936	ug/ml#	84
77)	4-Nitroaniline	8.329	138	468346	54.889	ug/ml#	91
78)	4,6-Dinitro-o-cresol	8.360	198	454058	61.442	ug/ml#	59
79)	NDPA/DPA	8.425	169	1862679	48.947	ug/ml	94
80)	Azobenzene	8.459	77	1935580	49.951	ug/ml	95
82)	4-Bromophenyl phenyl e...	8.776	248	698173	48.971	ug/ml#	79
83)	Hexachlorobenzene	8.829	284	802937	48.263	ug/ml#	81
84)	Pentachlorophenol	9.019	266	598003	60.628	ug/ml	99
91)	Phenanthrene	9.215	178	3511593	47.881	ug/ml	100
92)	Anthracene	9.264	178	3626249	50.481	ug/ml	99
93)	Carbazole	9.429	167	3343722	49.459	ug/ml	99
94)	Di-n-butylphthalate	9.808	149	3718384	52.994	ug/ml	98
95)	Fluoranthene	10.365	202	4253420	49.223	ug/ml#	91
96)	Benzidine	10.514	184	2968640	56.959	ug/ml#	94
97)	Pyrene	10.582	202	4491391	48.057	ug/ml	98
99)	Butyl benzyl phthalate	11.291	149	1793552	58.898	ug/ml	88
107)	Benzo(a)anthracene	11.822	228	4603161	47.507	ug/ml	98
108)	3,3'-Dichlorobenzidine	11.816	252	1858512	54.257	ug/ml#	96
109)	Chrysene	11.860	228	4280873	44.879	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.925	149	2765766	56.700	ug/ml#	94
111)	Di-n-octylphthalate	12.606	149	4720051	59.567	ug/ml#	78
112)	Benzo(b)fluoranthene	12.929	252	4725521	48.079	ug/ml#	92
113)	Benzo(k)fluoranthene	12.960	252	4706530M3	47.083	ug/ml	
114)	Benzo(a)pyrene	13.243	252	4607203	49.136	ug/ml#	91
116)	Indeno(1,2,3-cd)pyrene	14.293	276	5406741M6	54.824	ug/mL	
117)	Dibenzo(a,h)anthracene	14.318	278	4902295	51.585	ug/ml#	88
118)	Benzo(ghi)perylene	14.561	276	4773069	50.212	ug/ml#	83

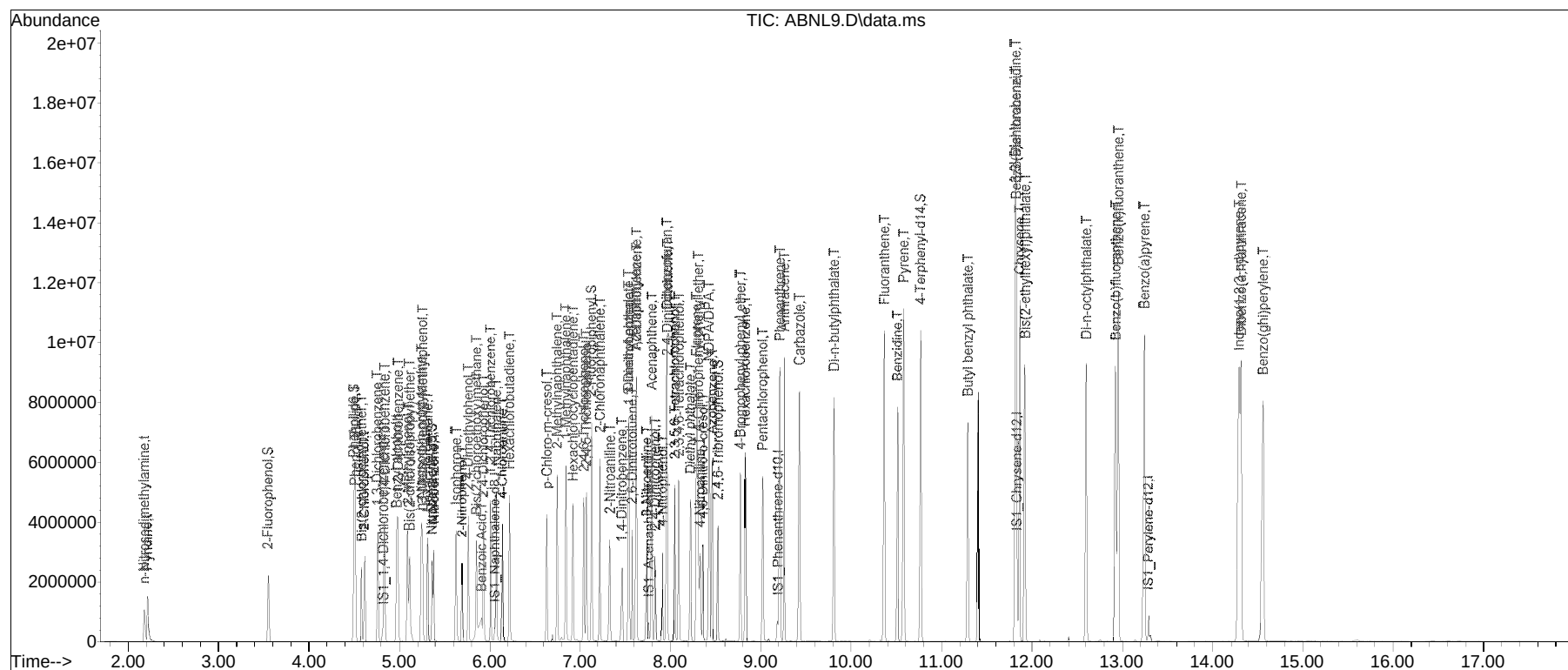
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL9.D
Acq On : 16 Apr 2025 5:27 pm
Operator : Dakota:HNY
Sample : IL2,32,,ABNL50 Lot# 11532
Misc : WG2055280
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 17 15:22:28 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

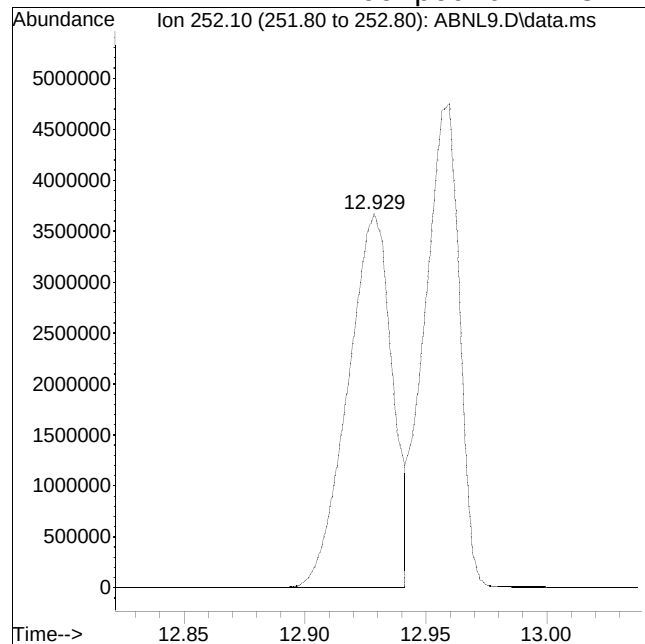
Sub List : ABNical - ABN ical sublistVTICAL\AP9L6.D•



Manual Integration Report

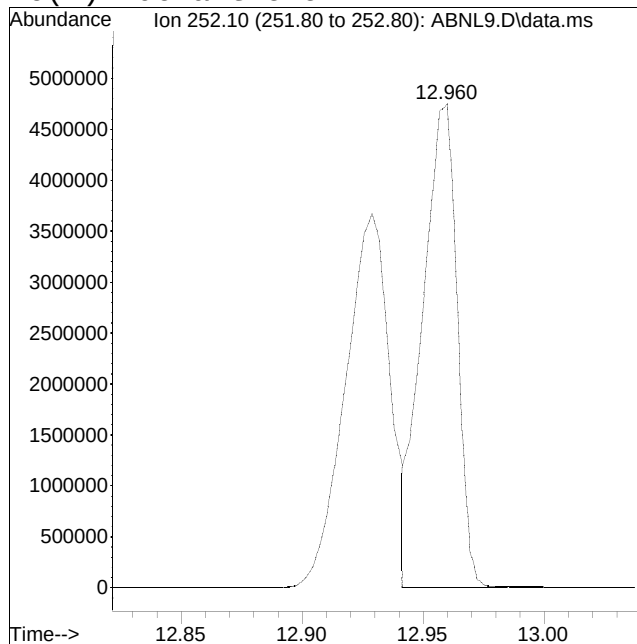
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL9.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 5:27 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 11532 Quant Date : 4/17/2025 3:23 pm

Compound #113: Benzo(k)fluoranthene



Original Peak Response = 4725521

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.

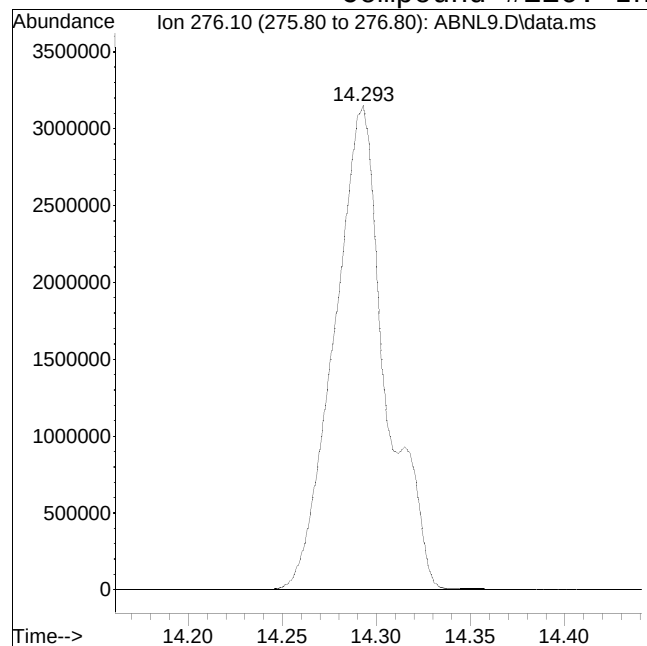


Manual Peak Response = 4706530 M3

Manual Integration Report

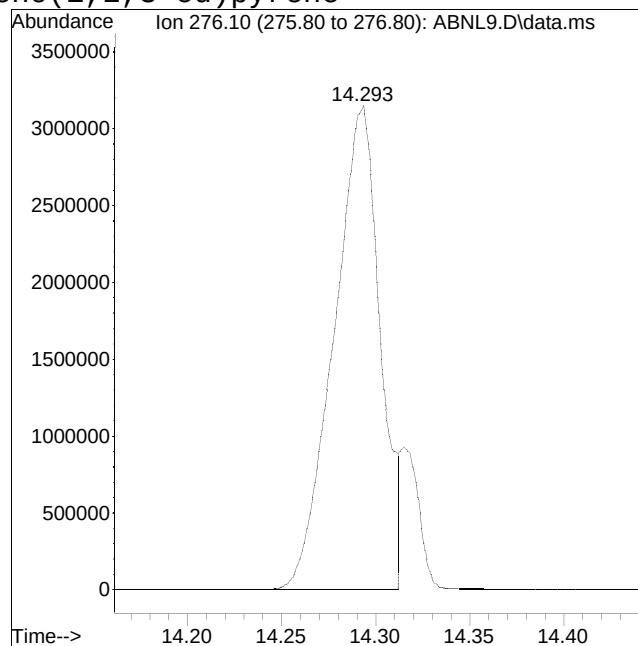
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL9.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 5:27 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 11532 Quant Date : 4/17/2025 3:23 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 6005953

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



Manual Peak Response = 5406741 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL8.D
 Acq On : 16 Apr 2025 5:49 pm
 Operator : Dakota:HNY
 Sample : IL3,32,,ABNL25 Lot# 11533
 Misc : WG2055280
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 15:22:16 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.820	152	42445	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	109.06%		
37) IS1_Naphthalene-d8	6.054	136	152550	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	110.91%		
65) IS1_Acenaphthene-d10	7.757	164	110132	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	112.29%		
90) IS1_Phenanthrene-d10	9.187	188	240121	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	113.73%		
106) IS1_Chrysene-d12	11.822	240	271924	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	112.84%		
115) IS1_Perylene-d12	13.283	264	301247	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	106.69%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.546	112	258326	23.706	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	1185.30%#		
7) Phenol-d6	4.490	99	345923	25.737	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	1286.85%#		
19) Nitrobenzene-d5	5.358	82	371921	25.814	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	2581.40%#		
48) 2-Fluorobiphenyl	7.120	172	963794	24.255	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	2425.50%#		
81) 2,4,6-Tribromophenol	8.518	330	177204	27.330	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	1366.50%#		
98) 4-Terphenyl-d14	10.763	244	1577373	24.576	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	2457.60%#		
Target Compounds						
2) n-Nitrosodimethylamine	2.175	74	180374	24.797	ug/ml#	87
3) Pyridine	2.209	79	317273	24.896	ug/ml#	67
5) Aniline	4.500	93	452358	25.362	ug/ml#	39
6) 2-Chlorophenol	4.612	128	295149	24.469	ug/ml	95
8) Phenol	4.503	94	400267	24.455	ug/ml#	39
9) Bis(2-chloroethyl)ether	4.577	93	262009	24.797	ug/ml	95
10) 1,3-Dichlorobenzene	4.761	146	372621	23.275	ug/ml	94
11) 1,4-Dichlorobenzene	4.835	146	385963	23.385	ug/ml	94
12) 1,2-Dichlorobenzene	4.981	146	373762	24.377	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL8.D
 Acq On : 16 Apr 2025 5:49 pm
 Operator : Dakota:HNY
 Sample : IL3,32,,ABNL25 Lot# 11533
 Misc : WG2055280
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 15:22:16 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.966	79	279545	26.223	ug/ml	96
14)	Bis(2-chloroisopropyl)...	5.115	45	555682	24.471	ug/ml	99
15)	2-Methylphenol	5.093	108	277005	25.753	ug/ml	98
16)	Hexachloroethane	5.311	117	140600	24.811	ug/ml#	45
17)	n-Nitrosodi-n-propylamine	5.236	70	264610	27.482	ug/ml#	84
18)	3-Methylphenol/4-Methy...	5.249	108	300113	26.043	ug/ml	99
20)	Nitrobenzene	5.376	77	358356	25.409	ug/ml	94
21)	Isophorone	5.619	82	669717	25.854	ug/ml#	93
22)	2-Nitrophenol	5.690	139	173788	27.917	ug/ml	95
23)	2,4-Dimethylphenol	5.762	107	328907	26.514	ug/ml	98
24)	Bis(2-chloroethoxy)met...	5.849	93	380570	24.938	ug/ml#	95
25)	2,4-Dichlorophenol	5.926	162	342629	26.629	ug/ml#	92
26)	1,2,4-Trichlorobenzene	6.007	180	392866	24.410	ug/ml#	96
38)	Naphthalene	6.076	128	905058	23.157	ug/ml	99
39)	Benzoic Acid	5.873	105	234537	24.687	ug/ml	89
40)	4-Chloroaniline	6.141	65	136399	25.532	ug/ml	99
41)	Hexachlorobutadiene	6.222	225	237144	24.616	ug/ml	99
42)	p-Chloro-m-cresol	6.632	107	286580	26.398	ug/ml	91
43)	2-Methylnaphthalene	6.753	142	634832	24.993	ug/ml	99
44)	1-Methylnaphthalene	6.846	115	214708	24.873	ug/ml	87
45)	Hexachlorocyclopentadiene	6.921	237	334690	25.729	ug/ml	99
46)	2,4,6-Trichlorophenol	7.036	196	298614	26.524	ug/ml	99
47)	2,4,5-Trichlorophenol	7.064	196	325682	26.070	ug/ml	99
49)	2-Chloronaphthalene	7.219	162	791095	24.725	ug/ml#	90
50)	2-Nitroaniline	7.328	138	228822	28.018	ug/ml	92
51)	1,4-Dinitrobenzene	7.459	168	127177	30.205	ug/ml	80
52)	1,3-Dinitrobenzene	7.533	168	141321	27.510	ug/ml#	1
53)	Dimethyl phthalate	7.530	163	961723	24.928	ug/ml#	98
54)	Acenaphthylene	7.617	152	1283030	25.347	ug/ml	98
55)	2,6-Dinitrotoluene	7.571	165	204879	26.538	ug/ml#	78
56)	1,2-Dinitrobenzene	7.614	168	86661	27.038	ug/ml#	1
66)	3-Nitroaniline	7.726	138	210801	28.121	ug/ml#	92
67)	Acenaphthene	7.788	154	705680	24.493	ug/ml	91
68)	2,4-Dinitrophenol	7.825	184	153772	24.837	ug/ml#	80
69)	Dibenzofuran	7.956	168	1206040	23.376	ug/ml	88
70)	2,4-Dinitrotoluene	7.959	165	304423	27.614	ug/ml	89
71)	4-Nitrophenol	7.906	65	189208	27.818	ug/ml	94
72)	2,3,5,6-Tetrachlorophenol	8.043	232	298275	26.783	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL8.D
 Acq On : 16 Apr 2025 5:49 pm
 Operator : Dakota:HNY
 Sample : IL3,32,,ABNL25 Lot# 11533
 Misc : WG2055280
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 15:22:16 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.086	232	284427	26.002	ug/ml	98
74)	Diethyl phthalate	8.217	149	948697	24.562	ug/ml	98
75)	Fluorene	8.289	166	971680	24.173	ug/ml	94
76)	4-Chlorophenyl phenyl ...	8.304	204	484624	23.274	ug/ml#	83
77)	4-Nitroaniline	8.316	138	218430	27.741	ug/ml#	91
78)	4,6-Dinitro-o-cresol	8.351	198	196897	28.873	ug/ml#	61
79)	NDPA/DPA	8.419	169	857362	24.414	ug/ml	94
80)	Azobenzene	8.453	77	893491	24.987	ug/ml	96
82)	4-Bromophenyl phenyl e...	8.773	248	312026	23.717	ug/ml#	79
83)	Hexachlorobenzene	8.826	284	351734	22.911	ug/ml#	82
84)	Pentachlorophenol	9.016	266	266129	29.238	ug/ml	99
91)	Phenanthrene	9.212	178	1627442	23.571	ug/ml	99
92)	Anthracene	9.258	178	1675654	24.778	ug/ml	99
93)	Carbazole	9.423	167	1553284	24.405	ug/ml	99
94)	Di-n-butylphthalate	9.805	149	1757228	26.602	ug/ml#	98
95)	Fluoranthene	10.362	202	1997538	24.555	ug/ml#	90
96)	Benzidine	10.511	184	1361996	27.759	ug/ml#	94
97)	Pyrene	10.579	202	2117979	24.072	ug/ml	99
99)	Butyl benzyl phthalate	11.288	149	843729	29.431	ug/ml	88
107)	Benzo(a)anthracene	11.813	228	2194949	24.585	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.810	252	869040	27.533	ug/ml#	96
109)	Chrysene	11.854	228	2040268	23.213	ug/ml	99
110)	Bis(2-ethylhexyl)phtha...	11.922	149	1304138	29.015	ug/ml#	93
111)	Di-n-octylphthalate	12.599	149	2265586	31.029	ug/ml#	78
112)	Benzo(b)fluoranthene	12.920	252	2200382	24.296	ug/ml#	91
113)	Benzo(k)fluoranthene	12.951	252	2327518	25.269	ug/ml#	93
114)	Benzo(a)pyrene	13.233	252	2183862M2	25.277	ug/ml	
116)	Indeno(1,2,3-cd)pyrene	14.281	276	2460147M6	26.292	ug/mL	
117)	Dibenzo(a,h)anthracene	14.306	278	2268467	25.158	ug/ml#	89
118)	Benzo(ghi)perylene	14.545	276	2232614	24.754	ug/ml#	84

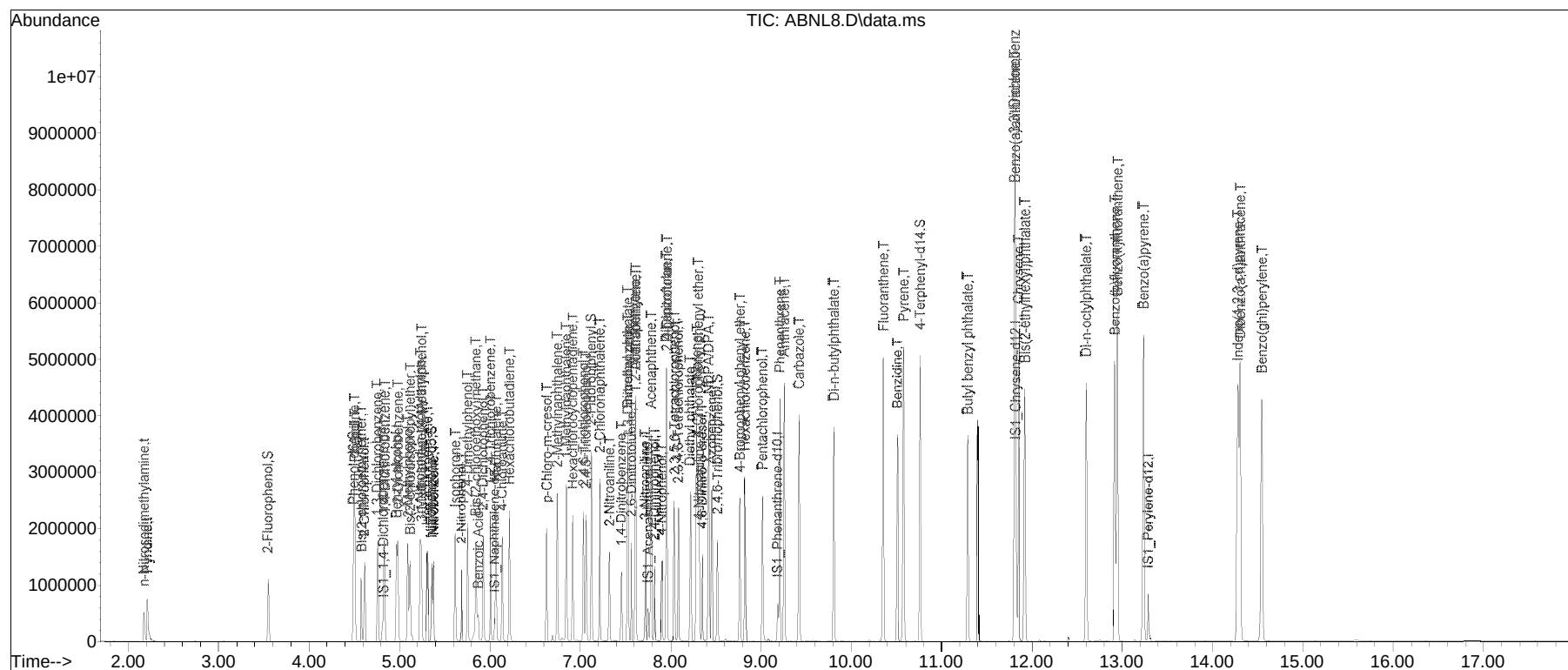
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL8.D
Acq On : 16 Apr 2025 5:49 pm
Operator : Dakota:HNY
Sample : IL3,32,,ABNL25 Lot# 11533
Misc : WG2055280
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 15:22:16 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

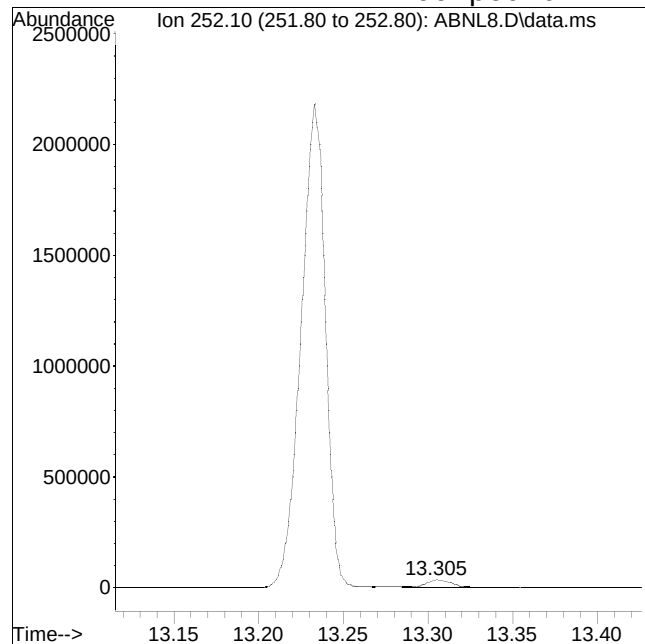
Sub List : ABNical - ABN ical sublistVTICAL\AP9L6.D•



Manual Integration Report

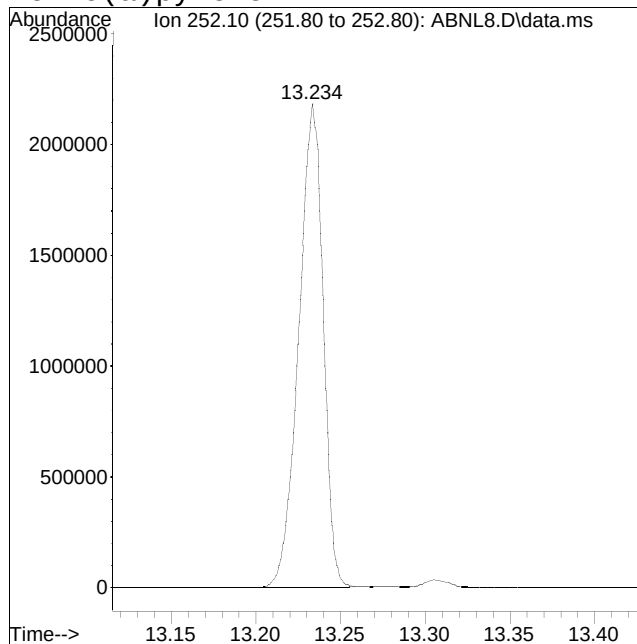
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL8.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 5:49 pm Instrument : Dakota
Sample : IL3,32,,ABNL25 Lot# 11533 Quant Date : 4/17/2025 3:23 pm

Compound #114: Benzo(a)pyrene



Original Peak Response = 35787

M2 = Peak not found by automatic integration algorithm.

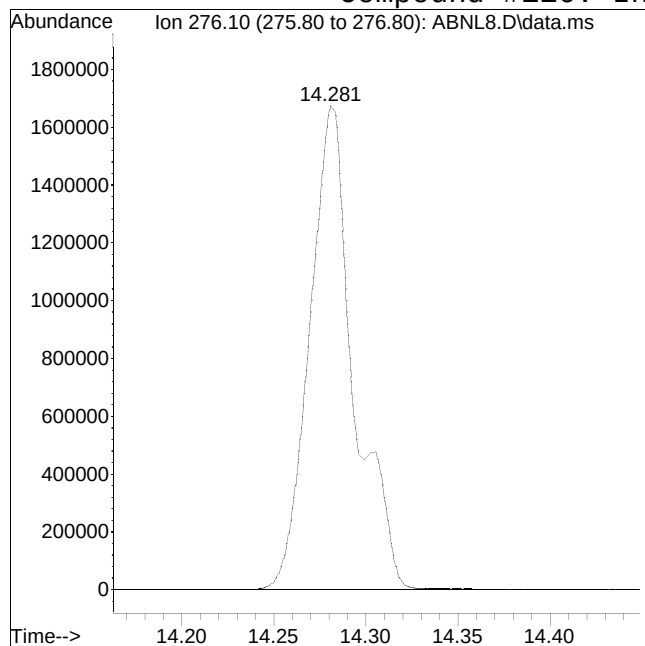


Manual Peak Response = 2183862 M2

Manual Integration Report

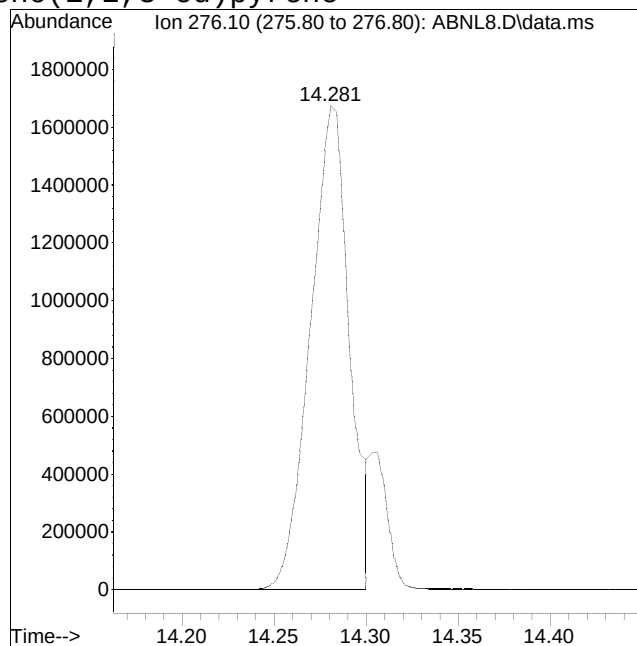
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL8.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 5:49 pm Instrument : Dakota
Sample : IL3,32,,ABNL25 Lot# 11533 Quant Date : 4/17/2025 3:23 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 2794640

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



Manual Peak Response = 2460147 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL7.D
 Acq On : 16 Apr 2025 6:12 pm
 Operator : Dakota:HNY
 Sample : IL4,32,,ABNL10 Lot# 11534
 Misc : WG2055280
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 15:22:05 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.817	152	41982	4.000	ug/ml	# 0.00
Standard Area 1 = 38918			Recovery =	107.87%		
37) IS1_Naphthalene-d8	6.054	136	147003	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	106.88%		
65) IS1_Acenaphthene-d10	7.757	164	106543	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	108.63%		
90) IS1_Phenanthrene-d10	9.184	188	230710	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	109.28%		
106) IS1_Chrysene-d12	11.819	240	267975	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	111.20%		
115) IS1_Perylene-d12	13.283	264	300634	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	106.47%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.546	112	103256	9.580	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	479.00%#		
7) Phenol-d6	4.487	99	136058	10.234	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	511.70%#		
19) Nitrobenzene-d5	5.358	82	144037	10.108	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	1010.80%#		
48) 2-Fluorobiphenyl	7.120	172	381796	9.971	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	997.10%#		
81) 2,4,6-Tribromophenol	8.519	330	67891	10.823	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	541.15%#		
98) 4-Terphenyl-d14	10.759	244	627171	10.170	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	1017.00%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	2.175	74	73469	10.211	ug/ml#	85
3) Pyridine	2.218	79	120154	9.532	ug/ml#	70
5) Aniline	4.497	93	183649	10.410	ug/ml#	40
6) 2-Chlorophenol	4.612	128	118135	9.902	ug/ml	95
8) Phenol	4.500	94	161524	9.977	ug/ml#	39
9) Bis(2-chloroethyl)ether	4.577	93	102855	9.842	ug/ml	93
10) 1,3-Dichlorobenzene	4.761	146	154311	9.745	ug/ml	94
11) 1,4-Dichlorobenzene	4.835	146	154009	9.434	ug/ml	94
12) 1,2-Dichlorobenzene	4.981	146	146363	9.651	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL7.D
 Acq On : 16 Apr 2025 6:12 pm
 Operator : Dakota:HNY
 Sample : IL4,32,,ABNL10 Lot# 11534
 Misc : WG2055280
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 15:22:05 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.966	79	105325	9.989	ug/ml	97
14)	Bis(2-chloroisopropyl)...	5.115	45	217883	9.701	ug/ml#	95
15)	2-Methylphenol	5.090	108	105806	9.945	ug/ml	96
16)	Hexachloroethane	5.308	117	56743	10.124	ug/ml#	51
17)	n-Nitrosodi-n-propylamine	5.233	70	98680	10.362	ug/ml#	86
18)	3-Methylphenol/4-Methy...	5.246	108	115788	10.159	ug/ml	98
20)	Nitrobenzene	5.376	77	138451	9.925	ug/ml	93
21)	Isophorone	5.616	82	259744	10.138	ug/ml#	92
22)	2-Nitrophenol	5.690	139	68315	11.095	ug/ml	97
23)	2,4-Dimethylphenol	5.759	107	128753	10.494	ug/ml	97
24)	Bis(2-chloroethoxy)met...	5.849	93	151180	10.016	ug/ml	95
25)	2,4-Dichlorophenol	5.926	162	133299	10.474	ug/ml#	91
26)	1,2,4-Trichlorobenzene	6.007	180	155094	9.743	ug/ml	96
38)	Naphthalene	6.072	128	363567	9.653	ug/ml	99
39)	Benzoic Acid	5.842	105	83395	10.015	ug/ml	94
40)	4-Chloroaniline	6.138	65	52705	10.238	ug/ml	99
41)	Hexachlorobutadiene	6.222	225	93235	10.043	ug/ml	98
42)	p-Chloro-m-cresol	6.629	107	112704	10.773	ug/ml	92
43)	2-Methylnaphthalene	6.750	142	249287	10.185	ug/ml	99
44)	1-Methylnaphthalene	6.843	115	85735	10.307	ug/ml	89
45)	Hexachlorocyclopentadiene	6.921	237	126741	10.111	ug/ml	100
46)	2,4,6-Trichlorophenol	7.036	196	115657	10.661	ug/ml	98
47)	2,4,5-Trichlorophenol	7.064	196	122996	10.217	ug/ml	100
49)	2-Chloronaphthalene	7.219	162	309151	10.027	ug/ml#	90
50)	2-Nitroaniline	7.325	138	86231	10.957	ug/ml	94
51)	1,4-Dinitrobenzene	7.456	168	48170	11.872	ug/ml	83
52)	1,3-Dinitrobenzene	7.530	168	55037	11.118	ug/ml#	1
53)	Dimethyl phthalate	7.524	163	384596	10.345	ug/ml#	98
54)	Acenaphthylene	7.614	152	512137	10.499	ug/ml	98
55)	2,6-Dinitrotoluene	7.567	165	80355	10.801	ug/ml#	77
56)	1,2-Dinitrobenzene	7.611	168	34481	11.164	ug/ml#	1
66)	3-Nitroaniline	7.723	138	81929	11.298	ug/ml#	93
67)	Acenaphthene	7.788	154	272161	9.765	ug/ml	89
68)	2,4-Dinitrophenol	7.822	184	57186	10.655	ug/ml#	79
69)	Dibenzofuran	7.956	168	479158	9.600	ug/ml	87
70)	2,4-Dinitrotoluene	7.956	165	120159	11.267	ug/ml	88
71)	4-Nitrophenol	7.903	65	74326	11.296	ug/ml	94
72)	2,3,5,6-Tetrachlorophenol	8.043	232	116737	10.835	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL7.D
 Acq On : 16 Apr 2025 6:12 pm
 Operator : Dakota:HNY
 Sample : IL4,32,,ABNL10 Lot# 11534
 Misc : WG2055280
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 15:22:05 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.083	232	111546	10.541	ug/ml	97
74)	Diethyl phthalate	8.214	149	384293	10.285	ug/ml	99
75)	Fluorene	8.285	166	387593	9.967	ug/ml	94
76)	4-Chlorophenyl phenyl ...	8.301	204	191340	9.499	ug/ml#	82
77)	4-Nitroaniline	8.310	138	88175	11.576	ug/ml	89
78)	4,6-Dinitro-o-cresol	8.344	198	75136	11.389	ug/ml#	62
79)	NDPA/DPA	8.416	169	345192	10.161	ug/ml	95
80)	Azobenzene	8.453	77	349910	10.115	ug/ml	96
82)	4-Bromophenyl phenyl e...	8.770	248	124334	9.769	ug/ml#	79
83)	Hexachlorobenzene	8.823	284	139961	9.424	ug/ml#	81
84)	Pentachlorophenol	9.016	266	94829	10.769	ug/ml	97
91)	Phenanthrene	9.209	178	644599	9.717	ug/ml	100
92)	Anthracene	9.258	178	664248	10.223	ug/ml	99
93)	Carbazole	9.423	167	625869	10.235	ug/ml	99
94)	Di-n-butylphthalate	9.805	149	679742	10.710	ug/ml	98
95)	Fluoranthene	10.359	202	798919	10.221	ug/ml#	90
96)	Benzidine	10.508	184	539661	11.447	ug/ml#	93
97)	Pyrene	10.576	202	856664	10.134	ug/ml	100
99)	Butyl benzyl phthalate	11.285	149	320147	11.623	ug/ml	88
107)	Benzo(a)anthracene	11.810	228	888106	10.094	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.807	252	338551	10.884	ug/ml#	95
109)	Chrysene	11.847	228	816993	9.432	ug/ml	99
110)	Bis(2-ethylhexyl)phtha...	11.919	149	509042	11.492	ug/ml#	94
111)	Di-n-octylphthalate	12.596	149	870364	12.096	ug/ml#	78
112)	Benzo(b)fluoranthene	12.916	252	899074	10.074	ug/ml#	92
113)	Benzo(k)fluoranthene	12.941	252	884531	9.744	ug/ml#	92
114)	Benzo(a)pyrene	13.230	252	860473M2	10.106	ug/ml	
116)	Indeno(1,2,3-cd)pyrene	14.275	276	955538M6	10.233	ug/mL	
117)	Dibenzo(a,h)anthracene	14.297	278	901216	10.015	ug/ml#	89
118)	Benzo(ghi)perylene	14.536	276	890171	9.890	ug/ml#	84

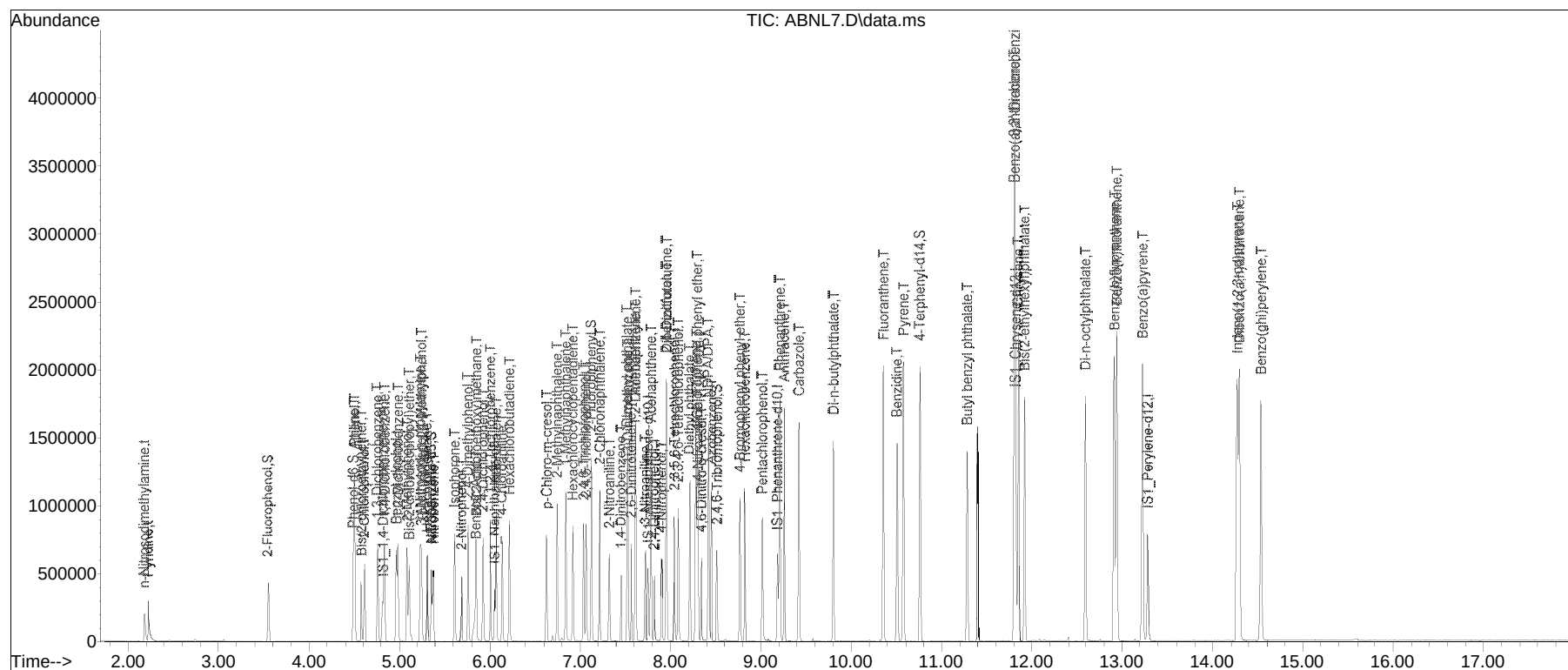
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL7.D
Acq On : 16 Apr 2025 6:12 pm
Operator : Dakota:HNY
Sample : IL4,32,,ABNL10 Lot# 11534
Misc : WG2055280
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 15:22:05 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

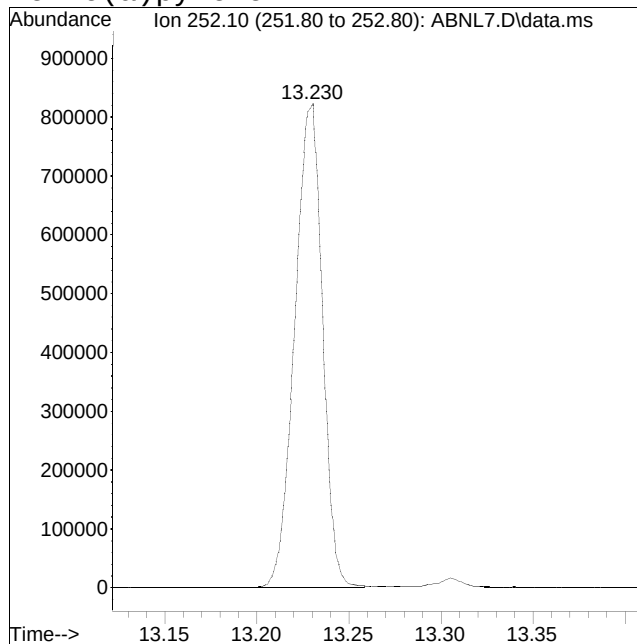
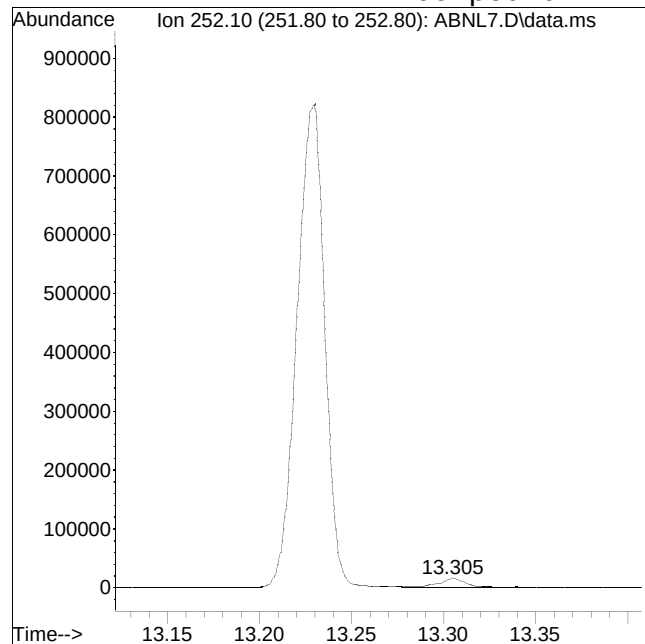
Sub List : ABNical - ABN ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL7.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 6:12 pm Instrument : Dakota
Sample : IL4,32,,ABNL10 Lot# 11534 Quant Date : 4/17/2025 3:23 pm

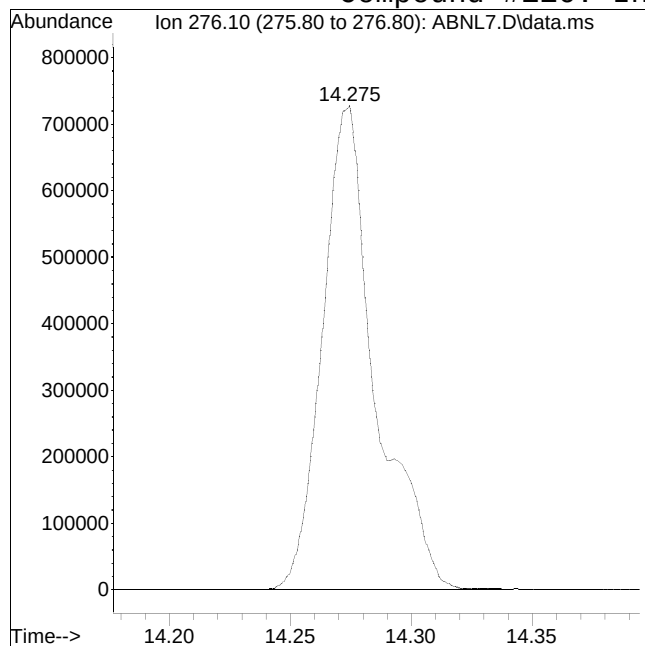
Compound #114: Benzo(a)pyrene



Manual Integration Report

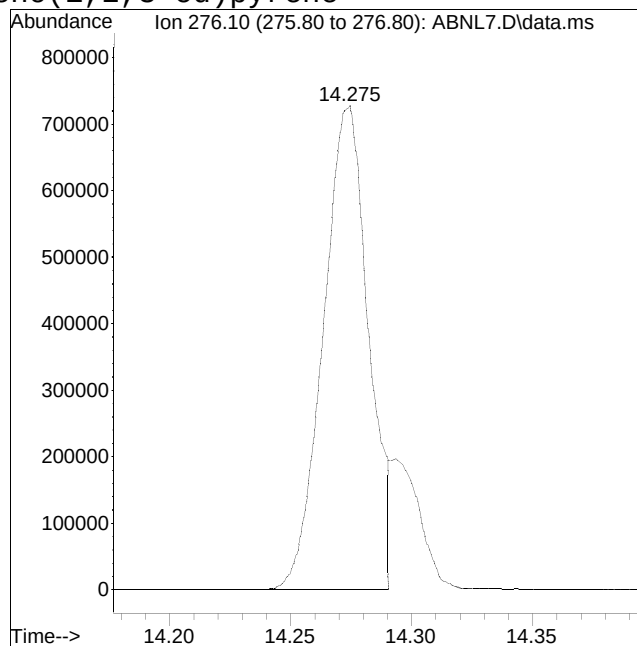
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL7.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 6:12 pm Instrument : Dakota
Sample : IL4,32,,ABNL10 Lot# 11534 Quant Date : 4/17/2025 3:23 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1112517

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



Manual Peak Response = 955538 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL6.D
 Acq On : 16 Apr 2025 6:35 pm
 Operator : Dakota:HNY
 Sample : IL5,32,,ABNL5 Lot# 11535
 Misc : WG2055280
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 15:21:55 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.820	152	38918	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	100.00%		
37) IS1_Naphthalene-d8	6.054	136	137542	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	100.00%		
65) IS1_Acenaphthene-d10	7.754	164	98079	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	100.00%		
90) IS1_Phenanthrene-d10	9.184	188	211127	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	100.00%		
106) IS1_Chrysene-d12	11.819	240	240990	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	100.00%		
115) IS1_Perylene-d12	13.280	264	282356	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	100.00%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.549	112	49462	4.950	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	247.50%#		
7) Phenol-d6	4.487	99	62909	5.105	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	255.25%#		
19) Nitrobenzene-d5	5.358	82	66564	5.039	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	503.90%#		
48) 2-Fluorobiphenyl	7.120	172	166240	4.640	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	464.00%#		
81) 2,4,6-Tribromophenol	8.519	330	29574	5.122	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	256.10%#		
98) 4-Terphenyl-d14	10.760	244	271744	4.815	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	481.50%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	2.184	74	32596	4.887	ug/ml	88
3) Pyridine	2.228	79	55905	4.784	ug/ml#	66
5) Aniline	4.497	93	86595	5.295	ug/ml#	43
6) 2-Chlorophenol	4.612	128	54381	4.917	ug/ml	94
8) Phenol	4.500	94	75313	5.018	ug/ml#	41
9) Bis(2-chloroethyl)ether	4.577	93	46968	4.848	ug/ml	91
10) 1,3-Dichlorobenzene	4.761	146	69417	4.729	ug/ml	93
11) 1,4-Dichlorobenzene	4.835	146	71190	4.704	ug/ml	95
12) 1,2-Dichlorobenzene	4.982	146	67422	4.796	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL6.D
 Acq On : 16 Apr 2025 6:35 pm
 Operator : Dakota:HNY
 Sample : IL5,32,,ABNL5 Lot# 11535
 Misc : WG2055280
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 15:21:55 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.966	79	47418	4.851	ug/ml	96
14)	Bis(2-chloroisopropyl)...	5.115	45	100850	4.844	ug/ml#	96
15)	2-Methylphenol	5.090	108	49369	5.006	ug/ml	97
16)	Hexachloroethane	5.311	117	25854	4.976	ug/ml#	44
17)	n-Nitrosodi-n-propylamine	5.233	70	44186	5.005	ug/ml#	84
18)	3-Methylphenol/4-Methy...	5.246	108	53297	5.044	ug/ml	99
20)	Nitrobenzene	5.376	77	64189	4.964	ug/ml	94
21)	Isophorone	5.616	82	116049	4.886	ug/ml#	93
22)	2-Nitrophenol	5.690	139	30045	5.264	ug/ml	95
23)	2,4-Dimethylphenol	5.759	107	56367	4.956	ug/ml	98
24)	Bis(2-chloroethoxy)met...	5.849	93	67831	4.848	ug/ml#	94
25)	2,4-Dichlorophenol	5.926	162	58553	4.963	ug/ml#	93
26)	1,2,4-Trichlorobenzene	6.007	180	72576	4.918	ug/ml#	96
38)	Naphthalene	6.072	128	164151	4.658	ug/ml	100
39)	Benzoic Acid	5.824	105	29488	4.678	ug/ml#	84
40)	4-Chloroaniline	6.138	65	23036	4.783	ug/ml	95
41)	Hexachlorobutadiene	6.222	225	41533	4.782	ug/ml	98
42)	p-Chloro-m-cresol	6.629	107	48182	4.923	ug/ml	86
43)	2-Methylnaphthalene	6.750	142	113407	4.952	ug/ml	98
44)	1-Methylnaphthalene	6.843	115	38228	4.912	ug/ml	84
45)	Hexachlorocyclopentadiene	6.921	237	56342	4.804	ug/ml	99
46)	2,4,6-Trichlorophenol	7.033	196	50456	4.971	ug/ml	98
47)	2,4,5-Trichlorophenol	7.064	196	54896	4.874	ug/ml	98
49)	2-Chloronaphthalene	7.216	162	137509	4.767	ug/ml#	89
50)	2-Nitroaniline	7.325	138	36347	4.936	ug/ml	97
51)	1,4-Dinitrobenzene	7.456	168	19024	5.011	ug/ml	89
52)	1,3-Dinitrobenzene	7.530	168	23742	5.126	ug/ml#	1
53)	Dimethyl phthalate	7.524	163	167497	4.815	ug/ml#	97
54)	Acenaphthylene	7.614	152	225605	4.943	ug/ml	99
55)	2,6-Dinitrotoluene	7.567	165	36187	5.199	ug/ml#	76
56)	1,2-Dinitrobenzene	7.608	168	13978	4.837	ug/ml#	1
66)	3-Nitroaniline	7.720	138	35729	5.352	ug/ml#	92
67)	Acenaphthene	7.785	154	122889	4.789	ug/ml	91
68)	2,4-Dinitrophenol	7.822	184	21762	4.719	ug/ml#	80
69)	Dibenzofuran	7.956	168	215445	4.689	ug/ml	88
70)	2,4-Dinitrotoluene	7.953	165	50787	5.173	ug/ml	92
71)	4-Nitrophenol	7.903	65	30842	5.092	ug/ml	92
72)	2,3,5,6-Tetrachlorophenol	8.040	232	49992	5.041	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL6.D
 Acq On : 16 Apr 2025 6:35 pm
 Operator : Dakota:HNY
 Sample : IL5,32,,ABNL5 Lot# 11535
 Misc : WG2055280
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 15:21:55 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.083	232	48646	4.994	ug/ml	98
74)	Diethyl phthalate	8.211	149	163800	4.762	ug/ml	99
75)	Fluorene	8.285	166	169871	4.745	ug/ml	93
76)	4-Chlorophenyl phenyl ...	8.301	204	82694	4.459	ug/ml#	83
77)	4-Nitroaniline	8.307	138	38138	5.439	ug/ml	91
78)	4,6-Dinitro-o-cresol	8.345	198	31703	5.220	ug/ml#	62
79)	NDPA/DPA	8.416	169	149645	4.785	ug/ml	95
80)	Azobenzene	8.450	77	152674	4.794	ug/ml	95
82)	4-Bromophenyl phenyl e...	8.770	248	55403	4.729	ug/ml#	76
83)	Hexachlorobenzene	8.823	284	61694	4.512	ug/ml#	80
84)	Pentachlorophenol	9.016	266	39635	4.890	ug/ml	98
91)	Phenanthrene	9.209	178	288219	4.748	ug/ml	99
92)	Anthracene	9.255	178	289088	4.862	ug/ml	98
93)	Carbazole	9.420	167	275870	4.930	ug/ml	100
94)	Di-n-butylphthalate	9.802	149	287020	4.942	ug/ml	98
95)	Fluoranthene	10.355	202	351132	4.909	ug/ml#	91
96)	Benzidine	10.505	184	217528	5.042	ug/ml#	94
97)	Pyrene	10.573	202	378247	4.889	ug/ml	99
99)	Butyl benzyl phthalate	11.282	149	130713	5.186	ug/ml	88
107)	Benzo(a)anthracene	11.810	228	387764	4.901	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.804	252	142136	5.081	ug/ml#	95
109)	Chrysene	11.847	228	360838	4.632	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.919	149	210929	5.295	ug/ml#	94
111)	Di-n-octylphthalate	12.596	149	348386	5.384	ug/ml#	78
112)	Benzo(b)fluoranthene	12.910	252	403177	5.023	ug/ml#	93
113)	Benzo(k)fluoranthene	12.941	252	404620	4.957	ug/ml#	92
114)	Benzo(a)pyrene	13.224	252	384440	5.021	ug/ml#	91
116)	Indeno(1,2,3-cd)pyrene	14.269	276	442537M6	5.046	ug/mL	
117)	Dibenzo(a,h)anthracene	14.293	278	410488	4.857	ug/ml#	89
118)	Benzo(ghi)perylene	14.533	276	404267	4.782	ug/ml#	85

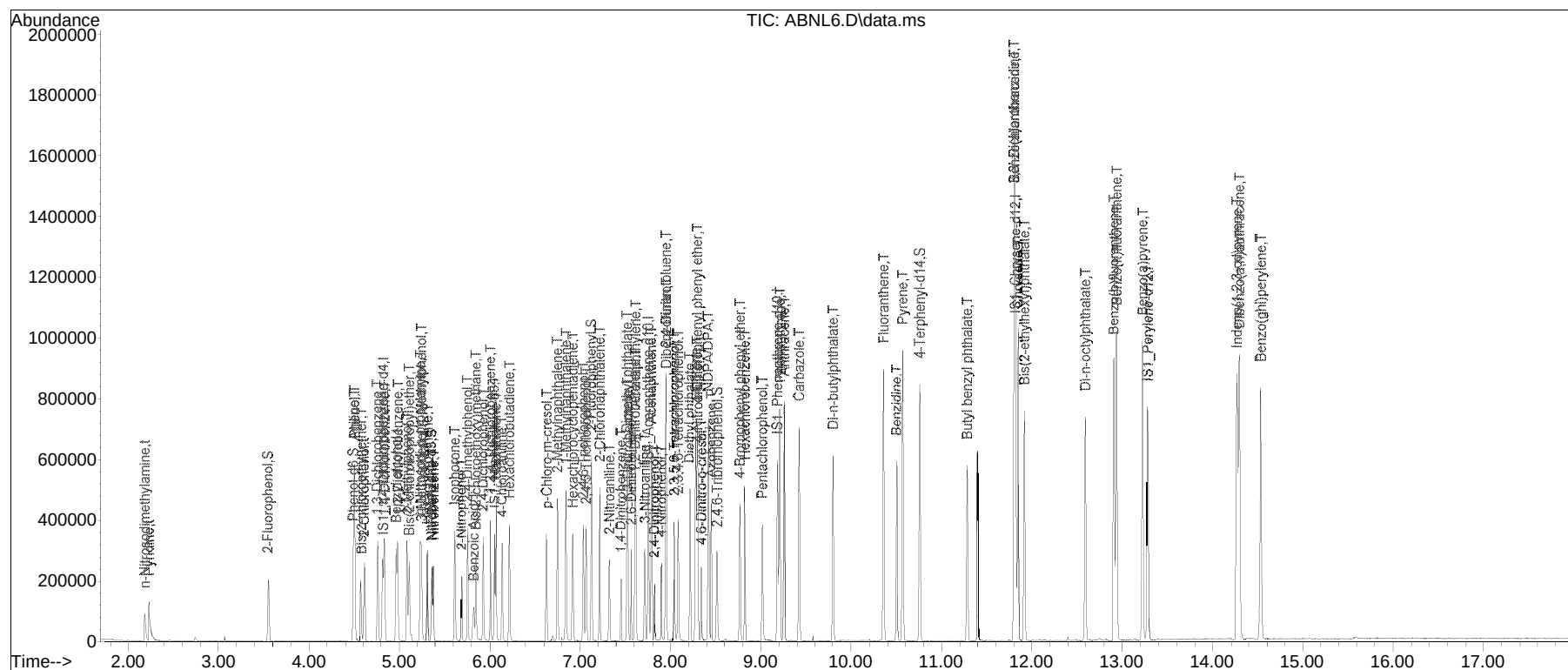
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL6.D
Acq On    : 16 Apr 2025    6:35 pm
Operator  : Dakota:HNY
Sample    : IL5,32,,ABNL5 Lot# 11535
Misc      : WG2055280
ALS Vial  : 4    Sample Multiplier: 1
```

Quant Time: Apr 17 15:21:55 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

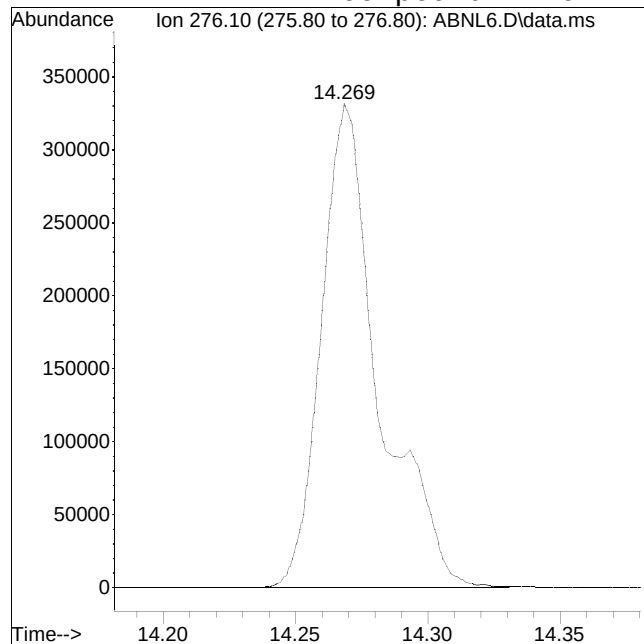
Sub List : ABNical - ABN ical sublistVTICAL\AP9L6.D•



Manual Integration Report

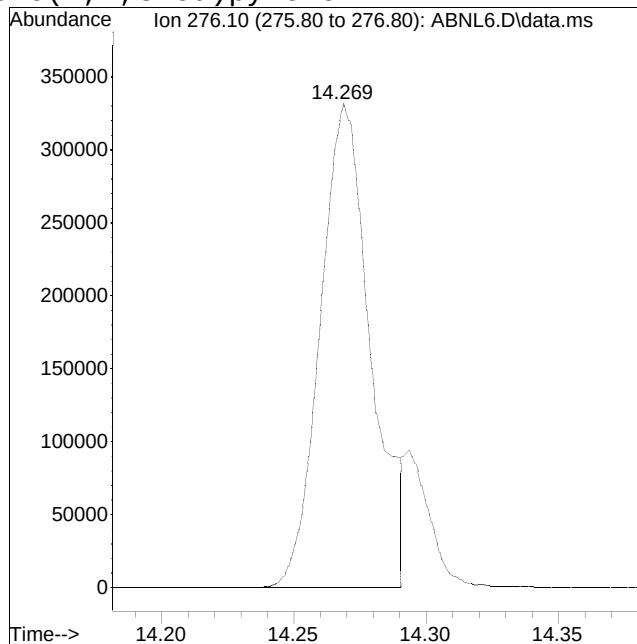
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL6.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 6:35 pm Instrument : Dakota
Sample : IL5,32,,ABNL5 Lot# 11535 Quant Date : 4/17/2025 3:22 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 502714

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



Manual Peak Response = 442537 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL5.D
 Acq On : 16 Apr 2025 6:57 pm
 Operator : Dakota:HNY
 Sample : IL6,32,,ABNL2.5 Lot# 11536
 Misc : WG2055280
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 15:21:46 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.817	152	42421	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	109.00%		
37) IS1_Naphthalene-d8	6.054	136	143709	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	104.48%		
65) IS1_Acenaphthene-d10	7.754	164	100655	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	102.63%		
90) IS1_Phenanthrene-d10	9.184	188	217515	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	103.03%		
106) IS1_Chrysene-d12	11.819	240	250261	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	103.85%		
115) IS1_Perylene-d12	13.283	264	283335	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	100.35%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.549	112	24642	2.263	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	113.15%#		
7) Phenol-d6	4.487	99	33141	2.467	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	123.35%#		
19) Nitrobenzene-d5	5.357	82	34807	2.417	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	241.70%#		
48) 2-Fluorobiphenyl	7.120	172	92944	2.483	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	248.30%#		
81) 2,4,6-Tribromophenol	8.515	330	15028	2.536	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	126.80%#		
98) 4-Terphenyl-d14	10.759	244	140716	2.420	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	242.00%#		
Target Compounds				Qvalue		
2) n-Nitrosodimethylamine	2.181	74	17178	2.363	ug/ml#	97
3) Pyridine	2.234	79	30604	2.403	ug/ml#	64
5) Aniline	4.496	93	44913	2.520	ug/ml#	43
6) 2-Chlorophenol	4.611	128	28440	2.359	ug/ml	93
8) Phenol	4.500	94	38168	2.333	ug/ml#	38
9) Bis(2-chloroethyl)ether	4.577	93	25772	2.440	ug/ml	96
10) 1,3-Dichlorobenzene	4.761	146	36926	2.308	ug/ml	93
11) 1,4-Dichlorobenzene	4.835	146	37975	2.302	ug/ml	93
12) 1,2-Dichlorobenzene	4.981	146	36135	2.358	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL5.D
 Acq On : 16 Apr 2025 6:57 pm
 Operator : Dakota:HNY
 Sample : IL6,32,,ABNL2.5 Lot# 11536
 Misc : WG2055280
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 15:21:46 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.963	79	25379	2.382	ug/ml	95
14)	Bis(2-chloroisopropyl)...	5.115	45	53631	2.363	ug/ml	98
15)	2-Methylphenol	5.090	108	25973	2.416	ug/ml	98
16)	Hexachloroethane	5.308	117	13261	2.341	ug/ml#	43
17)	n-Nitrosodi-n-propylamine	5.233	70	23862	2.480	ug/ml#	84
18)	3-Methylphenol/4-Methy...	5.246	108	27966	2.428	ug/ml	98
20)	Nitrobenzene	5.376	77	34243	2.429	ug/ml	92
21)	Isophorone	5.615	82	61302	2.368	ug/ml#	93
22)	2-Nitrophenol	5.690	139	15507	2.492	ug/ml	96
23)	2,4-Dimethylphenol	5.758	107	31224	2.519	ug/ml	92
24)	Bis(2-chloroethoxy)met...	5.848	93	36723	2.408	ug/ml#	95
25)	2,4-Dichlorophenol	5.926	162	31107	2.419	ug/ml#	90
26)	1,2,4-Trichlorobenzene	6.007	180	38302	2.381	ug/ml#	94
38)	Naphthalene	6.072	128	87284	2.371	ug/ml	99
39)	Benzoic Acid	5.814	105	11690	2.666	ug/ml#	74
40)	4-Chloroaniline	6.138	65	12680	2.520	ug/ml	98
41)	Hexachlorobutadiene	6.221	225	21856	2.408	ug/ml	95
42)	p-Chloro-m-cresol	6.629	107	25712	2.514	ug/ml	95
43)	2-Methylnaphthalene	6.750	142	59422	2.483	ug/ml	97
44)	1-Methylnaphthalene	6.843	115	20053	2.466	ug/ml	86
45)	Hexachlorocyclopentadiene	6.921	237	29784	2.430	ug/ml	99
46)	2,4,6-Trichlorophenol	7.033	196	25845	2.437	ug/ml	98
47)	2,4,5-Trichlorophenol	7.061	196	28945	2.459	ug/ml	99
49)	2-Chloronaphthalene	7.216	162	72943	2.420	ug/ml#	90
50)	2-Nitroaniline	7.322	138	19228	2.499	ug/ml	94
51)	1,4-Dinitrobenzene	7.455	168	10420	2.627	ug/ml	88
52)	1,3-Dinitrobenzene	7.530	168	11677	2.413	ug/ml#	1
53)	Dimethyl phthalate	7.521	163	90039	2.477	ug/ml#	97
54)	Acenaphthylene	7.614	152	119634	2.509	ug/ml	99
55)	2,6-Dinitrotoluene	7.564	165	17902	2.461	ug/ml#	82
56)	1,2-Dinitrobenzene	7.608	168	7225	2.393	ug/ml#	1
66)	3-Nitroaniline	7.720	138	17062	2.490	ug/ml	99
67)	Acenaphthene	7.785	154	64669	2.456	ug/ml	89
68)	2,4-Dinitrophenol	7.819	184	10637	2.392	ug/ml#	81
69)	Dibenzofuran	7.953	168	115168	2.442	ug/ml#	87
70)	2,4-Dinitrotoluene	7.953	165	26841	2.664	ug/ml	90
71)	4-Nitrophenol	7.903	65	15857	2.551	ug/ml	94
72)	2,3,5,6-Tetrachlorophenol	8.043	232	25780	2.533	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL5.D
 Acq On : 16 Apr 2025 6:57 pm
 Operator : Dakota:HNY
 Sample : IL6,32,,ABNL2.5 Lot# 11536
 Misc : WG2055280
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 15:21:46 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.083	232	23513	2.352	ug/ml	96
74)	Diethyl phthalate	8.211	149	87650	2.483	ug/ml	100
75)	Fluorene	8.285	166	92013	2.505	ug/ml	95
76)	4-Chlorophenyl phenyl ...	8.304	204	46990	2.469	ug/ml#	82
77)	4-Nitroaniline	8.307	138	19560	2.718	ug/ml	88
78)	4,6-Dinitro-o-cresol	8.344	198	13832	2.219	ug/ml#	63
79)	NDPA/DPA	8.416	169	81568	2.541	ug/ml	94
80)	Azobenzene	8.450	77	82336	2.519	ug/ml	97
82)	4-Bromophenyl phenyl e...	8.770	248	29060	2.417	ug/ml#	78
83)	Hexachlorobenzene	8.823	284	33185	2.365	ug/ml#	81
84)	Pentachlorophenol	9.013	266	19810	2.381	ug/ml	99
91)	Phenanthrene	9.205	178	152575	2.439	ug/ml	99
92)	Anthracene	9.255	178	153936	2.513	ug/ml	99
93)	Carbazole	9.420	167	143480	2.489	ug/ml	99
94)	Di-n-butylphthalate	9.805	149	146426	2.447	ug/ml	98
95)	Fluoranthene	10.358	202	181845	2.468	ug/ml#	91
96)	Benzidine	10.504	184	108590	2.443	ug/ml#	92
97)	Pyrene	10.573	202	198150	2.486	ug/ml	100
99)	Butyl benzyl phthalate	11.285	149	65550	2.524	ug/ml	87
107)	Benzo(a)anthracene	11.810	228	204934	2.494	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.804	252	73806	2.541	ug/ml#	97
109)	Chrysene	11.844	228	193677	2.394	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.919	149	106495	2.574	ug/ml#	94
111)	Di-n-octylphthalate	12.596	149	174186	2.592	ug/ml#	78
112)	Benzo(b)fluoranthene	12.913	252	208800	2.505	ug/ml#	92
113)	Benzo(k)fluoranthene	12.938	252	211767	2.498	ug/ml#	93
114)	Benzo(a)pyrene	13.224	252	194979	2.452	ug/ml#	92
116)	Indeno(1,2,3-cd)pyrene	14.268	276	219389M6	2.493	ug/mL	
117)	Dibenzo(a,h)anthracene	14.293	278	213649	2.519	ug/ml#	89
118)	Benzo(ghi)perylene	14.529	276	207802	2.450	ug/ml#	85

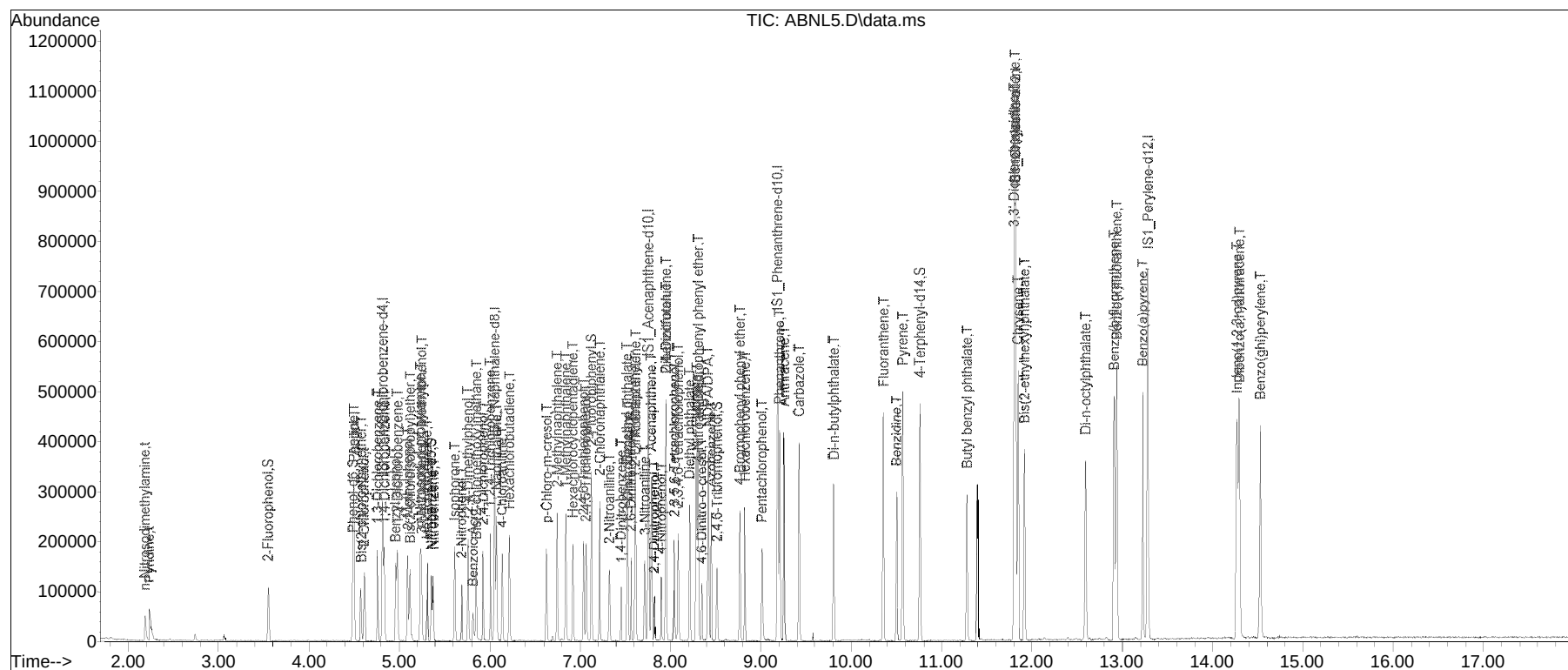
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL5.D
Acq On : 16 Apr 2025 6:57 pm
Operator : Dakota:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11536
Misc : WG2055280
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 15:21:46 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

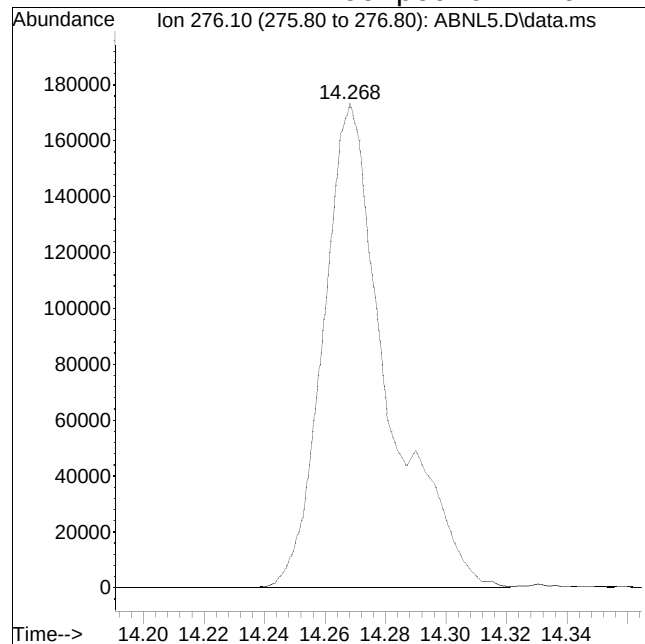
Sub List : ABNical - ABN ical sublistVTICAL\AP9L6.D•



Manual Integration Report

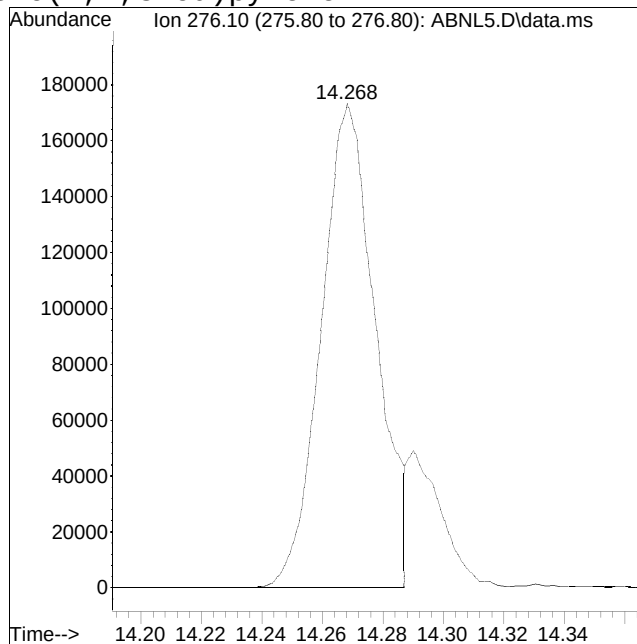
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL5.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 6:57 pm Instrument : Dakota
Sample : IL6,32,,ABNL2.5 Lot# 11536 Quant Date : 4/17/2025 3:22 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 255454

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



Manual Peak Response = 219389 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL4.D
 Acq On : 16 Apr 2025 7:19 pm
 Operator : Dakota:HNY
 Sample : IL7,32,,ABNL1 Lot# 11537
 Misc : WG2055280
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 15:21:36 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.817	152	39846	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	102.38%		
37) IS1_Naphthalene-d8	6.054	136	138974	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	101.04%		
65) IS1_Acenaphthene-d10	7.754	164	96006	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	97.89%		
90) IS1_Phenanthrene-d10	9.184	188	203674	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	96.47%		
106) IS1_Chrysene-d12	11.819	240	234209	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	97.19%		
115) IS1_Perylene-d12	13.280	264	272944	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	96.67%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.549	112	10150	0.992	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	49.60%		
7) Phenol-d6	4.487	99	13312	1.055	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	52.75%		
19) Nitrobenzene-d5	5.357	82	13439	0.994	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	99.40%		
48) 2-Fluorobiphenyl	7.120	172	36947	1.021	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	102.10%		
81) 2,4,6-Tribromophenol	8.515	330	5168	0.914	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	45.70%		
98) 4-Terphenyl-d14	10.759	244	52915	0.972	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	97.20%		
Target Compounds						
2) n-Nitrosodimethylamine	2.187	74	7992	1.170	ug/ml#	84
3) Pyridine	2.256	79	12485M1	1.044	ug/ml	
5) Aniline	4.500	93	17914	1.070	ug/ml#	41
6) 2-Chlorophenol	4.612	128	10880	0.961	ug/ml	97
8) Phenol	4.500	94	15854	1.032	ug/ml#	41
9) Bis(2-chloroethyl)ether	4.577	93	10198	1.028	ug/ml#	84
10) 1,3-Dichlorobenzene	4.764	146	14719	0.979	ug/ml	94
11) 1,4-Dichlorobenzene	4.835	146	15534	1.003	ug/ml	93
12) 1,2-Dichlorobenzene	4.978	146	15292	1.062	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL4.D
 Acq On : 16 Apr 2025 7:19 pm
 Operator : Dakota:HNY
 Sample : IL7,32,,ABNL1 Lot# 11537
 Misc : WG2055280
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 15:21:36 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.966	79	9792	0.978	ug/ml	93
14)	Bis(2-chloroisopropyl)...	5.115	45	21592	1.013	ug/ml#	97
15)	2-Methylphenol	5.093	108	10122	1.002	ug/ml	89
16)	Hexachloroethane	5.311	117	5443	1.023	ug/ml#	38
17)	n-Nitrosodi-n-propylamine	5.233	70	9656	1.068	ug/ml#	82
18)	3-Methylphenol/4-Methy...	5.246	108	11175	1.033	ug/ml	95
20)	Nitrobenzene	5.376	77	13332	1.007	ug/ml	94
21)	Isophorone	5.615	82	24056	0.989	ug/ml#	89
22)	2-Nitrophenol	5.690	139	5679	0.972	ug/ml	96
23)	2,4-Dimethylphenol	5.758	107	11539	0.991	ug/ml	98
24)	Bis(2-chloroethoxy)met...	5.849	93	14031	0.979	ug/ml#	95
25)	2,4-Dichlorophenol	5.926	162	12460	1.032	ug/ml#	90
26)	1,2,4-Trichlorobenzene	6.007	180	15573	1.031	ug/ml#	96
38)	Naphthalene	6.072	128	34610	0.972	ug/ml#	97
39)	Benzoic Acid	5.814	105	3825M1	1.852	ug/ml	
40)	4-Chloroaniline	6.141	65	5571	1.145	ug/ml	89
41)	Hexachlorobutadiene	6.222	225	9136	1.041	ug/ml	95
42)	p-Chloro-m-cresol	6.632	107	10100	1.021	ug/ml	94
43)	2-Methylnaphthalene	6.750	142	23148	1.000	ug/ml	97
44)	1-Methylnaphthalene	6.843	115	7899	1.004	ug/ml	74
45)	Hexachlorocyclopentadiene	6.921	237	11354	0.958	ug/ml	96
46)	2,4,6-Trichlorophenol	7.033	196	10337	1.008	ug/ml	95
47)	2,4,5-Trichlorophenol	7.064	196	10814	0.950	ug/ml	98
49)	2-Chloronaphthalene	7.216	162	29306	1.005	ug/ml#	91
50)	2-Nitroaniline	7.322	138	6639	0.892	ug/ml	93
51)	1,4-Dinitrobenzene	7.455	168	3872	1.009	ug/ml	81
52)	1,3-Dinitrobenzene	7.527	168	4188	0.895	ug/ml#	1
53)	Dimethyl phthalate	7.521	163	34454	0.980	ug/ml#	96
54)	Acenaphthylene	7.614	152	46173	1.001	ug/ml	98
55)	2,6-Dinitrotoluene	7.564	165	6840	0.973	ug/ml#	84
56)	1,2-Dinitrobenzene	7.608	168	3090	1.058	ug/ml#	1
66)	3-Nitroaniline	7.720	138	5973	0.914	ug/ml	96
67)	Acenaphthene	7.785	154	26152	1.041	ug/ml	92
68)	2,4-Dinitrophenol	7.825	184	3015	0.860	ug/ml#	80
69)	Dibenzofuran	7.956	168	45235	1.006	ug/ml	90
70)	2,4-Dinitrotoluene	7.950	165	9630	1.002	ug/ml	90
71)	4-Nitrophenol	7.900	65	5890	0.993	ug/ml	93
72)	2,3,5,6-Tetrachlorophenol	8.040	232	8681	0.894	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL4.D
 Acq On : 16 Apr 2025 7:19 pm
 Operator : Dakota:HNY
 Sample : IL7,32,,ABNL1 Lot# 11537
 Misc : WG2055280
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 15:21:36 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.083	232	10151	1.065	ug/ml	90
74)	Diethyl phthalate	8.211	149	33280	0.988	ug/ml	99
75)	Fluorene	8.285	166	35235	1.006	ug/ml	92
76)	4-Chlorophenyl phenyl ...	8.301	204	17860	0.984	ug/ml#	80
77)	4-Nitroaniline	8.304	138	6831	0.995	ug/ml#	90
78)	4,6-Dinitro-o-cresol	8.344	198	4574	0.769	ug/ml#	67
79)	NDPA/DPA	8.416	169	30669	1.002	ug/ml	95
80)	Azobenzene	8.453	77	31091	0.997	ug/ml	95
82)	4-Bromophenyl phenyl e...	8.770	248	11651	1.016	ug/ml#	75
83)	Hexachlorobenzene	8.823	284	13057	0.976	ug/ml#	83
84)	Pentachlorophenol	9.013	266	6226	0.785	ug/ml	97
91)	Phenanthrene	9.205	178	62041	1.059	ug/ml	98
92)	Anthracene	9.255	178	59219	1.032	ug/ml	99
93)	Carbazole	9.420	167	55688	1.032	ug/ml	99
94)	Di-n-butylphthalate	9.802	149	52682	0.940	ug/ml#	98
95)	Fluoranthene	10.355	202	69301	1.004	ug/ml#	91
96)	Benzidine	10.504	184	36421	0.875	ug/ml#	94
97)	Pyrene	10.573	202	75531	1.012	ug/ml	99
99)	Butyl benzyl phthalate	11.285	149	22238	0.915	ug/ml	90
107)	Benzo(a)anthracene	11.810	228	75707	0.985	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.807	252	26448	0.973	ug/ml#	93
109)	Chrysene	11.844	228	76799	1.014	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.922	149	34301	0.886	ug/ml#	94
111)	Di-n-octylphthalate	12.593	149	55455	0.882	ug/ml#	80
112)	Benzo(b)fluoranthene	12.913	252	78382	1.005	ug/ml#	93
113)	Benzo(k)fluoranthene	12.938	252	83481	1.052	ug/ml#	94
114)	Benzo(a)pyrene	13.224	252	77726	1.045	ug/ml#	92
116)	Indeno(1,2,3-cd)pyrene	14.265	276	85092M6	1.004	ug/mL	
117)	Dibenzo(a,h)anthracene	14.290	278	83308	1.020	ug/ml#	88
118)	Benzo(ghi)perylene	14.529	276	83529	1.022	ug/ml#	83

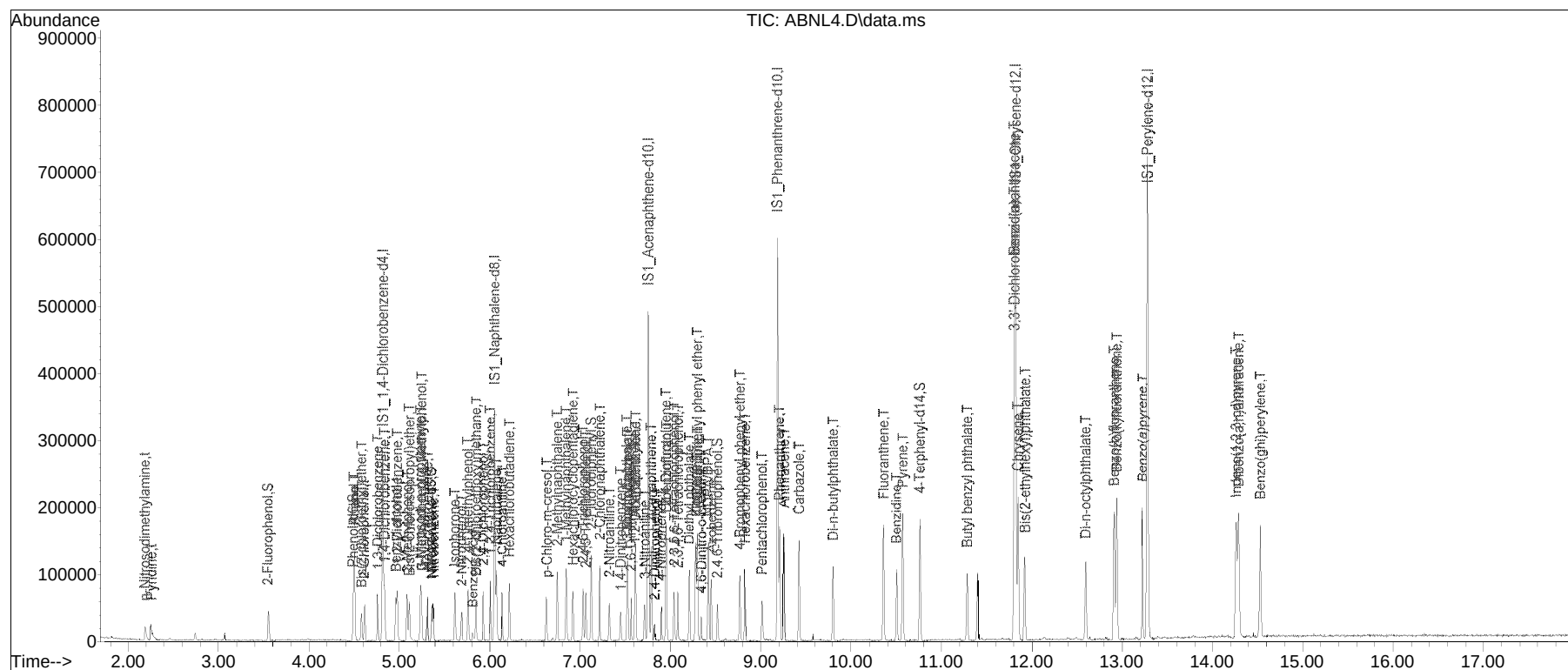
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL4.D
Acq On    : 16 Apr 2025    7:19 pm
Operator  : Dakota:HNY
Sample    : IL7,32,,ABNL1 Lot# 11537
Misc      : WG2055280
ALS Vial  : 6    Sample Multiplier: 1
```

Quant Time: Apr 17 15:21:36 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

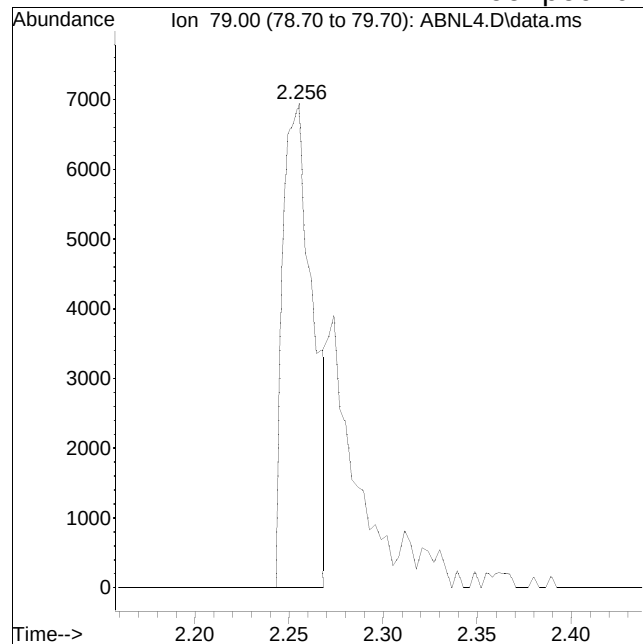
Sub List : ABNical - ABN ical sublistVTICAL\AP9L6.D•



Manual Integration Report

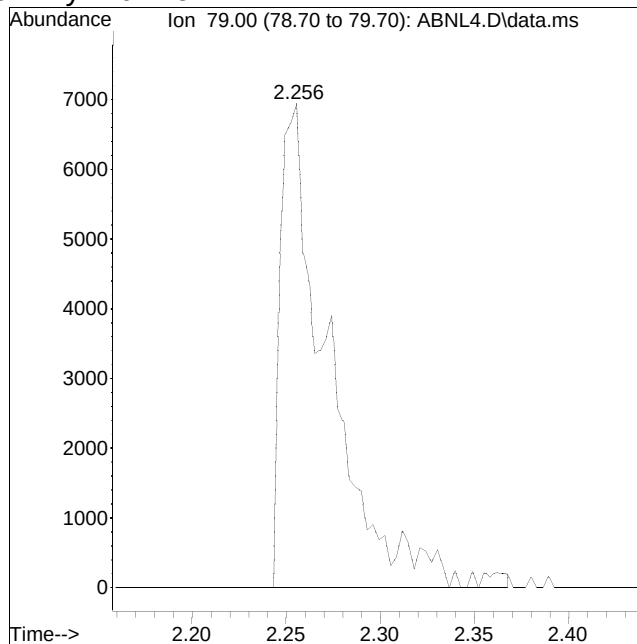
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL4.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 7:19 pm Instrument : Dakota
Sample : IL7,32,,ABNL1 Lot# 11537 Quant Date : 4/17/2025 3:22 pm

Compound #3: Pyridine



Original Peak Response = 7592

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

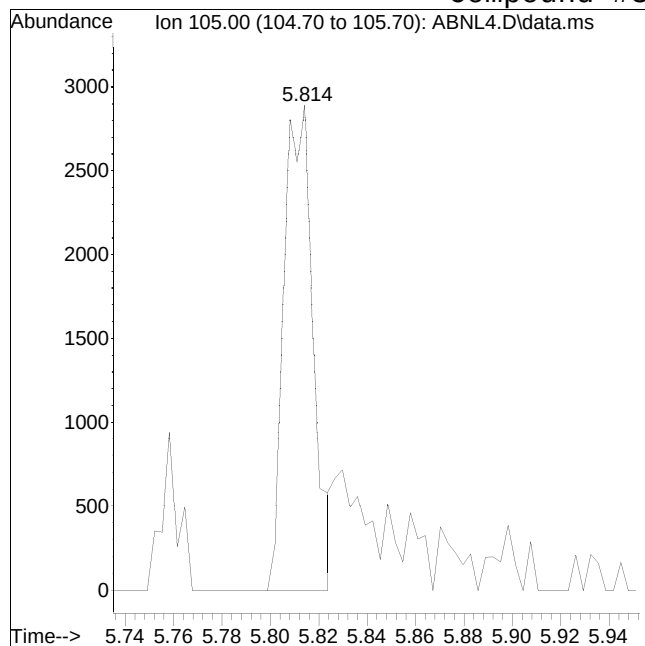


Manual Peak Response = 12485 M1

Manual Integration Report

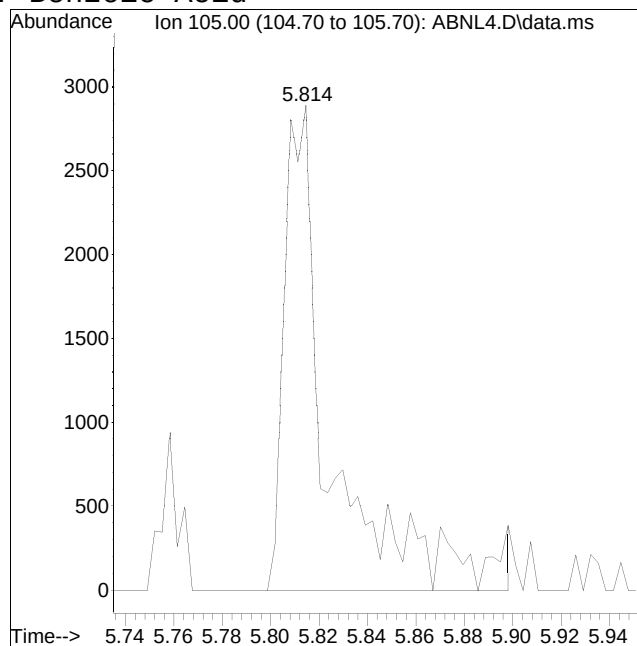
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL4.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 7:19 pm Instrument : Dakota
Sample : IL7,32,,ABNL1 Lot# 11537 Quant Date : 4/17/2025 3:22 pm

Compound #39: Benzoic Acid



Original Peak Response = 2402

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

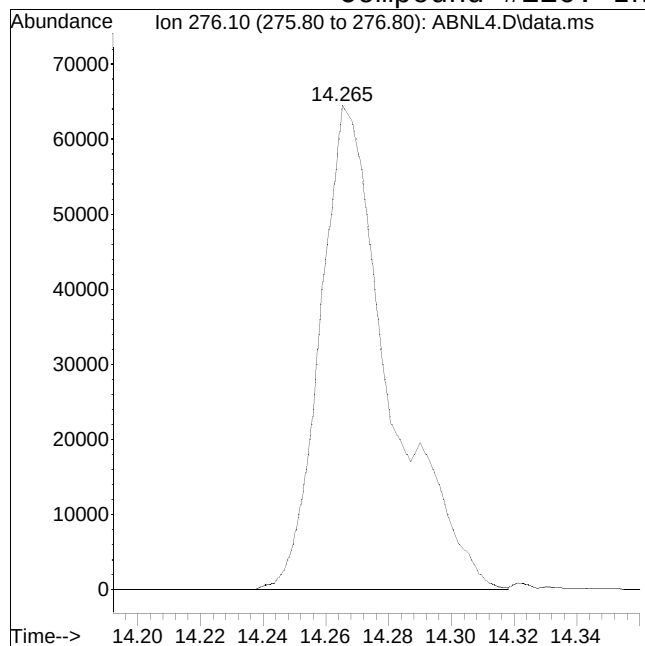


Manual Peak Response = 3825 M1

Manual Integration Report

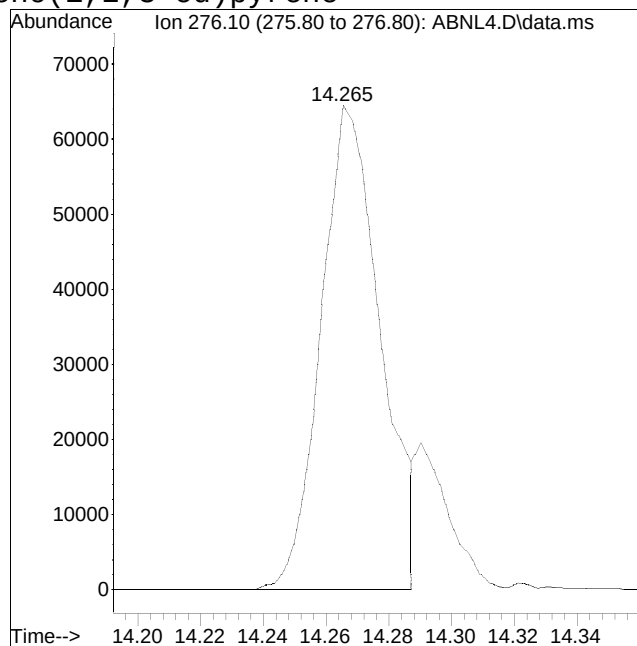
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL4.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 7:19 pm Instrument : Dakota
Sample : IL7,32,,ABNL1 Lot# 11537 Quant Date : 4/17/2025 3:22 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 98964

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



Manual Peak Response = 85092 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL3.D
 Acq On : 16 Apr 2025 7:42 pm
 Operator : Dakota:HNY
 Sample : IL8,32,,ABNL0.5 Lot# 11538
 Misc : WG2055280
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 15:21:28 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.820	152	41311	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	106.15%		
37) IS1_Naphthalene-d8	6.054	136	142776	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	103.81%		
65) IS1_Acenaphthene-d10	7.754	164	98955	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	100.89%		
90) IS1_Phenanthrene-d10	9.184	188	212101	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	100.46%		
106) IS1_Chrysene-d12	11.819	240	236971	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	98.33%		
115) IS1_Perylene-d12	13.283	264	274035	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	97.05%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.549	112	5642	0.532	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	26.60%		
7) Phenol-d6	4.487	99	6171	0.472	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	23.60%		
19) Nitrobenzene-d5	5.358	82	6816	0.486	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	48.60%		
48) 2-Fluorobiphenyl	7.117	172	18928	0.509	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	50.90%		
81) 2,4,6-Tribromophenol	8.515	330	3096	0.531	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	26.55%		
98) 4-Terphenyl-d14	10.759	244	28401	0.501	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	50.10%		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	2.190	74	3863	0.546	ug/ml#	93
3) Pyridine	2.262	79	6945M1	0.560	ug/ml	
5) Aniline	4.500	93	9520	0.548	ug/ml#	52
6) 2-Chlorophenol	4.612	128	6319	0.538	ug/ml	95
8) Phenol	4.500	94	8581	0.539	ug/ml#	53
9) Bis(2-chloroethyl)ether	4.577	93	5994	0.583	ug/ml	96
10) 1,3-Dichlorobenzene	4.761	146	8701M3	0.558	ug/ml	
11) 1,4-Dichlorobenzene	4.832	146	8496	0.529	ug/ml	99
12) 1,2-Dichlorobenzene	4.981	146	7621	0.511	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL3.D
 Acq On : 16 Apr 2025 7:42 pm
 Operator : Dakota:HNY
 Sample : IL8,32,,ABNL0.5 Lot# 11538
 Misc : WG2055280
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 15:21:28 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.966	79	4596	0.443	ug/ml	91
14) Bis(2-chloroisopropyl)...	5.115	45	11410	0.516	ug/ml#	97
15) 2-Methylphenol	5.090	108	5631	0.538	ug/ml	95
16) Hexachloroethane	5.308	117	3054	0.554	ug/ml#	52
17) n-Nitrosodi-n-propylamine	5.233	70	4631	0.494	ug/ml#	81
18) 3-Methylphenol/4-Methy...	5.243	108	5475	0.488	ug/ml#	96
20) Nitrobenzene	5.376	77	7155	0.521	ug/ml	96
21) Isophorone	5.619	82	12639	0.501	ug/ml#	92
22) 2-Nitrophenol	5.690	139	2806	0.463	ug/ml	92
23) 2,4-Dimethylphenol	5.758	107	5789	0.479	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.849	93	7911	0.533	ug/ml#	91
25) 2,4-Dichlorophenol	5.926	162	6232	0.498	ug/ml#	89
26) 1,2,4-Trichlorobenzene	6.007	180	8234	0.526	ug/ml	98
38) Naphthalene	6.072	128	19615	0.536	ug/ml	98
39) Benzoic Acid	5.811	105	1522M1	1.597	ug/ml	
40) 4-Chloroaniline	6.138	65	2606	0.521	ug/ml	99
41) Hexachlorobutadiene	6.222	225	5107	0.566	ug/ml	94
42) p-Chloro-m-cresol	6.626	107	5283	0.520	ug/ml	97
43) 2-Methylnaphthalene	6.747	142	12582	0.529	ug/ml	99
44) 1-Methylnaphthalene	6.843	115	4169	0.516	ug/ml	78
45) Hexachlorocyclopentadiene	6.918	237	5985	0.492	ug/ml	98
46) 2,4,6-Trichlorophenol	7.033	196	5142	0.488	ug/ml	90
47) 2,4,5-Trichlorophenol	7.064	196	5908	0.505	ug/ml	98
49) 2-Chloronaphthalene	7.216	162	15950	0.533	ug/ml#	91
50) 2-Nitroaniline	7.325	138	3550	0.464	ug/ml	99
51) 1,4-Dinitrobenzene	7.452	168	1672	0.424	ug/ml	88
52) 1,3-Dinitrobenzene	7.530	168	2473	0.514	ug/ml#	1
53) Dimethyl phthalate	7.521	163	18399	0.510	ug/ml#	94
54) Acenaphthylene	7.614	152	23199	0.490	ug/ml	98
55) 2,6-Dinitrotoluene	7.561	165	3486	0.482	ug/ml#	79
56) 1,2-Dinitrobenzene	7.605	168	1259	0.420	ug/ml#	1
66) 3-Nitroaniline	7.720	138	3368	0.500	ug/ml#	89
67) Acenaphthene	7.785	154	13245	0.512	ug/ml	85
68) 2,4-Dinitrophenol	7.825	184	1297	0.477	ug/ml#	57
69) Dibenzofuran	7.956	168	24270	0.524	ug/ml	90
70) 2,4-Dinitrotoluene	7.950	165	4661	0.471	ug/ml	93
71) 4-Nitrophenol	7.903	65	2927	0.479	ug/ml	97
72) 2,3,5,6-Tetrachlorophenol	8.040	232	4865	0.486	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL3.D
 Acq On : 16 Apr 2025 7:42 pm
 Operator : Dakota:HNY
 Sample : IL8,32,,ABNL0.5 Lot# 11538
 Misc : WG2055280
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 15:21:28 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.083	232	4665	0.475	ug/ml	96
74)	Diethyl phthalate	8.211	149	17659	0.509	ug/ml	97
75)	Fluorene	8.285	166	18200	0.504	ug/ml	93
76)	4-Chlorophenyl phenyl ...	8.301	204	10335	0.552	ug/ml#	79
77)	4-Nitroaniline	8.304	138	3360	0.475	ug/ml#	83
78)	4,6-Dinitro-o-cresol	8.341	198	2378	0.388	ug/ml#	71
79)	NDPA/DPA	8.416	169	15791	0.500	ug/ml	94
80)	Azobenzene	8.450	77	16290	0.507	ug/ml	94
82)	4-Bromophenyl phenyl e...	8.770	248	6696	0.566	ug/ml#	68
83)	Hexachlorobenzene	8.823	284	7628	0.553	ug/ml#	82
84)	Pentachlorophenol	9.016	266	3377	0.413	ug/ml	97
91)	Phenanthrene	9.205	178	32757	0.537	ug/ml	98
92)	Anthracene	9.255	178	30651	0.513	ug/ml	98
93)	Carbazole	9.420	167	27383	0.487	ug/ml	99
94)	Di-n-butylphthalate	9.802	149	27576	0.473	ug/ml	98
95)	Fluoranthene	10.355	202	37251	0.518	ug/ml#	91
96)	Benzidine	10.505	184	16142	0.372	ug/ml#	91
97)	Pyrene	10.573	202	38930	0.501	ug/ml	98
99)	Butyl benzyl phthalate	11.285	149	10607	0.419	ug/ml	94
107)	Benzo(a)anthracene	11.807	228	39630	0.509	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.804	252	12914	0.469	ug/ml#	95
109)	Chrysene	11.847	228	40128	0.524	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.919	149	17237	0.440	ug/ml#	90
111)	Di-n-octylphthalate	12.596	149	26061	0.410	ug/ml#	85
112)	Benzo(b)fluoranthene	12.913	252	41638	0.528	ug/ml#	90
113)	Benzo(k)fluoranthene	12.938	252	39390	0.491	ug/ml#	93
114)	Benzo(a)pyrene	13.227	252	37218	0.494	ug/ml#	93
116)	Indeno(1,2,3-cd)pyrene	14.269	276	41536M6	0.488	ug/mL	
117)	Dibenzo(a,h)anthracene	14.290	278	42510	0.518	ug/ml#	90
118)	Benzo(ghi)perylene	14.526	276	42396	0.517	ug/ml#	86

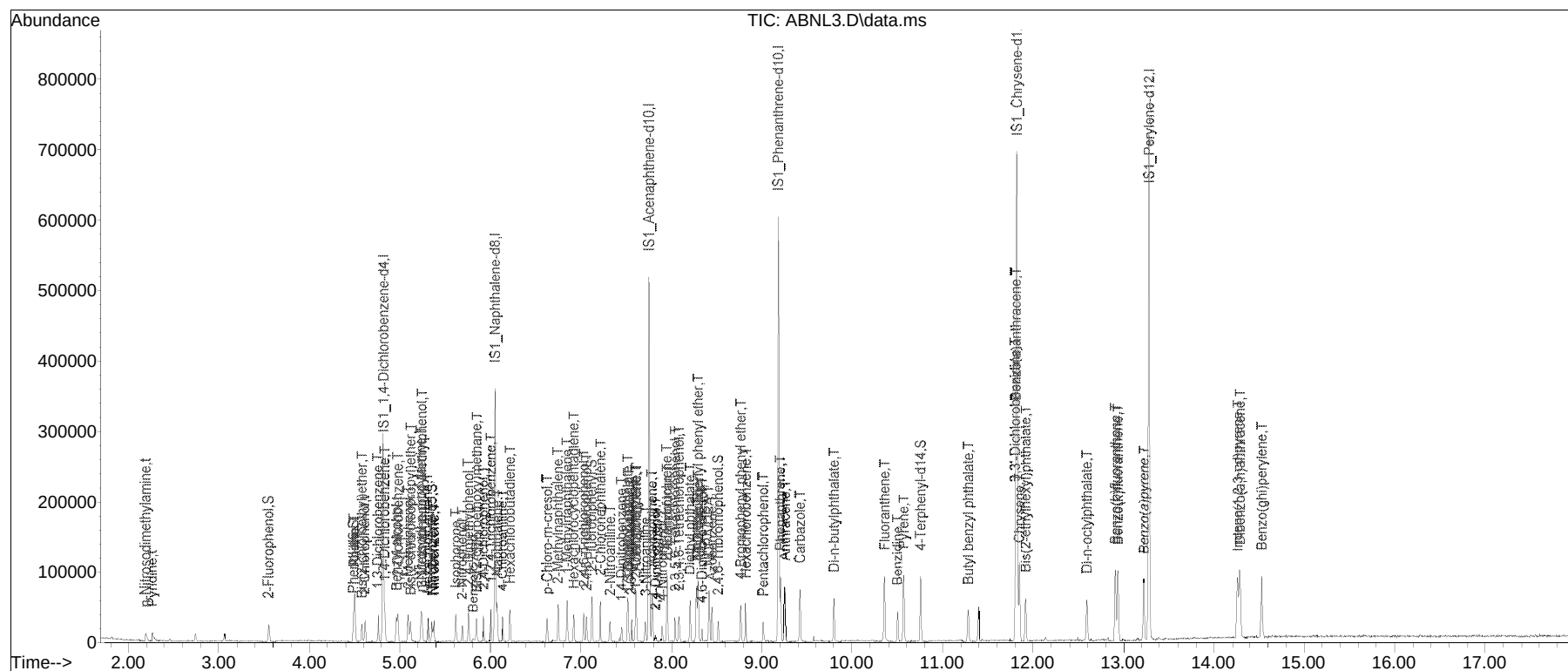
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL3.D
Acq On : 16 Apr 2025 7:42 pm
Operator : Dakota:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11538
Misc : WG2055280
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 15:21:28 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

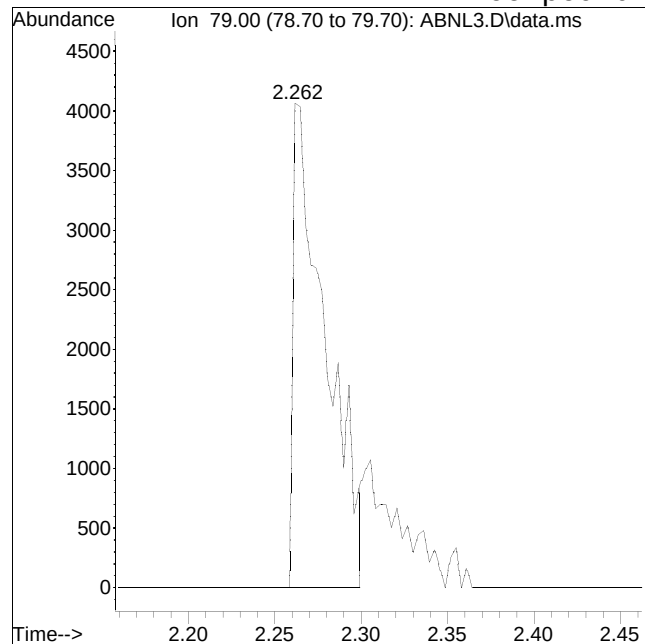
Sub List : ABNical - ABN ical sublistVTICAL\AP9L6.D•



Manual Integration Report

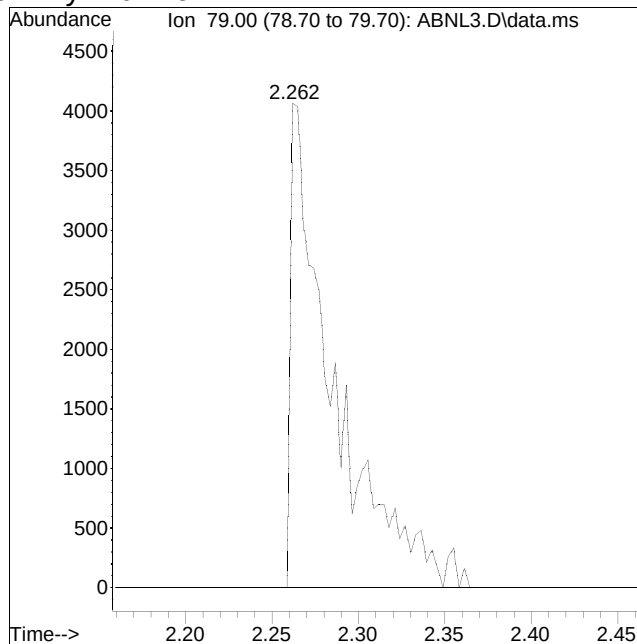
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL3.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 7:42 pm Instrument : Dakota
Sample : IL8,32,,ABNL0.5 Lot# 11538 Quant Date : 4/17/2025 3:22 pm

Compound #3: Pyridine



Original Peak Response = 5285

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

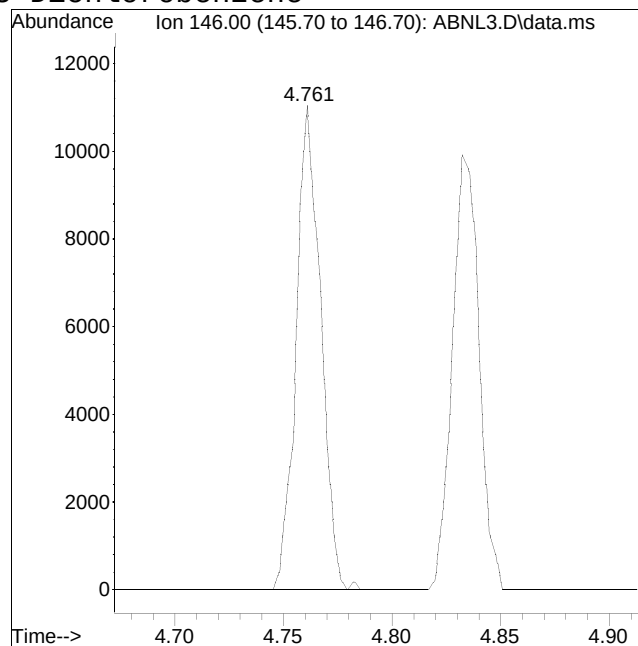
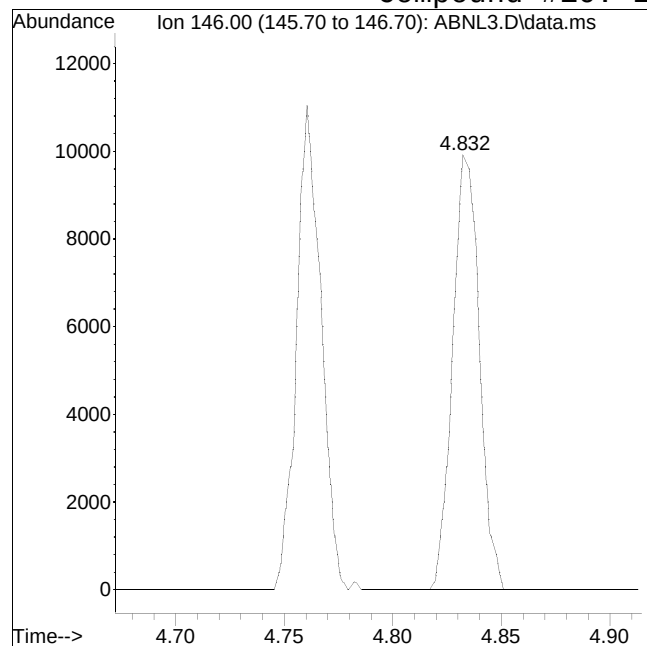


Manual Peak Response = 6945 M1

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL3.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 7:42 pm Instrument : Dakota
Sample : IL8,32,,ABNL0.5 Lot# 11538 Quant Date : 4/17/2025 3:22 pm

Compound #10: 1,3-Dichlorobenzene

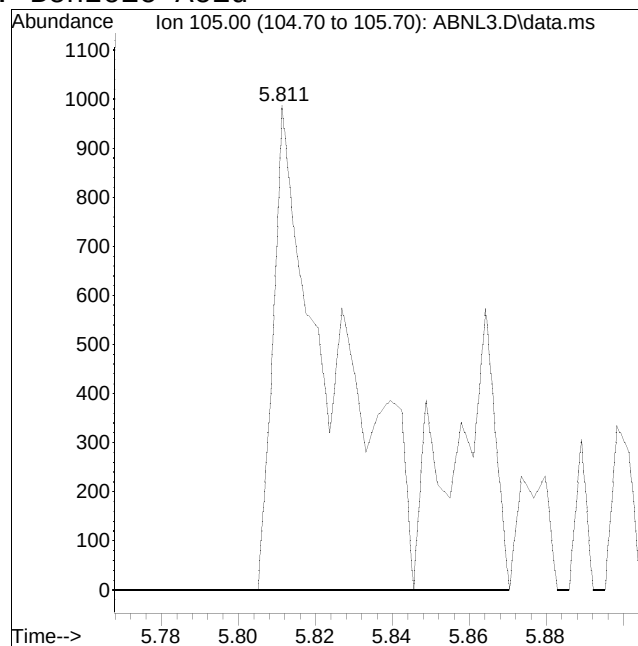
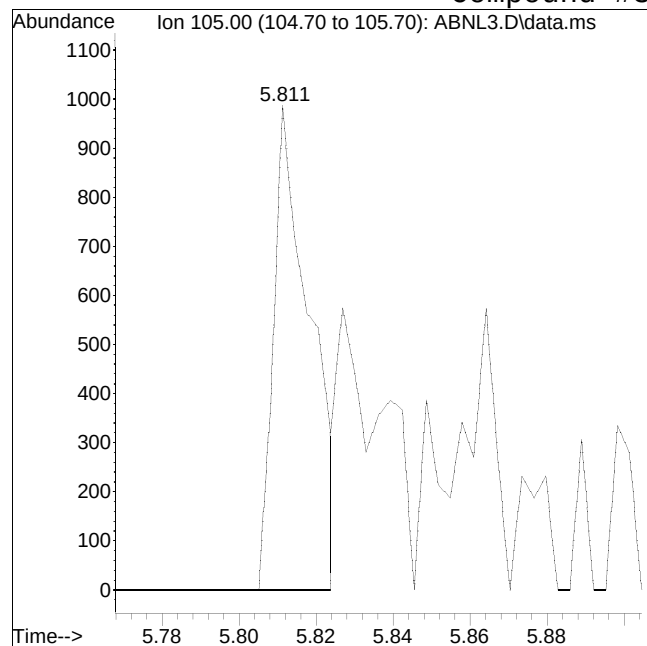


M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL3.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 7:42 pm Instrument : Dakota
Sample : IL8,32,,ABNL0.5 Lot# 11538 Quant Date : 4/17/2025 3:22 pm

Compound #39: Benzoic Acid



Original Peak Response = 653

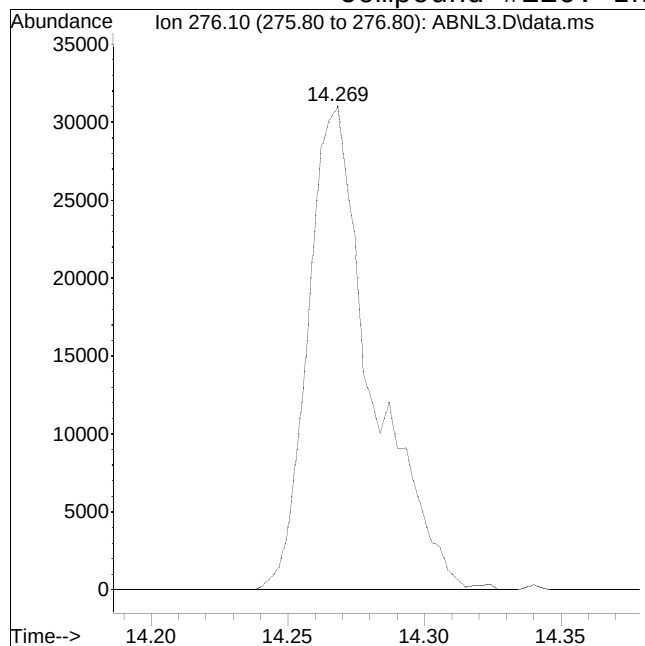
Manual Peak Response = 1522 M1

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

Manual Integration Report

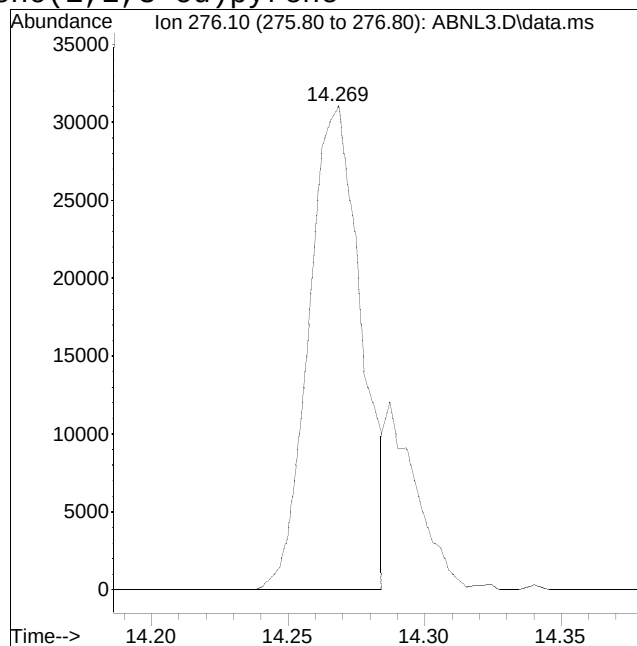
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL3.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 7:42 pm Instrument : Dakota
Sample : IL8,32,,ABNL0.5 Lot# 11538 Quant Date : 4/17/2025 3:22 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 51017

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



Manual Peak Response = 41536 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL2.D
 Acq On : 16 Apr 2025 8:04 pm
 Operator : Dakota:HNY
 Sample : IL9,32,,ABNL0.2 Lot# 11539
 Misc : WG2055280
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 15:21:20 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.817	152	41858	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	107.55%		
37) IS1_Naphthalene-d8	6.051	136	142646	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	103.71%		
65) IS1_Acenaphthene-d10	7.754	164	99251	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	101.19%		
90) IS1_Phenanthrene-d10	9.184	188	216867	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	102.72%		
106) IS1_Chrysene-d12	11.816	240	243997	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	101.25%		
115) IS1_Perylene-d12	13.280	264	273623	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	96.91%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.549	112	2360	0.220	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	11.00%#		
7) Phenol-d6	4.490	99	2408	0.182	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	9.10%#		
19) Nitrobenzene-d5	5.357	82	2692	0.189	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	18.90%#		
48) 2-Fluorobiphenyl	7.117	172	7551	0.203	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	20.30%#		
81) 2,4,6-Tribromophenol	8.515	330	1026	0.176	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	8.80%#		
98) 4-Terphenyl-d14	10.759	244	12202	0.211	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	21.10%#		
Target Compounds						
2) n-Nitrosodimethylamine	2.203	74	1341	0.187	ug/ml#	88
3) Pyridine	2.287	79	2508M1	0.200	ug/ml	
5) Aniline	4.500	93	3066	0.174	ug/ml#	32
6) 2-Chlorophenol	4.615	128	2228	0.187	ug/ml#	91
8) Phenol	4.496	94	3479	0.216	ug/ml#	61
9) Bis(2-chloroethyl)ether	4.580	93	2085	0.200	ug/ml	93
10) 1,3-Dichlorobenzene	4.764	146	3407	0.216	ug/ml	95
11) 1,4-Dichlorobenzene	4.832	146	3382M3	0.208	ug/ml	
12) 1,2-Dichlorobenzene	4.981	146	2946M3	0.195	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RTICAL\
 Data File : ABNL2.D
 Acq On : 16 Apr 2025 8:04 pm
 Operator : Dakota:HNY
 Sample : IL9,32,,ABNL0.2 Lot# 11539
 Misc : WG2055280
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 15:21:20 2025
 Quant Method : I:\8270\Dakota\250416RTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.966	79	2089	0.199	ug/ml	91
14)	Bis(2-chloroisopropyl)...	5.112	45	4414	0.197	ug/ml#	61
15)	2-Methylphenol	5.090	108	2316	0.218	ug/ml#	83
16)	Hexachloroethane	5.311	117	956	0.171	ug/ml#	13
17)	n-Nitrosodi-n-propylamine	5.236	70	1787	0.188	ug/ml#	59
18)	3-Methylphenol/4-Methy...	5.246	108	2270	0.200	ug/ml#	94
20)	Nitrobenzene	5.376	77	2813	0.202	ug/ml#	83
21)	Isophorone	5.619	82	4784	0.187	ug/ml#	93
22)	2-Nitrophenol	5.690	139	1212	0.197	ug/ml#	31
23)	2,4-Dimethylphenol	5.758	107	2384	0.195	ug/ml	97
24)	Bis(2-chloroethoxy)met...	5.845	93	3171	0.211	ug/ml#	89
25)	2,4-Dichlorophenol	5.923	162	2347	0.185	ug/ml#	91
26)	1,2,4-Trichlorobenzene	6.004	180	2860	0.180	ug/ml	88
38)	Naphthalene	6.072	128	8000	0.219	ug/ml#	96
39)	Benzoic Acid	0.000		0	N.D.	d	
40)	4-Chloroaniline	6.141	65	1140	0.228	ug/ml	85
41)	Hexachlorobutadiene	6.221	225	1628	0.181	ug/ml#	85
42)	p-Chloro-m-cresol	6.626	107	1796	0.177	ug/ml	87
43)	2-Methylnaphthalene	6.750	142	4823	0.203	ug/ml	96
44)	1-Methylnaphthalene	6.846	115	1664M3	0.206	ug/ml	
45)	Hexachlorocyclopentadiene	6.921	237	2544	0.209	ug/ml#	90
46)	2,4,6-Trichlorophenol	7.039	196	1955	0.186	ug/ml	87
47)	2,4,5-Trichlorophenol	7.061	196	2137	0.183	ug/ml	95
49)	2-Chloronaphthalene	7.216	162	6488	0.217	ug/ml#	91
50)	2-Nitroaniline	7.325	138	1417	0.186	ug/ml#	90
51)	1,4-Dinitrobenzene	7.452	168	638	0.162	ug/ml	92
52)	1,3-Dinitrobenzene	7.530	168	921	0.192	ug/ml#	1
53)	Dimethyl phthalate	7.521	163	7345	0.204	ug/ml#	94
54)	Acenaphthylene	7.614	152	9310	0.197	ug/ml	98
55)	2,6-Dinitrotoluene	7.567	165	1321	0.183	ug/ml	88
56)	1,2-Dinitrobenzene	7.605	168	546	0.182	ug/ml#	1
66)	3-Nitroaniline	7.716	138	1389	0.206	ug/ml#	88
67)	Acenaphthene	7.785	154	5525	0.213	ug/ml	88
68)	2,4-Dinitrophenol	7.828	184	207M2	0.245	ug/ml	
69)	Dibenzofuran	7.953	168	10047	0.216	ug/ml#	83
70)	2,4-Dinitrotoluene	7.950	165	1685	0.170	ug/ml	91
71)	4-Nitrophenol	7.897	65	970	0.158	ug/ml#	58
72)	2,3,5,6-Tetrachlorophenol	8.040	232	1739	0.173	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL2.D
 Acq On : 16 Apr 2025 8:04 pm
 Operator : Dakota:HNY
 Sample : IL9,32,,ABNL0.2 Lot# 11539
 Misc : WG2055280
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 15:21:20 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.080	232	1818	0.184	ug/ml	89
74)	Diethyl phthalate	8.211	149	7025	0.202	ug/ml	95
75)	Fluorene	8.285	166	7260	0.200	ug/ml	96
76)	4-Chlorophenyl phenyl ...	8.304	204	3744	0.200	ug/ml#	84
77)	4-Nitroaniline	8.307	138	1119	0.158	ug/ml#	72
78)	4,6-Dinitro-o-cresol	8.341	198	699	0.114	ug/ml#	1
79)	NDPA/DPA	8.413	169	5713	0.181	ug/ml#	86
80)	Azobenzene	8.450	77	6280	0.195	ug/ml	91
82)	4-Bromophenyl phenyl e...	8.770	248	2159	0.182	ug/ml#	67
83)	Hexachlorobenzene	8.820	284	2962	0.214	ug/ml#	79
84)	Pentachlorophenol	9.019	266	1157	0.141	ug/ml#	79
91)	Phenanthrene	9.205	178	12553	0.201	ug/ml	95
92)	Anthracene	9.255	178	11559	0.189	ug/ml	96
93)	Carbazole	9.420	167	11440	0.199	ug/ml	97
94)	Di-n-butylphthalate	9.805	149	11213	0.188	ug/ml#	92
95)	Fluoranthene	10.355	202	14534	0.198	ug/ml#	91
96)	Benzidine	10.501	184	4226	0.095	ug/ml#	85
97)	Pyrene	10.573	202	15460	0.195	ug/ml	98
99)	Butyl benzyl phthalate	11.281	149	4684	0.181	ug/ml	92
107)	Benzo(a)anthracene	11.810	228	16153	0.202	ug/ml	96
108)	3,3'-Dichlorobenzidine	11.804	252	5199	0.184	ug/ml#	88
109)	Chrysene	11.844	228	17854	0.226	ug/ml	99
110)	Bis(2-ethylhexyl)phtha...	11.919	149	7049	0.175	ug/ml#	91
111)	Di-n-octylphthalate	12.593	149	10245	0.156	ug/ml#	85
112)	Benzo(b)fluoranthene	12.913	252	15640	0.192	ug/ml#	90
113)	Benzo(k)fluoranthene	12.935	252	17582	0.213	ug/ml#	90
114)	Benzo(a)pyrene	13.224	252	15716	0.203	ug/ml#	89
116)	Indeno(1,2,3-cd)pyrene	14.268	276	14840M6	0.175	ug/mL	
117)	Dibenzo(a,h)anthracene	14.290	278	16890	0.206	ug/ml#	88
118)	Benzo(ghi)perylene	14.529	276	15993	0.195	ug/ml#	85

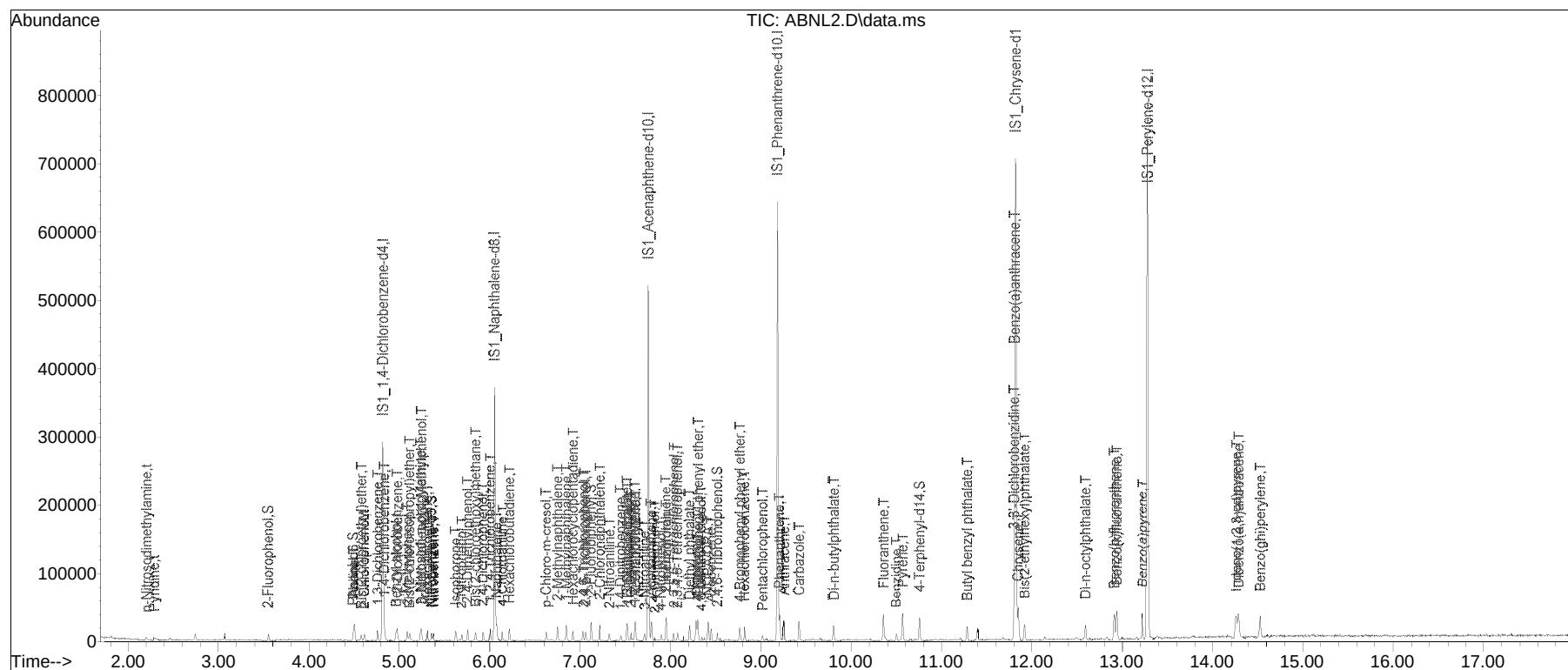
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL2.D
Acq On : 16 Apr 2025 8:04 pm
Operator : Dakota:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11539
Misc : WG2055280
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 15:21:20 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

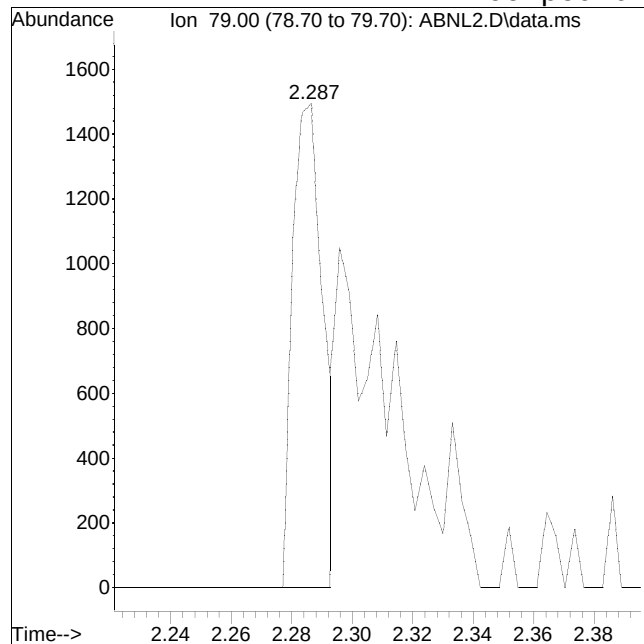
Sub List : ABNical - ABN ical sublistVTICAL\AP9L6.D•



Manual Integration Report

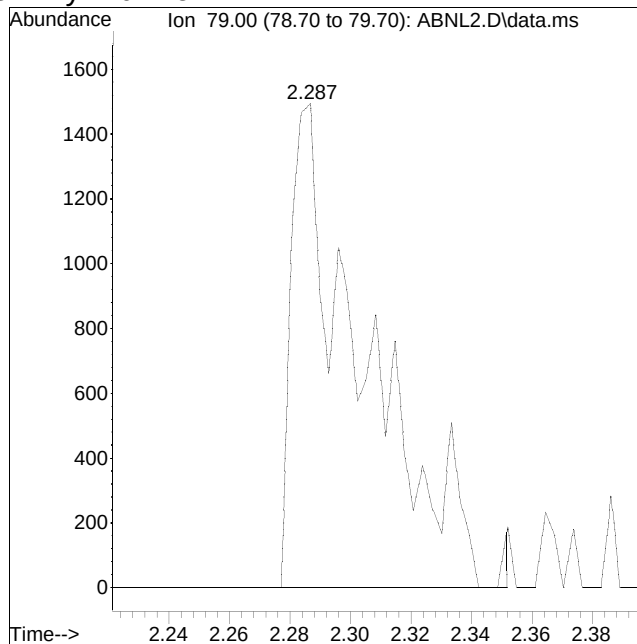
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL2.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:04 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 11539 Quant Date : 4/17/2025 3:22 pm

Compound #3: Pyridine



Original Peak Response = 1047

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

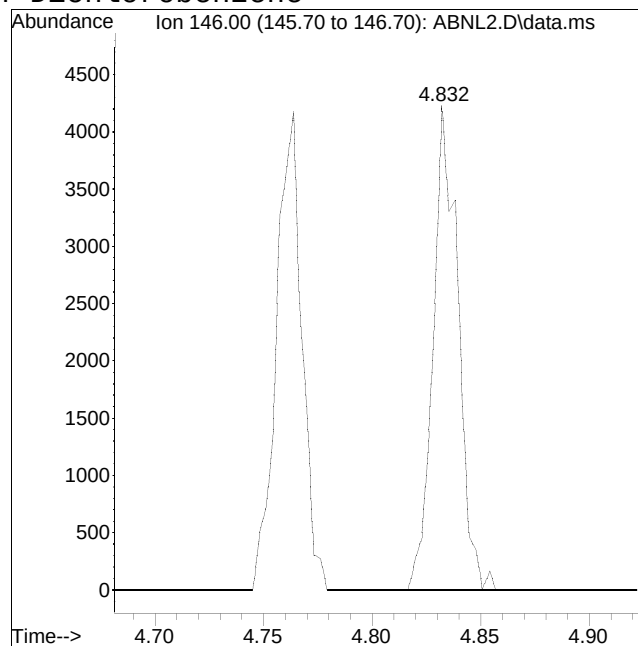
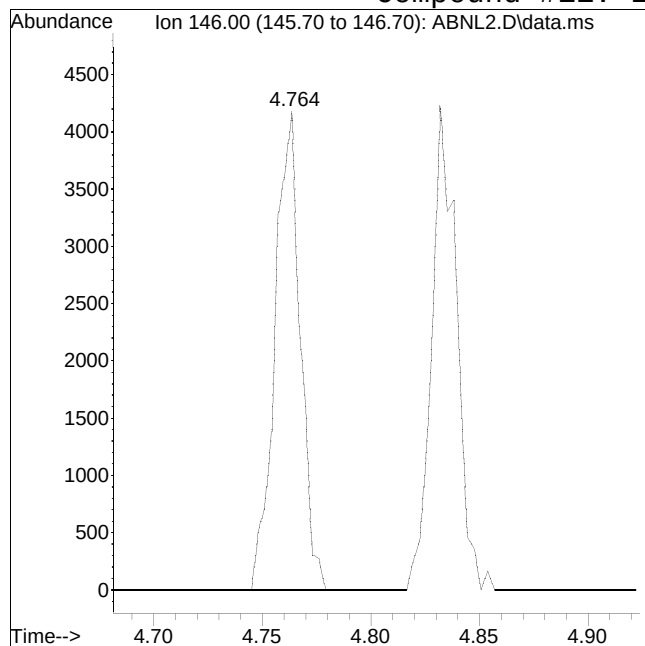


Manual Peak Response = 2508 M1

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL2.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:04 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 11539 Quant Date : 4/17/2025 3:22 pm

Compound #11: 1,4-Dichlorobenzene



Original Peak Response = 3407

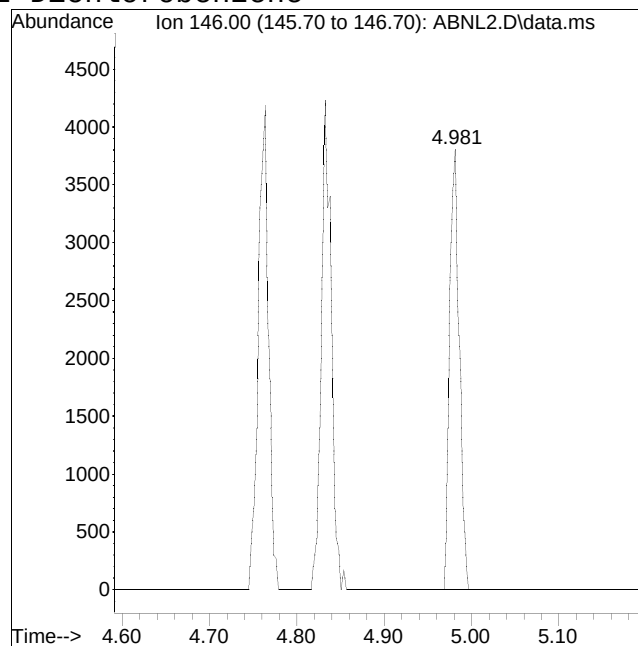
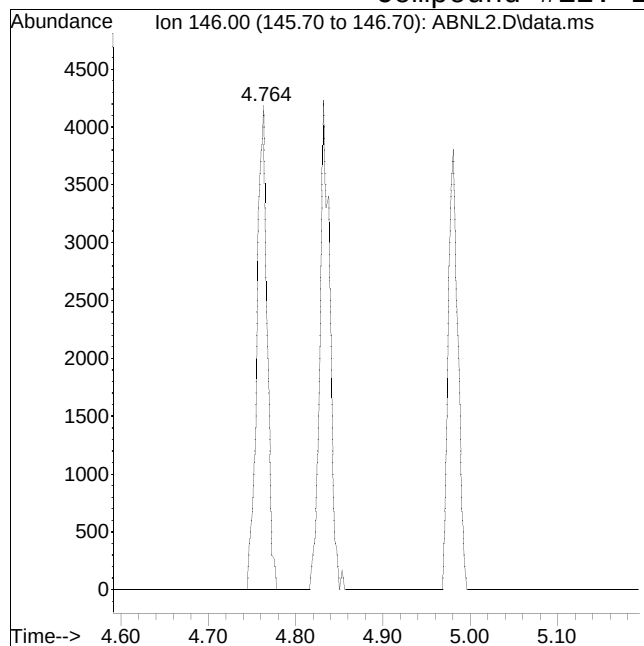
Manual Peak Response = 3382 M3

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\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL2.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:04 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 11539 Quant Date : 4/17/2025 3:22 pm

Compound #12: 1,2-Dichlorobenzene



Original Peak Response = 3407

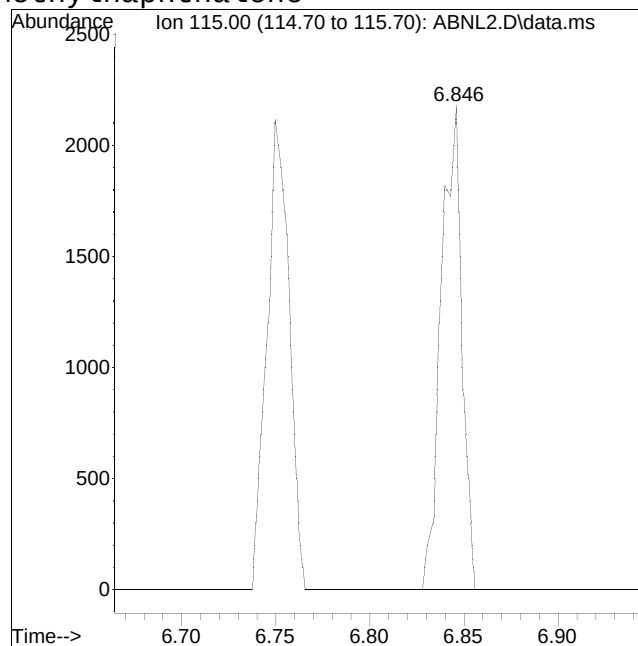
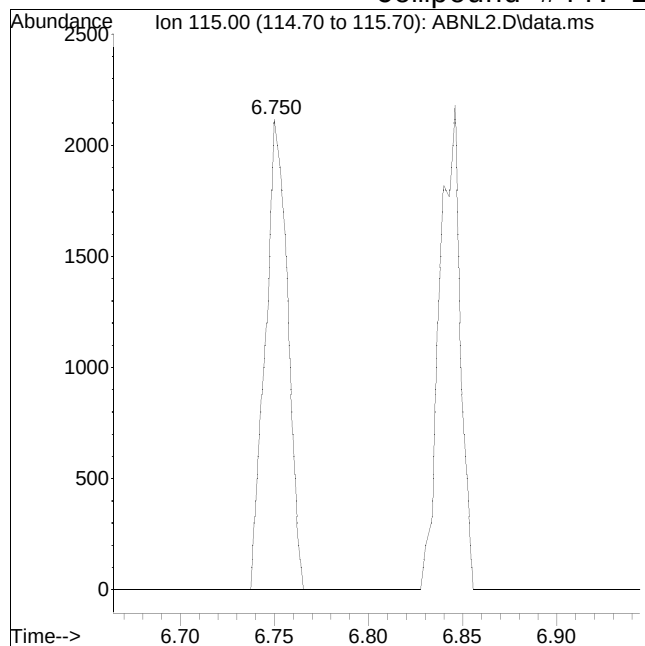
Manual Peak Response = 2946 M3

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\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL2.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:04 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 11539 Quant Date : 4/17/2025 3:22 pm

Compound #44: 1-Methylnaphthalene



Original Peak Response = 1749

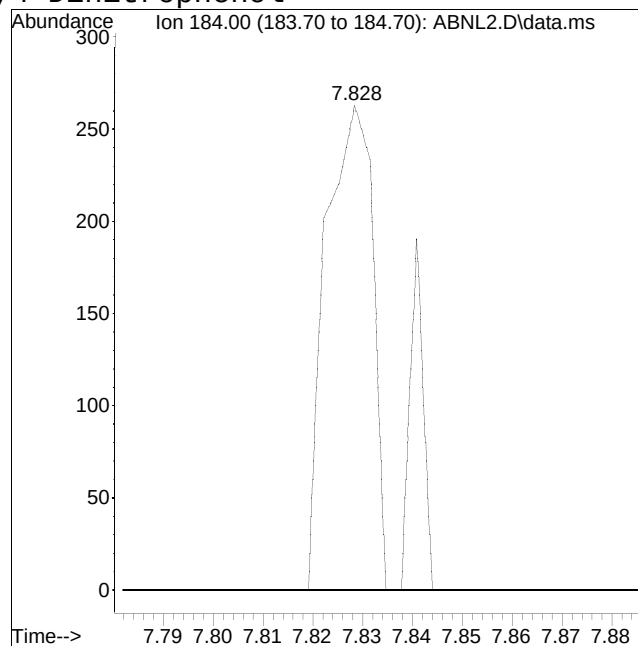
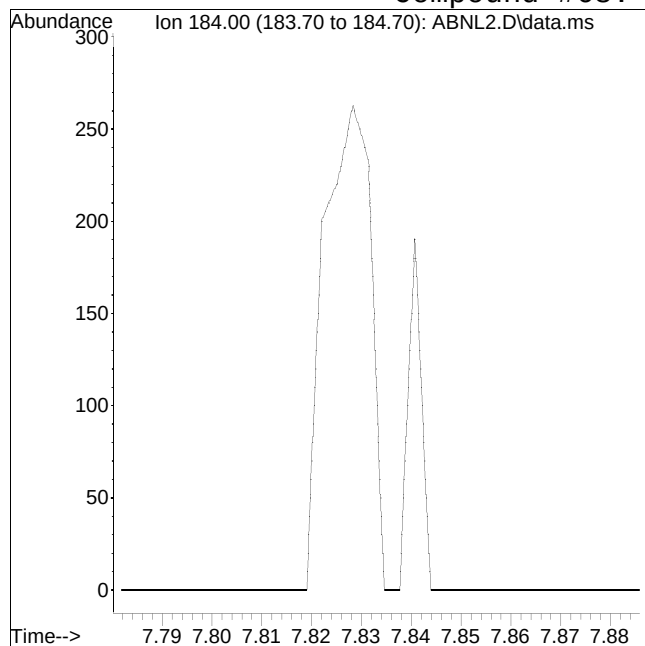
Manual Peak Response = 1664 M3

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\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL2.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:04 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 11539 Quant Date : 4/17/2025 3:22 pm

Compound #68: 2,4-Dinitrophenol



Original Peak Response = 0

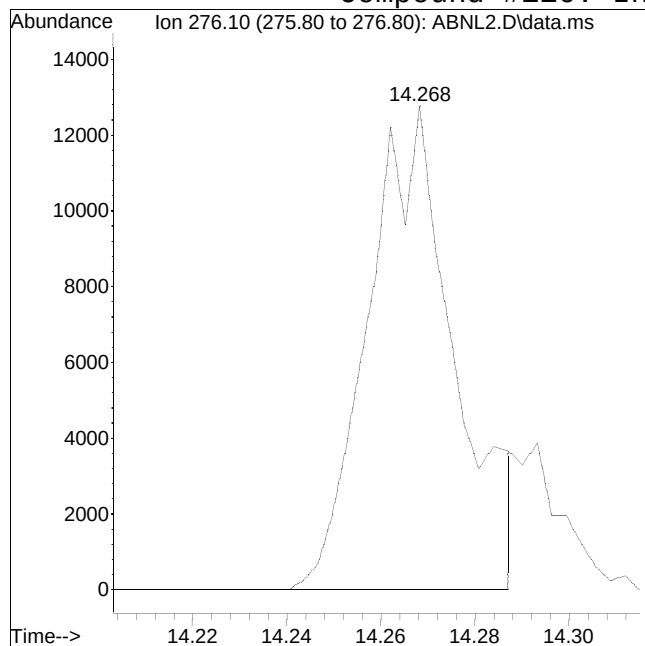
Manual Peak Response = 207 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

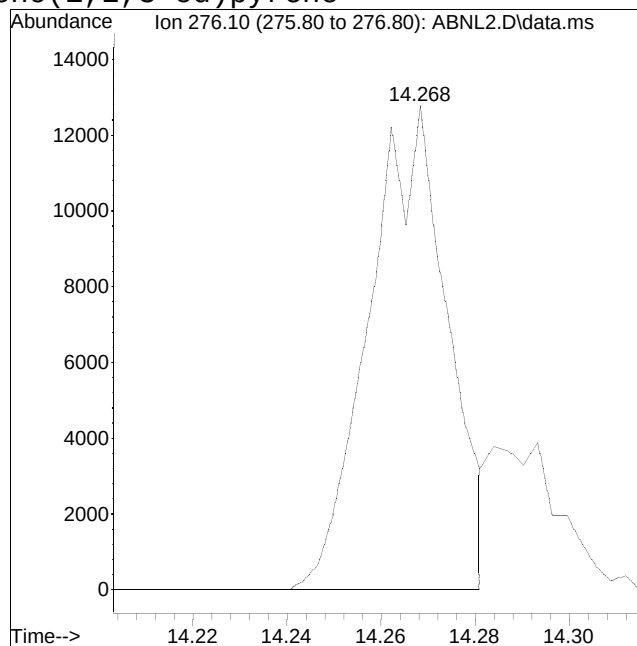
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL2.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:04 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 11539 Quant Date : 4/17/2025 3:22 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 16229

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



Manual Peak Response = 14840 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL1.D
 Acq On : 16 Apr 2025 8:27 pm
 Operator : Dakota:HNY
 Sample : IL10,32,,ABNL0.1 Lot# 11540
 Misc : WG2055280
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 15:21:11 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.817	152	40882	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	105.05%		
37) IS1_Naphthalene-d8	6.051	136	138881	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	100.97%		
65) IS1_Acenaphthene-d10	7.754	164	94717	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	96.57%		
90) IS1_Phenanthrene-d10	9.184	188	211402	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	100.13%		
106) IS1_Chrysene-d12	11.819	240	240546	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	99.82%		
115) IS1_Perylene-d12	13.280	264	274734	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	97.30%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.552	112	1181	0.113	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	5.65%#		
7) Phenol-d6	4.490	99	1328	0.103	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	5.15%#		
19) Nitrobenzene-d5	5.358	82	1456	0.105	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	10.50%#		
48) 2-Fluorobiphenyl	7.117	172	3945	0.109	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	10.90%#		
81) 2,4,6-Tribromophenol	8.522	330	432M2	0.077	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	3.85%#		
98) 4-Terphenyl-d14	10.763	244	6018	0.107	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	10.70%#		
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.203	74	637	0.091	ug/ml#	80
3) Pyridine	2.299	79	562	0.046	ug/ml#	78
5) Aniline	4.497	93	1447	0.084	ug/ml#	31
6) 2-Chlorophenol	4.612	128	1358	0.117	ug/ml#	72
8) Phenol	4.500	94	1467	0.093	ug/ml#	46
9) Bis(2-chloroethyl)ether	4.574	93	950	0.093	ug/ml#	64
10) 1,3-Dichlorobenzene	4.764	146	1752M3	0.114	ug/ml	
11) 1,4-Dichlorobenzene	4.832	146	1996M3	0.126	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL1.D
 Acq On : 16 Apr 2025 8:27 pm
 Operator : Dakota:HNY
 Sample : IL10,32,,ABNL0.1 Lot# 11540
 Misc : WG2055280
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 15:21:11 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
12)	1,2-Dichlorobenzene	4.978	146	1716M3	0.116	ug/ml	
13)	Benzyl alcohol	4.966	79	1185	0.115	ug/ml#	84
14)	Bis(2-chloroisopropyl)...	5.115	45	2515	0.115	ug/ml#	65
15)	2-Methylphenol	5.093	108	853	0.082	ug/ml#	85
16)	Hexachloroethane	5.314	117	606M2	0.111	ug/ml	
17)	n-Nitrosodi-n-propylamine	5.236	70	751	0.081	ug/ml#	59
18)	3-Methylphenol/4-Methy...	5.246	108	1044	0.094	ug/ml#	96
20)	Nitrobenzene	5.373	77	1296	0.095	ug/ml#	39
21)	Isophorone	5.622	82	2691	0.108	ug/ml#	65
22)	2-Nitrophenol	5.693	139	430M2	0.072	ug/ml	
23)	2,4-Dimethylphenol	5.759	107	1088	0.091	ug/ml#	63
24)	Bis(2-chloroethoxy)met...	5.846	93	1449	0.099	ug/ml#	83
25)	2,4-Dichlorophenol	5.926	162	1112	0.090	ug/ml#	60
26)	1,2,4-Trichlorobenzene	6.010	180	1789	0.115	ug/ml#	82
38)	Naphthalene	6.072	128	4145	0.116	ug/ml#	51
39)	Benzoic Acid	0.000		0	N.D.		
40)	4-Chloroaniline	6.141	65	314M2	0.065	ug/ml	
41)	Hexachlorobutadiene	6.222	225	913	0.104	ug/ml#	18
42)	p-Chloro-m-cresol	6.629	107	851	0.086	ug/ml#	73
43)	2-Methylnaphthalene	6.753	142	2191	0.095	ug/ml	88
44)	1-Methylnaphthalene	6.843	115	746M3	0.095	ug/ml	
45)	Hexachlorocyclopentadiene	6.921	237	1199	0.101	ug/ml#	92
46)	2,4,6-Trichlorophenol	7.036	196	952	0.093	ug/ml#	70
47)	2,4,5-Trichlorophenol	7.064	196	1218	0.107	ug/ml#	76
49)	2-Chloronaphthalene	7.219	162	2776	0.095	ug/ml#	85
50)	2-Nitroaniline	7.322	138	680	0.091	ug/ml#	61
51)	1,4-Dinitrobenzene	7.456	168	263M2	0.069	ug/ml	
52)	1,3-Dinitrobenzene	7.524	168	381M2	0.081	ug/ml	
53)	Dimethyl phthalate	7.521	163	3592	0.102	ug/ml#	77
54)	Acenaphthylene	7.614	152	4500	0.098	ug/ml	98
55)	2,6-Dinitrotoluene	7.567	165	626	0.089	ug/ml#	51
56)	1,2-Dinitrobenzene	7.611	168	36M2	0.012	ug/ml	
66)	3-Nitroaniline	7.720	138	392M2	0.061	ug/ml	
67)	Acenaphthene	7.785	154	2471	0.100	ug/ml#	74
68)	2,4-Dinitrophenol	0.000		0	N.D.		
69)	Dibenzofuran	7.956	168	4964	0.112	ug/ml	90
70)	2,4-Dinitrotoluene	7.950	165	725M3	0.076	ug/ml	
71)	4-Nitrophenol	7.900	65	497M3	0.085	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL1.D
 Acq On : 16 Apr 2025 8:27 pm
 Operator : Dakota:HNY
 Sample : IL10,32,,ABNL0.1 Lot# 11540
 Misc : WG2055280
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 15:21:11 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72)	2,3,5,6-Tetrachlorophenol	8.040	232	962	0.100	ug/ml#	71
73)	2,3,4,6-Tetrachlorophenol	8.087	232	917	0.097	ug/ml#	72
74)	Diethyl phthalate	8.211	149	3462	0.104	ug/ml#	84
75)	Fluorene	8.282	166	3744	0.108	ug/ml#	95
76)	4-Chlorophenyl phenyl ...	8.301	204	2175	0.121	ug/ml#	81
77)	4-Nitroaniline	8.301	138	492M2	0.073	ug/ml	
78)	4,6-Dinitro-o-cresol	8.345	198	262M2	0.045	ug/ml	
79)	NDPA/DPA	8.413	169	3472	0.115	ug/ml	98
80)	Azobenzene	8.450	77	3191	0.104	ug/ml#	78
82)	4-Bromophenyl phenyl e...	8.770	248	1271	0.112	ug/ml#	74
83)	Hexachlorobenzene	8.820	284	1552	0.118	ug/ml#	50
84)	Pentachlorophenol	9.016	266	496M2	0.063	ug/ml	
91)	Phenanthrene	9.209	178	6458	0.106	ug/ml#	91
92)	Anthracene	9.255	178	5921	0.099	ug/ml#	83
93)	Carbazole	9.417	167	5766	0.103	ug/ml#	94
94)	Di-n-butylphthalate	9.805	149	5889	0.101	ug/ml#	91
95)	Fluoranthene	10.355	202	7249	0.101	ug/ml#	89
96)	Benzidine	10.502	184	1428	0.033	ug/ml#	68
97)	Pyrene	10.573	202	8549	0.110	ug/ml	99
99)	Butyl benzyl phthalate	11.282	149	1966	0.078	ug/ml#	86
107)	Benzo(a)anthracene	11.810	228	8435	0.107	ug/ml	92
108)	3,3'-Dichlorobenzidine	11.807	252	2409	0.086	ug/ml#	88
109)	Chrysene	11.847	228	8959	0.115	ug/ml	99
110)	Bis(2-ethylhexyl)phtha...	11.919	149	3289	0.083	ug/ml#	95
111)	Di-n-octylphthalate	12.596	149	4918	0.076	ug/ml#	84
112)	Benzo(b)fluoranthene	12.913	252	8254	0.103	ug/ml#	87
113)	Benzo(k)fluoranthene	12.941	252	8028	0.099	ug/ml	97
114)	Benzo(a)pyrene	13.224	252	7366	0.096	ug/ml#	85
116)	Indeno(1,2,3-cd)pyrene	14.262	276	8274	0.097	ug/mL#	85
117)	Dibenzo(a,h)anthracene	14.290	278	7351	0.089	ug/ml#	87
118)	Benzo(ghi)perylene	14.527	276	8624	0.105	ug/ml#	74

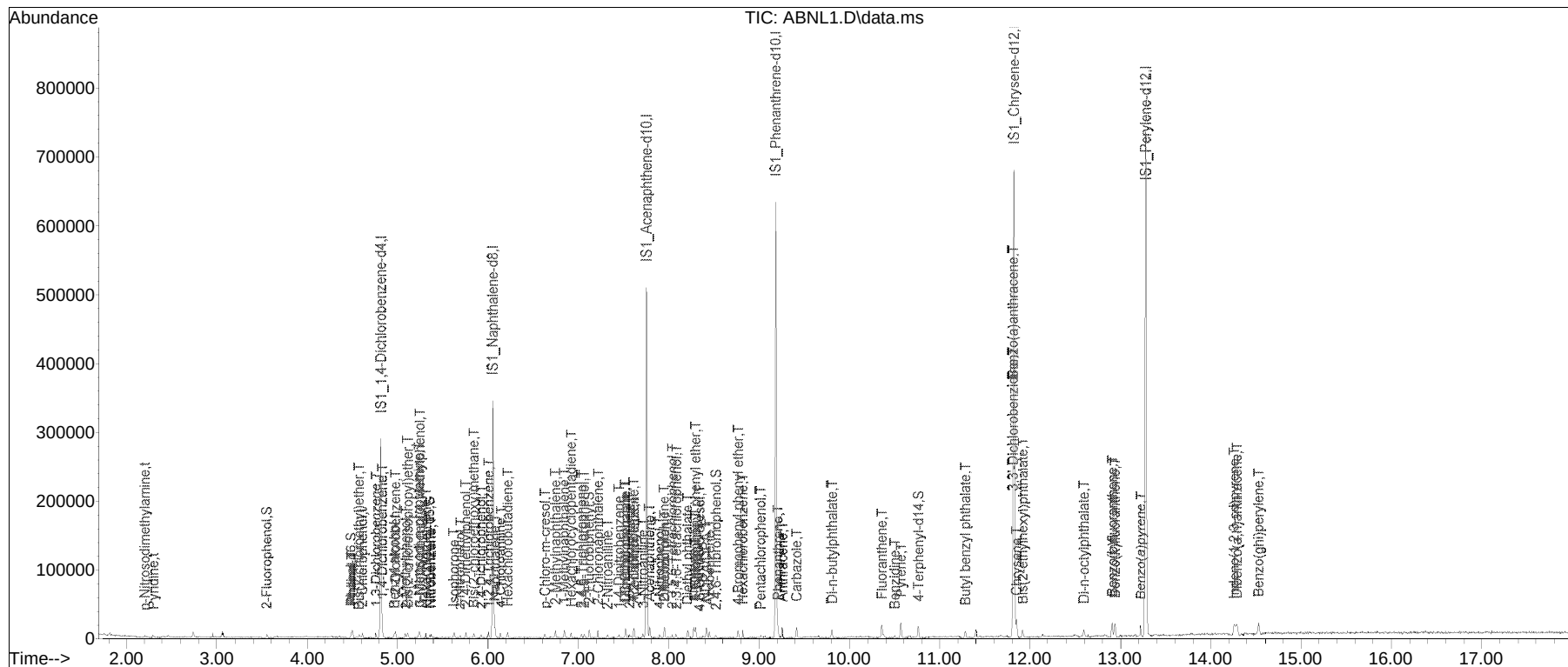
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL1.D
Acq On : 16 Apr 2025 8:27 pm
Operator : Dakota:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11540
Misc : WG2055280
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 15:21:11 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

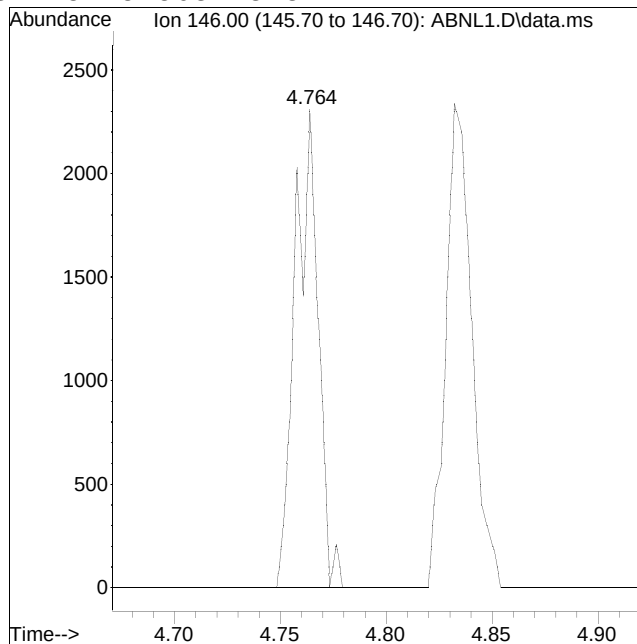
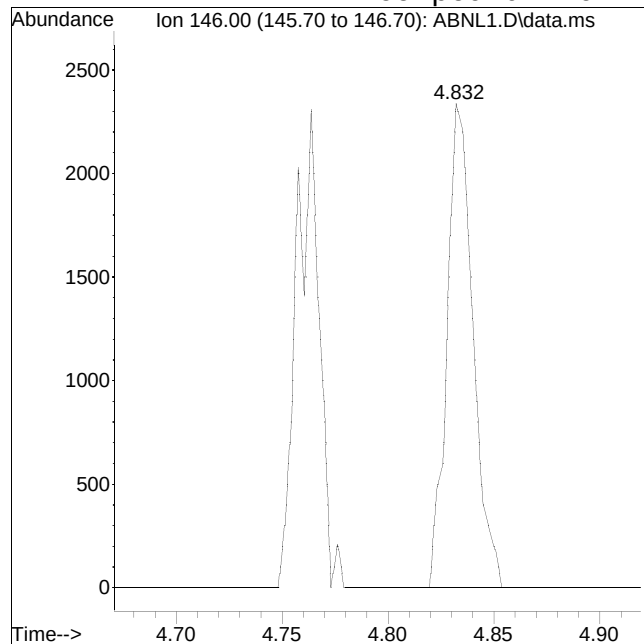
Sub List : ABNical - ABN ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #10: 1,3-Dichlorobenzene

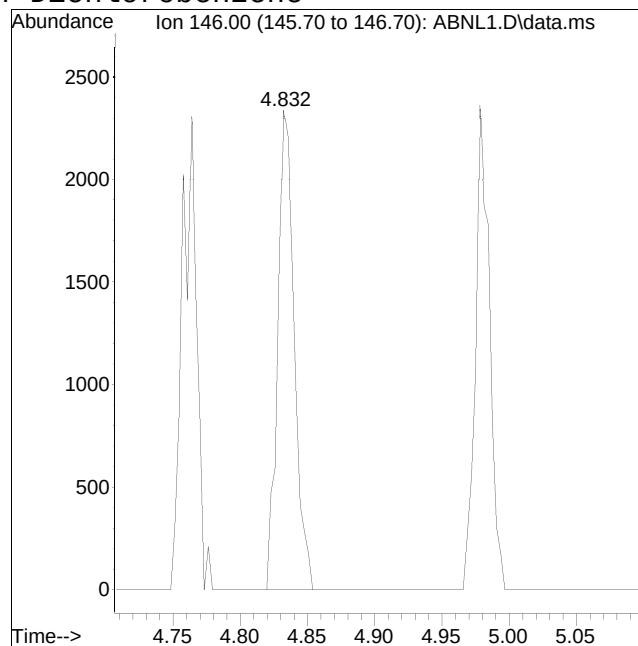
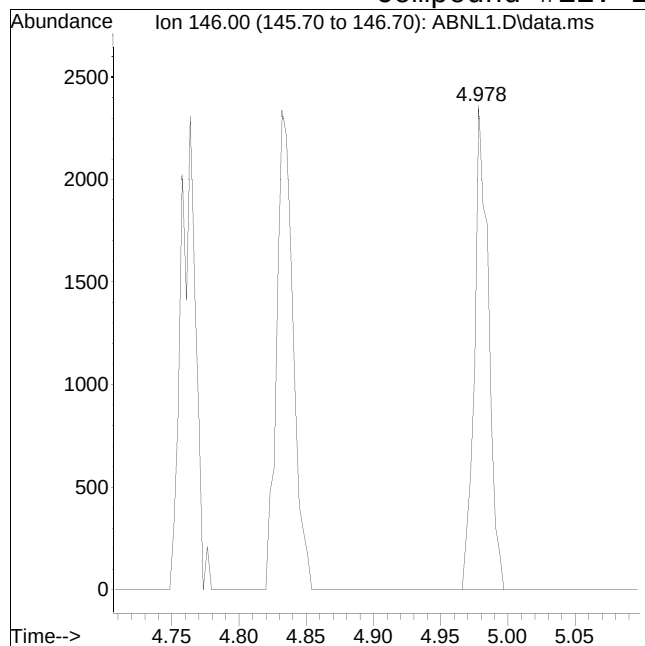


M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #11: 1,4-Dichlorobenzene



Original Peak Response = 1716

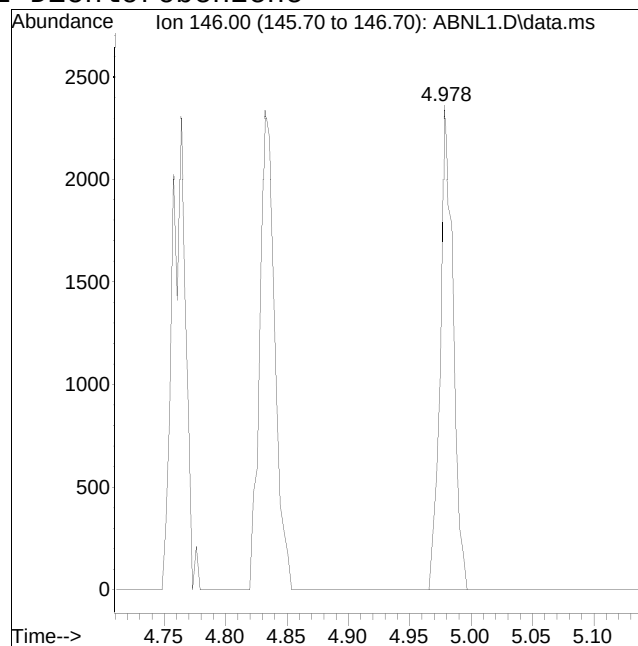
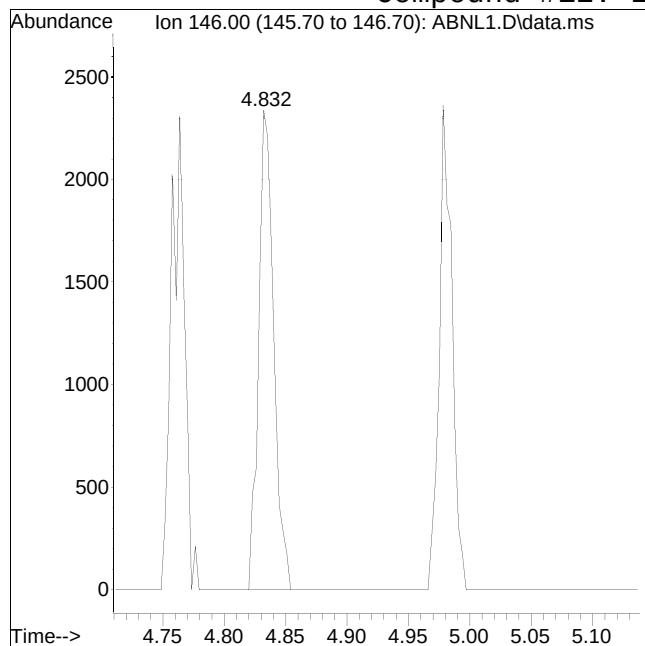
Manual Peak Response = 1996 M3

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\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #12: 1,2-Dichlorobenzene



Original Peak Response = 1996

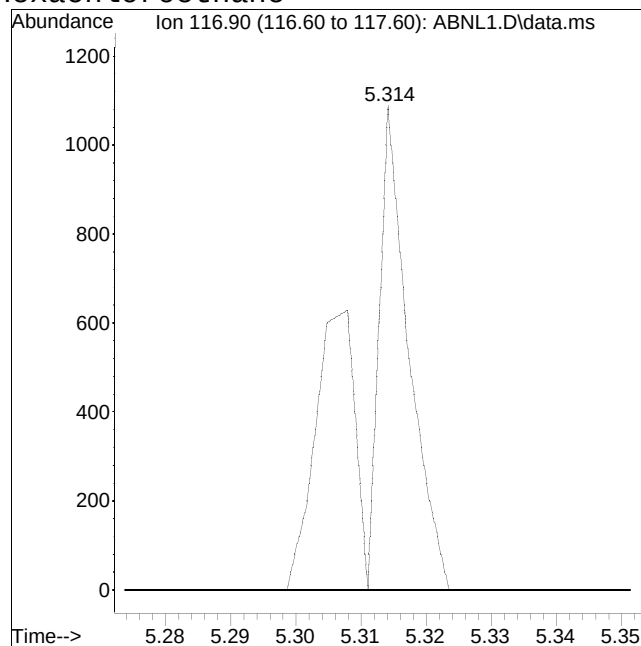
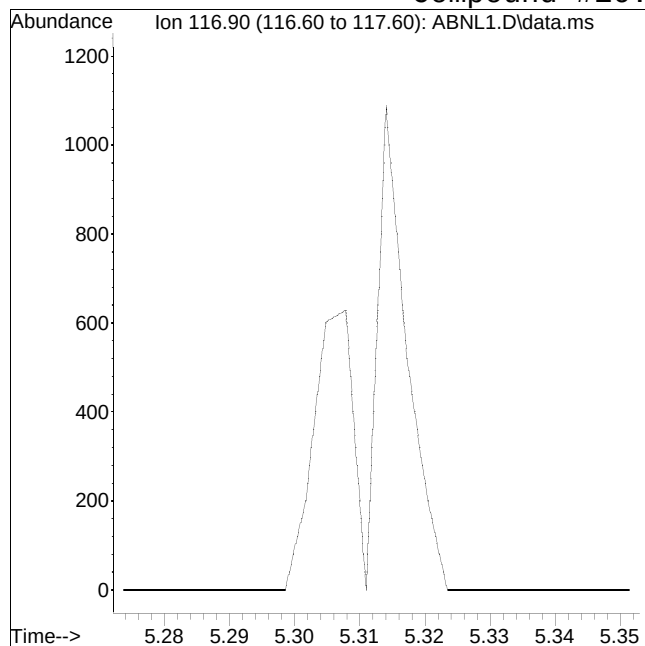
Manual Peak Response = 1716 M3

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\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #16: Hexachloroethane



Original Peak Response = 0

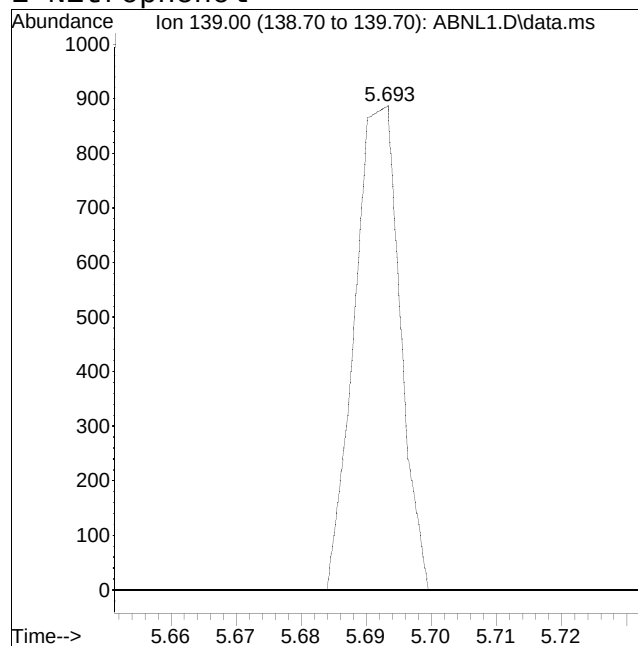
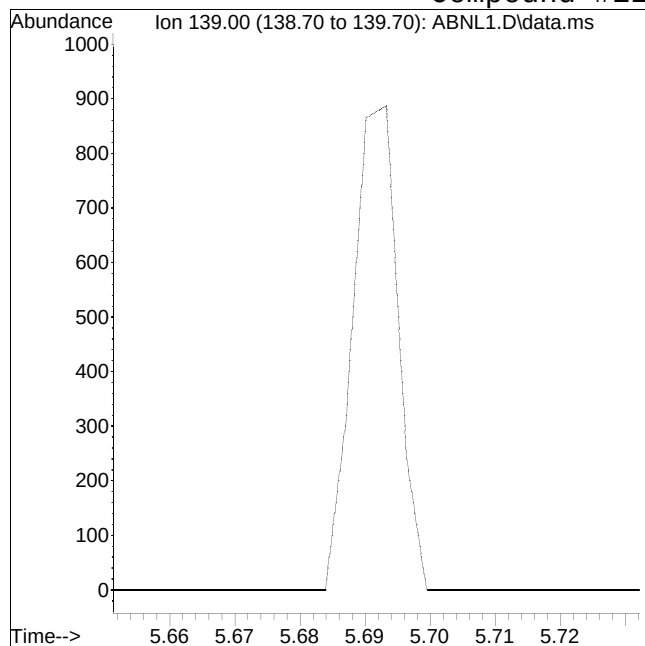
Manual Peak Response = 606 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #22: 2-Nitrophenol



Original Peak Response = 0

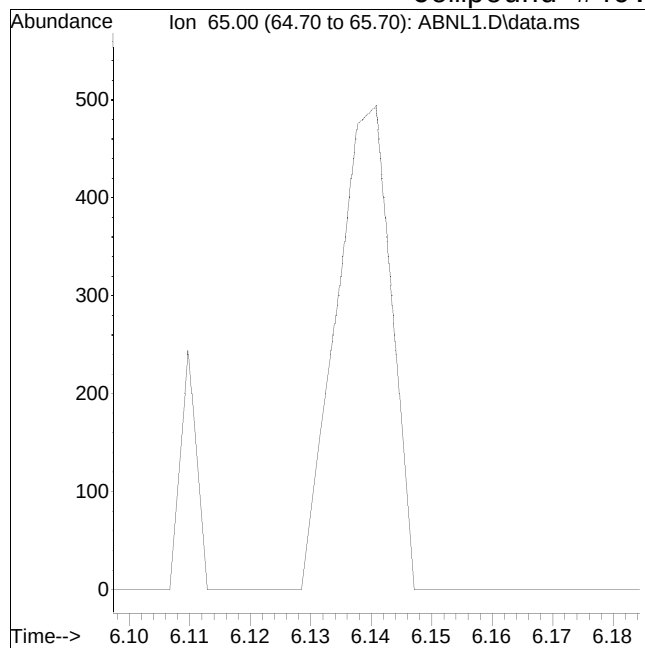
Manual Peak Response = 430 M2

M2 = Peak not found by automatic integration algorithm.

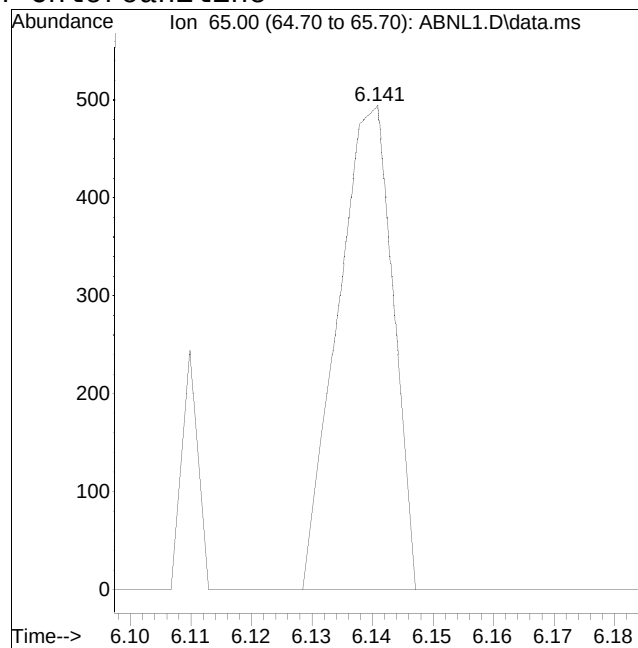
Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154Quant Date : 4/17/2025 3:22 pm

Compound #40: 4-Chloroaniline



Original Peak Response = 0



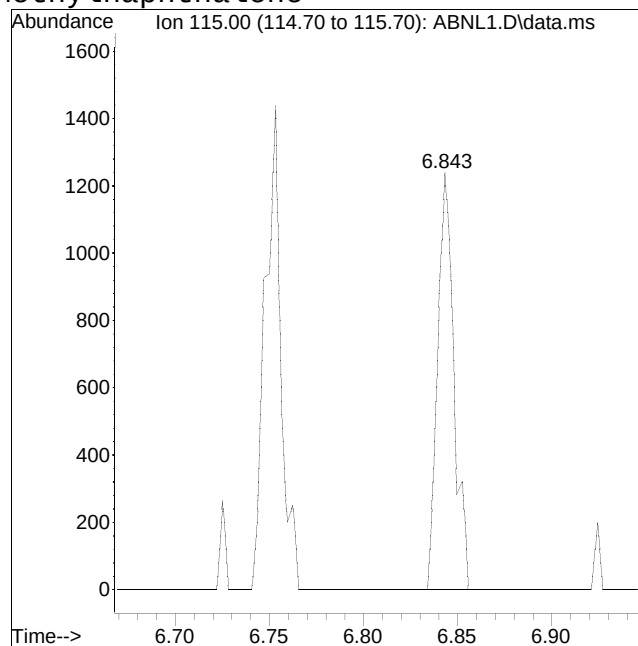
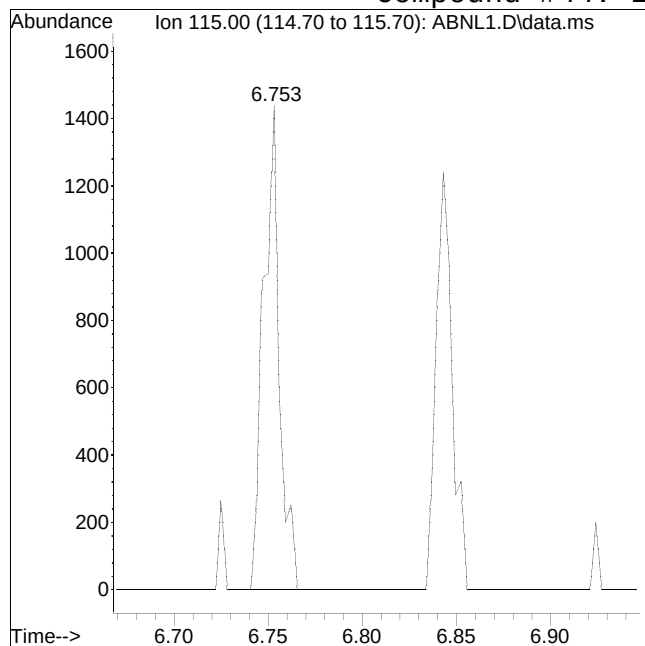
Manual Peak Response = 314 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #44: 1-Methylnaphthalene



Original Peak Response = 847

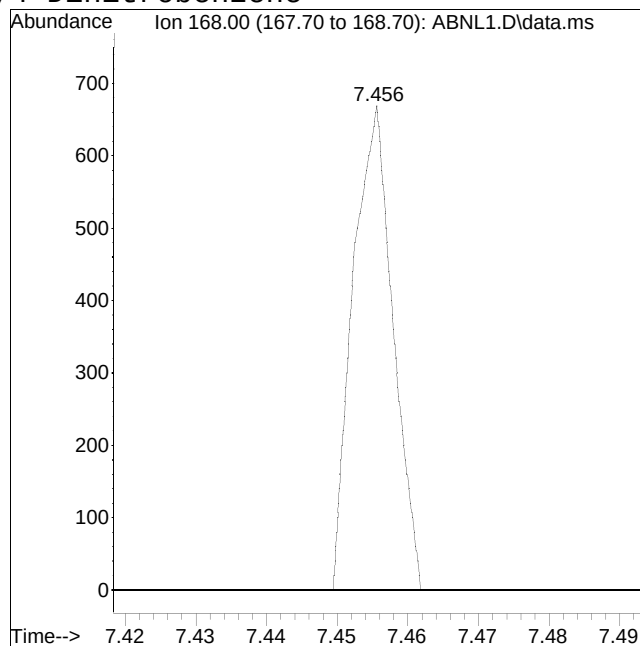
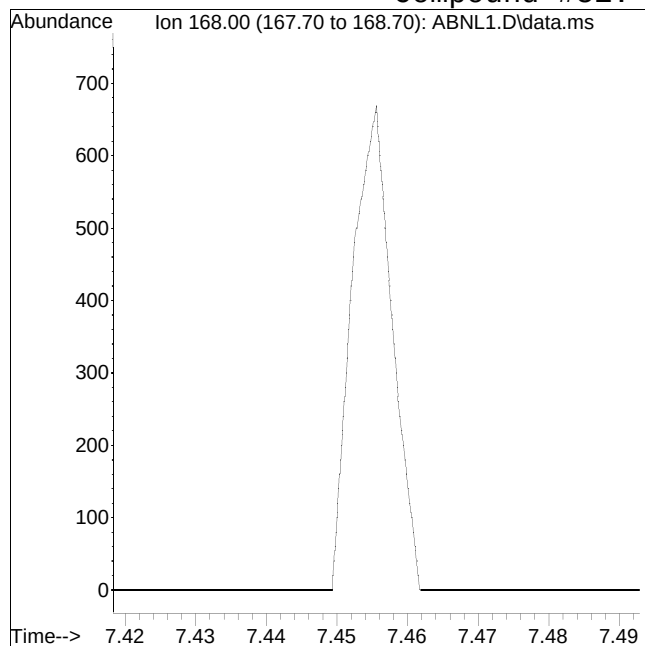
Manual Peak Response = 746 M3

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\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #51: 1,4-Dinitrobenzene



Original Peak Response = 0

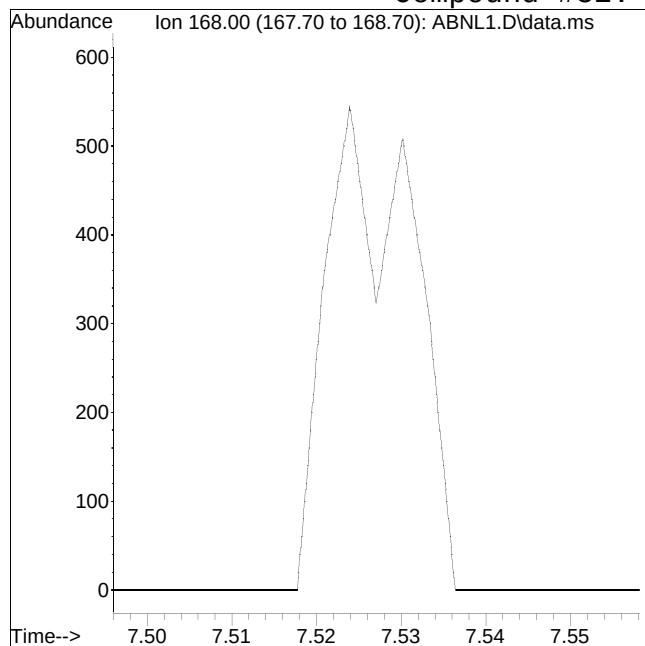
Manual Peak Response = 263 M2

M2 = Peak not found by automatic integration algorithm.

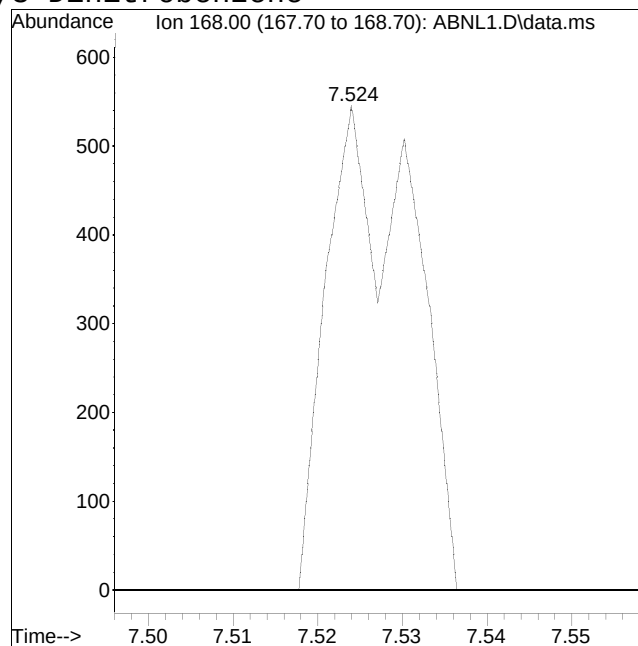
Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #52: 1,3-Dinitrobenzene



Original Peak Response = 0



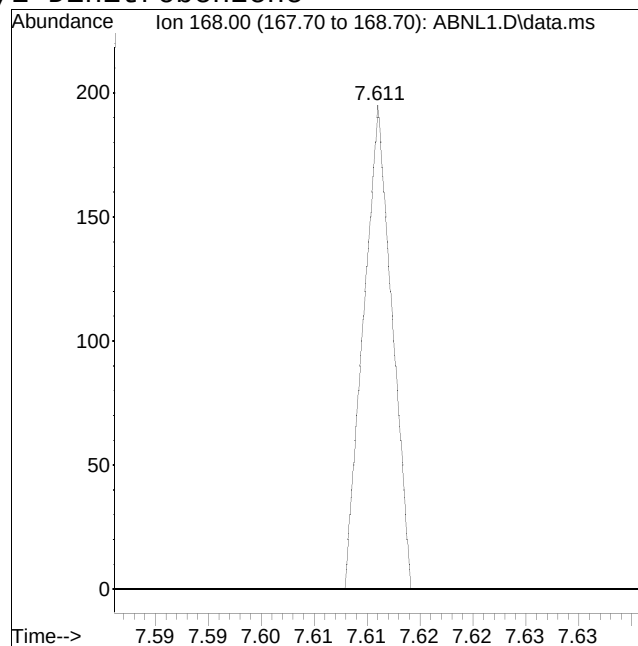
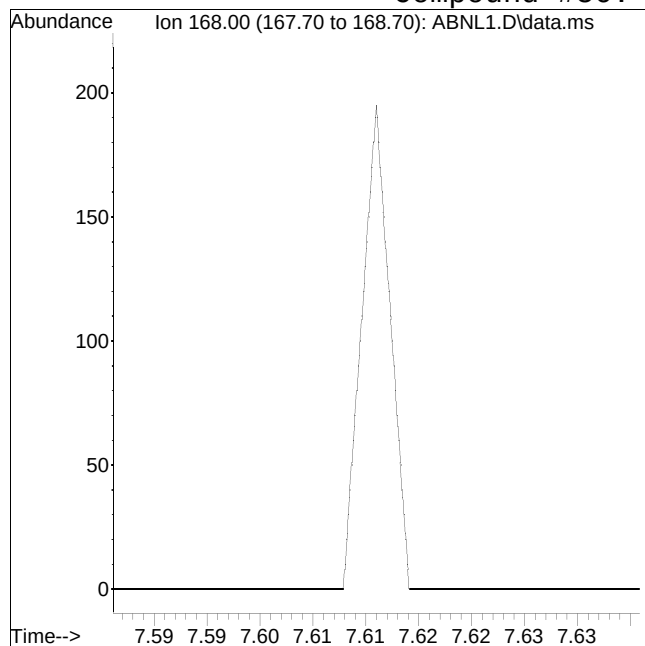
Manual Peak Response = 381 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #56: 1,2-Dinitrobenzene



Original Peak Response = 0

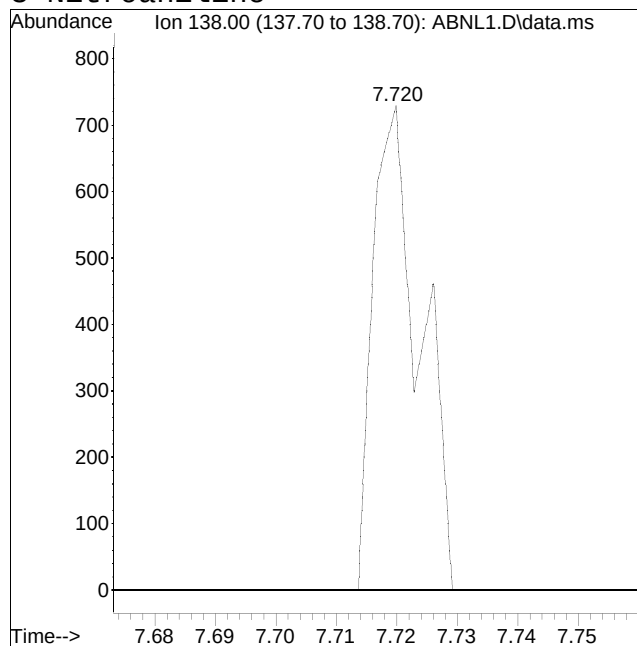
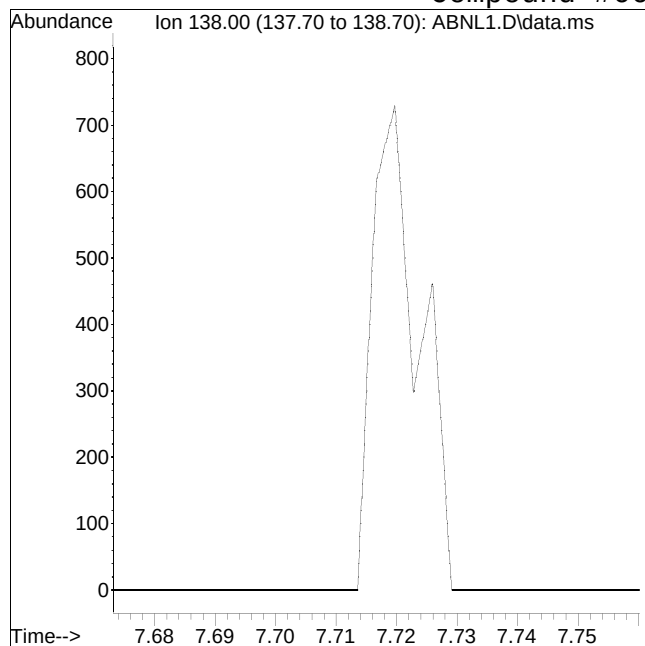
Manual Peak Response = 36 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #66: 3-Nitroaniline



Original Peak Response = 0

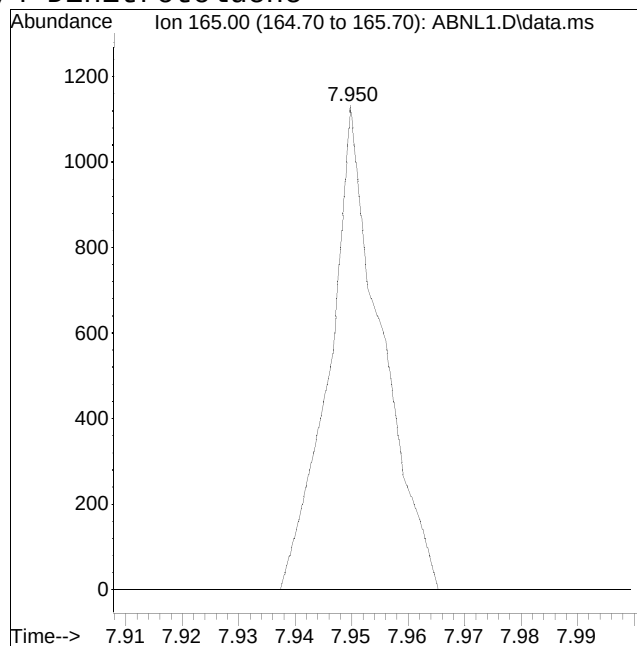
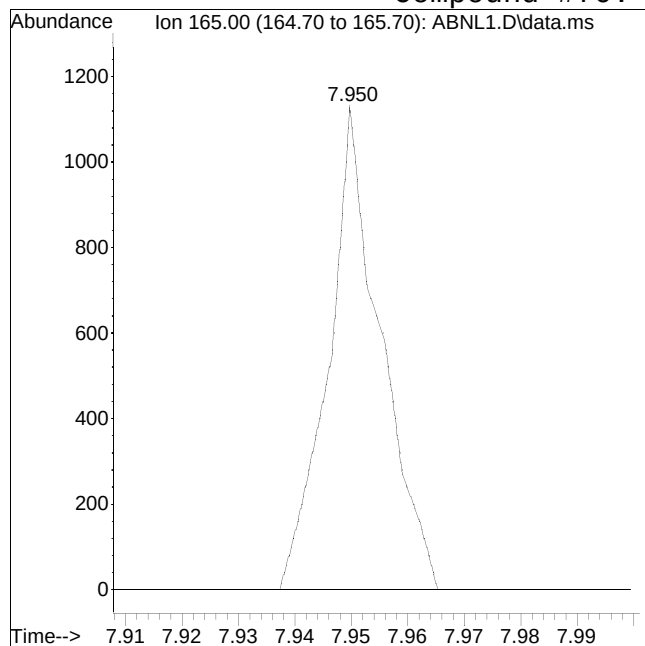
Manual Peak Response = 392 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #70: 2,4-Dinitrotoluene



Original Peak Response = 725

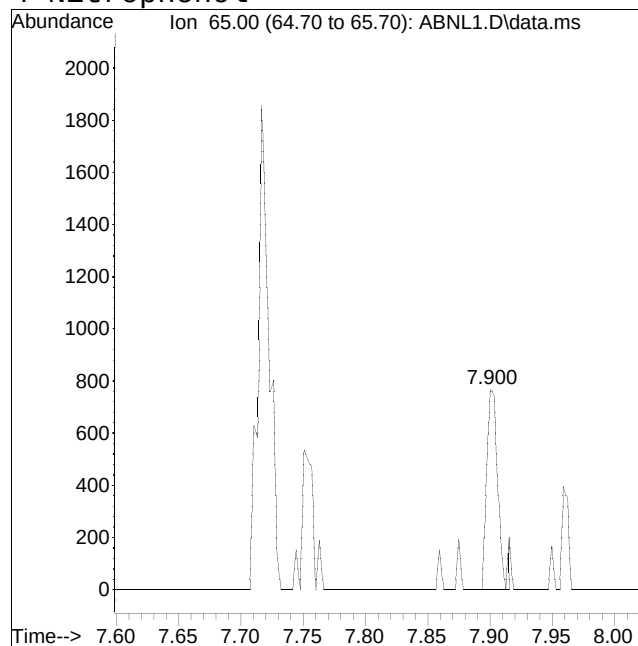
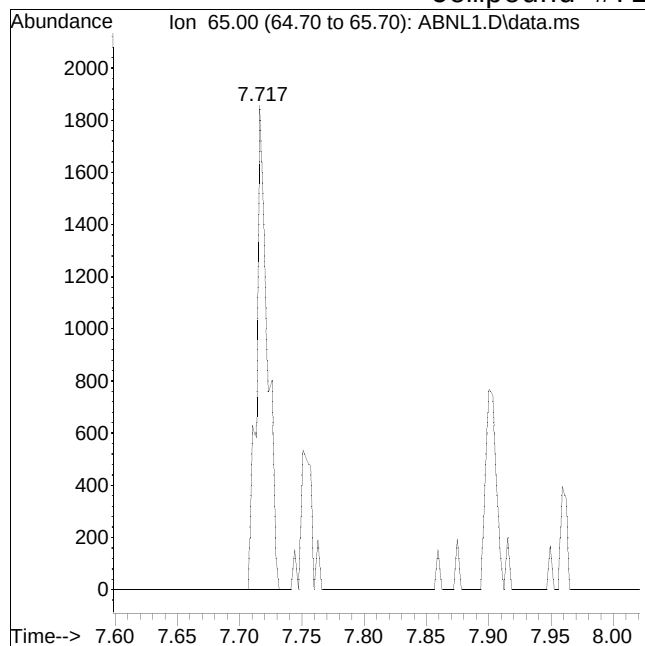
Manual Peak Response = 725 M3

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\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #71: 4-Nitrophenol



Original Peak Response = 1150

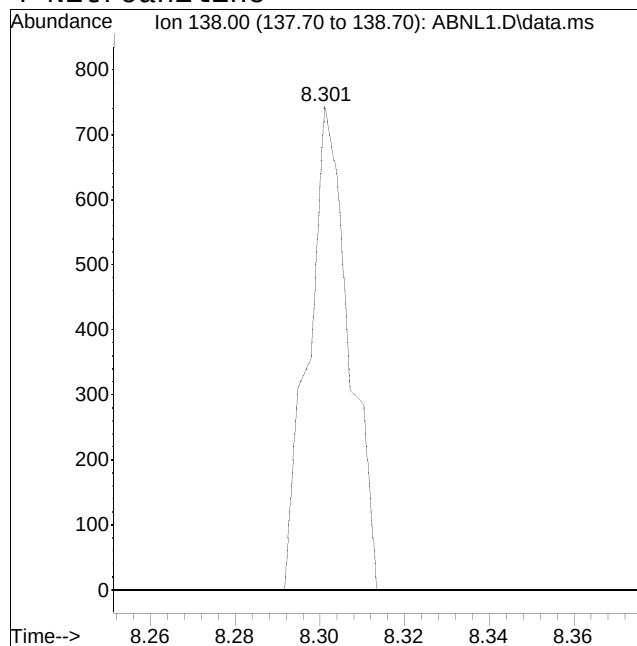
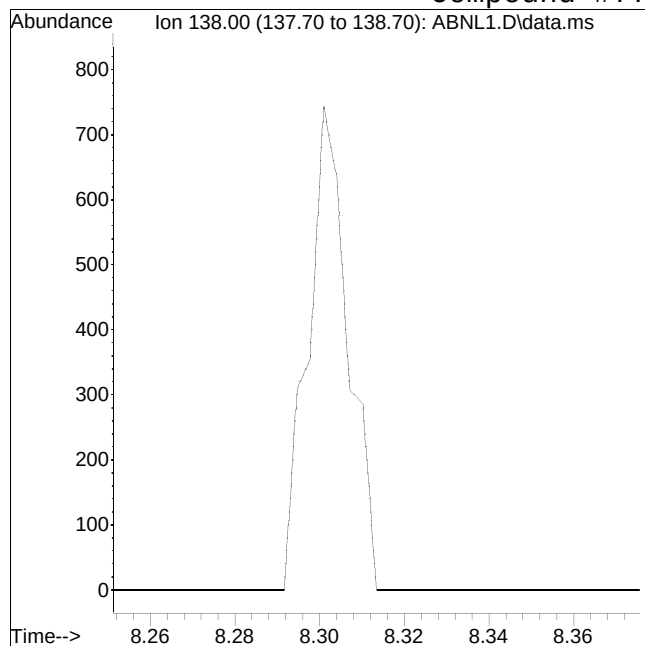
Manual Peak Response = 497 M3

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\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #77: 4-Nitroaniline



Original Peak Response = 0

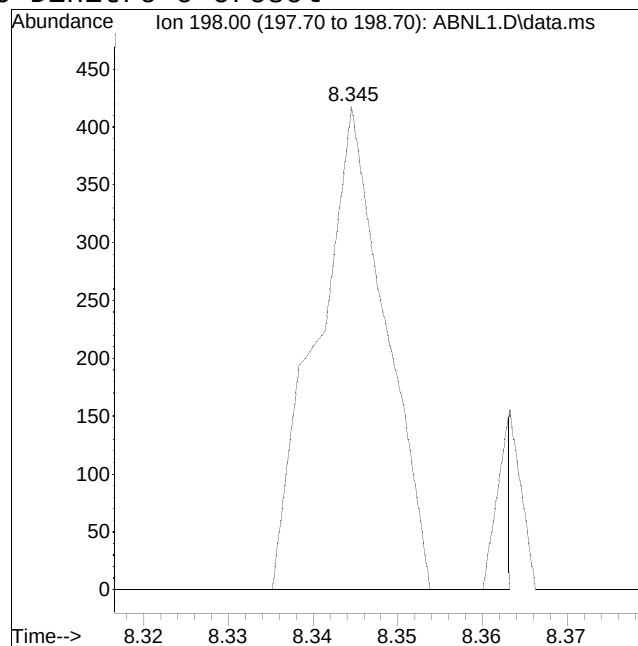
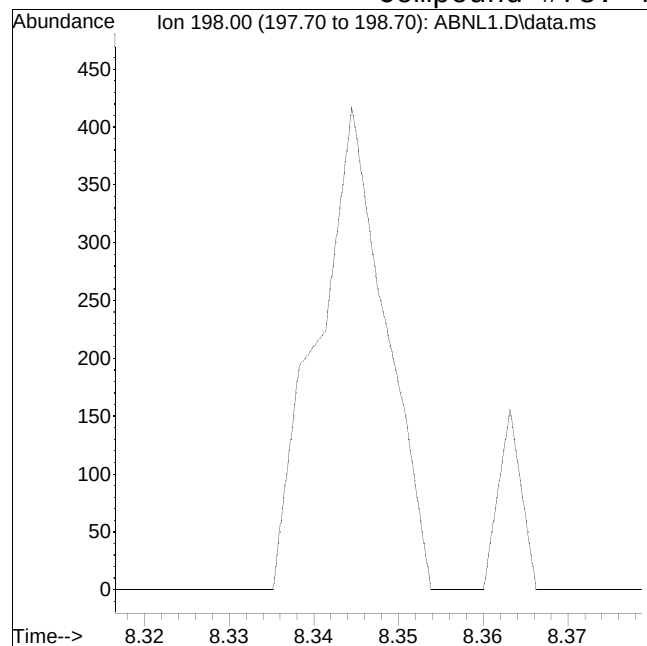
Manual Peak Response = 492 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #78: 4,6-Dinitro-o-cresol



Original Peak Response = 0

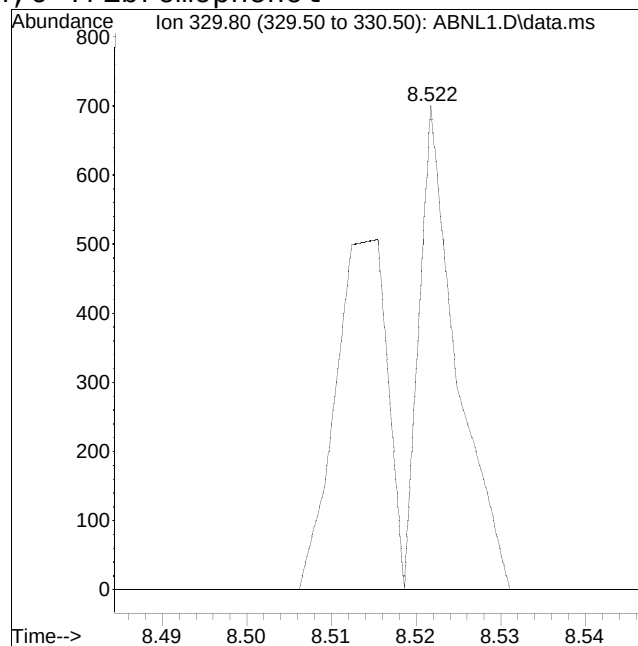
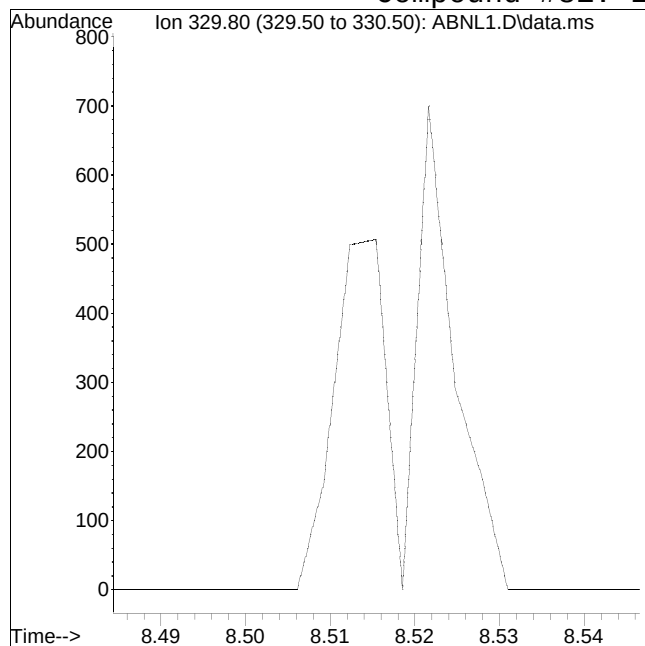
Manual Peak Response = 262 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #81: 2,4,6-Tribromophenol



Original Peak Response = 0

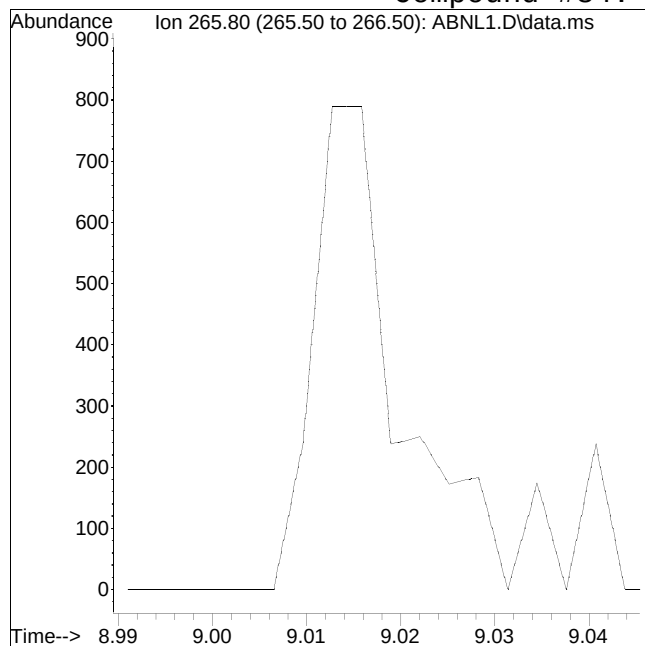
Manual Peak Response = 432 M2

M2 = Peak not found by automatic integration algorithm.

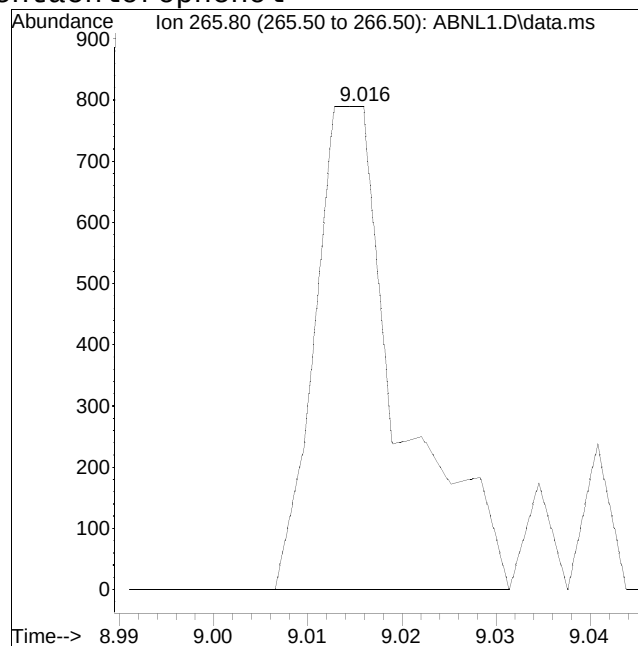
Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:27 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1154 Quant Date : 4/17/2025 3:22 pm

Compound #84: Pentachlorophenol



Original Peak Response = 0



Manual Peak Response = 496 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L9.D
 Acq On : 16 Apr 2025 8:49 pm
 Operator : Dakota:HNY
 Sample : IL2,32,,AP9L50 Lot# 11541
 Misc : WG2055280
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 15:26:04 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.820	152	38162	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	103.69%		
57) IS2_Naphthalene-d8	6.051	136	138245	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	112.20%		
85) IS2_Acenaphthene-d10	7.754	164	97397	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	114.62%		
100) IS2_Phenanthrene-d10	9.184	188	213130	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	114.83%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.385	105	428402	53.502	ug/ml	94
29) Acetophenone	5.218	105	773297	54.715	ug/ml#	86
30) m-Toluidine	5.299	106	791839	55.692	ug/ml	95
31) 2-Chloroaniline	5.659	127	711480	57.004	ug/ml	96
58) a-Terpineol	6.113	59	562883	56.069	ug/ml	91
59) 3-Chloroaniline	6.122	65	273151	53.194	ug/ml	77
60) 2,6-Dichlorophenol	6.150	162	634431	55.782	ug/ml#	85
61) 1-chloro-2-nitrobenzene	6.405	111	260091	54.065	ug/ml#	1
62) Caprolactam	6.458	55	328731	56.252	ug/ml#	83
63) 1,2,4,5-Tetrachloroben...	6.921	216	789429	51.455	ug/ml	98
64) Biphenyl	7.213	154	1695195	51.616	ug/ml	98
86) Dichloran	8.882	206	290598	58.176	ug/ml#	57
87) Pentachloronitrobenzene	9.031	237	256732	57.160	ug/ml#	79
101) Diphenamid	10.088	167	1456434	58.685	ug/ml#	79

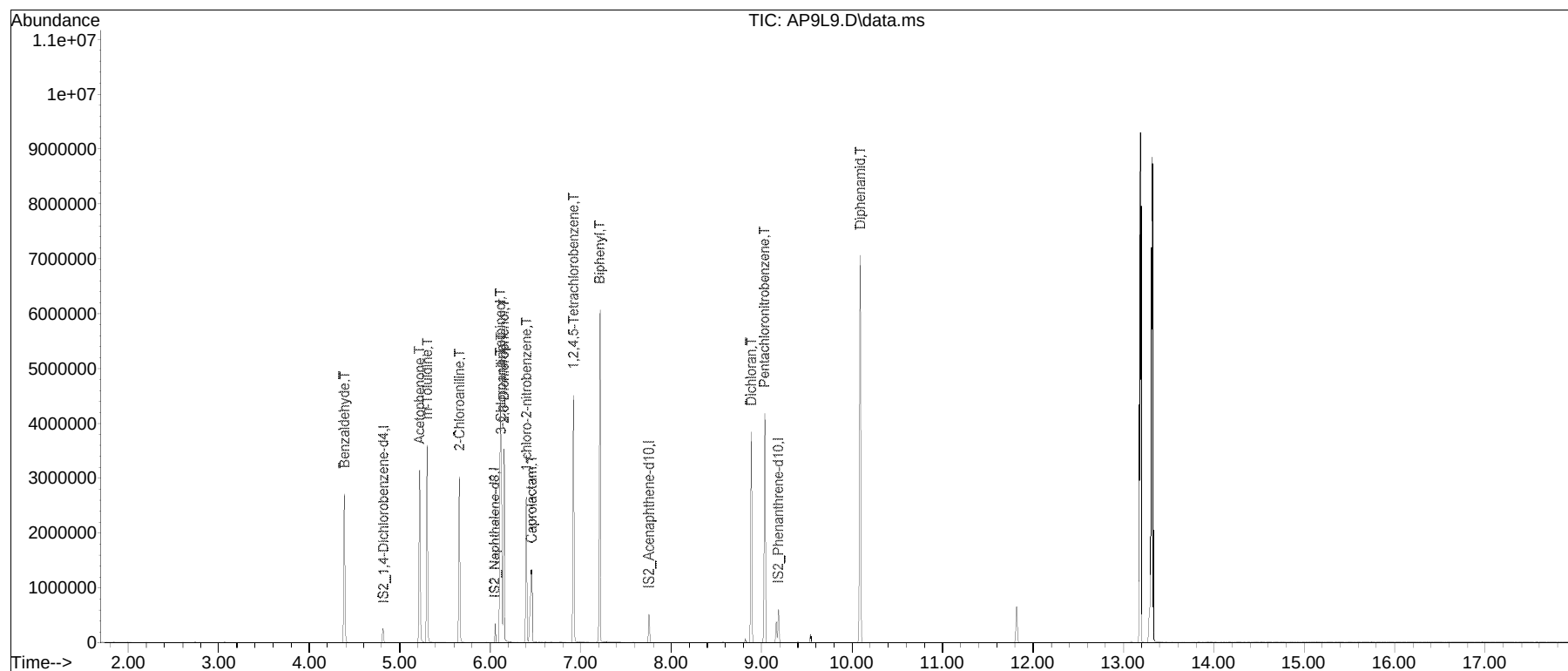
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L9.D
 Acq On : 16 Apr 2025 8:49 pm
 Operator : Dakota:HNY
 Sample : IL2,32,,AP9L50 Lot# 11541
 Misc : WG2055280
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 15:26:04 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : AP9L9.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:49 pm Instrument : Dakota
Sample : IL2,32,,AP9L50 Lot# 11541 Quant Date : 4/17/2025 3:26 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L8.D
 Acq On : 16 Apr 2025 9:12 pm
 Operator : Dakota:HNY
 Sample : IL3,32,,AP9L25 Lot# 11542
 Misc : WG2055280
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 15:25:52 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	37028	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	100.61%		
57) IS2_Naphthalene-d8	6.051	136	126472	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	102.65%		
85) IS2_Acenaphthene-d10	7.754	164	89634	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	105.48%		
100) IS2_Phenanthrene-d10	9.184	188	199960	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	107.73%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.385	105	198874	25.598	ug/ml	91
29) Acetophenone	5.215	105	356728	26.013	ug/ml#	87
30) m-Toluidine	5.295	106	368010	26.676	ug/ml	94
31) 2-Chloroaniline	5.656	127	329455	27.204	ug/ml	95
58) a-Terpineol	6.110	59	256787	27.960	ug/ml	93
59) 3-Chloroaniline	6.119	65	126570	26.943	ug/ml	78
60) 2,6-Dichlorophenol	6.147	162	286320	27.518	ug/ml#	85
61) 1-chloro-2-nitrobenzene	6.402	111	117032	26.592	ug/ml#	1
62) Caprolactam	6.445	55	148231	27.726	ug/ml#	82
63) 1,2,4,5-Tetrachloroben...	6.918	216	360195	25.663	ug/ml	98
64) Biphenyl	7.210	154	777479	25.877	ug/ml	98
86) Dichloran	8.879	206	131297	28.561	ug/ml#	57
87) Pentachloronitrobenzene	9.031	237	119056	28.803	ug/ml#	77
101) Diphenamid	10.085	167	680768	29.238	ug/ml#	78

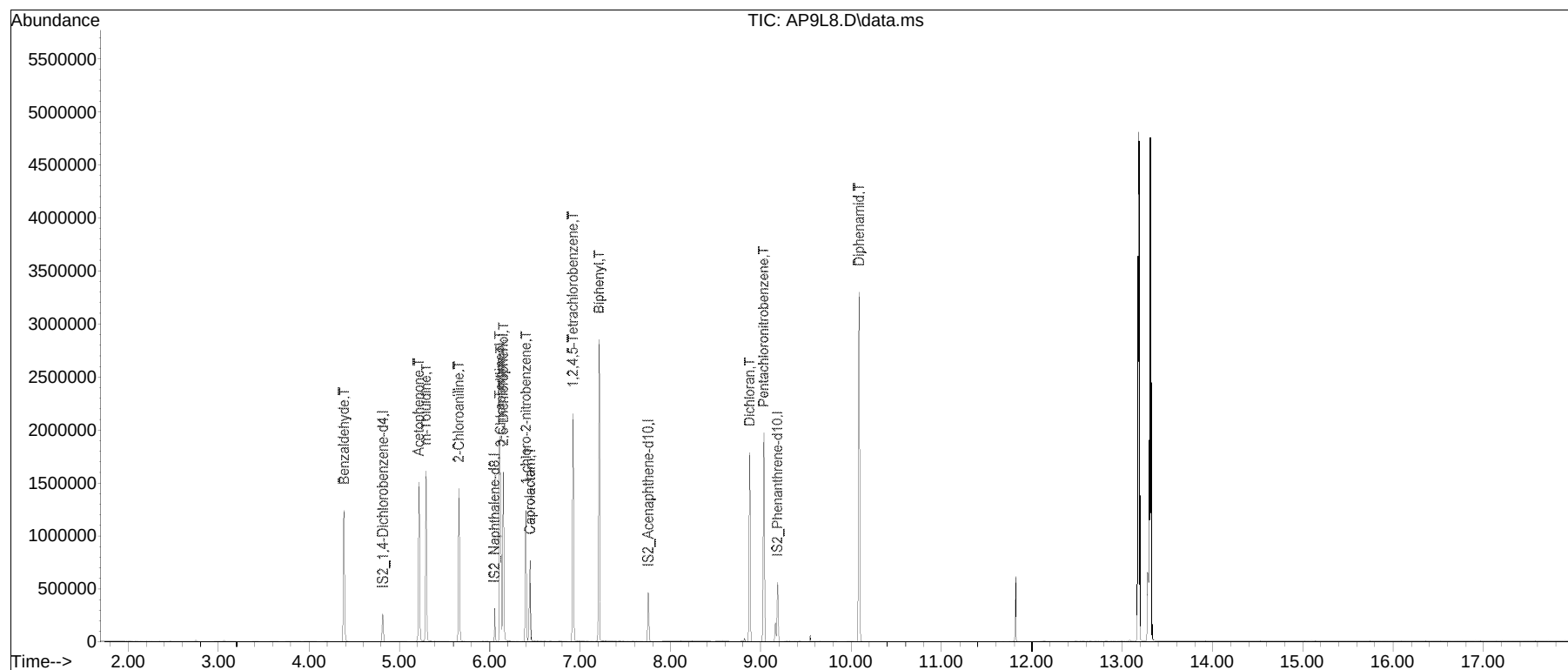
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L8.D
 Acq On : 16 Apr 2025 9:12 pm
 Operator : Dakota:HNY
 Sample : IL3,32,,AP9L25 Lot# 11542
 Misc : WG2055280
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 15:25:52 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : AP9L8.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 9:12 pm Instrument : Dakota
Sample : IL3,32,,AP9L25 Lot# 11542 Quant Date : 4/17/2025 3:26 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L7.D
 Acq On : 16 Apr 2025 9:35 pm
 Operator : Dakota:HNY
 Sample : IL4,32,,AP9L10 Lot# 11543
 Misc : WG2055280
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 15:25:40 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	37270	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	101.26%		
57) IS2_Naphthalene-d8	6.054	136	129769	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	105.33%		
85) IS2_Acenaphthene-d10	7.754	164	92392	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	108.73%		
100) IS2_Phenanthrene-d10	9.184	188	203735	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	109.77%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.385	105	84012	10.743	ug/ml	94
29) Acetophenone	5.215	105	147750	10.704	ug/ml#	85
30) m-Toluidine	5.295	106	146332	10.538	ug/ml	95
31) 2-Chloroaniline	5.656	127	135972	11.155	ug/ml	95
58) a-Terpineol	6.107	59	105528	11.198	ug/ml	92
59) 3-Chloroaniline	6.119	65	50096	10.393	ug/ml	84
60) 2,6-Dichlorophenol	6.147	162	116542	10.916	ug/ml#	85
61) 1-chloro-2-nitrobenzene	6.402	111	48037	10.638	ug/ml#	1
62) Caprolactam	6.439	55	58653	10.692	ug/ml#	86
63) 1,2,4,5-Tetrachloroben...	6.918	216	150300	10.436	ug/ml#	97
64) Biphenyl	7.210	154	326547	10.592	ug/ml	98
86) Dichloran	8.879	206	47244	9.970	ug/ml#	59
87) Pentachloronitrobenzene	9.031	237	46809	10.986	ug/ml#	78
101) Diphenamid	10.082	167	262810	11.078	ug/ml#	79

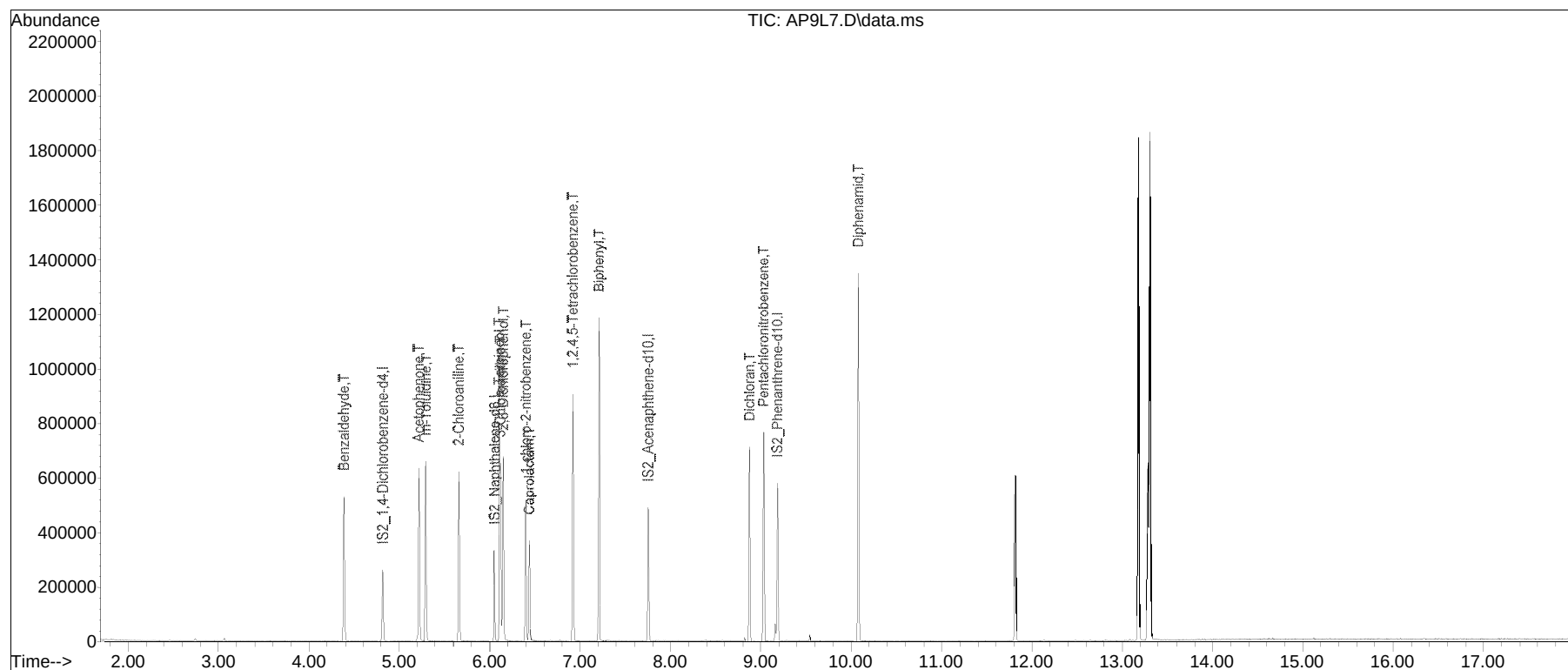
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L7.D
 Acq On : 16 Apr 2025 9:35 pm
 Operator : Dakota:HNY
 Sample : IL4,32,,AP9L10 Lot# 11543
 Misc : WG2055280
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 15:25:40 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : AP9L7.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 9:35 pm Instrument : Dakota
Sample : IL4,32,,AP9L10 Lot# 11543 Quant Date : 4/17/2025 3:26 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L6.D
 Acq On : 16 Apr 2025 9:57 pm
 Operator : Dakota:HNY
 Sample : IL5,32,,AP9L5 Lot# 11544
 Misc : WG2055280
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 17 15:25:30 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.820	152	36805	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	100.00%		
57) IS2_Naphthalene-d8	6.054	136	123208	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	100.00%		
85) IS2_Acenaphthene-d10	7.754	164	84975	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	100.00%		
100) IS2_Phenanthrene-d10	9.184	188	185606	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	100.00%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.385	105	40073	5.189	ug/ml	96
29) Acetophenone	5.215	105	69993	5.135	ug/ml#	86
30) m-Toluidine	5.295	106	68459	4.992	ug/ml	92
31) 2-Chloroaniline	5.656	127	61819	5.136	ug/ml	95
58) a-Terpineol	6.107	59	47813	5.344	ug/ml	93
59) 3-Chloroaniline	6.119	65	23393	5.112	ug/ml	79
60) 2,6-Dichlorophenol	6.147	162	53798	5.308	ug/ml#	85
61) 1-chloro-2-nitrobenzene	6.399	111	22431	5.232	ug/ml#	1
62) Caprolactam	6.436	55	24949	4.790	ug/ml#	85
63) 1,2,4,5-Tetrachloroben...	6.918	216	67155	4.911	ug/ml	95
64) Biphenyl	7.210	154	150195	5.131	ug/ml	97
86) Dichloran	8.879	206	20205	4.636	ug/ml#	56
87) Pentachloronitrobenzene	9.028	237	20878	5.328	ug/ml#	78
101) Diphenamid	10.082	167	116335	5.383	ug/ml#	78

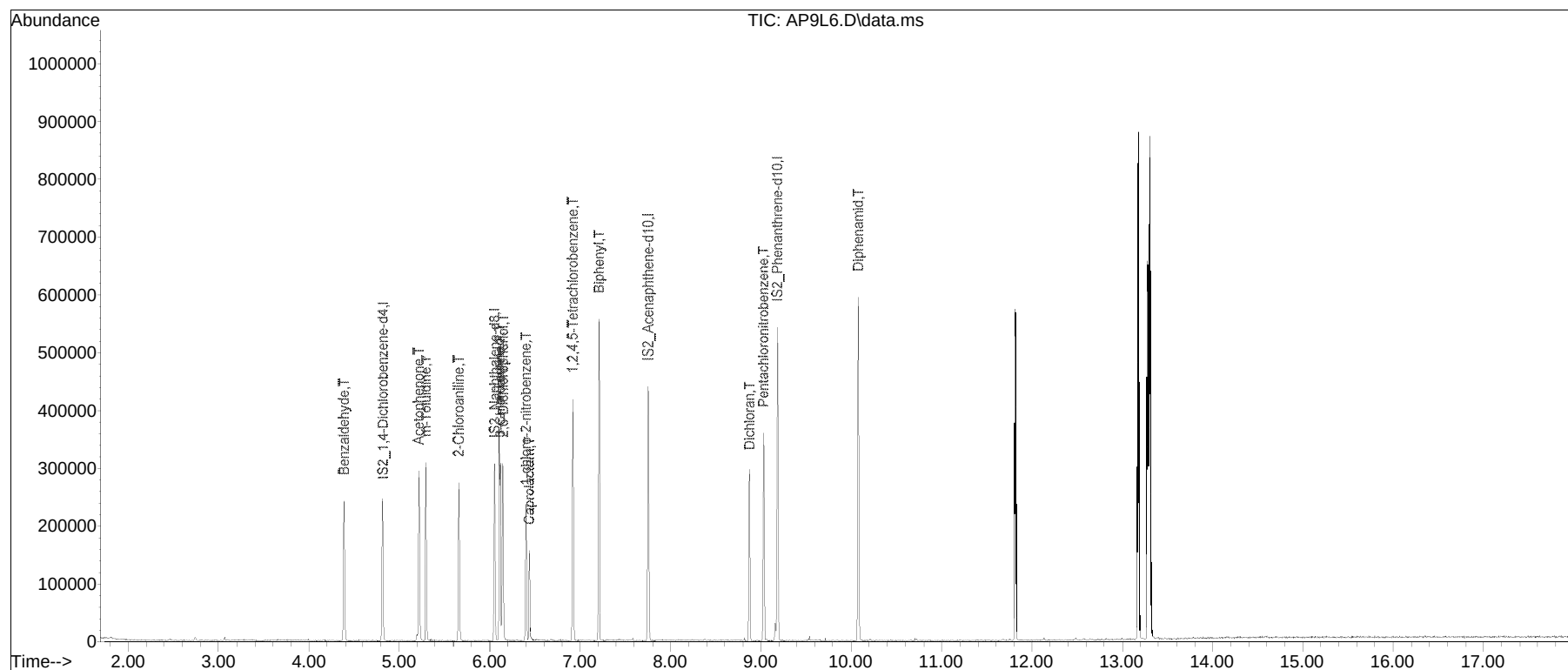
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L6.D
 Acq On : 16 Apr 2025 9:57 pm
 Operator : Dakota:HNY
 Sample : IL5,32,,AP9L5 Lot# 11544
 Misc : WG2055280
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 17 15:25:30 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : AP9L6.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 9:57 pm Instrument : Dakota
Sample : IL5,32,,AP9L5 Lot# 11544 Quant Date : 4/17/2025 3:26 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L5.D
 Acq On : 16 Apr 2025 10:20 pm
 Operator : Dakota:HNY
 Sample : IL6,32,,AP9L2.5 Lot# 11545
 Misc : WG2055280
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 17 15:25:20 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	36425	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	98.97%		
57) IS2_Naphthalene-d8	6.054	136	124727	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	101.23%		
85) IS2_Acenaphthene-d10	7.754	164	85189	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	100.25%		
100) IS2_Phenanthrene-d10	9.184	188	188300	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	101.45%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.385	105	19590	2.563	ug/ml	92
29) Acetophenone	5.218	105	34843	2.583	ug/ml#	88
30) m-Toluidine	5.298	106	31760	2.340	ug/ml#	91
31) 2-Chloroaniline	5.656	127	32423	2.722	ug/ml	95
58) a-Terpineol	6.107	59	22688	2.505	ug/ml#	85
59) 3-Chloroaniline	6.119	65	11490	2.480	ug/ml	80
60) 2,6-Dichlorophenol	6.147	162	26925	2.624	ug/ml#	87
61) 1-chloro-2-nitrobenzene	6.399	111	11015	2.538	ug/ml#	1
62) Caprolactam	6.436	55	11706	2.220	ug/ml#	84
63) 1,2,4,5-Tetrachloroben...	6.918	216	35103	2.536	ug/ml	98
64) Biphenyl	7.210	154	76408	2.579	ug/ml	97
86) Dichloran	8.879	206	9458	2.165	ug/ml#	59
87) Pentachloronitrobenzene	9.031	237	10144	2.582	ug/ml#	79
101) Diphenamid	10.082	167	57619	2.628	ug/ml#	79

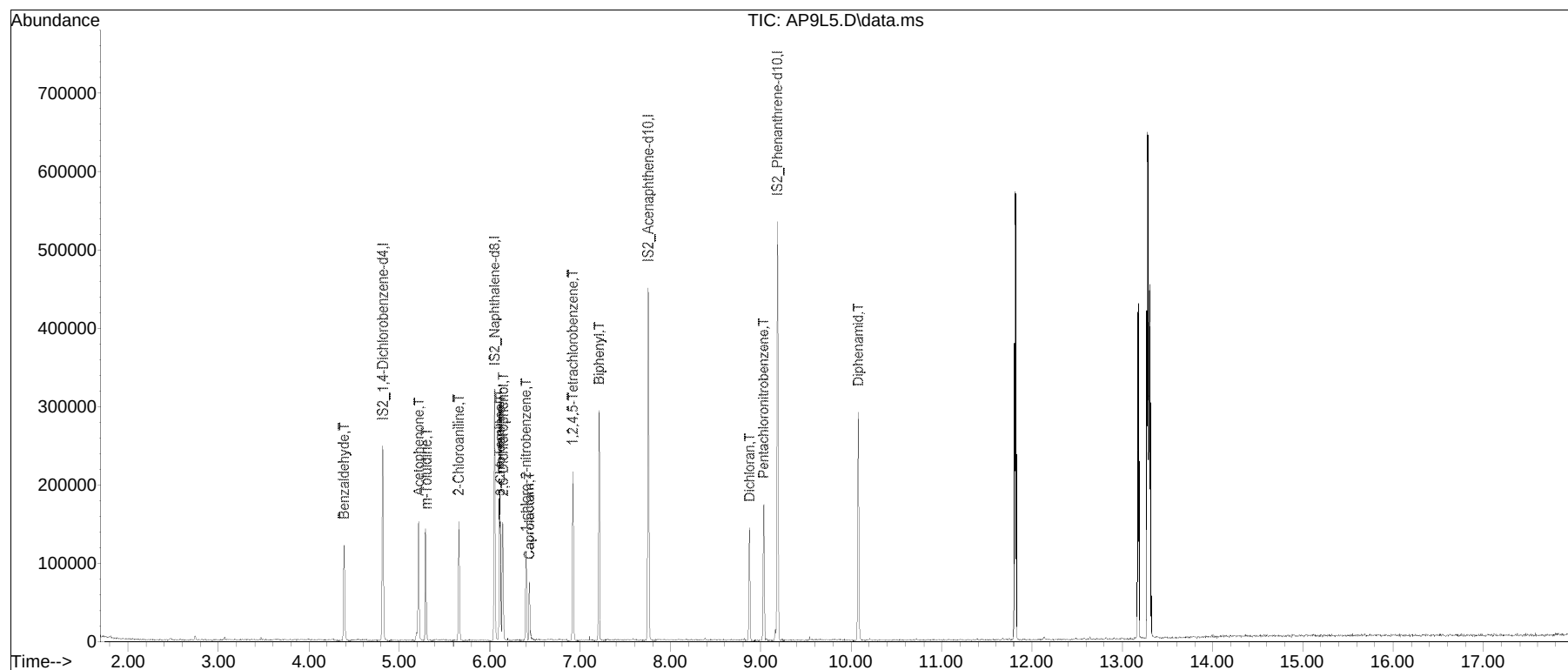
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L5.D
 Acq On : 16 Apr 2025 10:20 pm
 Operator : Dakota:HNY
 Sample : IL6,32,,AP9L2.5 Lot# 11545
 Misc : WG2055280
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 17 15:25:20 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : AP9L5.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 10:20 pm Instrument : Dakota
Sample : IL6,32,,AP9L2.5 Lot# 11545Quant Date : 4/17/2025 3:26 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L4.D
 Acq On : 16 Apr 2025 10:42 pm
 Operator : Dakota:HNY
 Sample : IL7,32,,AP9L1 Lot# 11546
 Misc : WG2055280
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 15:25:08 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	38970	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	105.88%		
57) IS2_Naphthalene-d8	6.051	136	126291	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	102.50%		
85) IS2_Acenaphthene-d10	7.754	164	86460	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	101.75%		
100) IS2_Phenanthrene-d10	9.184	188	188818	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	101.73%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.385	105	9451	1.156	ug/ml	97
29) Acetophenone	5.218	105	15835	1.097	ug/ml#	84
30) m-Toluidine	5.298	106	12062	0.831	ug/ml	99
31) 2-Chloroaniline	5.656	127	13588	1.066	ug/ml	95
58) a-Terpineol	6.103	59	9991	1.089	ug/ml#	85
59) 3-Chloroaniline	6.119	65	5502	1.173	ug/ml#	67
60) 2,6-Dichlorophenol	6.147	162	11299	1.088	ug/ml#	86
61) 1-chloro-2-nitrobenzene	6.402	111	4810	1.094	ug/ml#	1
62) Caprolactam	6.436	55	4541	0.851	ug/ml#	86
63) 1,2,4,5-Tetrachloroben...	6.918	216	16059	1.146	ug/ml	95
64) Biphenyl	7.210	154	32706	1.090	ug/ml	99
86) Dichloran	8.876	206	4008	0.904	ug/ml#	55
87) Pentachloronitrobenzene	9.028	237	4041	1.014	ug/ml#	77
101) Diphenamid	10.082	167	21770	0.990	ug/ml#	77

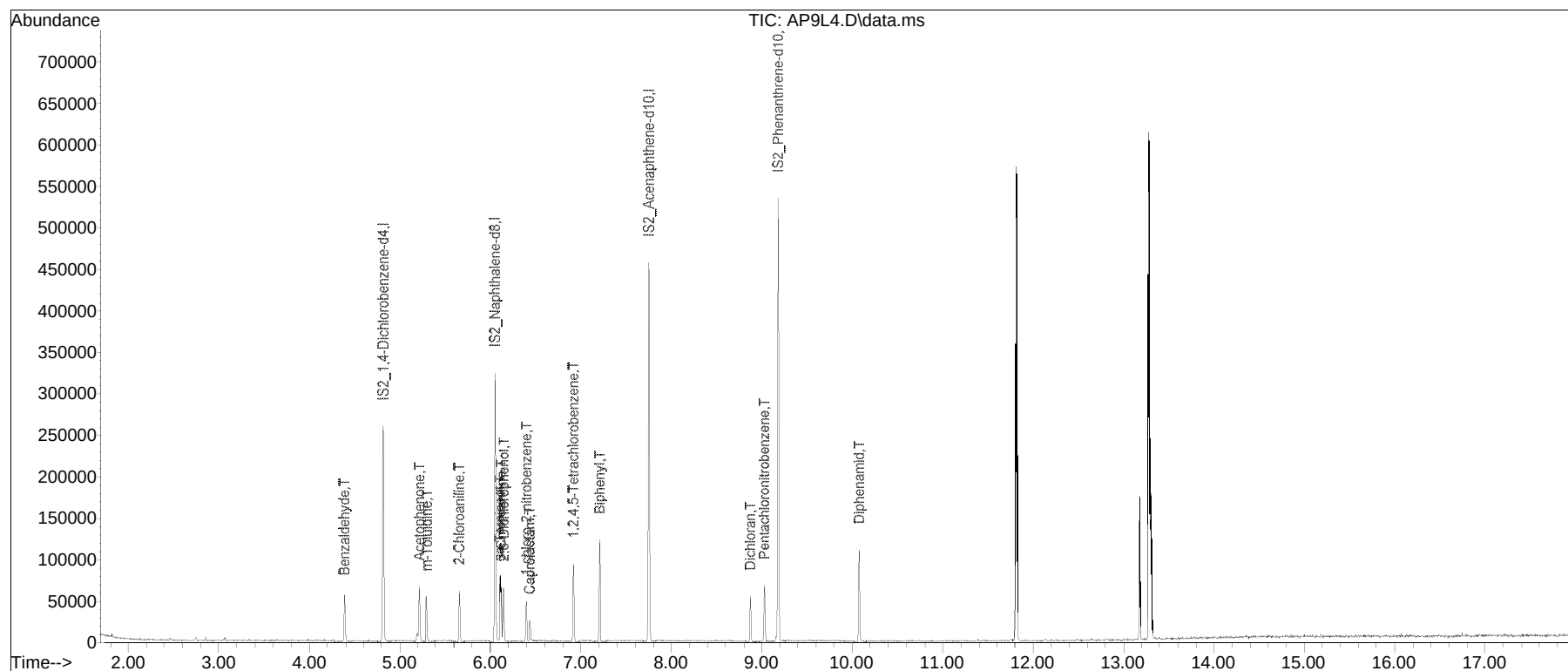
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L4.D
 Acq On : 16 Apr 2025 10:42 pm
 Operator : Dakota:HNY
 Sample : IL7,32,,AP9L1 Lot# 11546
 Misc : WG2055280
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 15:25:08 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : AP9L4.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 10:42 pm Instrument : Dakota
Sample : IL7,32,,AP9L1 Lot# 11546 Quant Date : 4/17/2025 3:26 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L3.D
 Acq On : 16 Apr 2025 11:05 pm
 Operator : Dakota:HNY
 Sample : IL8,32,,AP9L0.5 Lot# 11547
 Misc : WG2055280
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 17 15:24:57 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	57427	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	156.03%		
57) IS2_Naphthalene-d8	6.051	136	192497	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	156.24%		
85) IS2_Acenaphthene-d10	7.754	164	130943	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	154.10%		
100) IS2_Phenanthrene-d10	9.184	188	282838	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	152.39%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.388	105	4342	0.360	ug/ml	88
29) Acetophenone	5.215	105	7655	0.360	ug/ml#	89
30) m-Toluidine	5.298	106	5293	0.247	ug/ml	93
31) 2-Chloroaniline	5.656	127	6861	0.365	ug/ml	99
58) a-Terpineol	6.103	59	4964	0.355	ug/ml	90
59) 3-Chloroaniline	6.119	65	2385	0.334	ug/ml	87
60) 2,6-Dichlorophenol	6.144	162	5627	0.355	ug/ml#	85
61) 1-chloro-2-nitrobenzene	6.402	111	2613	0.390	ug/ml#	1
62) Caprolactam	6.442	55	2150	0.264	ug/ml#	79
63) 1,2,4,5-Tetrachloroben...	6.915	216	8201	0.384	ug/ml#	94
64) Biphenyl	7.210	154	18590	0.407	ug/ml	97
86) Dichloran	8.879	206	1692	0.252	ug/ml#	64
87) Pentachloronitrobenzene	9.028	237	2120	0.351	ug/ml#	74
101) Diphenamid	10.082	167	12296	0.373	ug/ml#	73

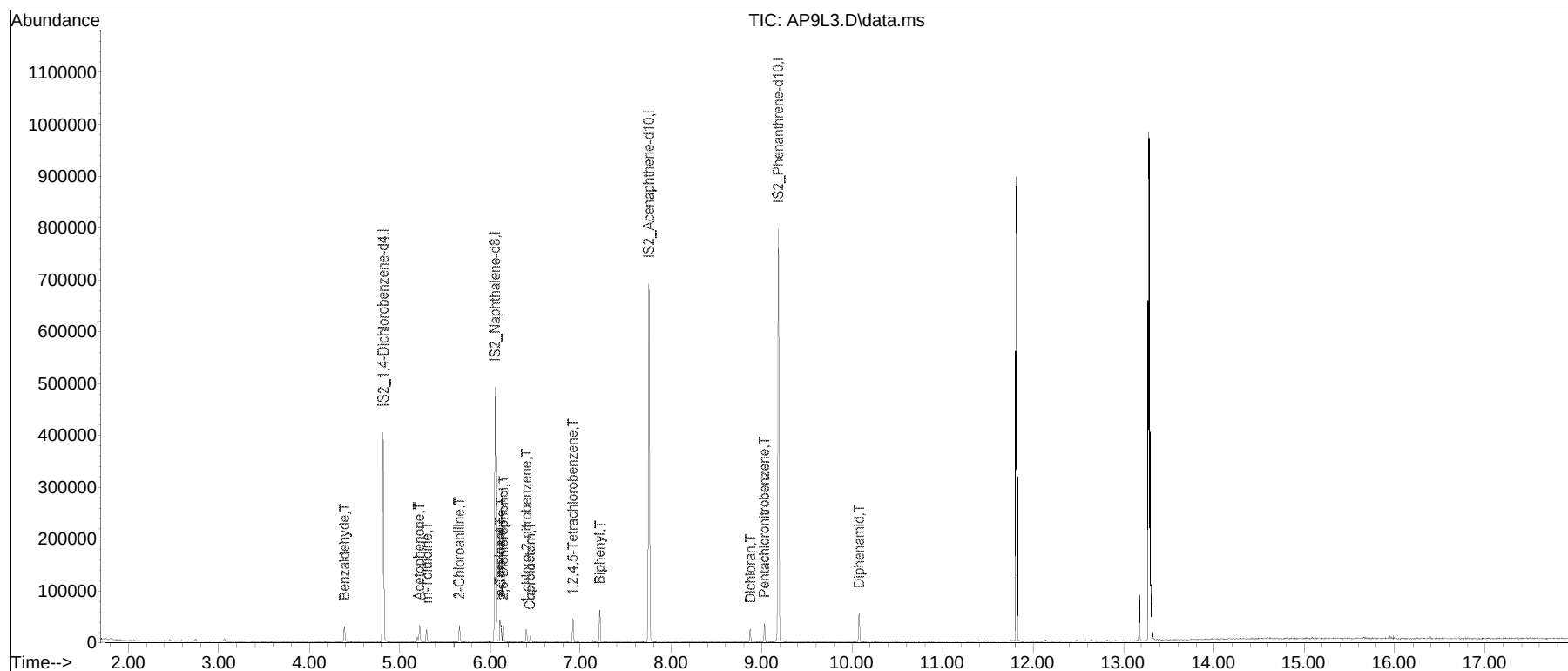
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L3.D
 Acq On : 16 Apr 2025 11:05 pm
 Operator : Dakota:HNY
 Sample : IL8,32,,AP9L0.5 Lot# 11547
 Misc : WG2055280
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 17 15:24:57 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : AP9L3.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 11:05 pm Instrument : Dakota
Sample : IL8,32,,AP9L0.5 Lot# 11547 Quant Date : 4/17/2025 3:25 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L2.D
 Acq On : 16 Apr 2025 11:28 pm
 Operator : Dakota:HNY
 Sample : IL9,32,,AP9L0.2 Lot# 11548
 Misc : WG2055280
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 17 15:24:47 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	45682	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	124.12%		
57) IS2_Naphthalene-d8	6.051	136	152597	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	123.85%		
85) IS2_Acenaphthene-d10	7.754	164	107483	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	126.49%		
100) IS2_Phenanthrene-d10	9.184	188	230076	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	123.96%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.391	105	2101	0.219	ug/ml	91
29) Acetophenone	5.221	105	3377	0.200	ug/ml#	77
30) m-Toluidine	5.298	106	1141	0.067	ug/ml#	93
31) 2-Chloroaniline	5.656	127	2779	0.186	ug/ml	91
58) a-Terpineol	6.103	59	1985	0.179	ug/ml#	78
59) 3-Chloroaniline	6.119	65	1367	0.241	ug/ml#	57
60) 2,6-Dichlorophenol	6.144	162	2321	0.185	ug/ml#	84
61) 1-chloro-2-nitrobenzene	6.402	111	1125	0.212	ug/ml#	1
62) Caprolactam	6.445	55	879M2	0.136	ug/ml	
63) 1,2,4,5-Tetrachloroben...	6.918	216	3237	0.191	ug/ml#	97
64) Biphenyl	7.210	154	6998	0.193	ug/ml	95
86) Dichloran	8.882	206	837	0.152	ug/ml#	39
87) Pentachloronitrobenzene	9.031	237	785	0.158	ug/ml#	45
101) Diphenamid	10.079	167	4667	0.174	ug/ml	84

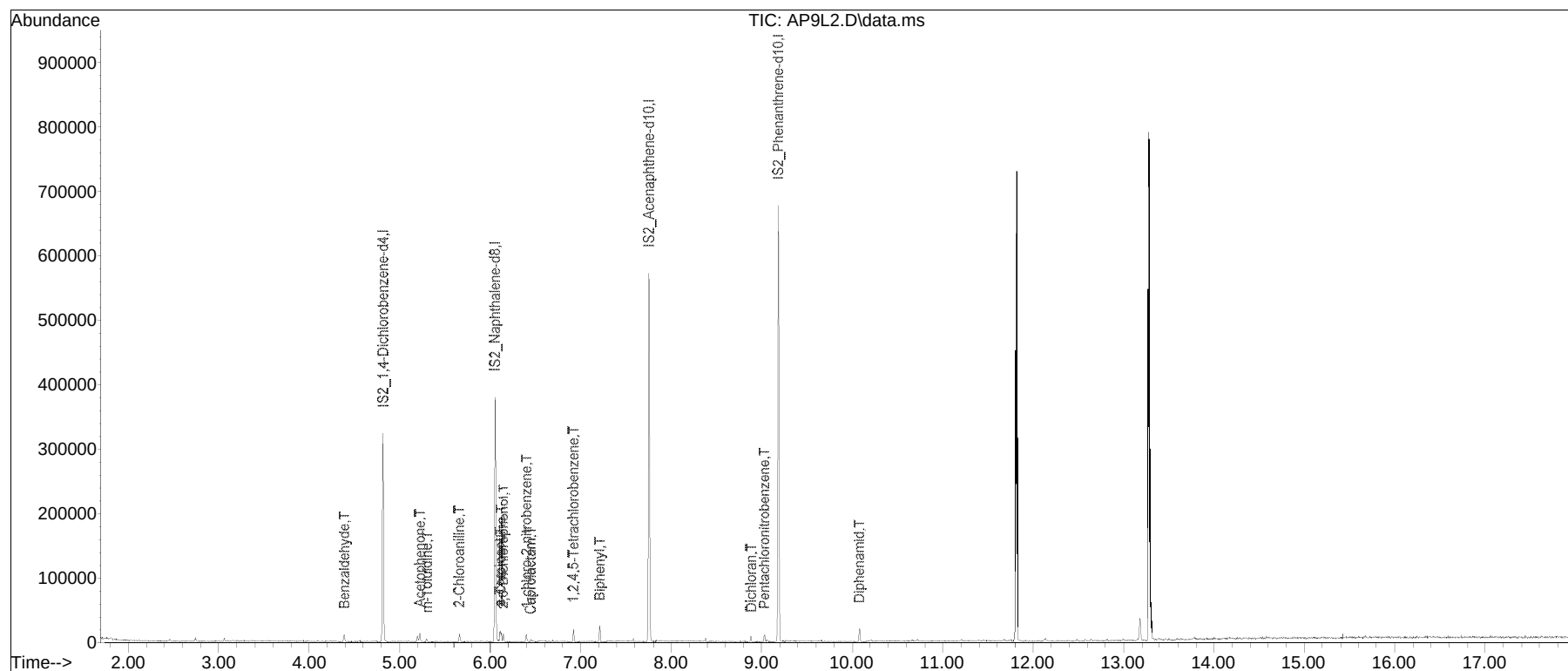
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L2.D
 Acq On : 16 Apr 2025 11:28 pm
 Operator : Dakota:HNY
 Sample : IL9,32,,AP9L0.2 Lot# 11548
 Misc : WG2055280
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 17 15:24:47 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

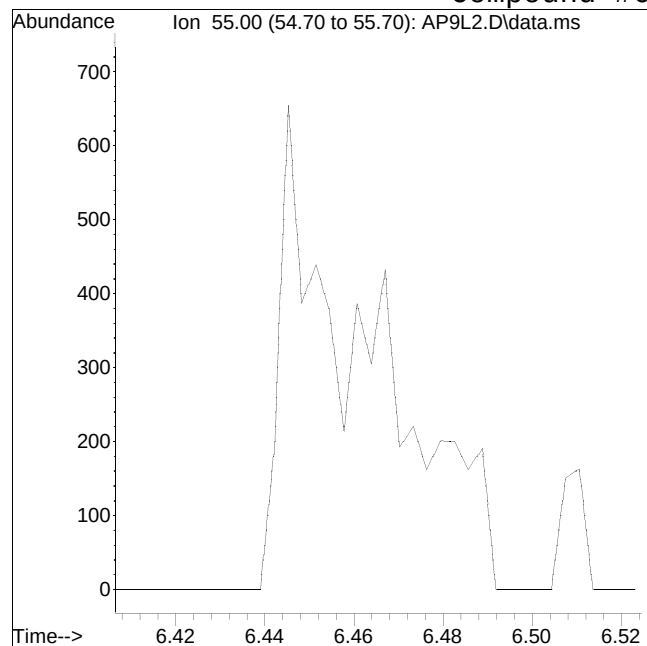
Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

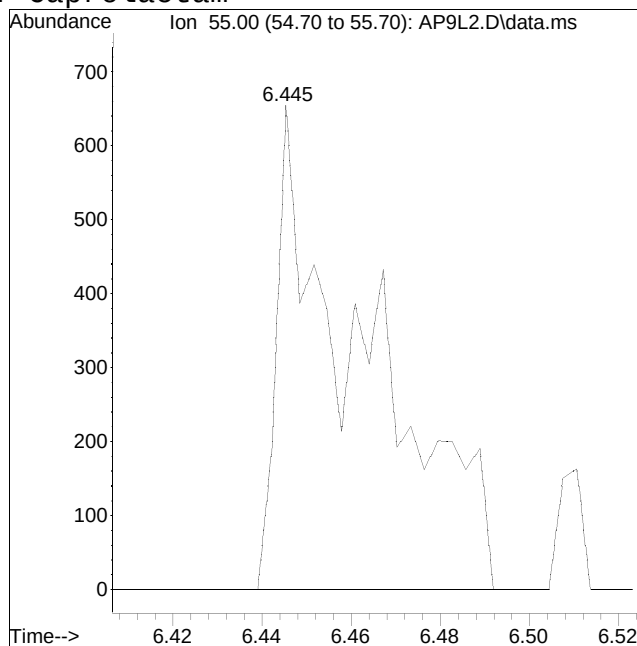
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : AP9L2.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 11:28 pm Instrument : Dakota
Sample : IL9,32,,AP9L0.2 Lot# 11548 Quant Date : 4/17/2025 3:25 pm

Compound #62: Caprolactam



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 879 M2

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L1.D
 Acq On : 16 Apr 2025 11:50 pm
 Operator : Dakota:HNY
 Sample : IL10,32,,AP9L0.1 Lot# 11549
 Misc : WG2055280
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 17 15:24:37 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	48014	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	130.46%		
57) IS2_Naphthalene-d8	6.051	136	162850	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	132.17%		
85) IS2_Acenaphthene-d10	7.754	164	112856	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	132.81%		
100) IS2_Phenanthrene-d10	9.184	188	249465	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	134.41%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.388	105	802	0.080	ug/ml	98
29) Acetophenone	5.218	105	1635	0.092	ug/ml#	81
30) m-Toluidine	0.000		0	N.D.		
31) 2-Chloroaniline	5.656	127	1278	0.081	ug/ml#	63
58) a-Terpineol	6.107	59	1034	0.087	ug/ml#	32
59) 3-Chloroaniline	6.122	65	459M2	0.076	ug/ml	
60) 2,6-Dichlorophenol	6.147	162	1150	0.086	ug/ml#	80
61) 1-chloro-2-nitrobenzene	6.405	111	451M2	0.080	ug/ml	
62) Caprolactam	6.396		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	6.921	216	1870	0.103	ug/ml#	81
64) Biphenyl	7.210	154	3665	0.095	ug/ml	96
86) Dichloran	8.876	206	253M2	0.044	ug/ml	
87) Pentachloronitrobenzene	9.028	237	325M2	0.062	ug/ml	
101) Diphenamid	10.082	167	2363	0.081	ug/ml#	74

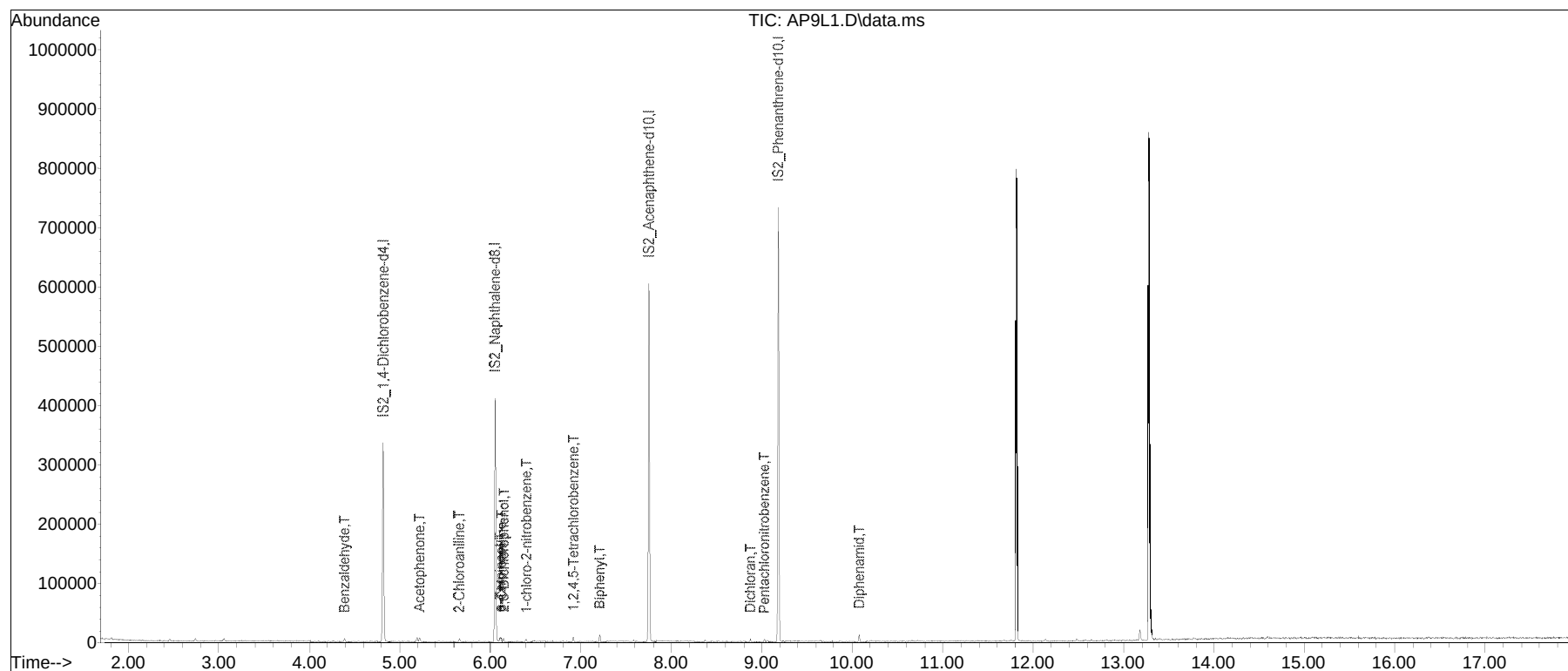
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L1.D
 Acq On : 16 Apr 2025 11:50 pm
 Operator : Dakota:HNY
 Sample : IL10,32,,AP9L0.1 Lot# 11549
 Misc : WG2055280
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 17 15:24:37 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

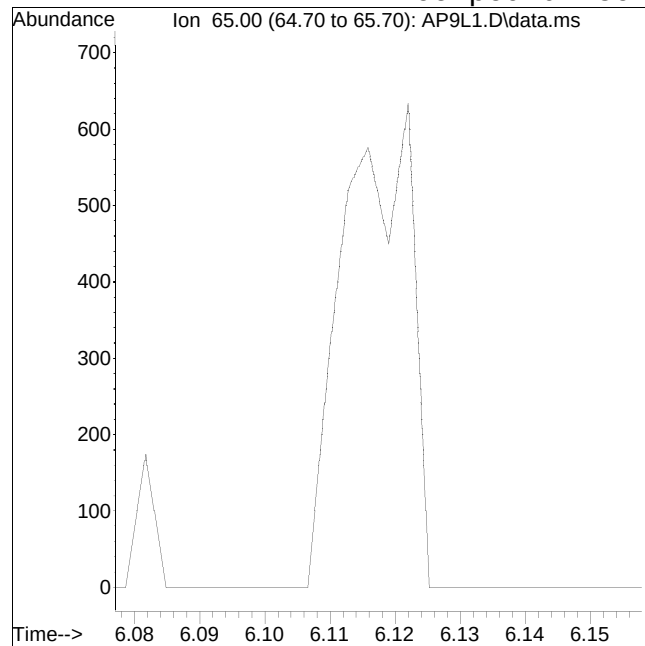
Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

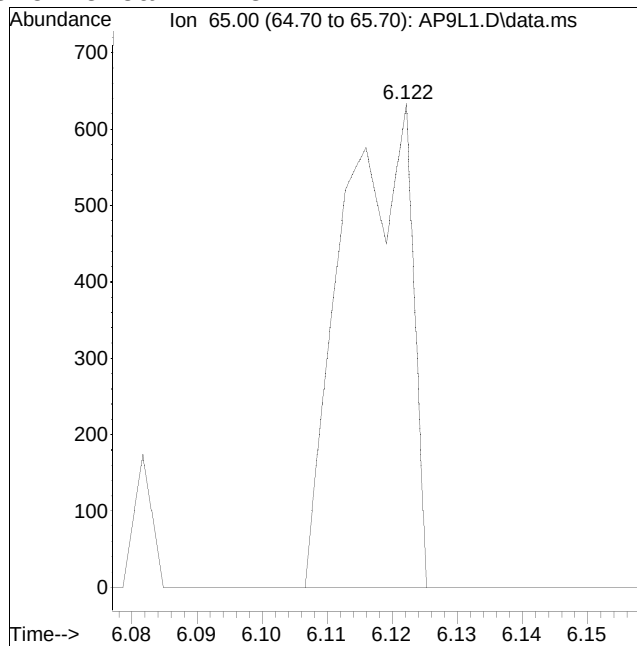
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : AP9L1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 11:50 pm Instrument : Dakota
Sample : IL10,32,,AP9L0.1 Lot# 1154 Quant Date : 4/17/2025 3:25 pm

Compound #59: 3-Chloroaniline



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

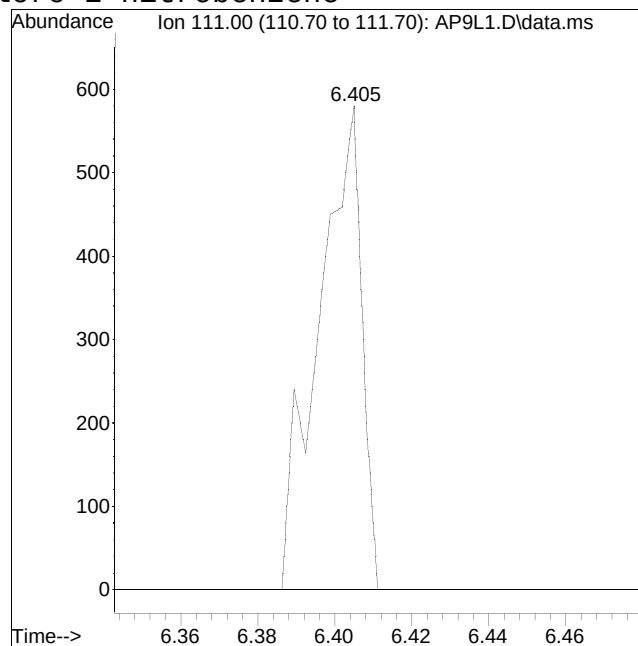
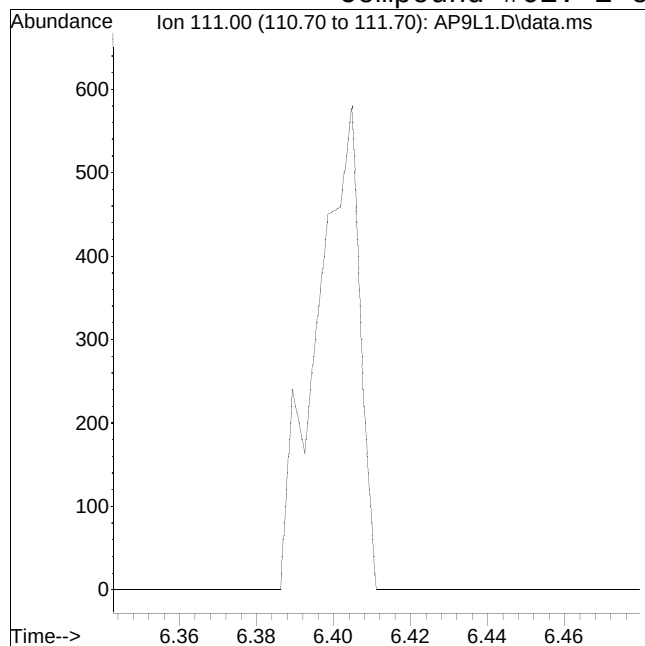


Manual Peak Response = 459 M2

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : AP9L1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 11:50 pm Instrument : Dakota
Sample : IL10,32,,AP9L0.1 Lot# 1154Quant Date : 4/17/2025 3:25 pm

Compound #61: 1-chloro-2-nitrobenzene



Original Peak Response = 0

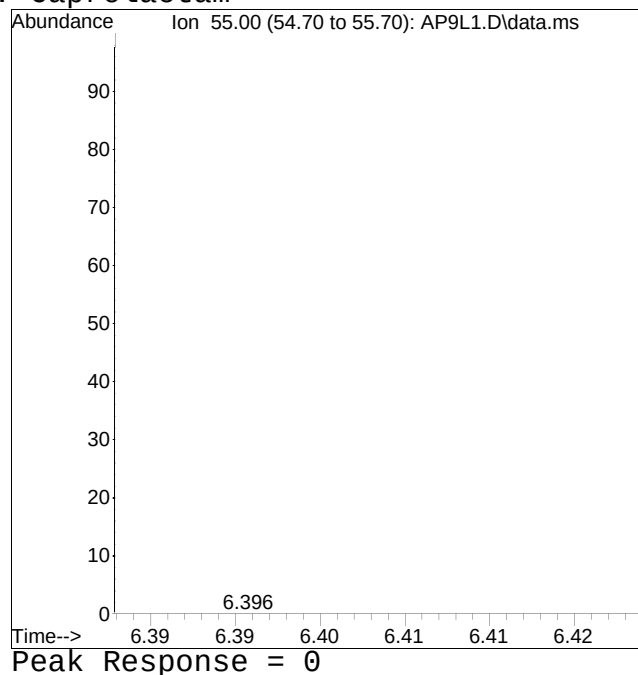
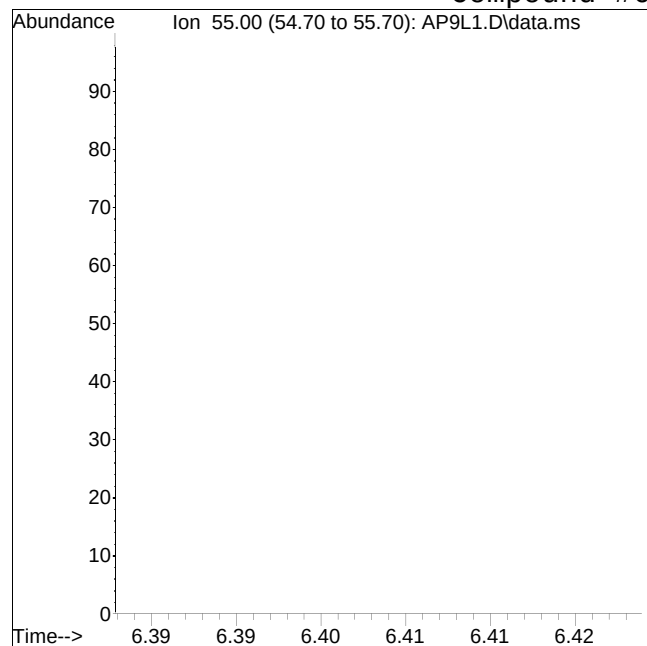
Manual Peak Response = 451 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : AP9L1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 11:50 pm Instrument : Dakota
Sample : IL10,32,,AP9L0.1 Lot# 1154Quant Date : 4/17/2025 3:25 pm

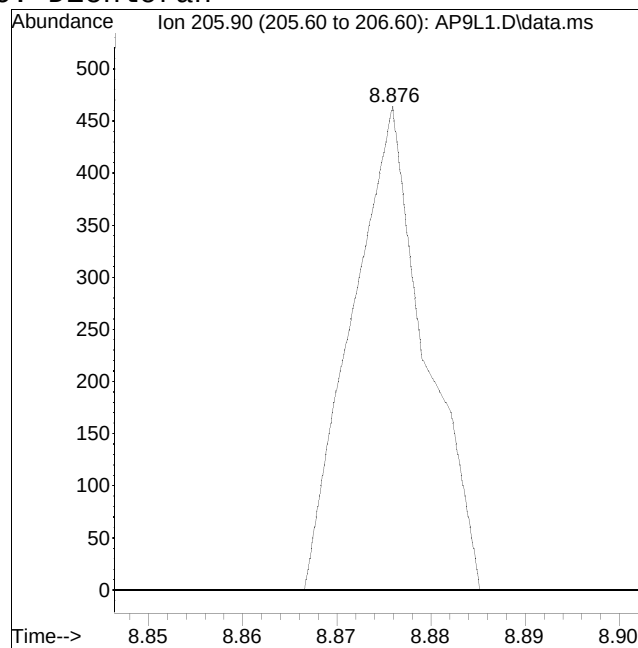
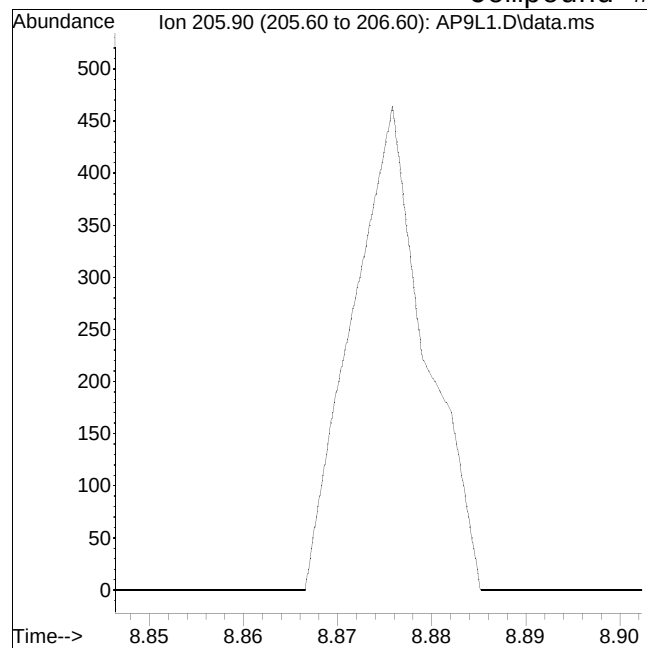
Compound #62: Caprolactam



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : AP9L1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 11:50 pm Instrument : Dakota
Sample : IL10,32,,AP9L0.1 Lot# 1154 Quant Date : 4/17/2025 3:25 pm

Compound #86: Dichloran



Original Peak Response = 0

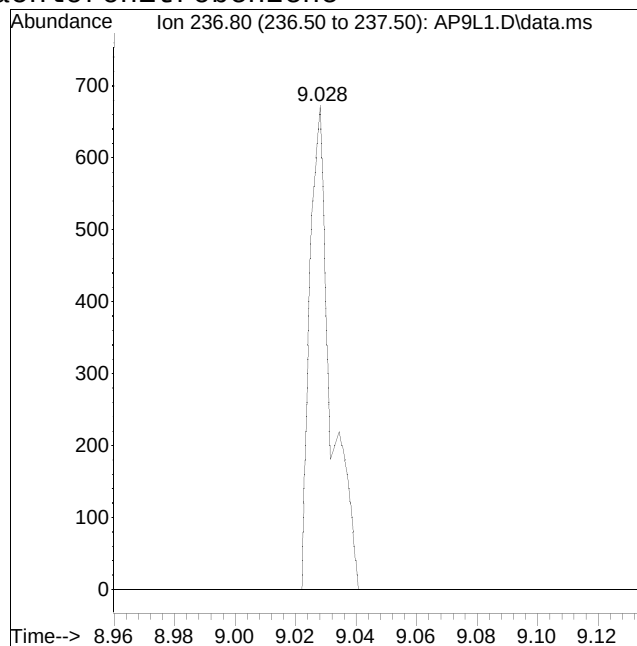
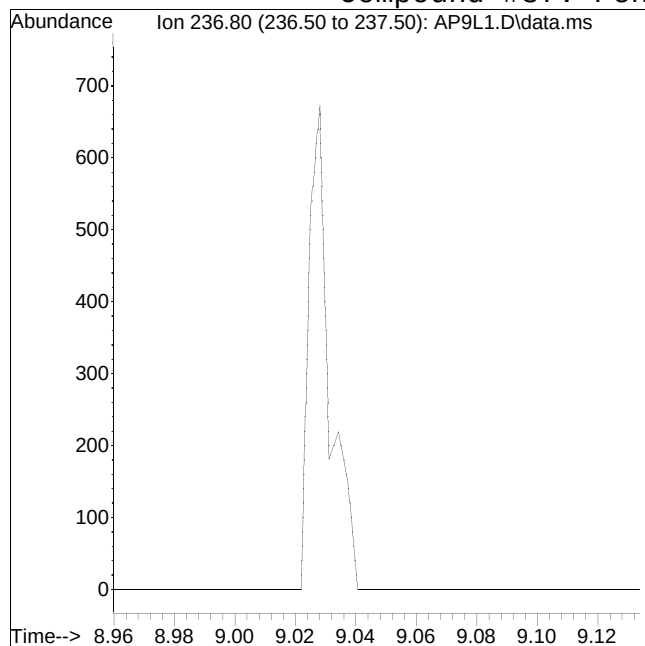
Manual Peak Response = 253 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : AP9L1.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 11:50 pm Instrument : Dakota
Sample : IL10,32,,AP9L0.1 Lot# 1154 Quant Date : 4/17/2025 3:25 pm

Compound #87: Pentachloronitrobenzene



Original Peak Response = 0

Manual Peak Response = 325 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNICV.D
 Acq On : 17 Apr 2025 12:13 am
 Operator : Dakota:HNY
 Sample : CQICV1,32,,ABNICV Lot# 11559
 Misc : WG2055280
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 17 15:21:01 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 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	92	0.00
2 t	n-Nitrosodimethylamine	0.686	0.688	-0.3	95	0.00
3 t	Pyridine	1.201	0.916	23.7#	73	0.00
4 S	2-Fluorophenol	1.027	0.937	8.8	85	0.00
5 T	Aniline	1.681	1.594	5.2	83	0.00
6 t	2-Chlorophenol	1.137	1.079	5.1	89	0.00
7 S	Phenol-d6	1.267	1.247	1.6	89	0.00
8 T	Phenol	1.542	1.460	5.3	87	0.00
9 T	Bis(2-chloroethyl)ether	0.996	1.022	-2.6	98	0.00
10 T	1,3-Dichlorobenzene	1.509	1.460	3.2	94	0.00
11 T	1,4-Dichlorobenzene	1.555	1.459	6.2	92	0.00
12 T	1,2-Dichlorobenzene	1.445	1.391	3.7	93	0.00
13 t	Benzyl alcohol	1.005	0.959	4.6	91	0.00
14 T	Bis(2-chloroisopropyl)ether	2.140	2.113	1.3	94	0.00
15 T	2-Methylphenol	1.014	1.006	0.8	91	0.00
16 T	Hexachloroethane	0.534	0.515	3.6	89	0.00
17 T	n-Nitrosodi-n-propylamine	0.907	0.892	1.7	91	0.00
18 T	3-Methylphenol/4-Methylphen	1.086	1.080	0.6	91	0.00
19 S	Nitrobenzene-d5	1.358	1.331	2.0	90	0.00
20 T	Nitrobenzene	1.329	1.267	4.7	89	0.00
21 T	Isophorone	2.441	2.358	3.4	91	0.00
22 T	2-Nitrophenol	0.587	0.585	0.3	87	0.00
23 T	2,4-Dimethylphenol	1.169	1.166	0.3	93	0.00
24 T	Bis(2-chloroethoxy)methane	1.438	1.372	4.6	91	0.00
25 T	2,4-Dichlorophenol	1.213	1.170	3.5	90	0.00
26 T	1,2,4-Trichlorobenzene	1.517	1.457	4.0	90	0.00
37 I	IS1_Naphthalene-d8	1.000	1.000	0.0	94	0.00
38 T	Naphthalene	1.025	0.952	7.1	93	0.00
39 T	Benzoic Acid	* 5.000	4.164	16.7	79	0.00
40 T	4-Chloroaniline	0.140	0.137	2.1	96	0.00
41 T	Hexachlorobutadiene	0.253	0.238	5.9	92	0.00
42 T	p-Chloro-m-cresol	0.285	0.280	1.8	94	0.00
43 T	2-Methylnaphthalene	0.666	0.662	0.6	94	0.00
44 T	1-Methylnaphthalene	0.226	0.227	-0.4	95	0.00
45 T	Hexachlorocyclopentadiene	0.341	0.318	6.7	91	0.00
46 T	2,4,6-Trichlorophenol	0.295	0.281	4.7	90	0.00
47 T	2,4,5-Trichlorophenol	0.328	0.319	2.7	94	0.00
48 S	2-Fluorobiphenyl	1.042	0.988	5.2	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNICV.D
 Acq On : 17 Apr 2025 12:13 am
 Operator : Dakota:HNY
 Sample : CQICV1,32,,ABNICV Lot# 11559
 Misc : WG2055280
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 17 15:21:01 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 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)
49 T	2-Chloronaphthalene	0.839	0.805	4.1	94	0.00
50 T	2-Nitroaniline	0.214	0.206	3.7	91	0.00
51 T	1,4-Dinitrobenzene	0.110	0.108	1.8	91	0.00
52 T	1,3-Dinitrobenzene	0.135	0.126	6.7	85	0.00
53 T	Dimethyl phthalate	1.012	0.973	3.9	94	0.00
54 T	Acenaphthylene	1.327	1.294	2.5	92	0.00
55 T	2,6-Dinitrotoluene	0.202	0.211	-4.5	94	0.00
56 T	1,2-Dinitrobenzene	0.084	0.079	6.0	91	0.00
65 I	IS1_Acenaphthene-d10	1.000	1.000	0.0	95	0.00
66 T	3-Nitroaniline	0.272	0.287	-5.5	93	0.00
67 T	Acenaphthene	1.046	1.009	3.5	95	0.00
68 T	2,4-Dinitrophenol	* 5.000	4.058	18.8	80	0.00
69 T	Dibenzofuran	1.874	1.701	9.2	92	0.00
70 T	2,4-Dinitrotoluene	0.400	0.404	-1.0	93	0.00
71 T	4-Nitrophenol	0.247	0.257	-4.0	97	0.00
72 T	2,3,5,6-Tetrachlorophenol	0.404	0.406	-0.5	94	0.00
73 T	2,3,4,6-Tetrachlorophenol	0.397	0.405	-2.0	97	0.00
74 T	Diethyl phthalate	1.403	1.334	4.9	95	0.00
75 T	Fluorene	1.460	1.404	3.8	96	0.00
76 T	4-Chlorophenyl phenyl ether	0.756	0.701	7.3	98	0.00
77 T	4-Nitroaniline	0.286	0.304	-6.3	93	0.00
78 T	4,6-Dinitro-o-cresol	0.248	0.234	5.6	86	0.00
79 T	NDPA/DPA	1.275	1.208	5.3	94	0.00
80 T	Azobenzene	1.299	1.251	3.7	95	0.00
81 S	2,4,6-Tribromophenol	0.235	0.237	-0.9	93	0.00
82 T	4-Bromophenyl phenyl ether	0.478	0.445	6.9	93	0.00
83 T	Hexachlorobenzene	0.558	0.499	10.6	94	0.00
84 T	Pentachlorophenol	0.331	0.301	9.1	88	0.00
90 I	IS1_Phenanthrene-d10	1.000	1.000	0.0	95	0.00
91 T	Phenanthrene	1.150	1.078	6.3	94	0.00
92 T	Anthracene	1.127	1.111	1.4	96	0.00
93 T	Carbazole	1.060	1.016	4.2	92	0.00
94 T	Di-n-butylphthalate	1.100	1.100	0.0	96	0.00
95 T	Fluoranthene	1.355	1.335	1.5	95	0.00
96 T	Benzidine	0.817	0.902	-10.4	104	0.00
97 T	Pyrene	1.466	1.435	2.1	95	0.00
98 S	4-Terphenyl-d14	1.069	1.062	0.7	98	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNICV.D
 Acq On : 17 Apr 2025 12:13 am
 Operator : Dakota:HNY
 Sample : CQICV1,32,,ABNICV Lot# 11559
 Misc : WG2055280
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 17 15:21:01 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 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)
99 T	Butyl benzyl phthalate	0.478	0.487	-1.9	93	0.00
106 I	IS1_Chrysene-d12	1.000	1.000	0.0	98	0.00
107 T	Benzo(a)anthracene	1.313	1.239	5.6	94	0.00
108 T	3,3'-Dichlorobenzidine	0.464	0.487	-5.0	101	0.00
109 T	Chrysene	1.293	1.184	8.4	97	0.00
110 T	Bis(2-ethylhexyl)phthalate	0.661	0.677	-2.4	95	0.00
111 T	Di-n-octylphthalate	1.074	1.132	-5.4	96	0.00
112 T	Benzo(b)fluoranthene	1.332	1.280	3.9	93	0.00
113 T	Benzo(k)fluoranthene	1.355	1.248	7.9	91	0.00
114 T	Benzo(a)pyrene	1.271	1.209	4.9	93	0.00
115 I	IS1_Perylene-d12	1.000	1.000	0.0	93	0.00
116 T	Indeno(1,2,3-cd)pyrene	1.242	1.155	7.0	85	0.00
117 T	Dibenzo(a,h)anthracene	1.197	1.141	4.7	91	0.00
118 T	Benzo(ghi)perylene	1.198	1.109	7.4	90	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\Dakota\250416RVTICAL\
 Data File : ABNICV.D
 Acq On : 17 Apr 2025 12:13 am
 Operator : Dakota:HNY
 Sample : CQICV1,32,,ABNICV Lot# 11559
 Misc : WG2055280
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 17 15:21:01 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.817	152	35875	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	92.18%		
37) IS1_Naphthalene-d8	6.051	136	128827	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	93.66%		
65) IS1_Acenaphthene-d10	7.754	164	92929	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	94.75%		
90) IS1_Phenanthrene-d10	9.184	188	200323	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	94.88%		
106) IS1_Chrysene-d12	11.819	240	235574	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	97.75%		
115) IS1_Perylene-d12	13.280	264	261920	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	92.76%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.549	112	42040	4.565	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	228.25%#		
7) Phenol-d6	4.487	99	55907	4.921	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	246.05%#		
19) Nitrobenzene-d5	5.354	82	59706	4.903	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	490.30%#		
48) 2-Fluorobiphenyl	7.120	172	159066	4.740	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	474.00%#		
81) 2,4,6-Tribromophenol	8.515	330	27549	5.035	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	251.75%#		
98) 4-Terphenyl-d14	10.759	244	265836	4.965	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	496.50%#		
Target Compounds						
2) n-Nitrosodimethylamine	2.181	74	30841	5.016	ug/ml#	89
3) Pyridine	2.228	79	41067M1	3.813	ug/ml	
5) Aniline	4.497	93	71500	4.743	ug/ml#	37
6) 2-Chlorophenol	4.612	128	48371	4.745	ug/ml	96
8) Phenol	4.500	94	65471	4.733	ug/ml#	41
9) Bis(2-chloroethyl)ether	4.577	93	45842	5.133	ug/ml	95
10) 1,3-Dichlorobenzene	4.761	146	65485	4.839	ug/ml	95
11) 1,4-Dichlorobenzene	4.832	146	65436	4.691	ug/ml	92
12) 1,2-Dichlorobenzene	4.981	146	62400	4.815	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNICV.D
 Acq On : 17 Apr 2025 12:13 am
 Operator : Dakota:HNY
 Sample : CQICV1,32,,ABNICV Lot# 11559
 Misc : WG2055280
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 17 15:21:01 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.963	79	42998	4.772	ug/ml	96
14)	Bis(2-chloroisopropyl)...	5.112	45	94733	4.936	ug/ml#	98
15)	2-Methylphenol	5.090	108	45115	4.962	ug/ml	100
16)	Hexachloroethane	5.311	117	23075	4.818	ug/ml#	46
17)	n-Nitrosodi-n-propylamine	5.233	70	40014	4.917	ug/ml#	85
18)	3-Methylphenol/4-Methy...	5.246	108	48449	4.974	ug/ml	99
20)	Nitrobenzene	5.373	77	56822	4.767	ug/ml	93
21)	Isophorone	5.616	82	105759	4.831	ug/ml#	91
22)	2-Nitrophenol	5.690	139	26230	4.985	ug/ml	96
23)	2,4-Dimethylphenol	5.758	107	52292	4.987	ug/ml	98
24)	Bis(2-chloroethoxy)met...	5.846	93	61519	4.769	ug/ml#	96
25)	2,4-Dichlorophenol	5.926	162	52452	4.823	ug/ml#	91
26)	1,2,4-Trichlorobenzene	6.004	180	65323	4.802	ug/ml	97
38)	Naphthalene	6.072	128	153290	4.644	ug/ml	99
39)	Benzoic Acid	5.821	105	23239	4.164	ug/ml	92
40)	4-Chloroaniline	6.138	65	22098	4.898	ug/ml	98
41)	Hexachlorobutadiene	6.222	225	38343	4.713	ug/ml	98
42)	p-Chloro-m-cresol	6.629	107	45155	4.925	ug/ml	92
43)	2-Methylnaphthalene	6.750	142	106563	4.968	ug/ml	99
44)	1-Methylnaphthalene	6.843	115	36502	5.007	ug/ml	88
45)	Hexachlorocyclopentadiene	6.918	237	51289	4.669	ug/ml	99
46)	2,4,6-Trichlorophenol	7.033	196	45273	4.762	ug/ml	99
47)	2,4,5-Trichlorophenol	7.061	196	51407	4.873	ug/ml	99
49)	2-Chloronaphthalene	7.216	162	129562	4.795	ug/ml#	90
50)	2-Nitroaniline	7.322	138	33227	4.818	ug/ml	97
51)	1,4-Dinitrobenzene	7.452	168	17382	4.889	ug/ml	91
52)	1,3-Dinitrobenzene	7.530	168	20279	4.674	ug/ml#	1
53)	Dimethyl phthalate	7.521	163	156648	4.808	ug/ml#	98
54)	Acenaphthylene	7.614	152	208328	4.873	ug/ml	98
55)	2,6-Dinitrotoluene	7.567	165	34054	5.223	ug/ml#	78
56)	1,2-Dinitrobenzene	7.608	168	12715	4.698	ug/ml#	1
66)	3-Nitroaniline	7.720	138	33346	5.272	ug/ml#	95
67)	Acenaphthene	7.785	154	117212	4.821	ug/ml	91
68)	2,4-Dinitrophenol	7.822	184	17513	4.058	ug/ml	88
69)	Dibenzofuran	7.953	168	197640	4.540	ug/ml	90
70)	2,4-Dinitrotoluene	7.953	165	46984	5.051	ug/ml	91
71)	4-Nitrophenol	7.900	65	29826	5.197	ug/ml	96
72)	2,3,5,6-Tetrachlorophenol	8.040	232	47213	5.024	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNICV.D
 Acq On : 17 Apr 2025 12:13 am
 Operator : Dakota:HNY
 Sample : CQICV1,32,,ABNICV Lot# 11559
 Misc : WG2055280
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 17 15:21:01 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.083	232	47057	5.098	ug/ml	100
74)	Diethyl phthalate	8.211	149	154977	4.755	ug/ml	99
75)	Fluorene	8.285	166	163111	4.809	ug/ml	95
76)	4-Chlorophenyl phenyl ...	8.301	204	81400	4.633	ug/ml#	84
77)	4-Nitroaniline	8.307	138	35337	5.319	ug/ml	93
78)	4,6-Dinitro-o-cresol	8.341	198	27238	4.734	ug/ml#	63
79)	NDPA/DPA	8.413	169	140272	4.734	ug/ml	93
80)	Azobenzene	8.450	77	145361	4.818	ug/ml	97
82)	4-Bromophenyl phenyl e...	8.770	248	51646	4.652	ug/ml#	79
83)	Hexachlorobenzene	8.820	284	57924	4.471	ug/ml#	83
84)	Pentachlorophenol	9.013	266	34941	4.549	ug/ml	98
91)	Phenanthrene	9.205	178	269921	4.686	ug/ml	100
92)	Anthracene	9.255	178	278126	4.930	ug/ml	99
93)	Carbazole	9.420	167	254432	4.792	ug/ml	99
94)	Di-n-butylphthalate	9.802	149	275425	4.998	ug/ml#	99
95)	Fluoranthene	10.355	202	334285	4.926	ug/ml#	90
96)	Benzidine	10.505	184	225830	5.517	ug/ml#	93
97)	Pyrene	10.573	202	359431	4.897	ug/ml	100
99)	Butyl benzyl phthalate	11.285	149	121849	5.095	ug/ml	89
107)	Benzo(a)anthracene	11.810	228	364778	4.716	ug/ml	100
108)	3,3'-Dichlorobenzidine	11.804	252	143436	5.246	ug/ml#	96
109)	Chrysene	11.844	228	348654	4.579	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.919	149	199454	5.122	ug/ml#	94
111)	Di-n-octylphthalate	12.596	149	333442	5.271	ug/ml#	78
112)	Benzo(b)fluoranthene	12.913	252	376863	4.803	ug/ml#	92
113)	Benzo(k)fluoranthene	12.938	252	367509	4.606	ug/ml#	92
114)	Benzo(a)pyrene	13.224	252	356112	4.758	ug/ml#	91
116)	Indeno(1,2,3-cd)pyrene	14.268	276	378011M6	4.646	ug/mL	
117)	Dibenzo(a,h)anthracene	14.293	278	373528	4.765	ug/ml#	88
118)	Benzo(ghi)perylene	14.530	276	362964	4.629	ug/ml#	84

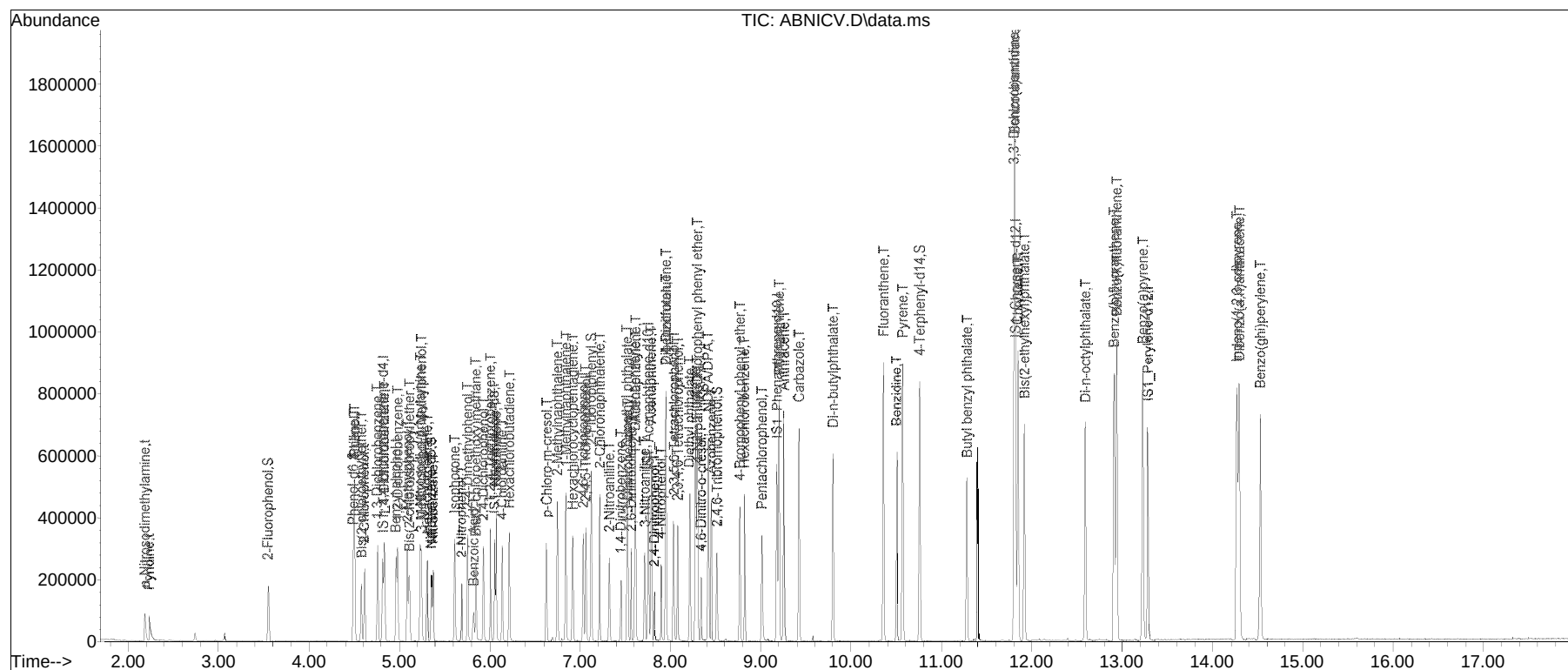
(#) = qualifier out of range (m) = manual integration (+) = signals summed

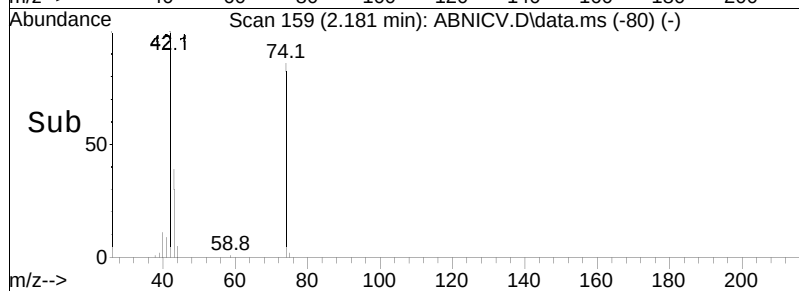
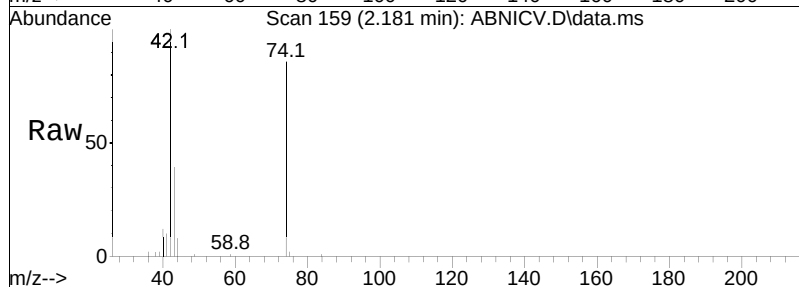
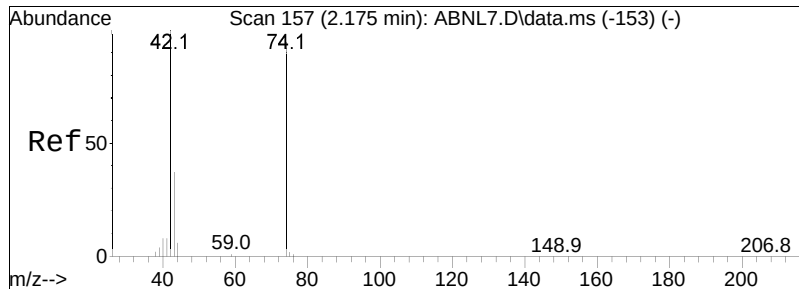
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNICV.D
Acq On : 17 Apr 2025 12:13 am
Operator : Dakota:HNY
Sample : CQICV1,32,,ABNICV Lot# 11559
Misc : WG2055280
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 17 15:21:01 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

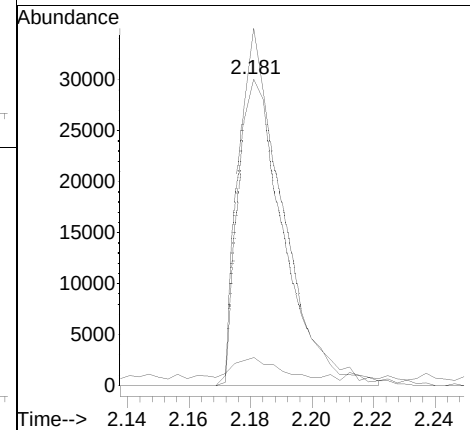
Sub List : ABNical - ABN ical sublistVTICAL\AP9L6.D•

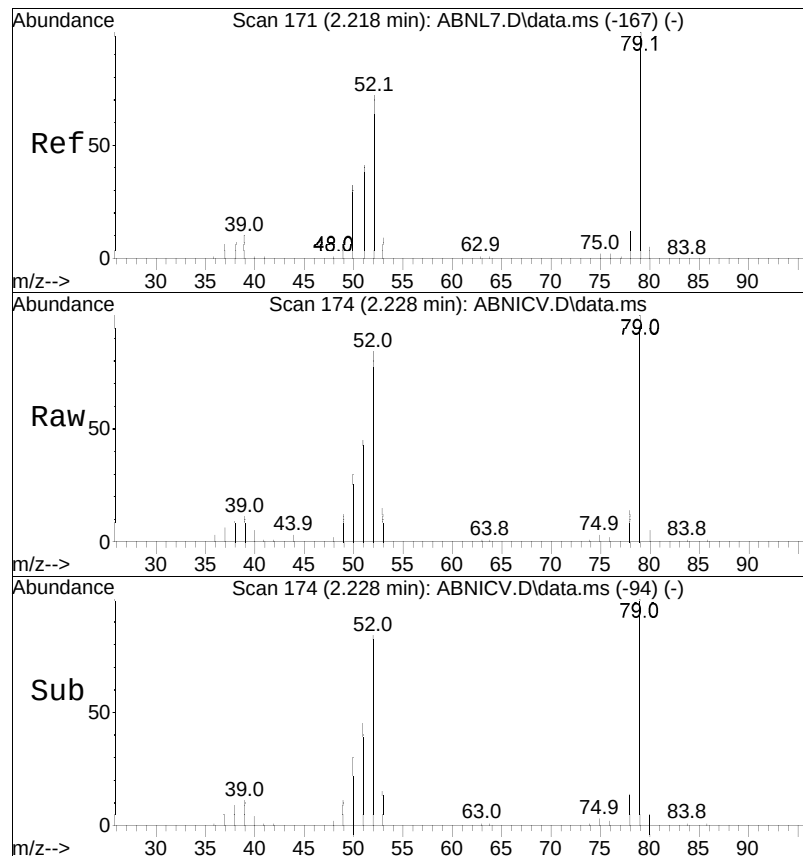




#2
 n-Nitrosodimethylamine
 Concen: 5.02 ug/ml
 RT: 2.181 min Scan# 159
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

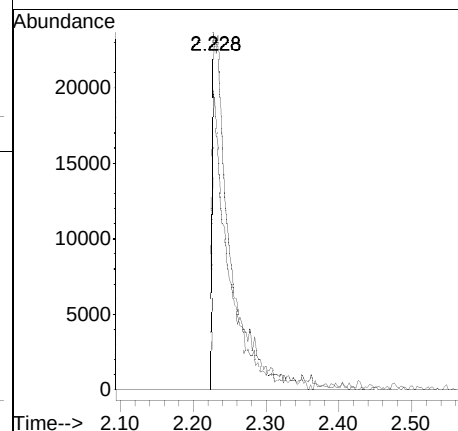
Tgt Ion: 74 Resp: 30841
 Ion Ratio Lower Upper
 74 100
 42 112.5 100.0 150.0
 44 5.4 6.7 10.1#

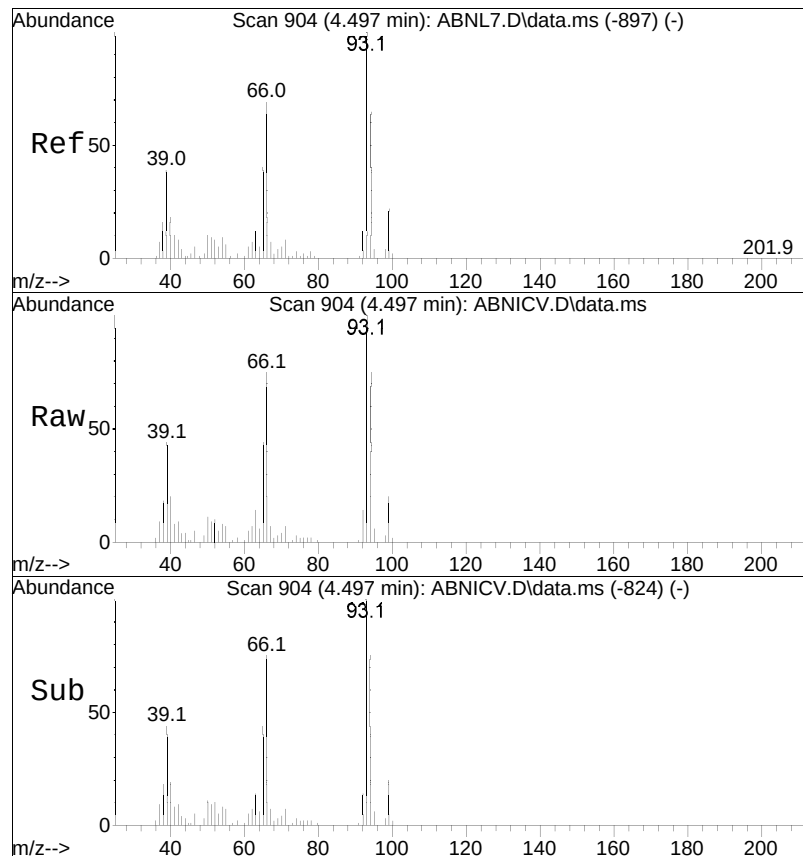




#3
 Pyridine
 Concen: 3.81 ug/ml M1
 RT: 2.228 min Scan# 174
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

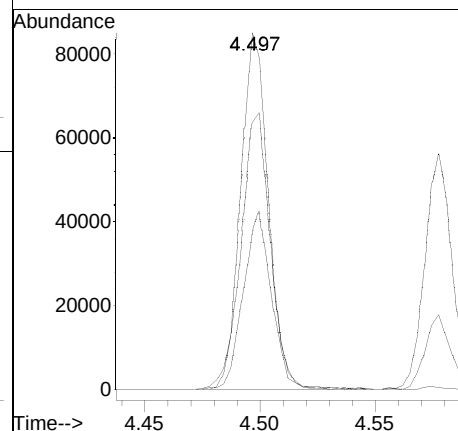
Tgt Ion	Ratio	Lower	Upper
79	100		
52	72.3	93.1	139.7#

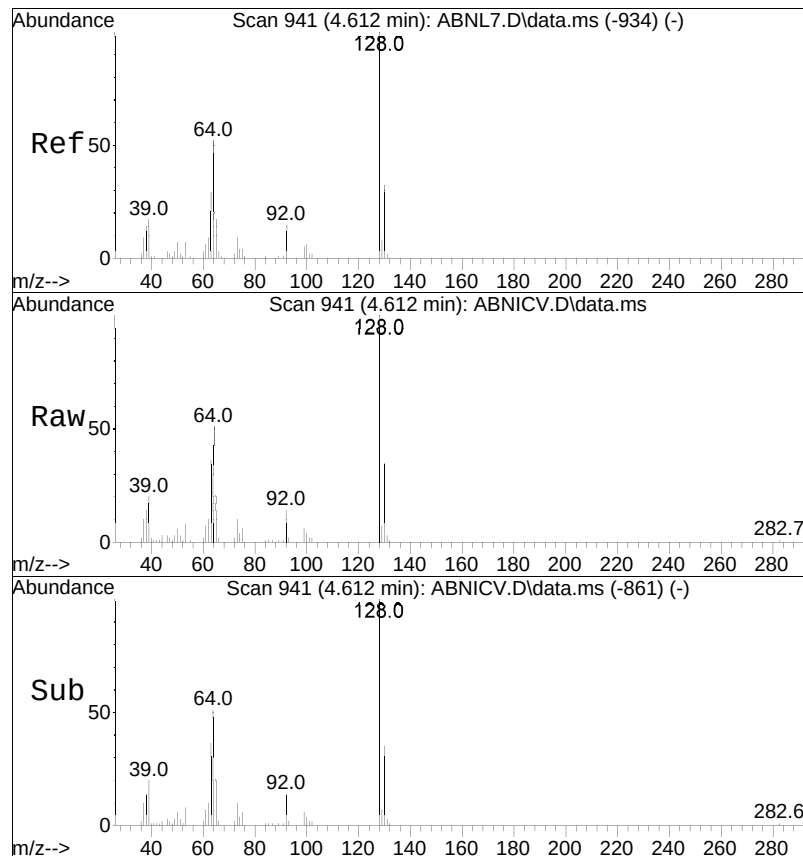




#5
 Aniline
 Concen: 4.74 ug/ml
 RT: 4.497 min Scan# 904
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

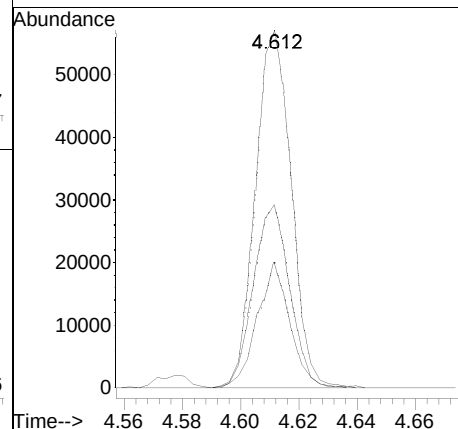
Tgt Ion	Ratio	Lower	Upper
93	100		
66	81.5	32.6	49.0#
65	50.4	17.6	26.4#

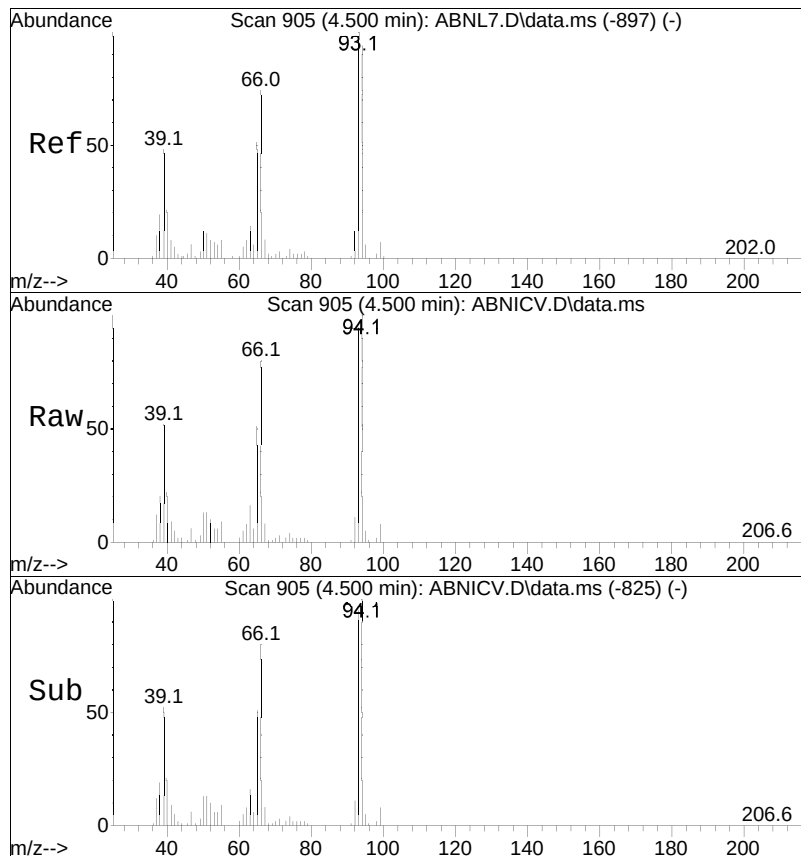




#6
 2-Chlorophenol
 Concen: 4.74 ug/ml
 RT: 4.612 min Scan# 941
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

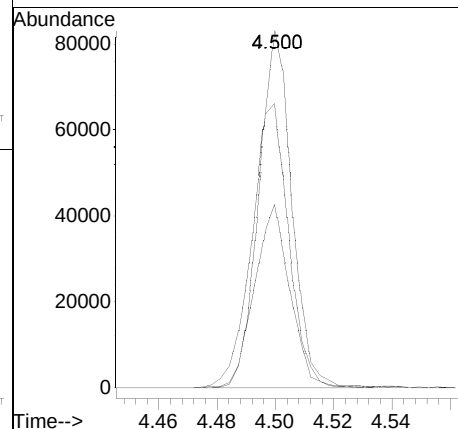
Tgt Ion	Ratio	Lower	Upper
128	100		
64	52.1	45.1	67.7
130	32.1	26.2	39.4

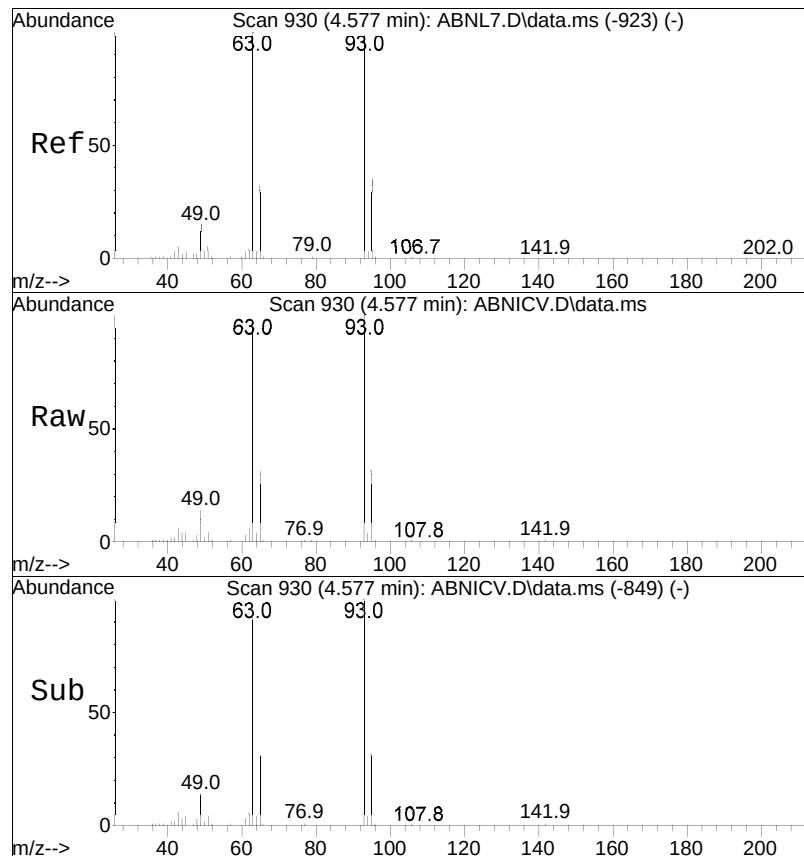




#8
 Phenol
 Concen: 4.73 ug/ml
 RT: 4.500 min Scan# 905
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

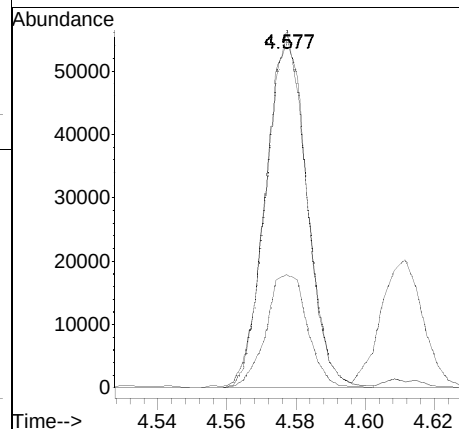
Tgt	Ion: 94	Resp:	65471
Ion	Ratio	Lower	Upper
94	100		
65	55.0	26.0	39.0#
66	89.0	33.8	50.8#

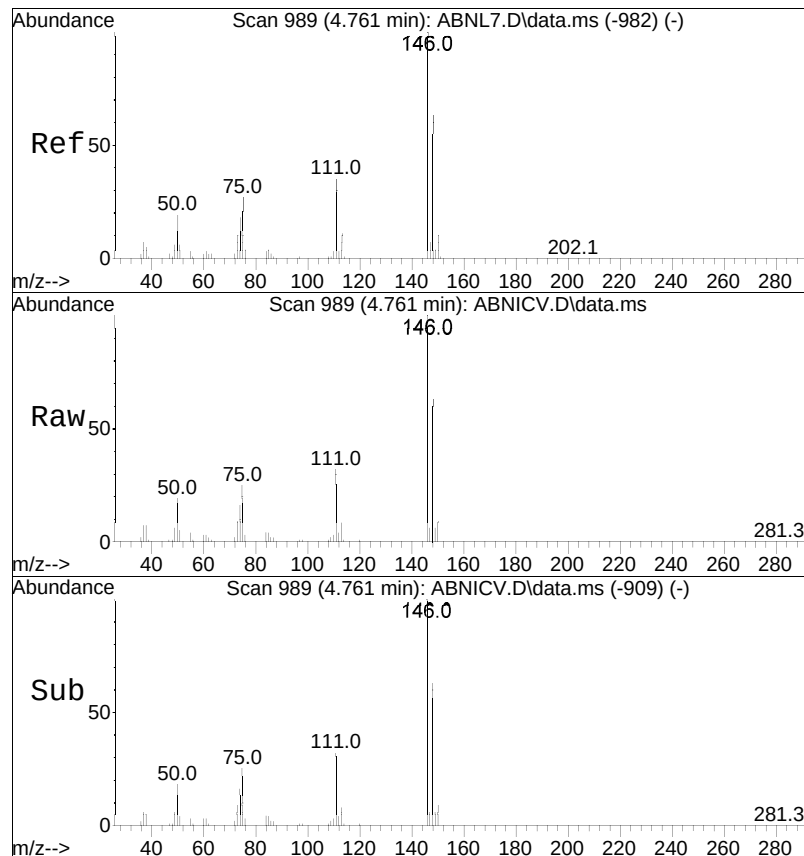




#9
 Bis(2-chloroethyl)ether
 Concen: 5.13 ug/ml
 RT: 4.577 min Scan# 930
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

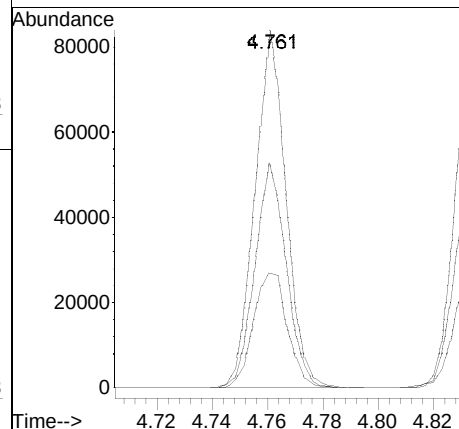
Tgt Ion	Ratio	Resp	Lower	Upper
93	100	45842		
63	99.6		74.6	111.8
95	32.5		25.9	38.9

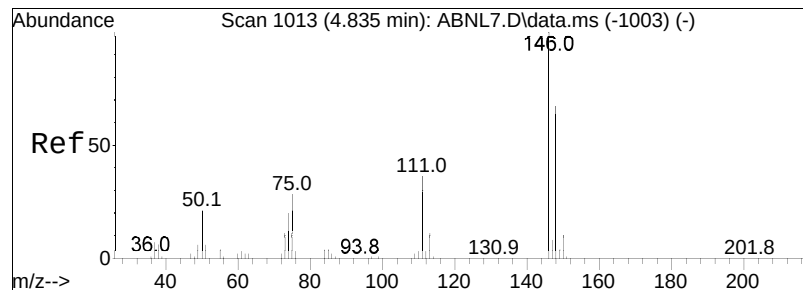




#10
 1,3-Dichlorobenzene
 Concen: 4.84 ug/ml
 RT: 4.761 min Scan# 989
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

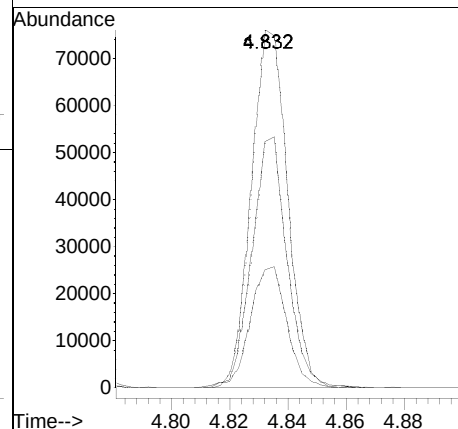
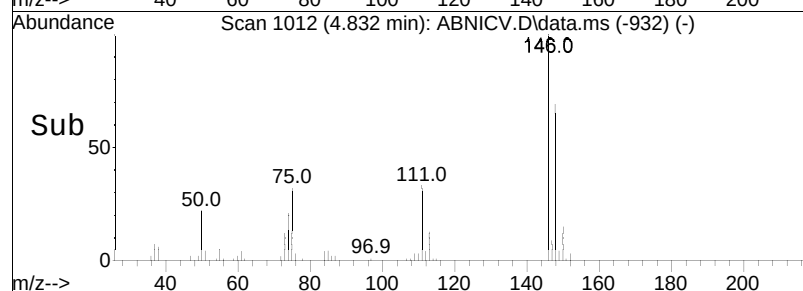
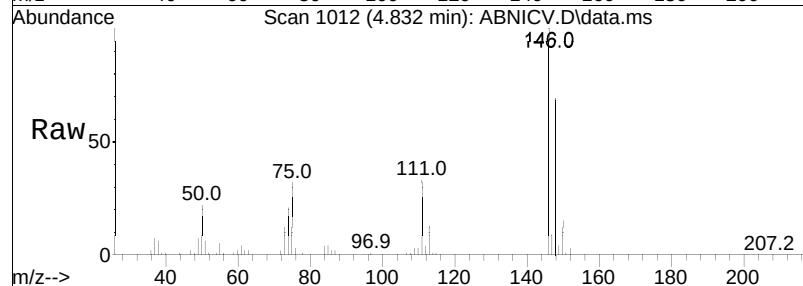
Tgt	Ion:146	Resp:	65485
Ion	Ratio	Lower	Upper
146	100		
111	35.3	34.3	51.5
148	63.4	50.8	76.2

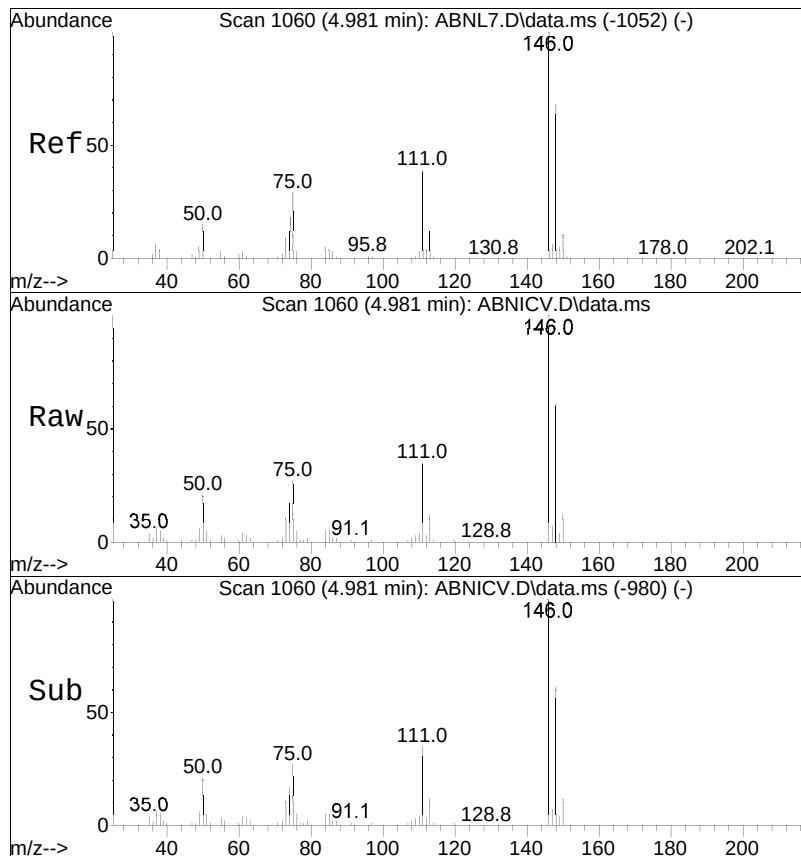




#11
 1,4-Dichlorobenzene
 Concen: 4.69 ug/ml
 RT: 4.832 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

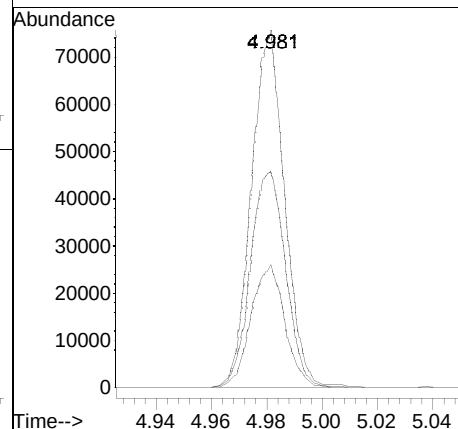
Tgt Ion	Ratio	Lower	Upper
146	100		
148	67.7	50.7	76.1
111	34.6	33.4	50.0

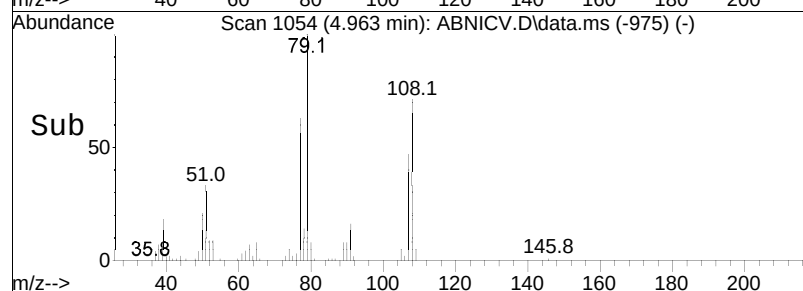
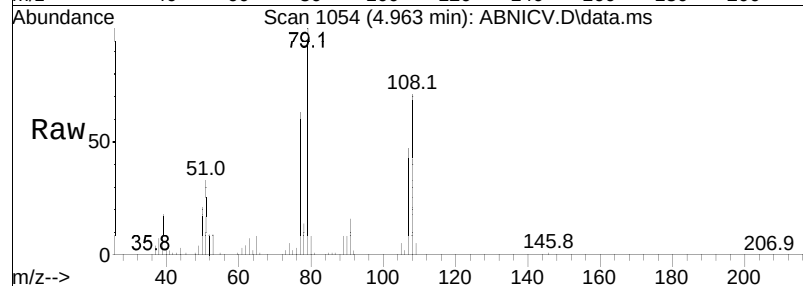
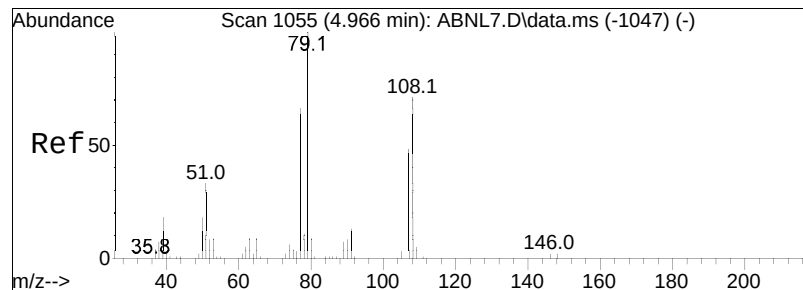




#12
 1,2-Dichlorobenzene
 Concen: 4.81 ug/ml
 RT: 4.981 min Scan# 1060
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt	Ion:146	Resp:	62400
Ion	Ratio	Lower	Upper
146	100		
111	35.3	34.6	52.0
148	64.2	50.2	75.4





#13

Benzyl alcohol

Concen: 4.77 ug/ml

RT: 4.963 min Scan# 1054

Delta R.T. -0.003 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

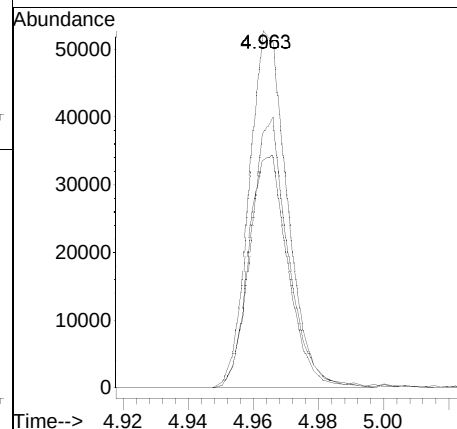
Tgt Ion: 79 Resp: 42998

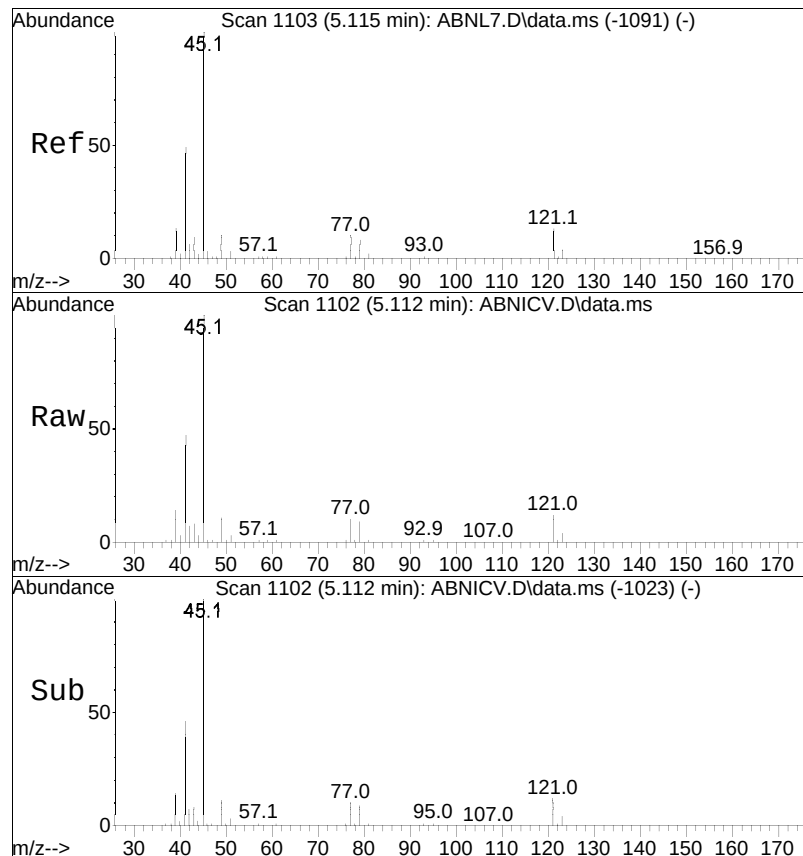
Ion Ratio Lower Upper

79 100

77 67.5 54.9 82.3

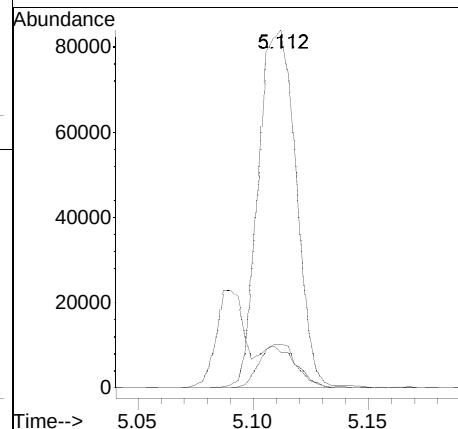
108 73.2 63.1 94.7

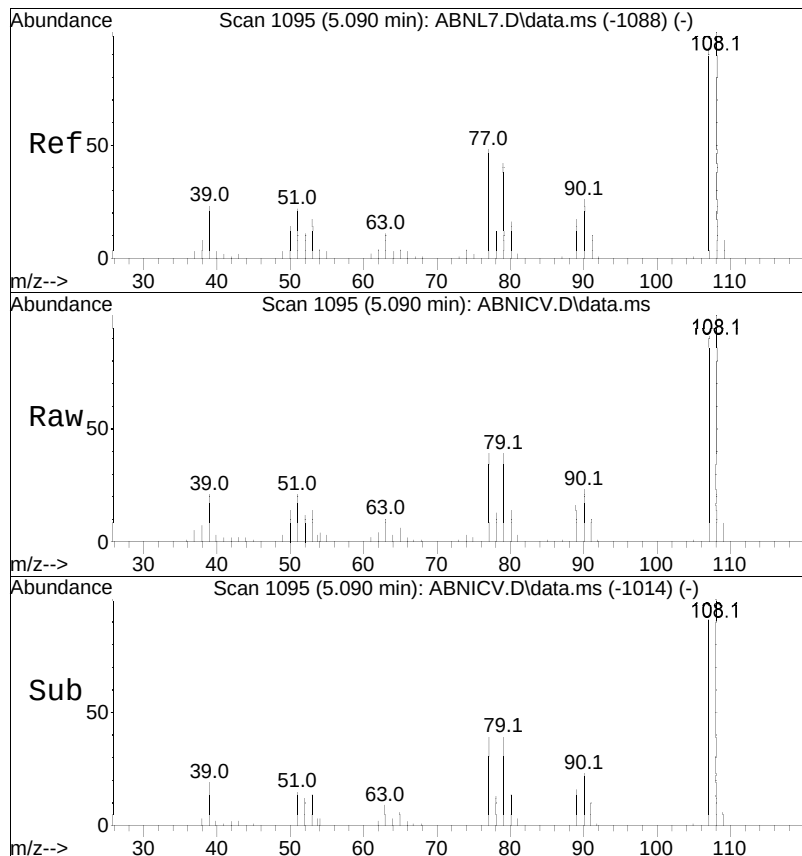




#14
 Bis(2-chloroisopropyl)ether
 Concen: 4.94 ug/ml
 RT: 5.112 min Scan# 1102
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

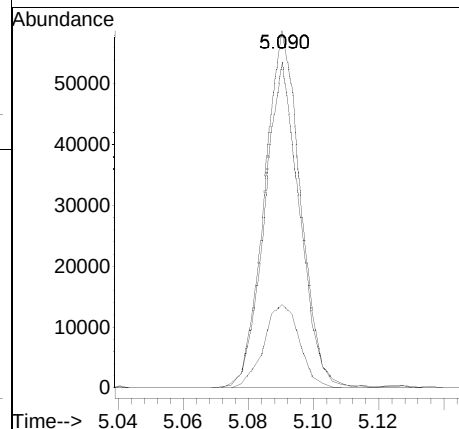
Tgt	Ion: 45	Resp:	94733
Ion	Ratio	Lower	Upper
45	100		
121	12.3	9.8	14.6
77	9.6	6.1	9.1#

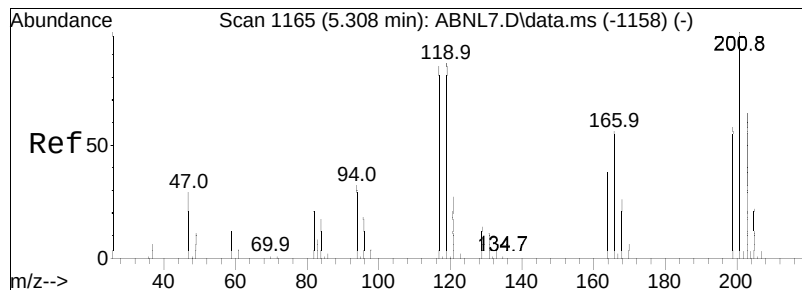




#15
 2-Methylphenol
 Concen: 4.96 ug/ml
 RT: 5.090 min Scan# 1095
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

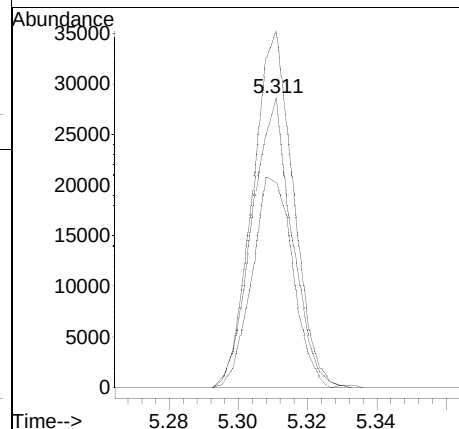
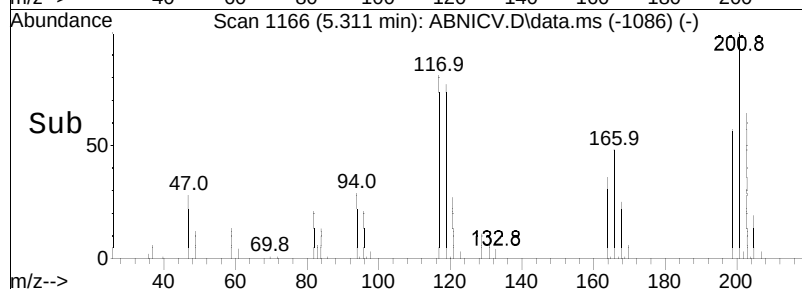
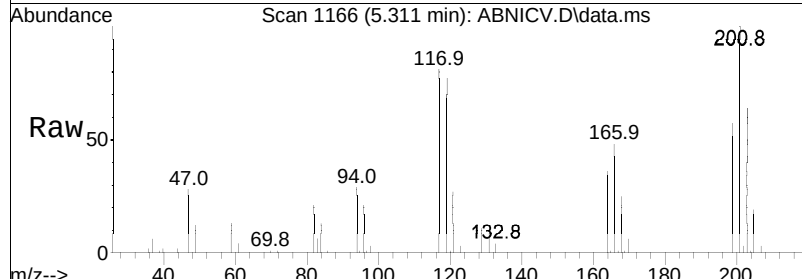
Tgt	Ion:108	Resp:	45115
Ion	Ratio	Lower	Upper
108	100		
107	88.7	70.7	106.1
90	23.2	18.7	28.1

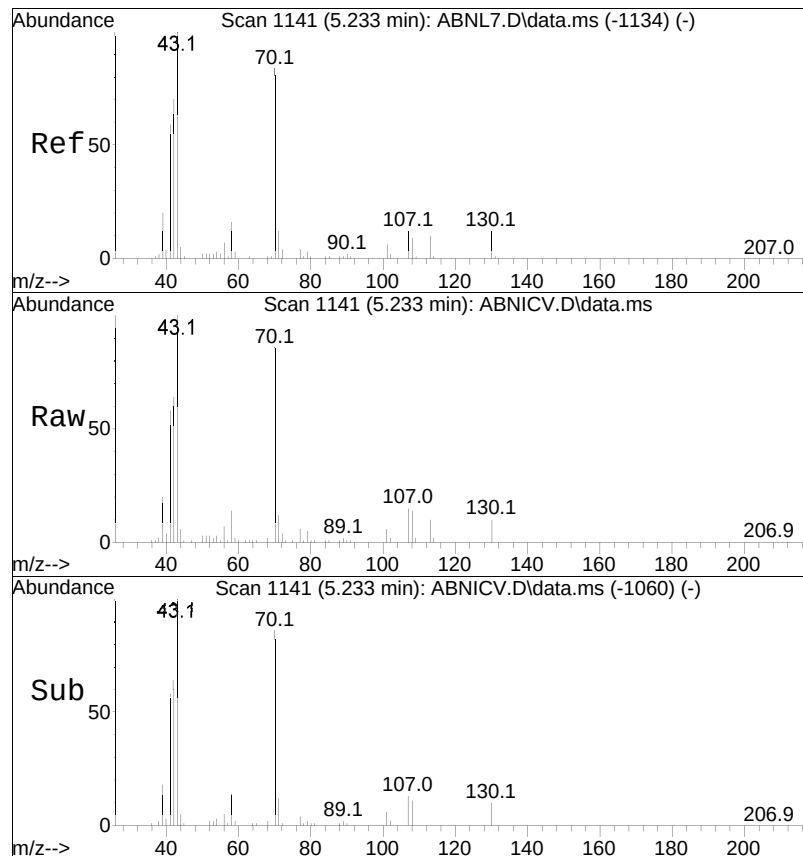




#16
 Hexachloroethane
 Concen: 4.82 ug/ml
 RT: 5.311 min Scan# 1166
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

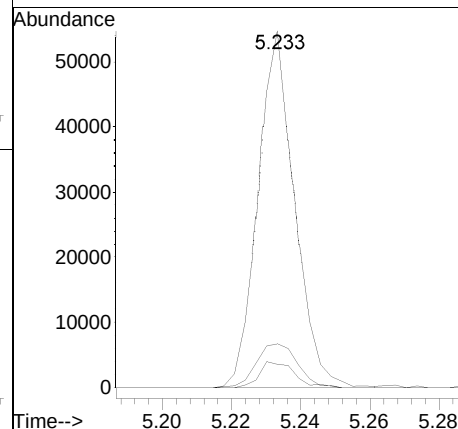
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	23075		
201	124.5		58.6	87.8#
199	74.3		36.9	55.3#

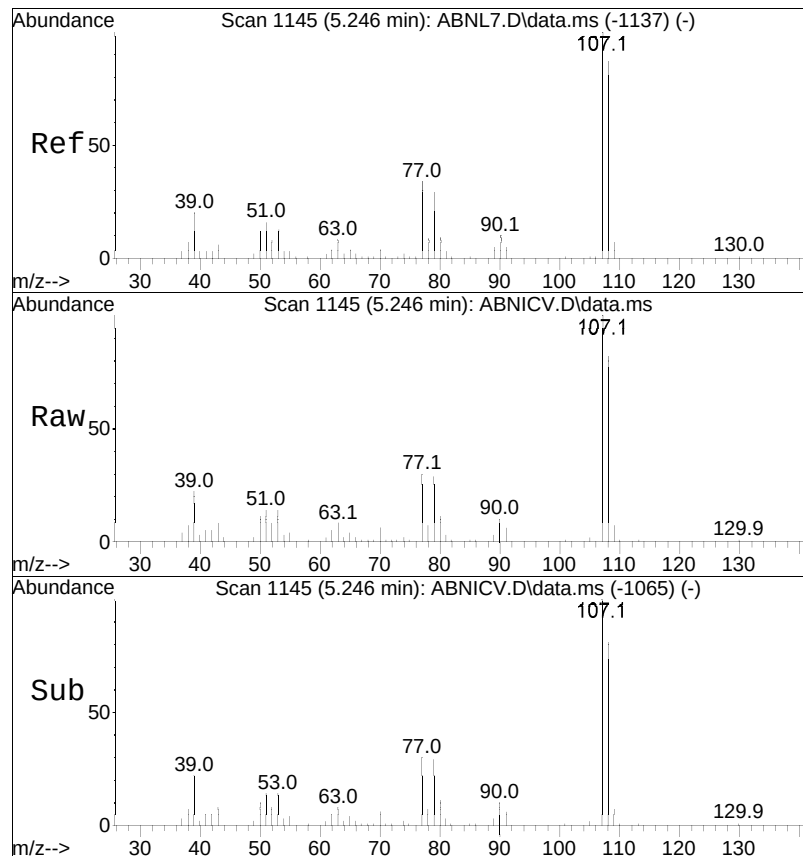




#17
 n-Nitrosodi-n-propylamine
 Concen: 4.92 ug/ml
 RT: 5.233 min Scan# 1141
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

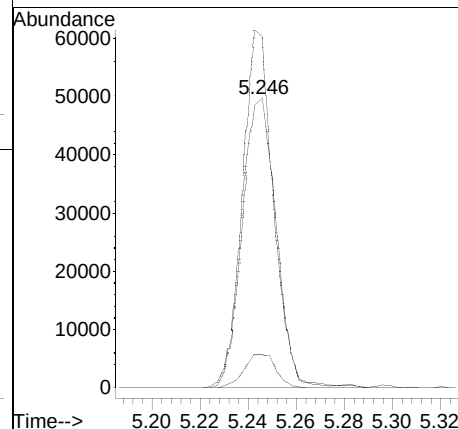
Tgt Ion	Ratio	Lower	Upper
70	100		
130	13.9	18.2	27.4#
101	7.0	7.8	11.8#

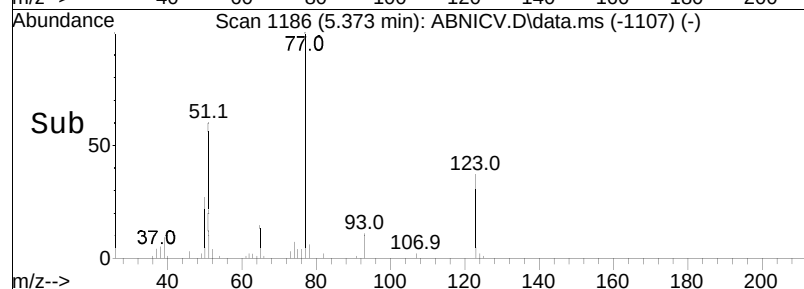
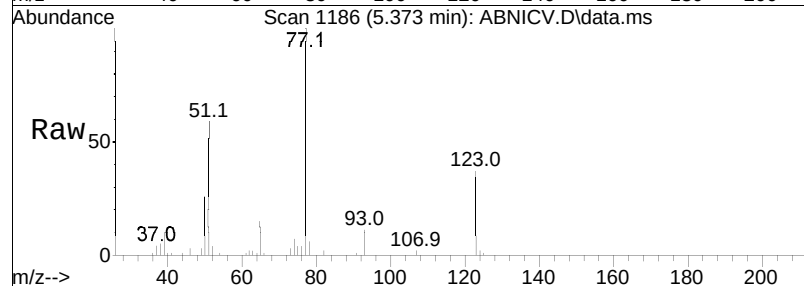
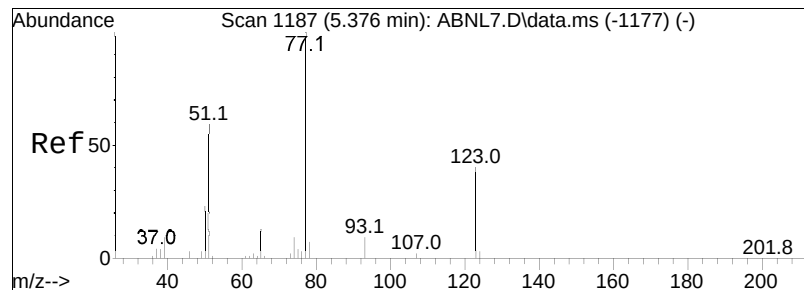




#18
 3-Methylphenol/4-Methylphenol
 Concen: 4.97 ug/ml
 RT: 5.246 min Scan# 1145
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt Ion:	108	Resp:	48449
Ion Ratio	Lower	Upper	
108	100		
107	111.9	88.6	132.8
90	11.0	8.8	13.2





#20

Nitrobenzene

Concen: 4.77 ug/ml

RT: 5.373 min Scan# 1186

Delta R.T. -0.003 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

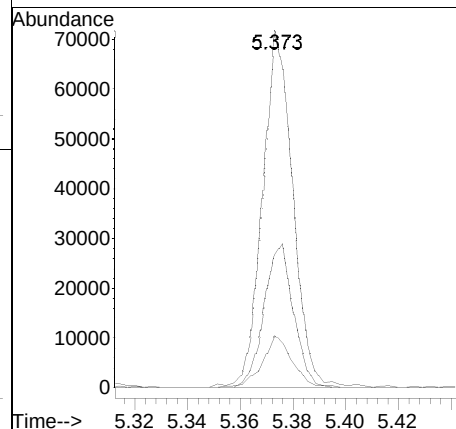
Tgt Ion: 77 Resp: 56822

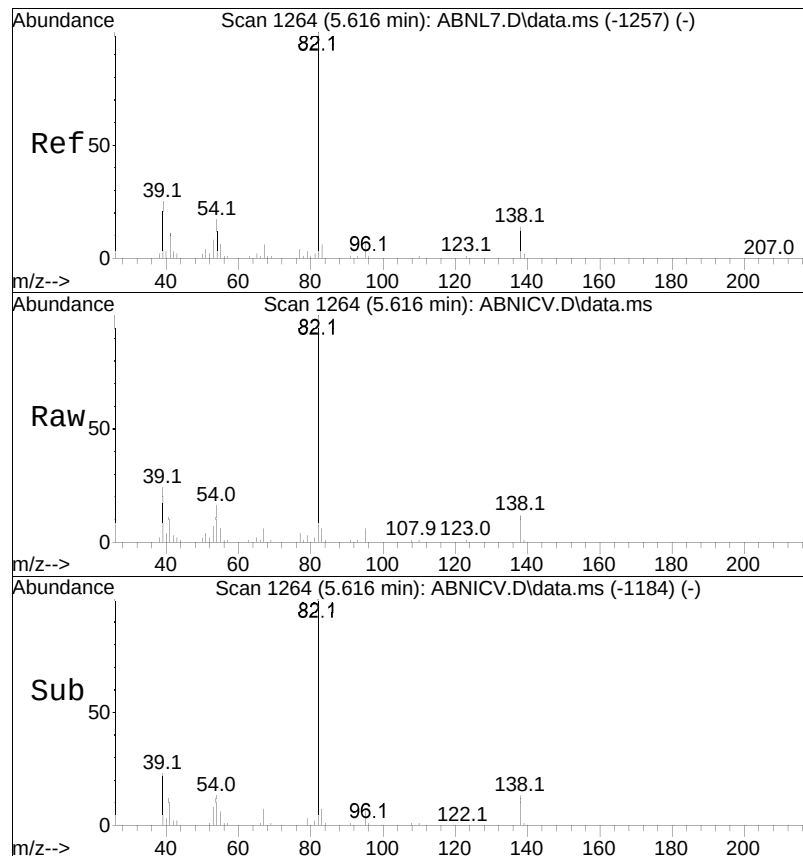
Ion Ratio Lower Upper

77 100

123 39.3 36.3 54.5

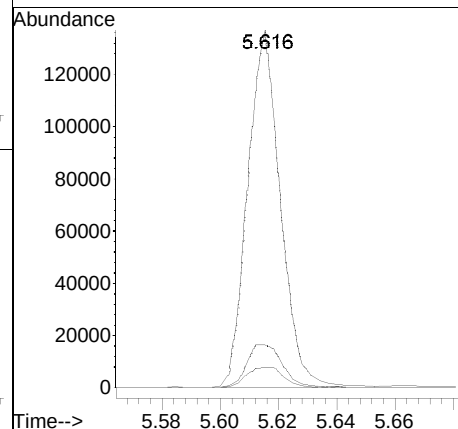
65 14.3 11.6 17.4

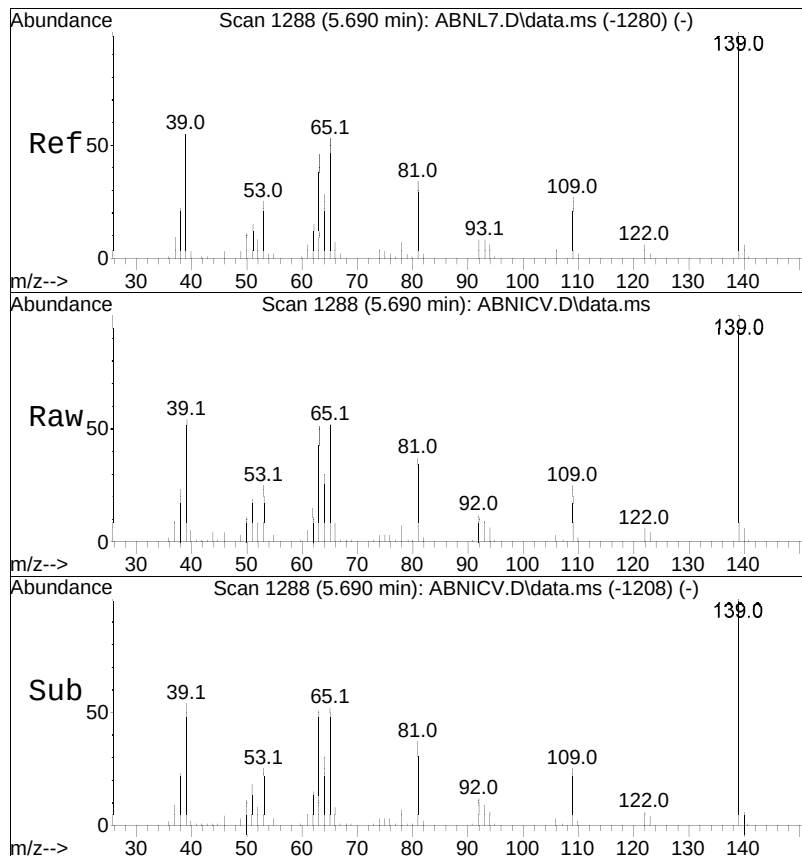




#21
 Isophorone
 Concen: 4.83 ug/ml
 RT: 5.616 min Scan# 1264
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

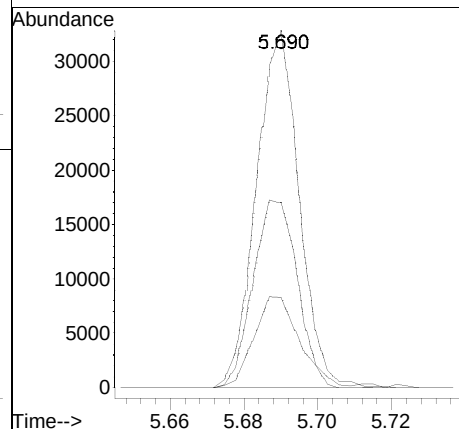
Tgt	Ion: 82	Resp:	105759
Ion	Ratio	Lower	Upper
82	100		
138	13.1	14.7	22.1#
95	6.4	5.2	7.8

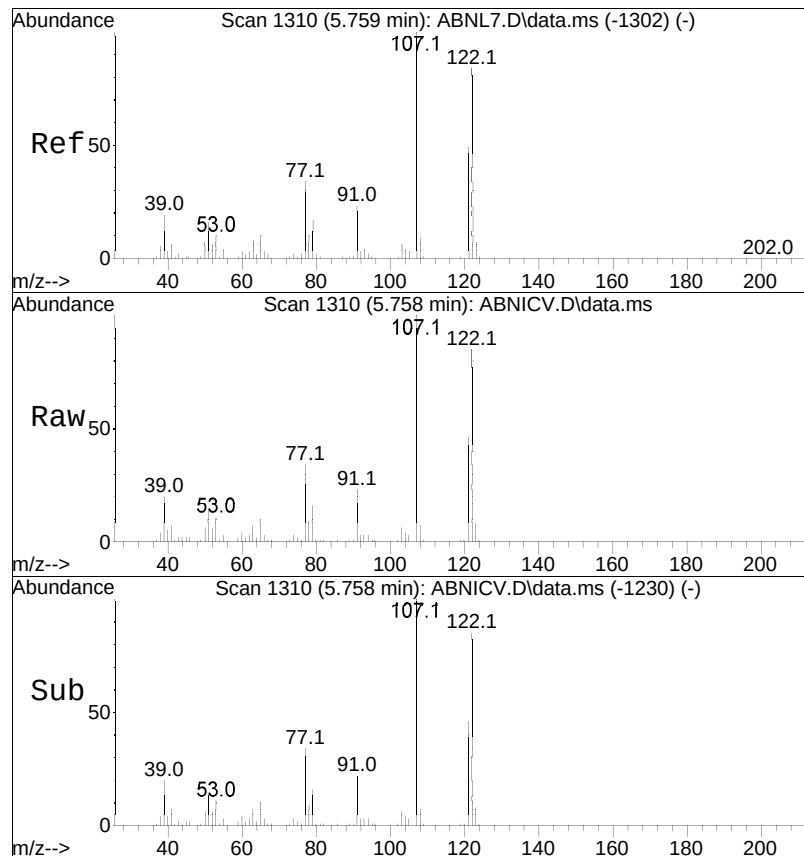




#22
 2-Nitrophenol
 Concen: 4.99 ug/ml
 RT: 5.690 min Scan# 1288
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

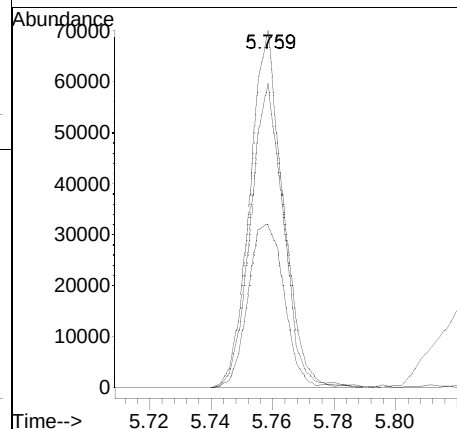
Tgt Ion:	139	Resp:	26230
Ion Ratio	Lower	Upper	
139	100		
109	26.7	19.4	29.0
65	55.3	46.1	69.1

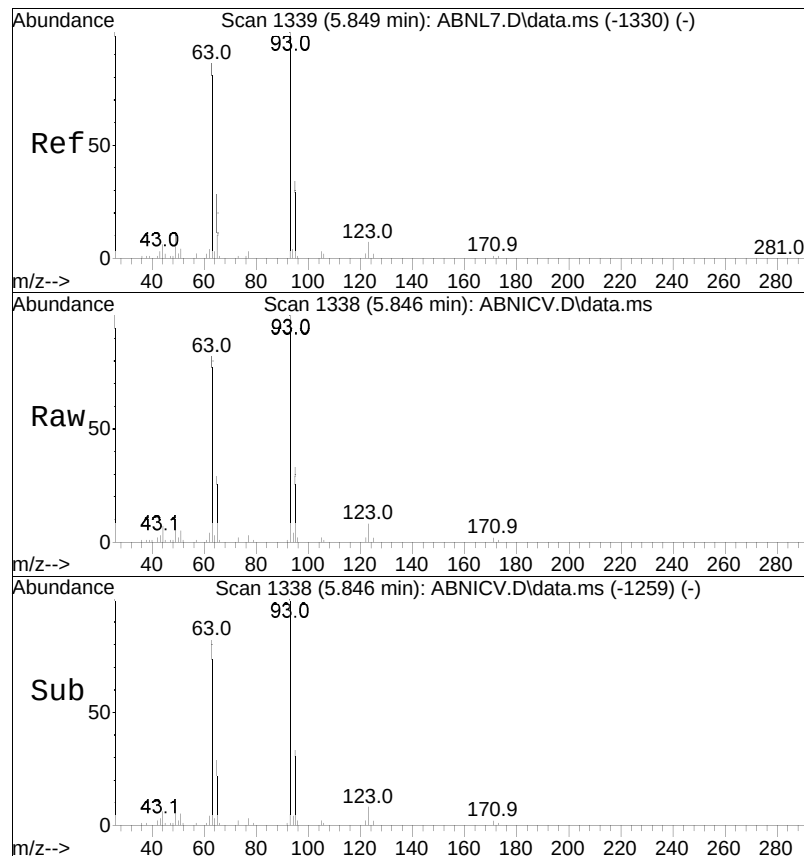




#23
 2,4-Dimethylphenol
 Concen: 4.99 ug/ml
 RT: 5.758 min Scan# 1310
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

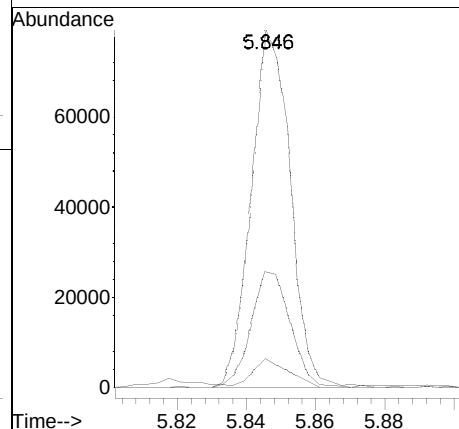
Tgt	Ion:107	Resp:	52292
Ion	Ratio	Lower	Upper
107	100		
121	50.4	40.0	60.0
122	84.8	70.2	105.4

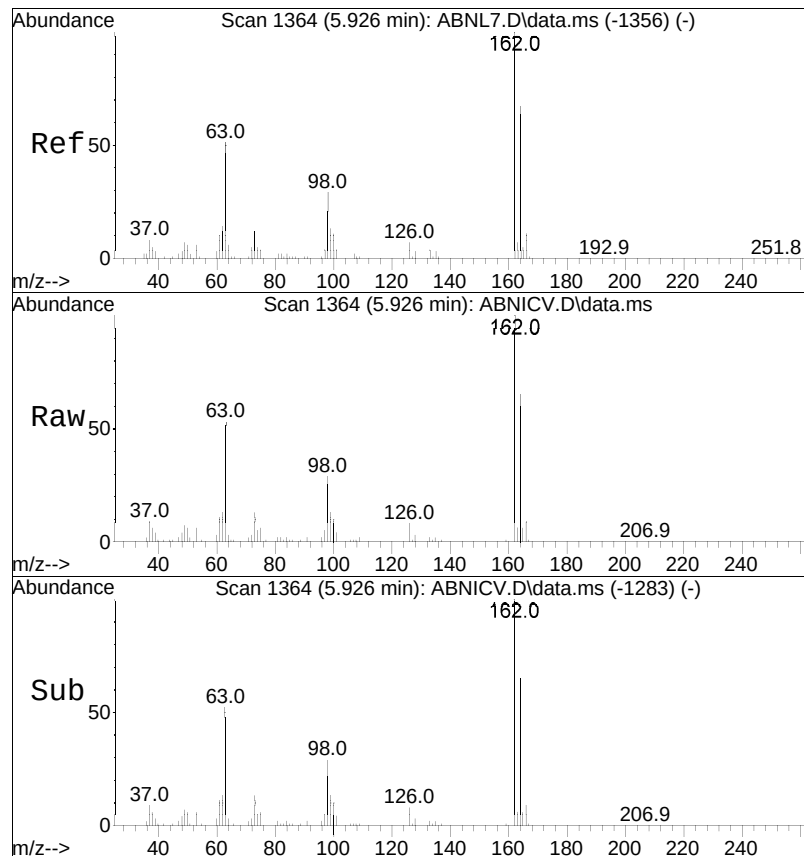




#24
 Bis(2-chloroethoxy)methane
 Concen: 4.77 ug/ml
 RT: 5.846 min Scan# 1338
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

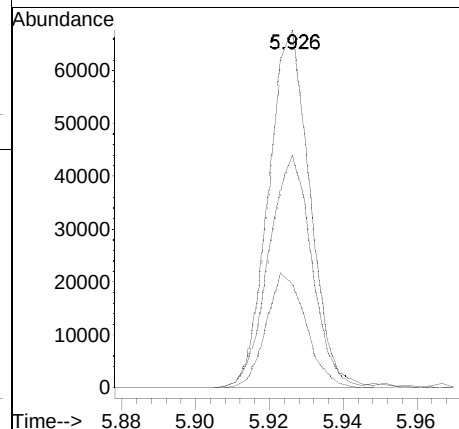
Tgt Ion:	93	Resp:	61519
Ion Ratio	Lower	Upper	
93	100		
95	32.8	25.8	38.8
123	7.4	10.1	15.1#

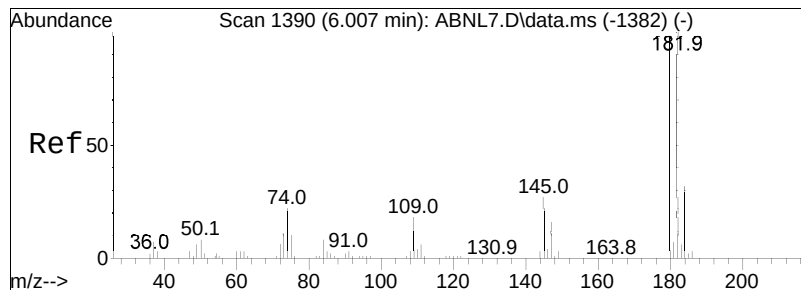




#25
 2,4-Dichlorophenol
 Concen: 4.82 ug/ml
 RT: 5.926 min Scan# 1364
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

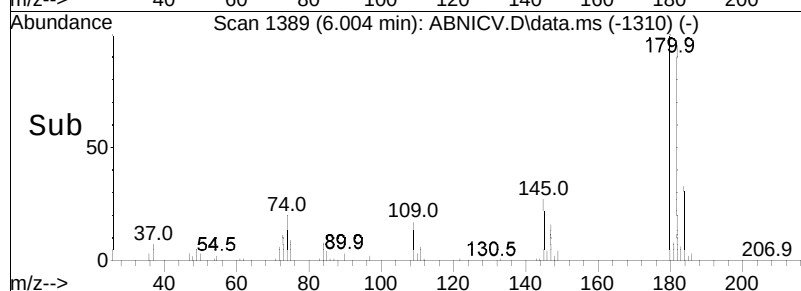
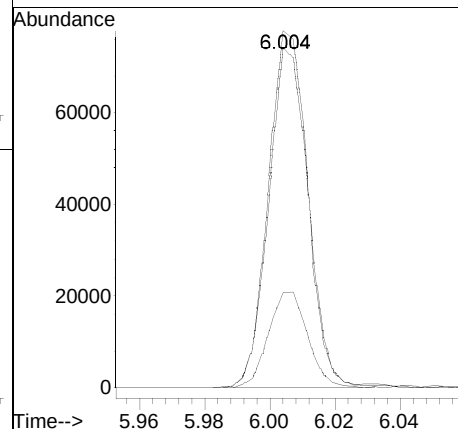
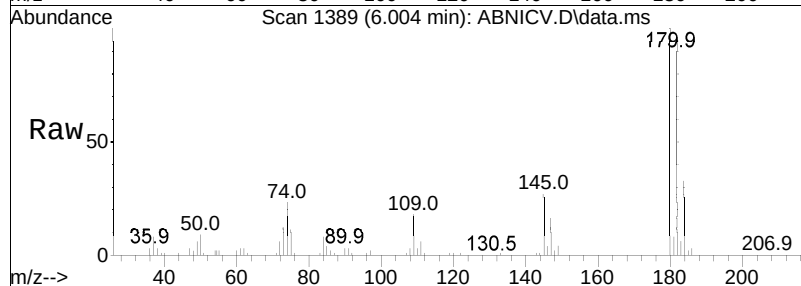
Tgt Ion	Ratio	Resp	Lower	Upper
162	100	52452		
164	68.4		51.0	76.4
98	31.0		32.2	48.2#

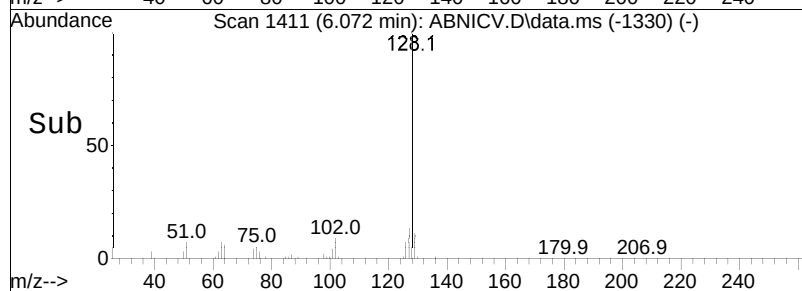
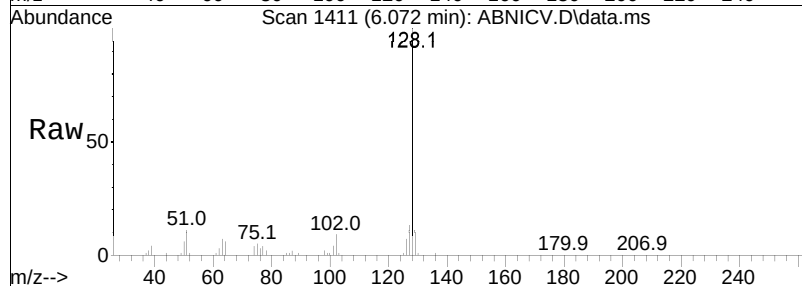
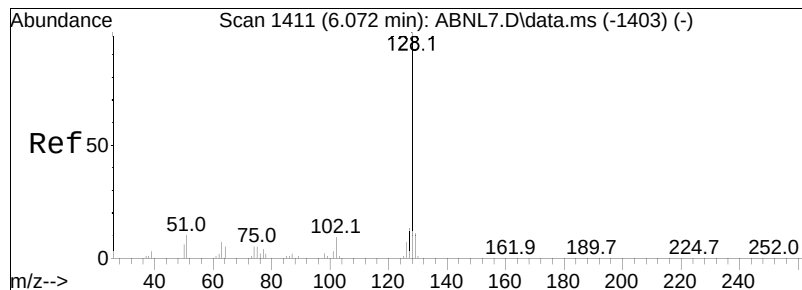




#26
 1,2,4-Trichlorobenzene
 Concen: 4.80 ug/ml
 RT: 6.004 min Scan# 1389
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

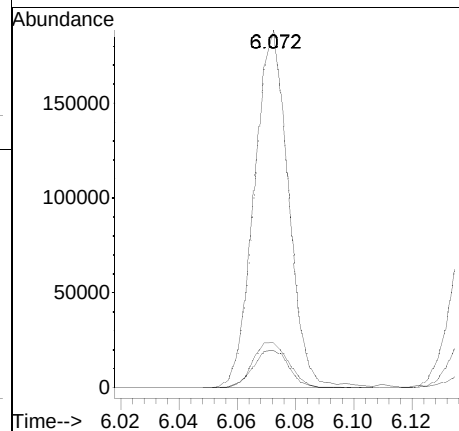
Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.0	114.0
145	26.8	25.7	38.5

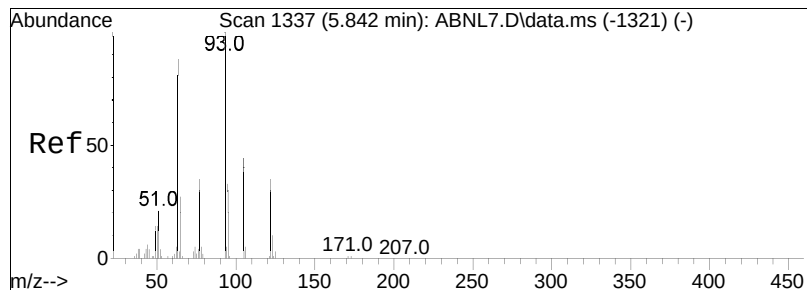




#38
Naphthalene
Concen: 4.64 ug/ml
RT: 6.072 min Scan# 1411
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 17 Apr 2025 12:13 am

Tgt	Ion	Ratio	Lower	Upper
128	100			
129	11.0	8.7	13.1	
127	13.5	10.3	15.5	





#39

Benzoic Acid

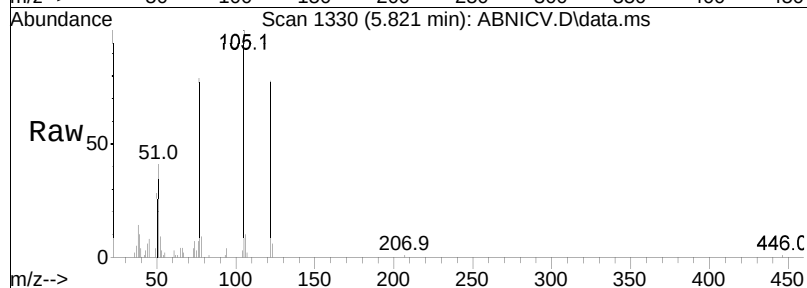
Concen: 4.16 ug/ml

RT: 5.821 min Scan# 1330

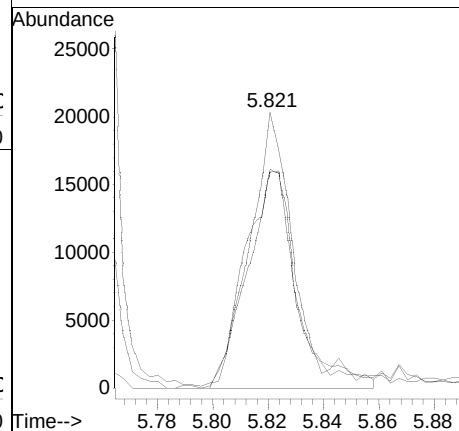
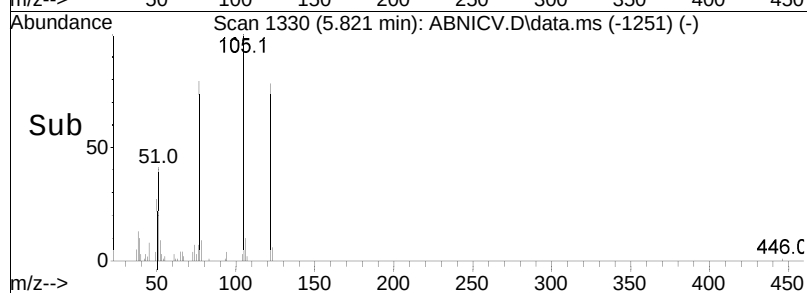
Delta R.T. -0.003 min

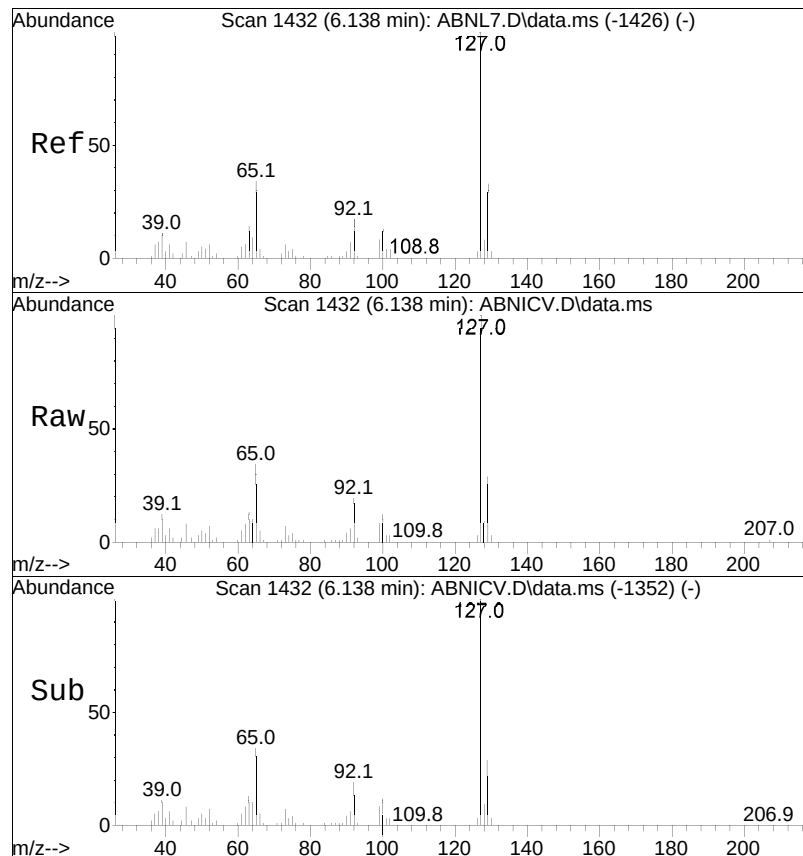
Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am



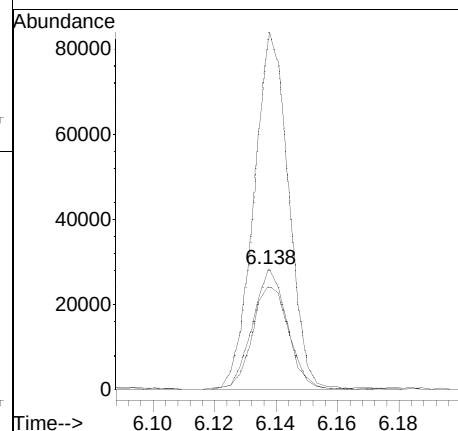
Tgt Ion:	105	Resp:	23239
Ion Ratio	Lower	Upper	
105	100		
122	81.0	59.9	89.9
77	83.1	60.1	90.1

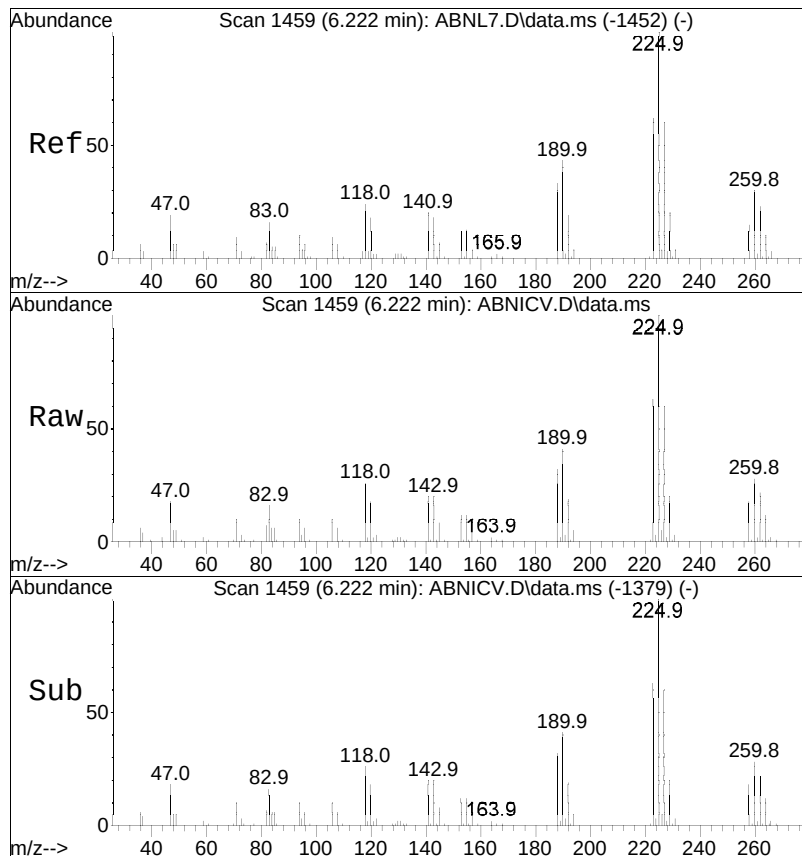




#40
 4-Chloroaniline
 Concen: 4.90 ug/ml
 RT: 6.138 min Scan# 1432
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

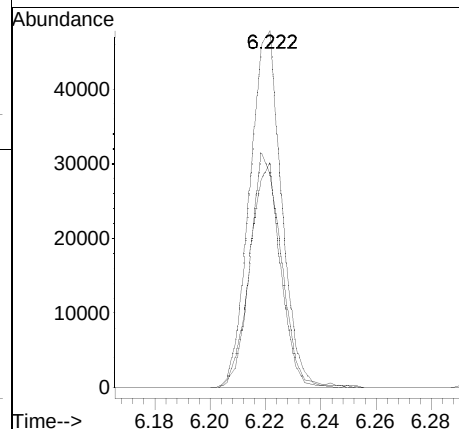
Tgt Ion:	65	Resp:	22098
Ion Ratio	Lower	Upper	
65	100		
127	295.2	237.6	356.4
129	91.2	76.3	114.5

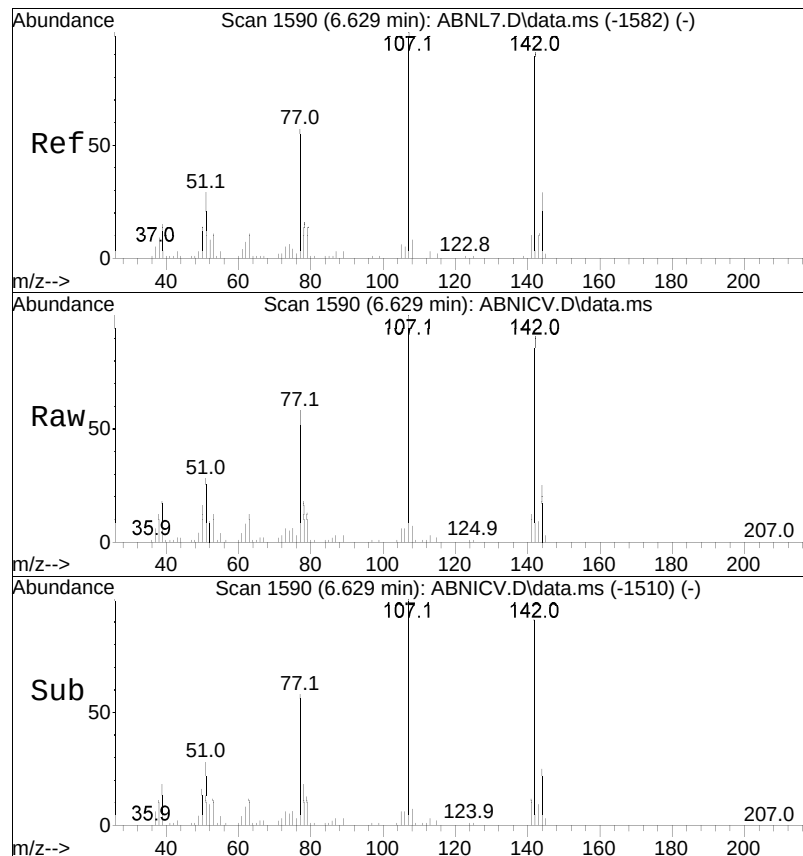




#41
 Hexachlorobutadiene
 Concen: 4.71 ug/ml
 RT: 6.222 min Scan# 1459
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

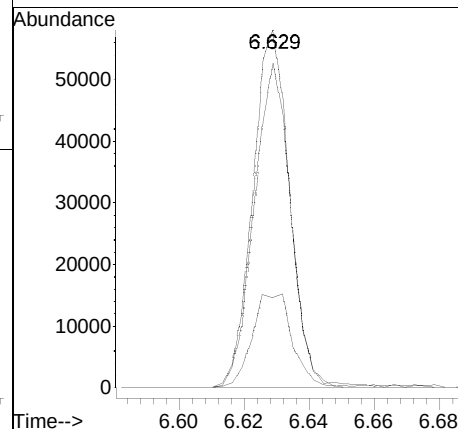
Tgt Ion:	225	Resp:	38343
Ion Ratio	Lower	Upper	
225	100		
223	60.1	50.3	75.5
227	65.3	52.2	78.2

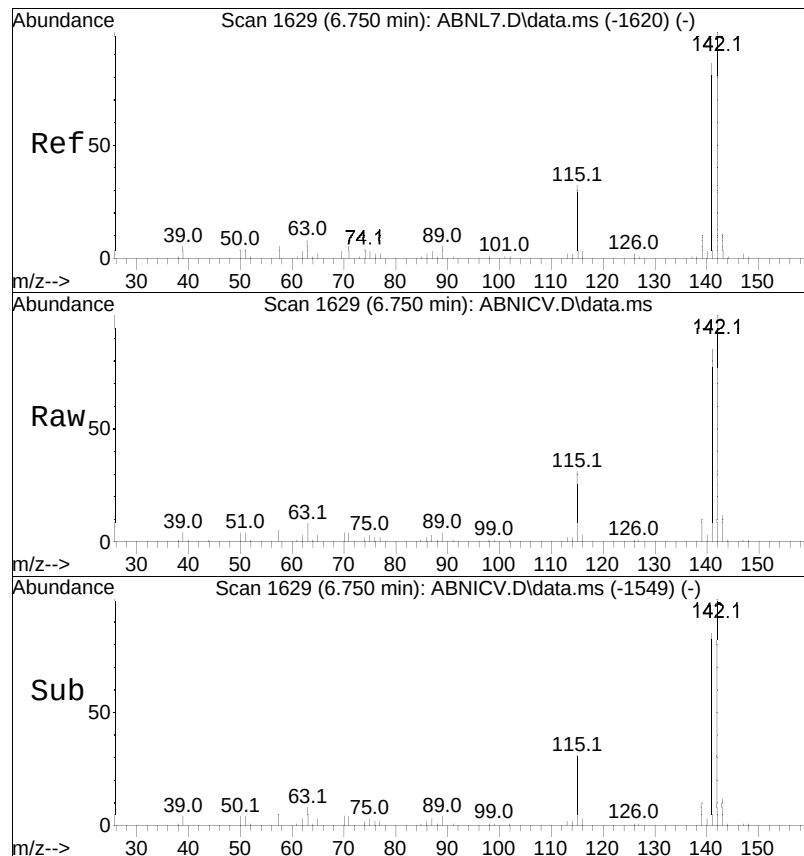




#42
 p-Chloro-m-cresol
 Concen: 4.93 ug/ml
 RT: 6.629 min Scan# 1590
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

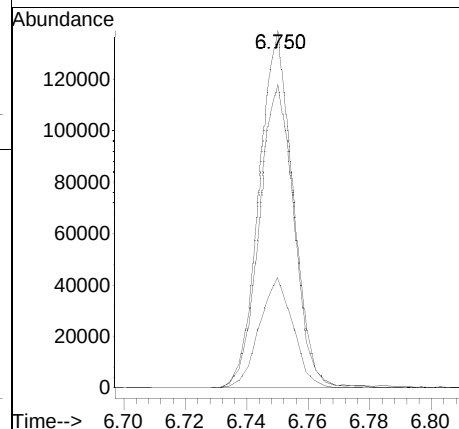
Tgt	Ion:107	Resp:	45155
Ion	Ratio	Lower	Upper
107	100		
144	28.6	20.9	31.3
142	90.1	66.1	99.1

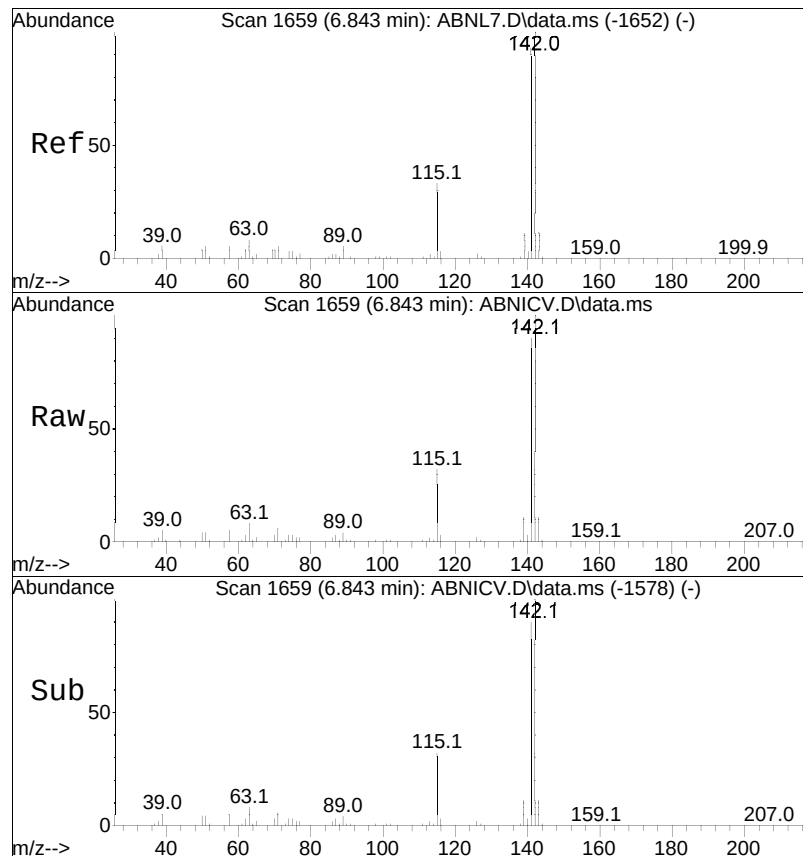




#43
 2-Methylnaphthalene
 Concen: 4.97 ug/ml
 RT: 6.750 min Scan# 1629
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

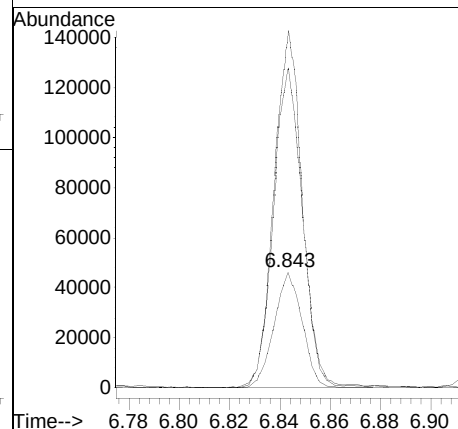
Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.1	69.6	104.4
115	30.8	26.6	40.0

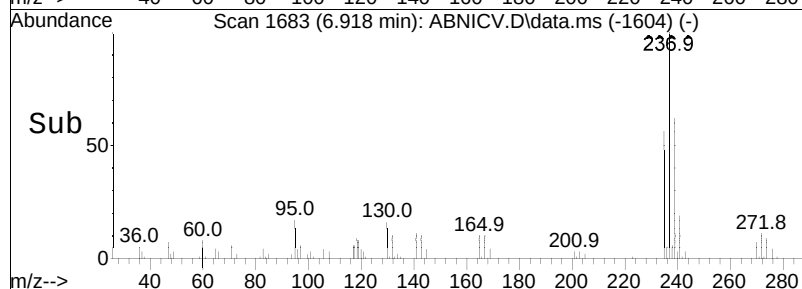
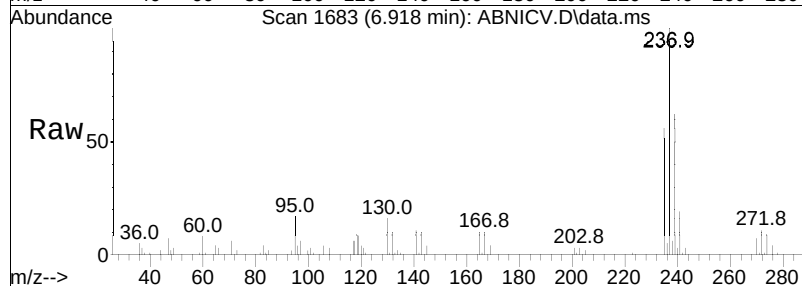
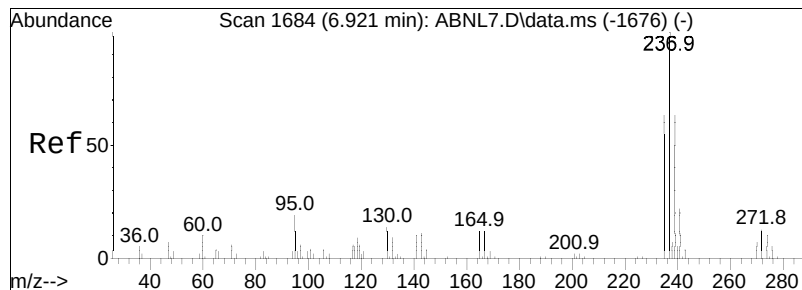




#44
 1-Methylnaphthalene
 Concen: 5.01 ug/ml
 RT: 6.843 min Scan# 1659
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

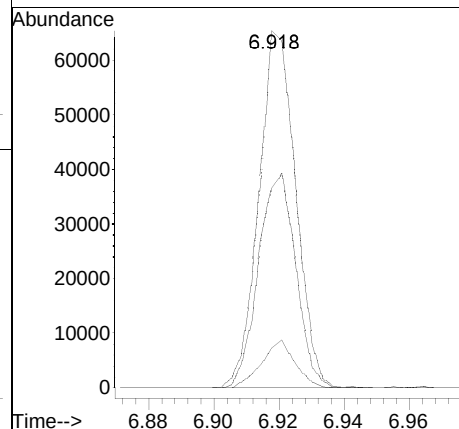
Tgt Ion	Ratio	Lower	Upper
115	100		
141	277.2	207.8	311.6
142	308.3	226.8	340.2

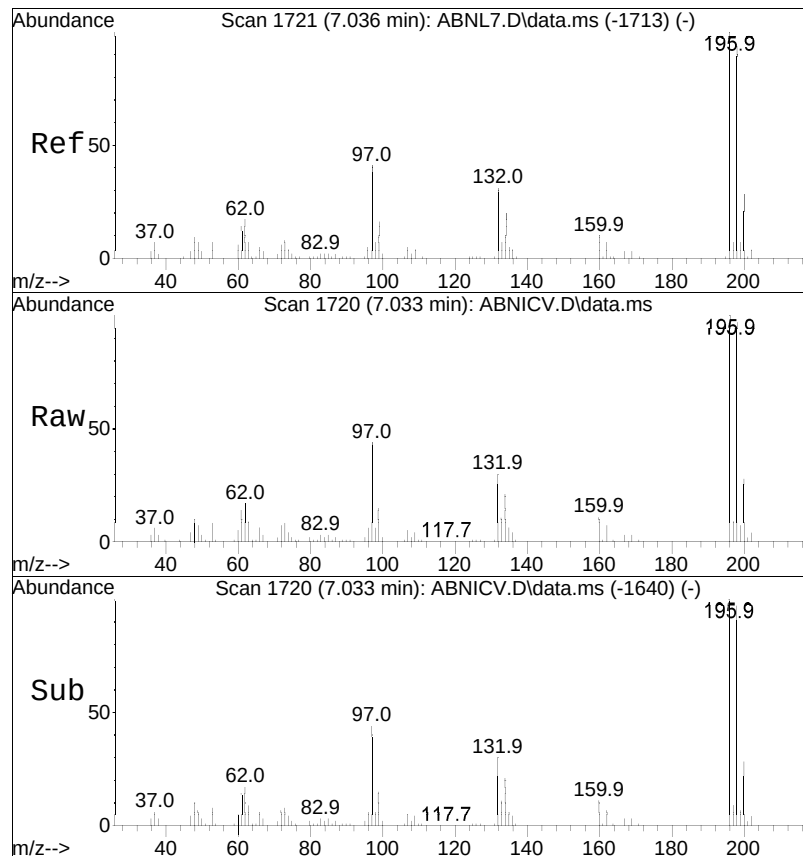




#45
 Hexachlorocyclopentadiene
 Concen: 4.67 ug/ml
 RT: 6.918 min Scan# 1683
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

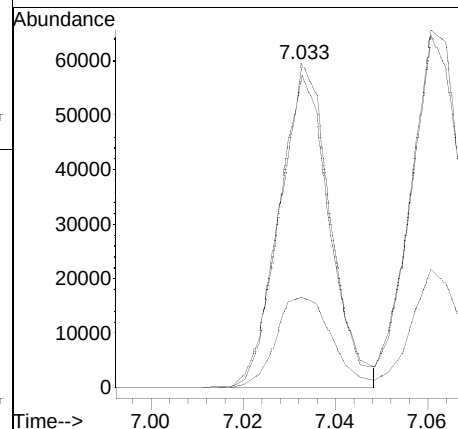
Tgt Ion	Ratio	Resp	Lower	Upper
237	100	51289		
235	61.1		49.7	74.5
272	12.3		9.8	14.6

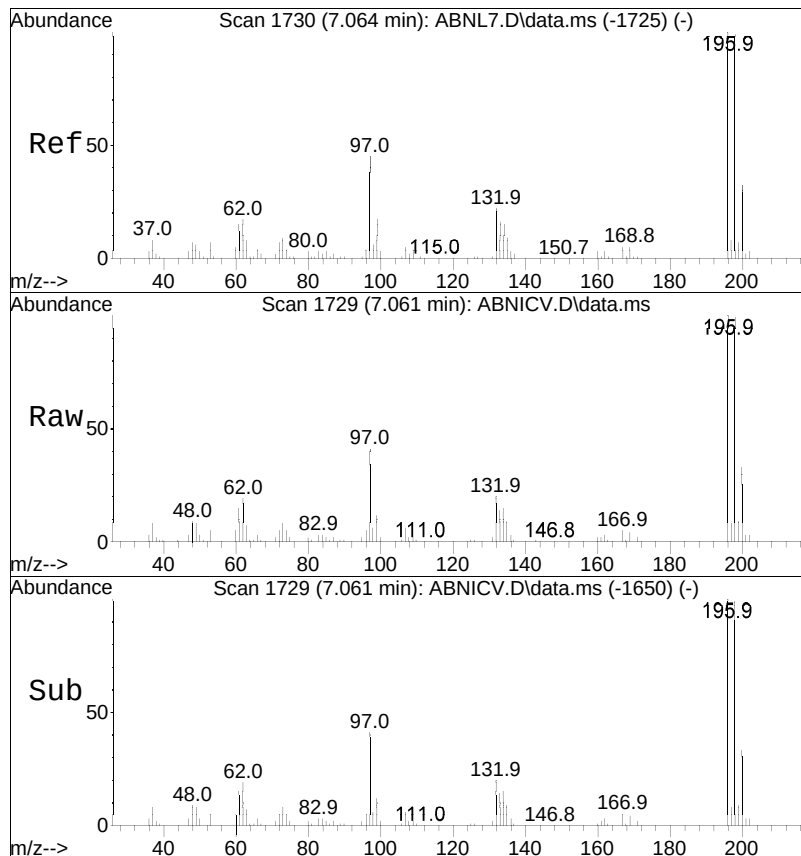




#46
 2,4,6-Trichlorophenol
 Concen: 4.76 ug/ml
 RT: 7.033 min Scan# 1720
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

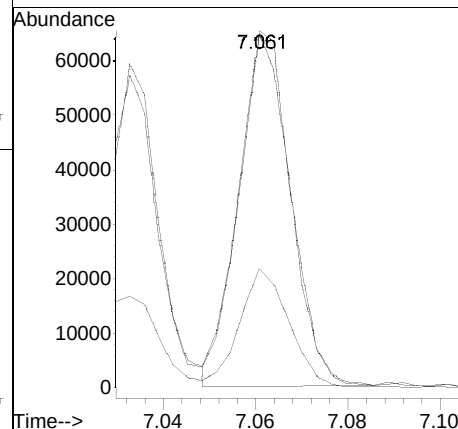
Tgt Ion	Ratio	Lower	Upper
196	100		
198	97.5	77.5	116.3
200	31.2	23.8	35.6

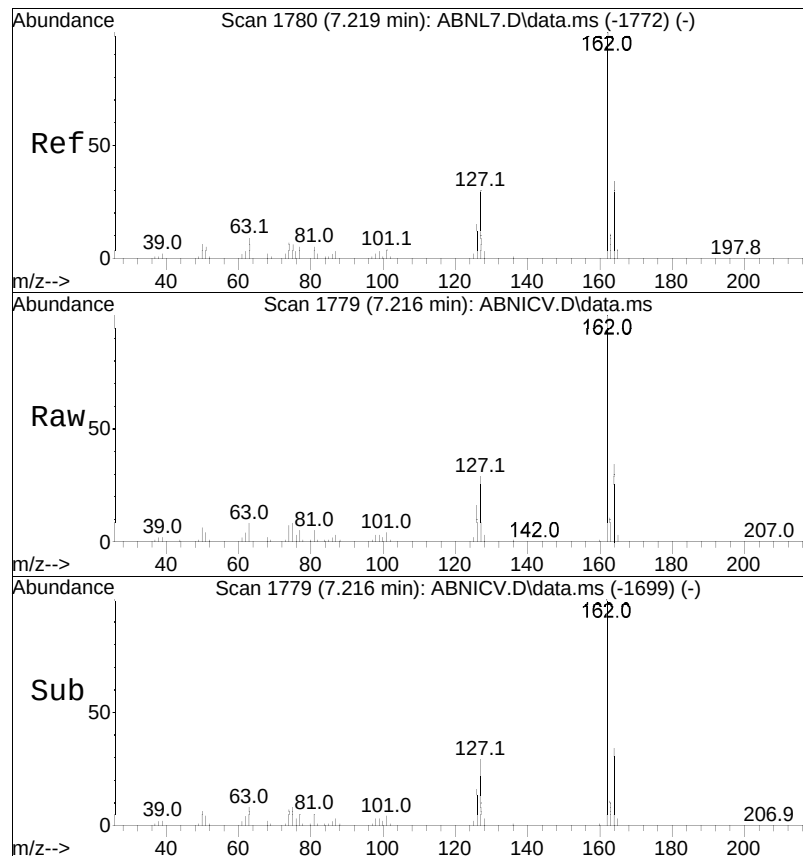




#47
 2,4,5-Trichlorophenol
 Concen: 4.87 ug/ml
 RT: 7.061 min Scan# 1729
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

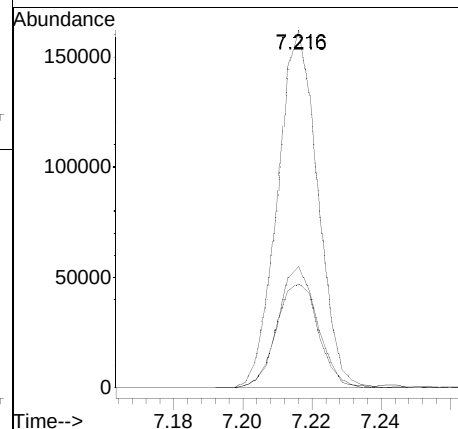
Tgt Ion:	196	Resp:	51407
Ion Ratio	Lower	Upper	
196	100		
200	31.1	25.4	38.0
198	96.4	78.0	117.0

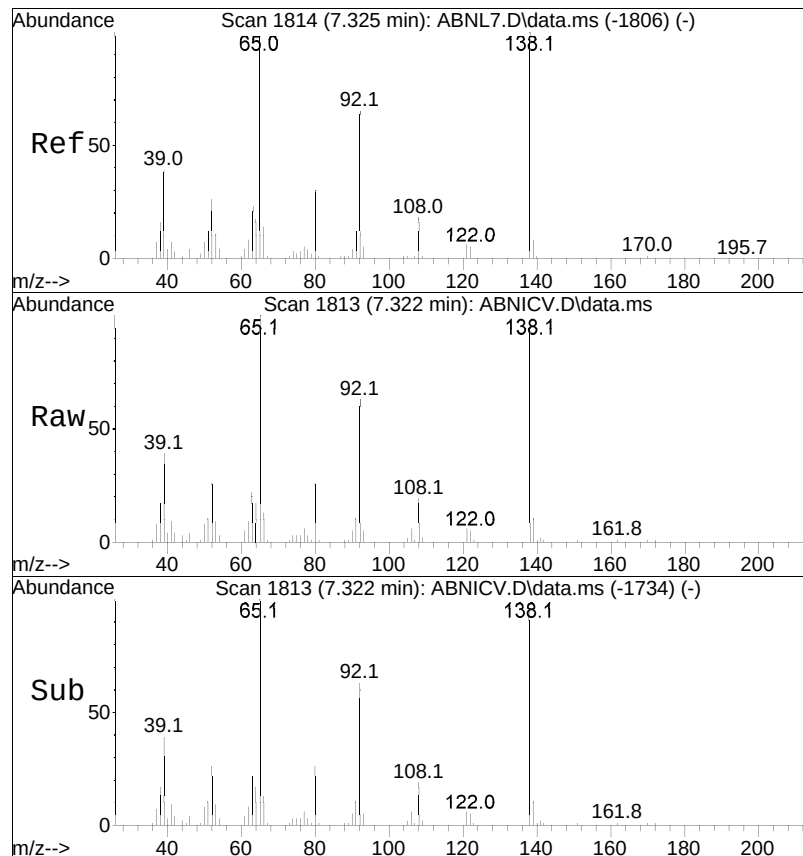




#49
 2-Chloronaphthalene
 Concen: 4.80 ug/ml
 RT: 7.216 min Scan# 1779
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

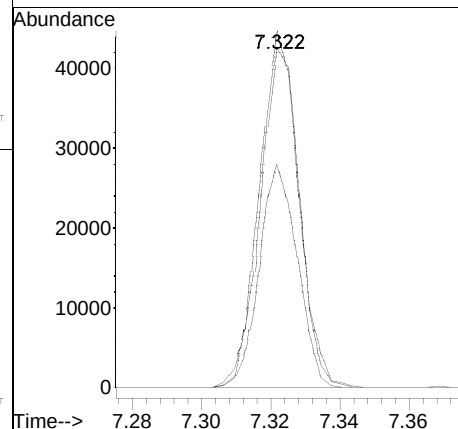
Tgt	Ion:162	Resp:	129562
Ion	Ratio	Lower	Upper
162	100		
127	30.8	32.2	48.4#
164	33.4	25.7	38.5

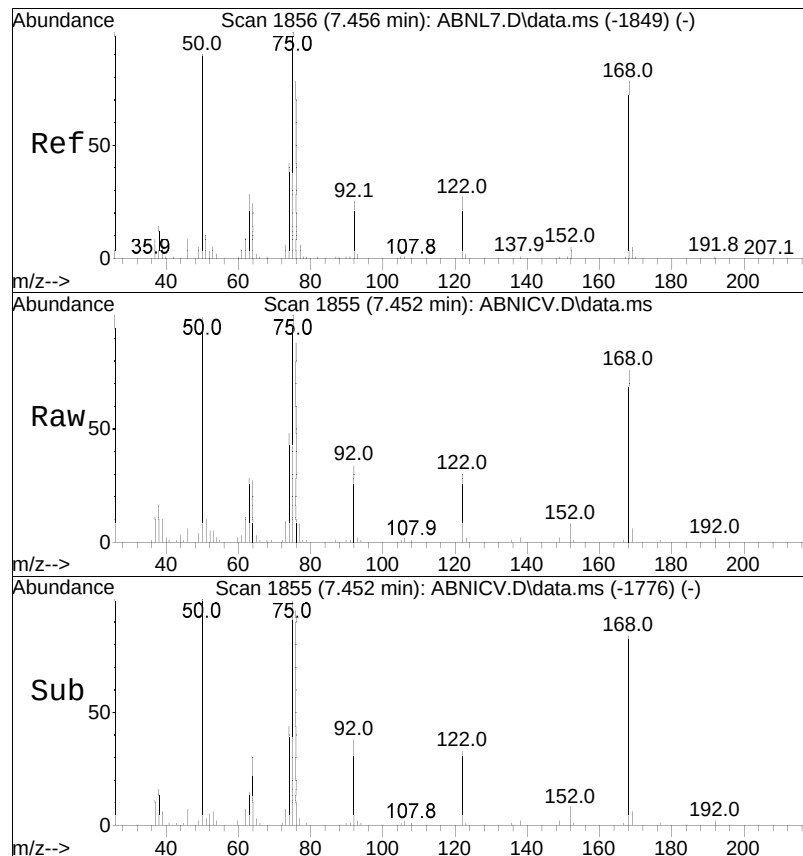




#50
 2-Nitroaniline
 Concen: 4.82 ug/ml
 RT: 7.322 min Scan# 1813
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

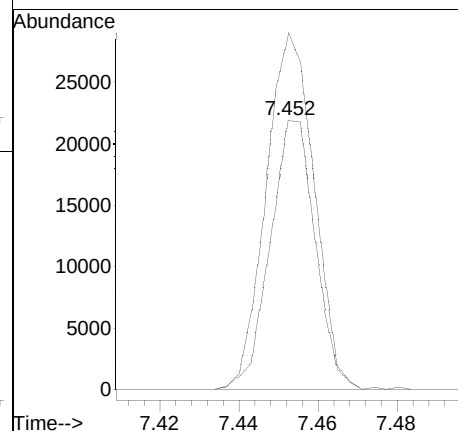
Tgt	Ion	Ratio	Lower	Upper
138	100			
92	64.0	53.5	80.3	
65	105.2	86.3	129.5	

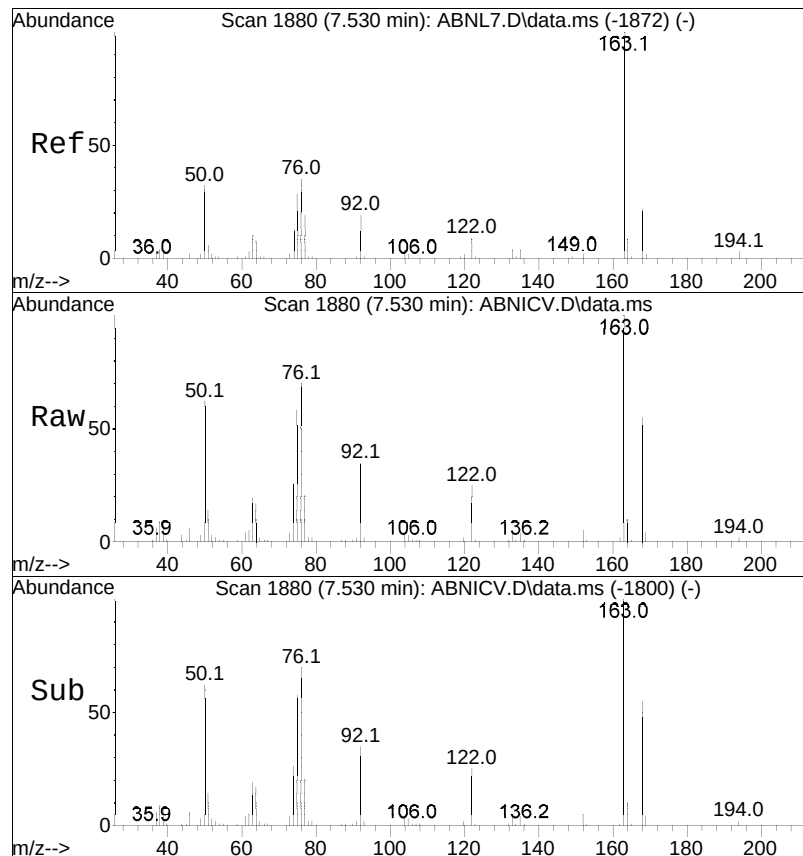




#51
 1,4-Dinitrobenzene
 Concen: 4.89 ug/ml
 RT: 7.452 min Scan# 1855
 Delta R.T. -0.004 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

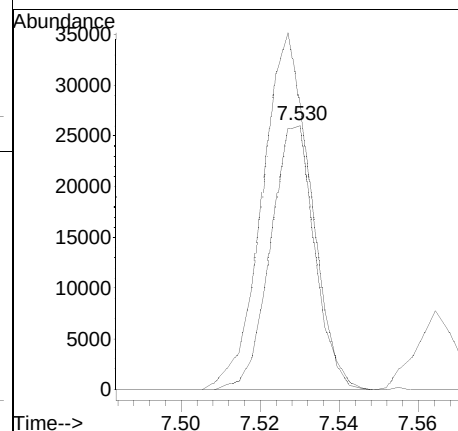
Tgt	Ion	Ratio	Lower	Upper
168	100			
75	141.0	121.8	182.8	

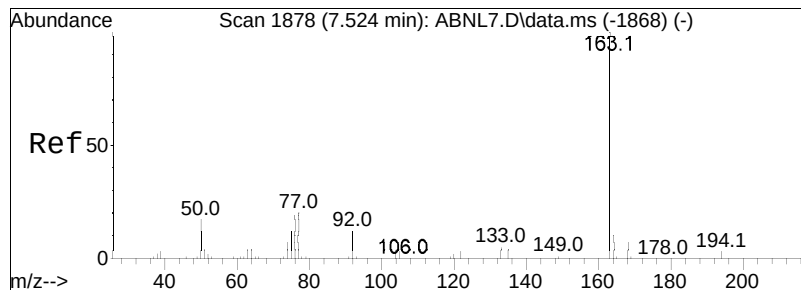




#52
 1,3-Dinitrobenzene
 Concen: 4.67 ug/ml
 RT: 7.530 min Scan# 1880
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt Ion:168 Resp: 20279
 Ion Ratio Lower Upper
 168 100
 75 145.9 22.7 34.1#





#53

Dimethyl phthalate

Concen: 4.81 ug/ml

RT: 7.521 min Scan# 1877

Delta R.T. -0.003 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

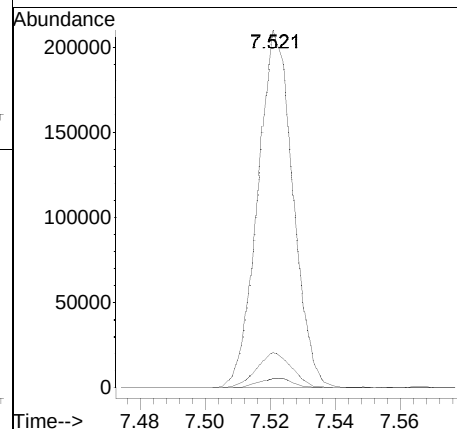
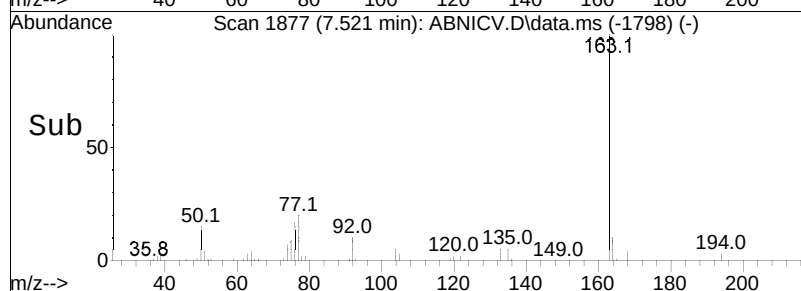
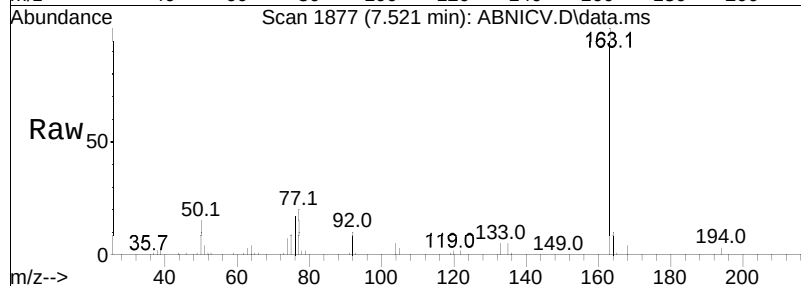
Tgt Ion:163 Resp: 156648

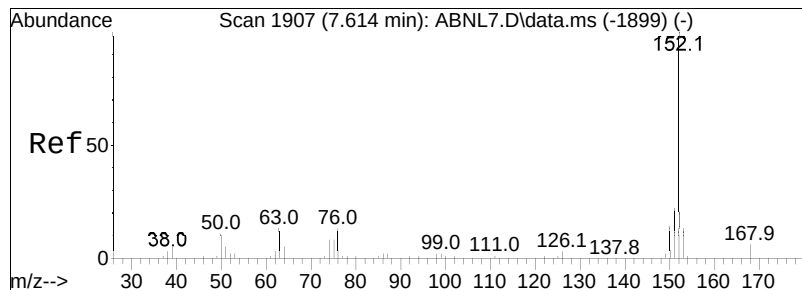
Ion Ratio Lower Upper

163 100

194 2.7 3.5 5.3#

164 10.1 7.9 11.9





#54

Acenaphthylene

Concen: 4.87 ug/ml

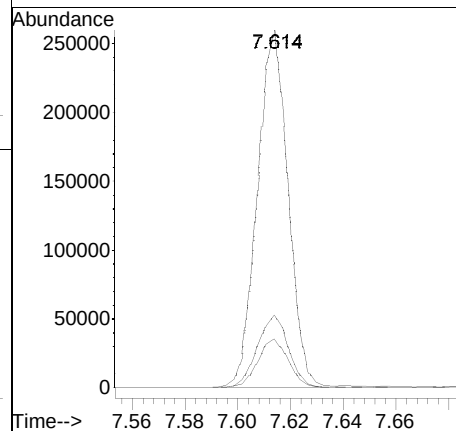
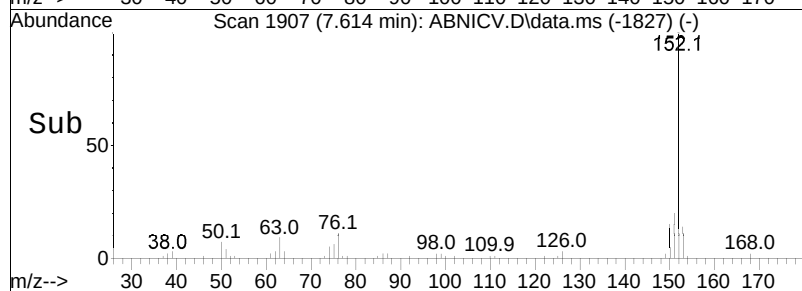
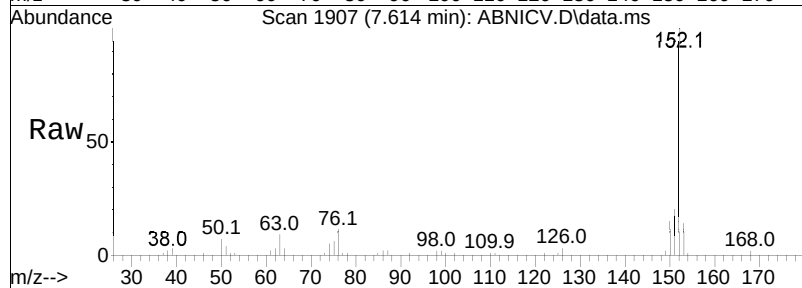
RT: 7.614 min Scan# 1907

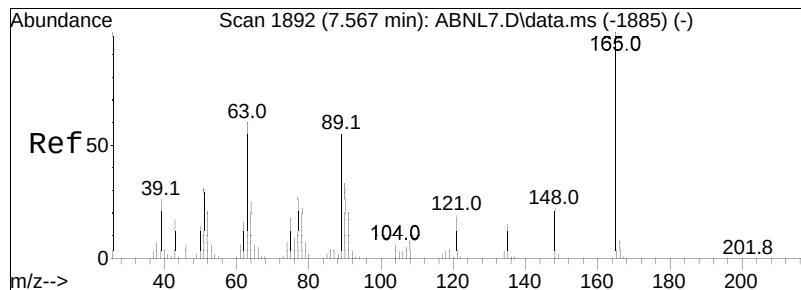
Delta R.T. 0.000 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

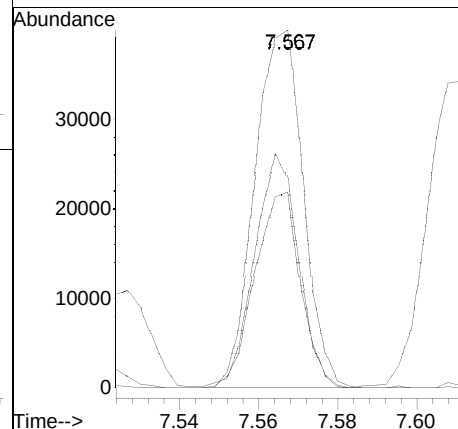
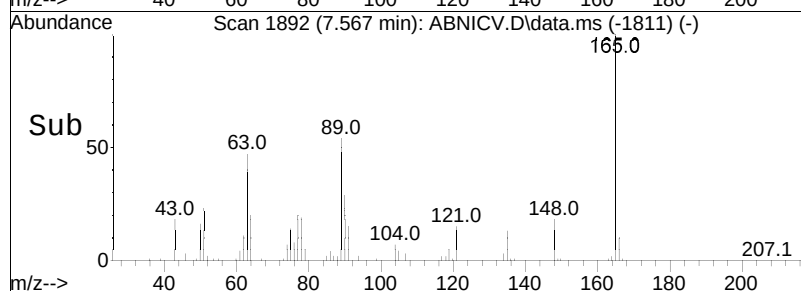
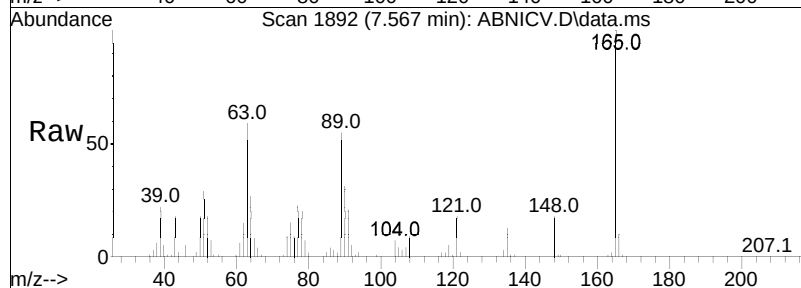
Tgt Ion:	152	Resp:	208328
Ion Ratio	Lower	Upper	
152	100		
151	20.6	15.8	23.6
153	13.7	10.5	15.7

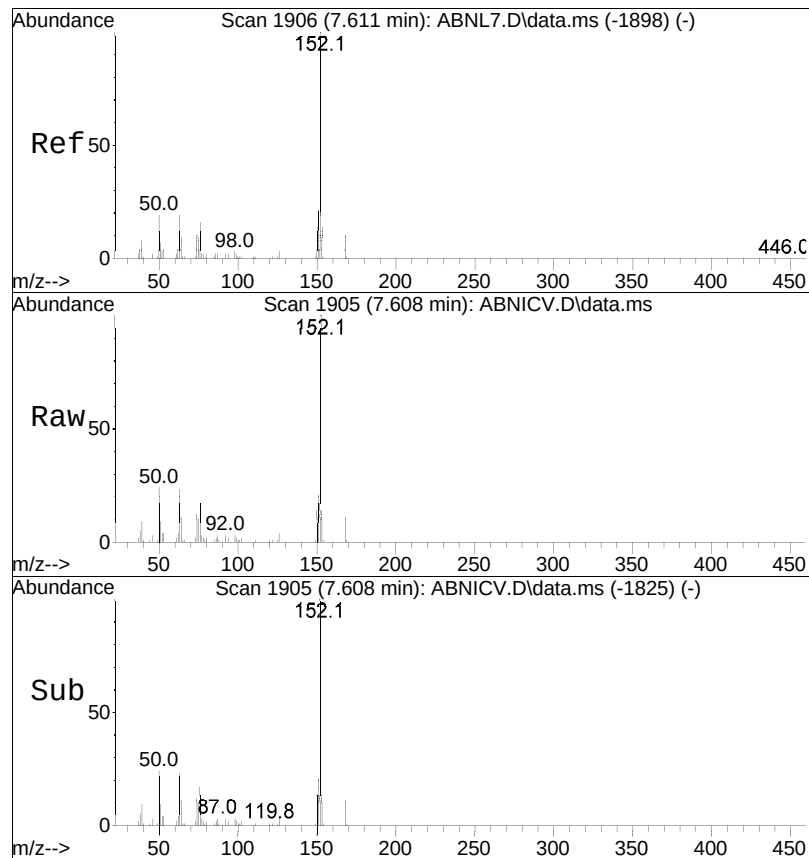




#55
 2,6-Dinitrotoluene
 Concen: 5.22 ug/ml
 RT: 7.567 min Scan# 1892
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

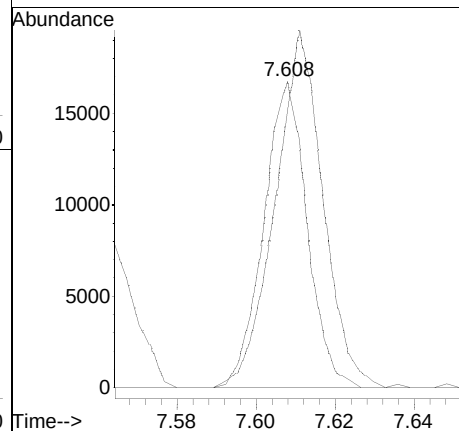
Tgt Ion	Ratio	Lower	Upper
165	100		
89	51.4	54.2	81.2#
63	59.2	64.2	96.2#

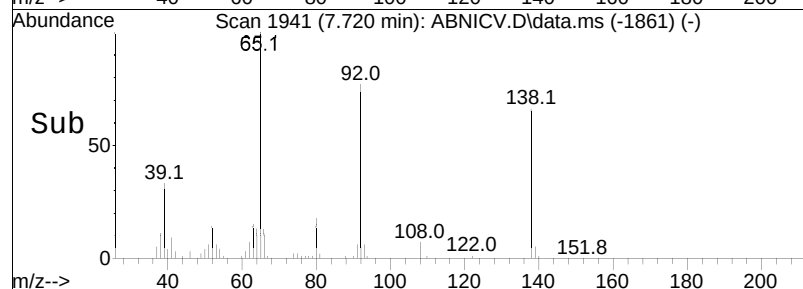
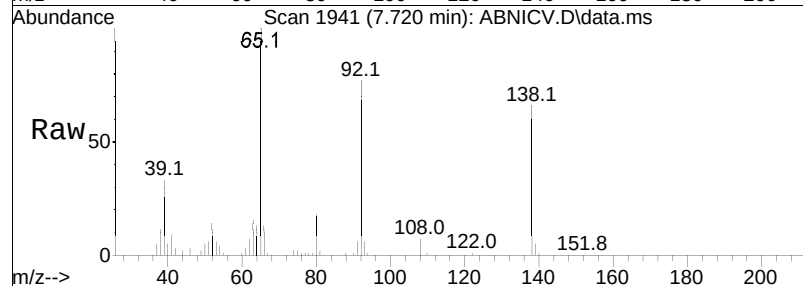
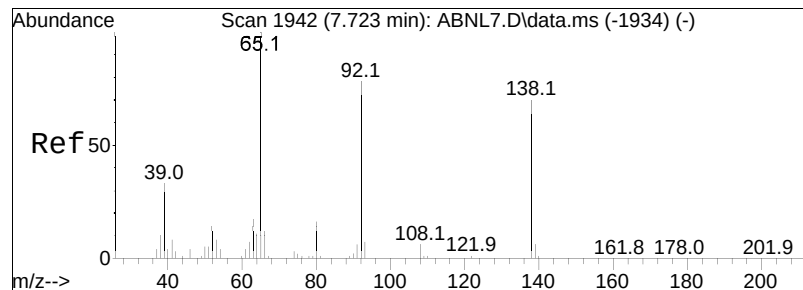




#56
 1,2-Dinitrobenzene
 Concen: 4.70 ug/ml
 RT: 7.608 min Scan# 1905
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

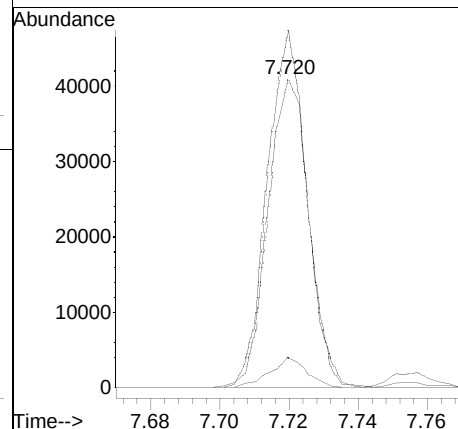
Tgt	Ion	Ratio	Lower	Upper
168	100			
75	128.3	30.9	46.3	

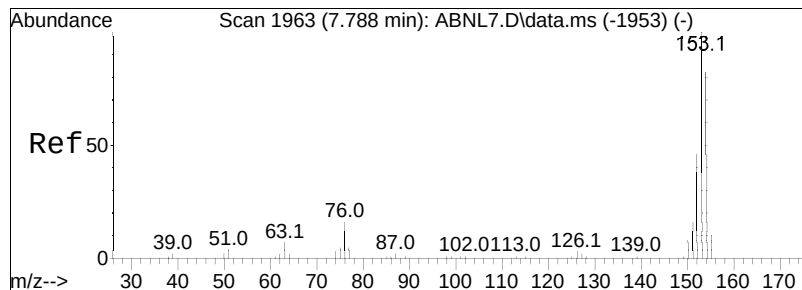




#66
 3-Nitroaniline
 Concen: 5.27 ug/ml
 RT: 7.720 min Scan# 1941
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt	Ion	Ratio	Resp	Lower	Upper
138	100		33346		
92	111.5	93.4	140.2		
108	8.8	9.5	14.3#		





#67

Acenaphthene

Concen: 4.82 ug/ml

RT: 7.785 min Scan# 1962

Delta R.T. -0.000 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

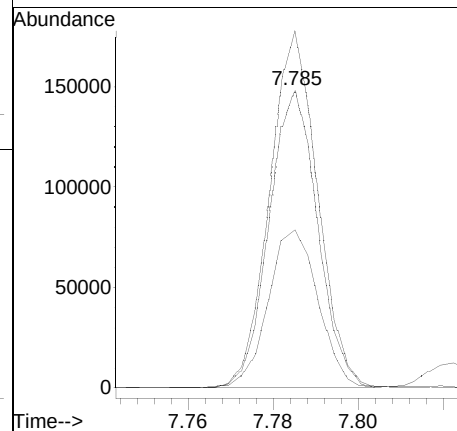
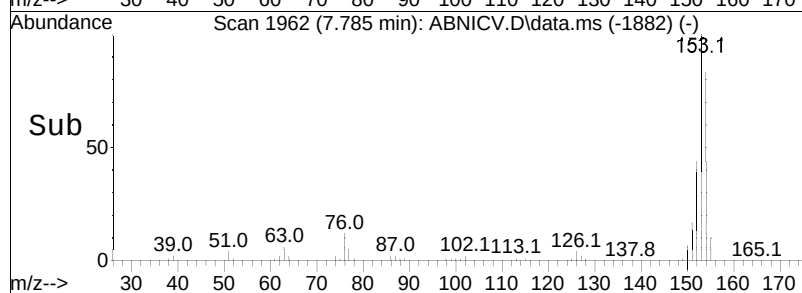
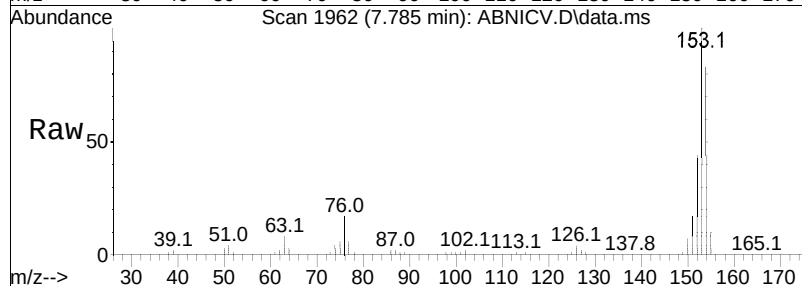
Tgt Ion:154 Resp: 117212

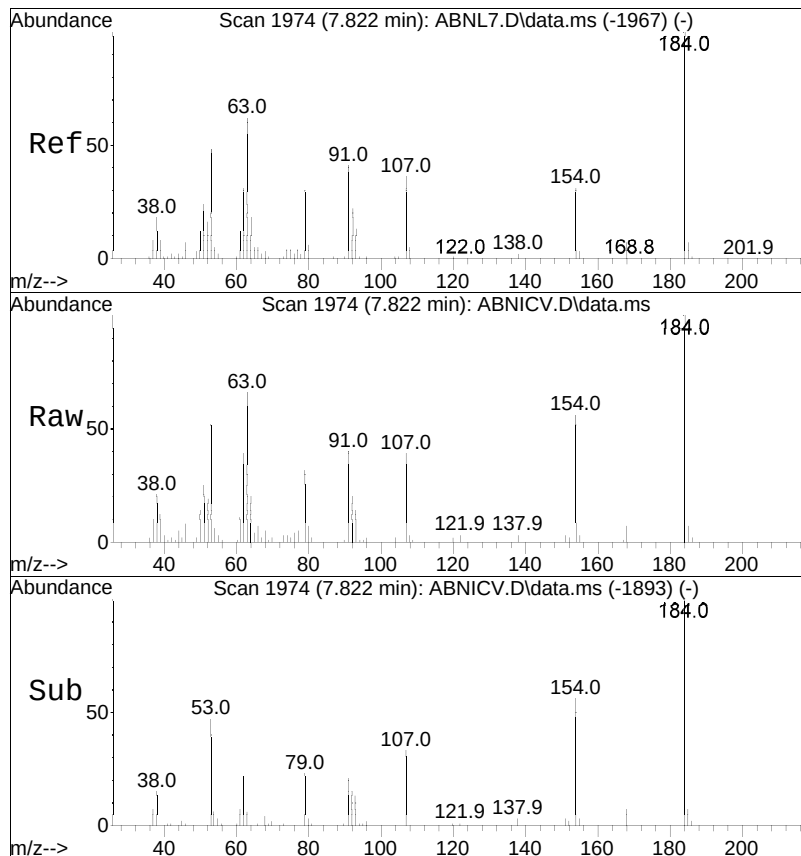
Ion Ratio Lower Upper

154 100

153 118.8 85.3 127.9

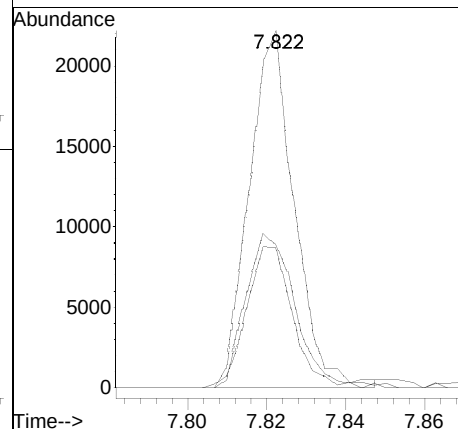
152 54.9 41.4 62.0

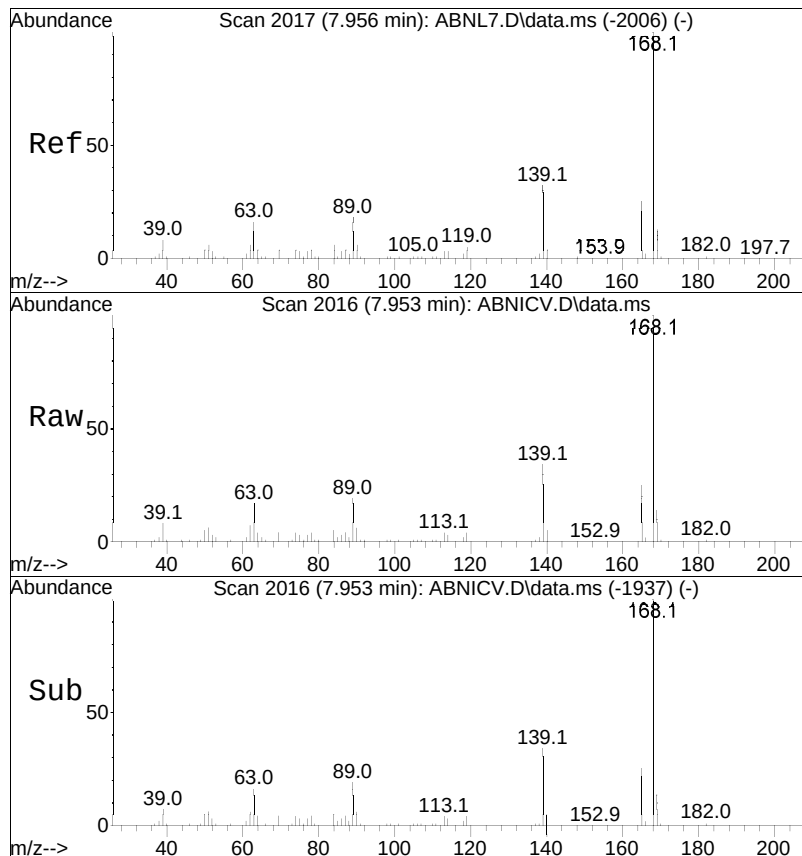




#68
 2,4-Dinitrophenol
 Concen: 4.06 ug/ml
 RT: 7.822 min Scan# 1974
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

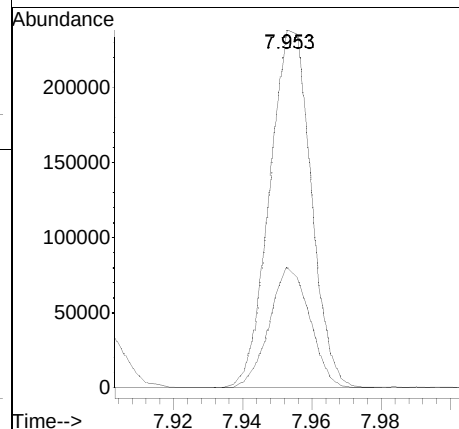
Tgt Ion:	184	Resp:	17513
Ion Ratio	Lower	Upper	
184	100		
107	40.6	37.7	56.5
91	47.5	46.3	69.5

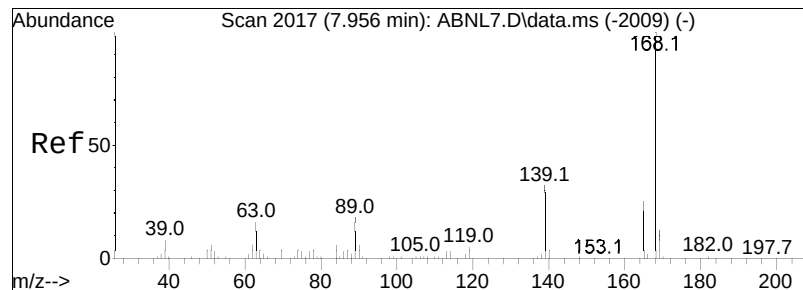




#69
 Dibenzofuran
 Concen: 4.54 ug/ml
 RT: 7.953 min Scan# 2016
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

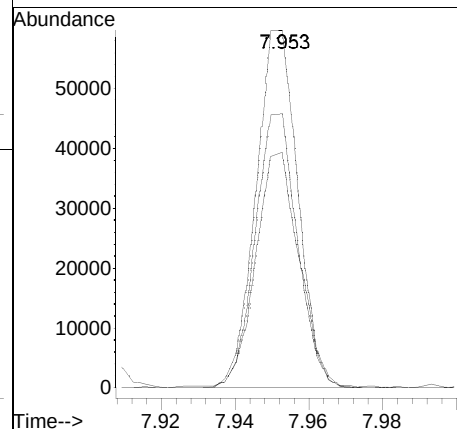
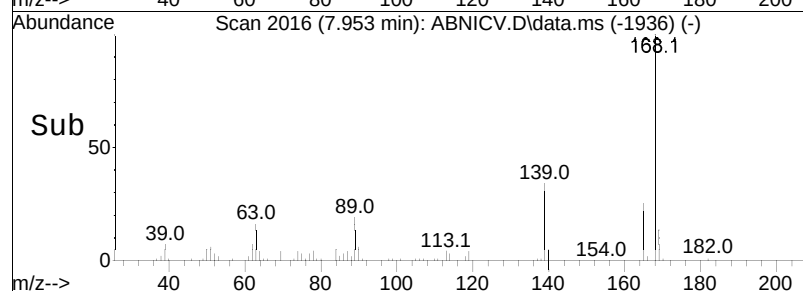
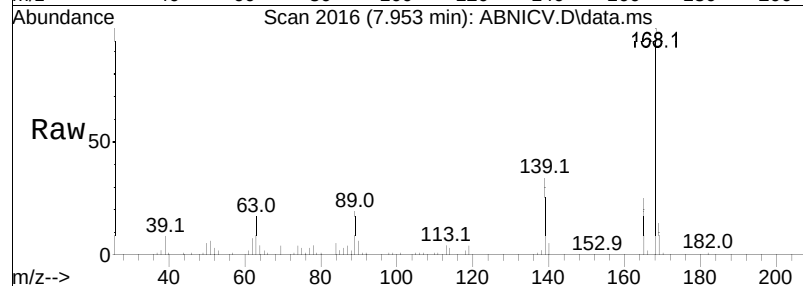
Tgt Ion	Ratio	Lower	Upper
168	100		
139	33.0	31.4	47.2

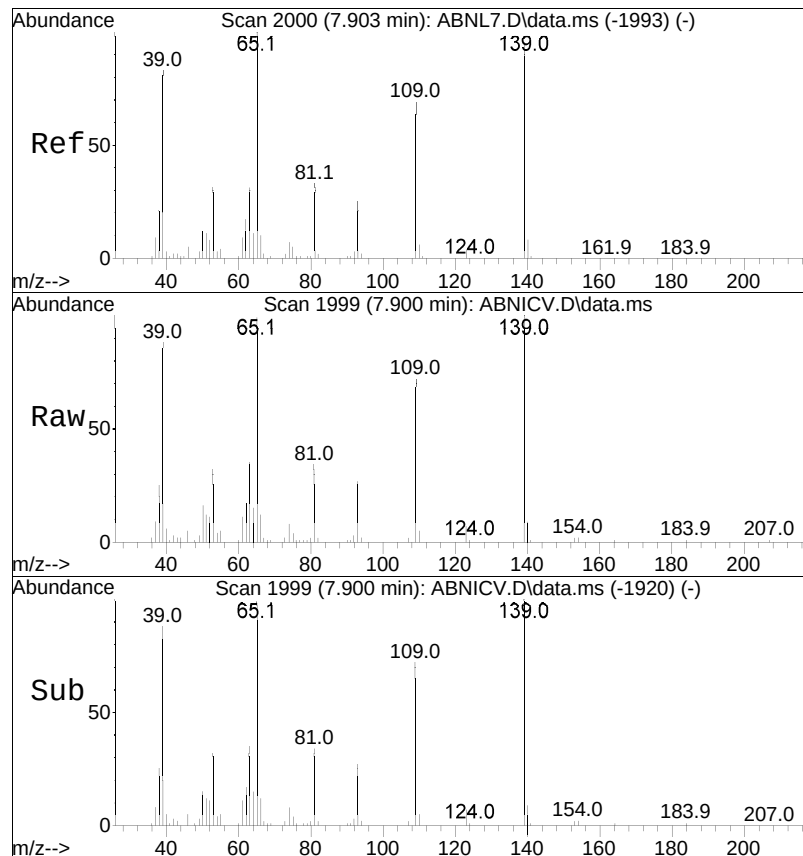




#70
 2,4-Dinitrotoluene
 Concen: 5.05 ug/ml
 RT: 7.953 min Scan# 2016
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

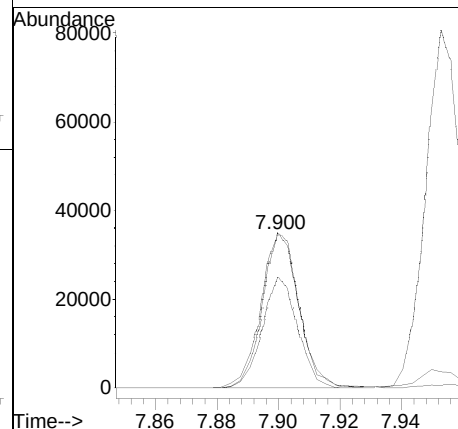
Tgt Ion:	165	Resp:	46984
Ion Ratio	100	Lower	Upper
89	76.7	72.0	108.0
63	68.3	52.7	79.1

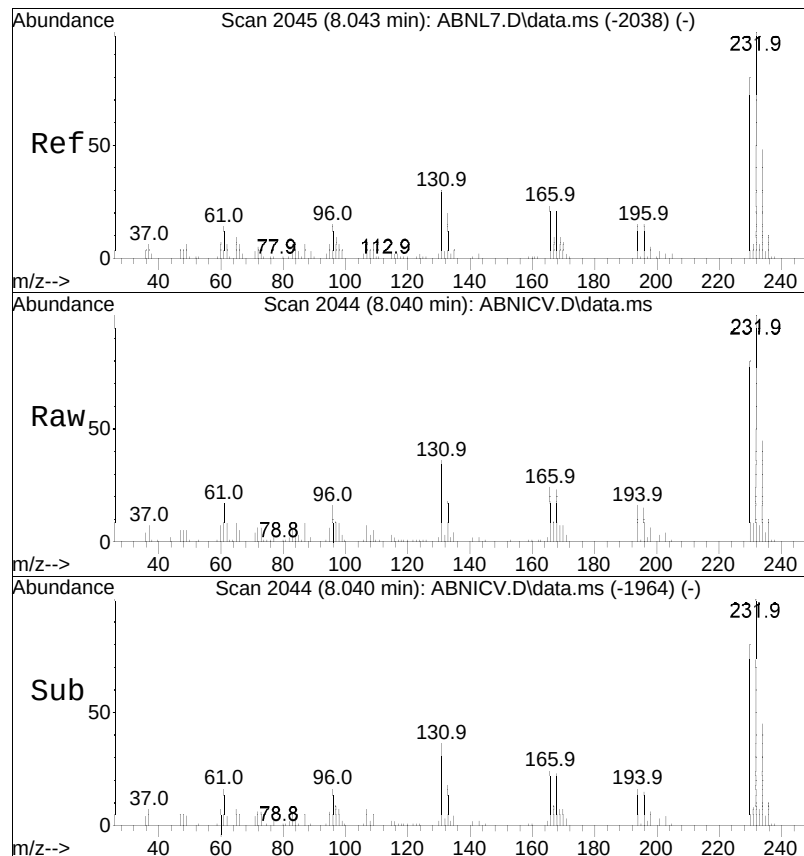




#71
 4-Nitrophenol
 Concen: 5.20 ug/ml
 RT: 7.900 min Scan# 1999
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

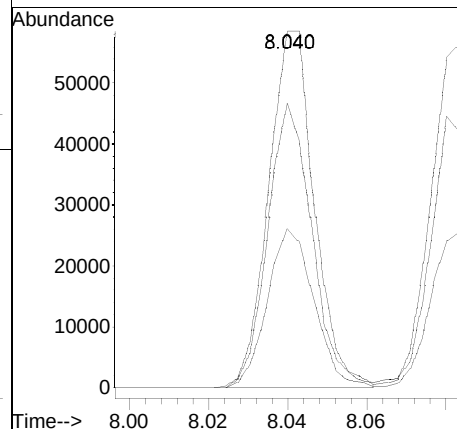
Tgt Ion:	65	Resp:	29826
Ion Ratio	Lower	Upper	
65	100		
109	67.5	47.4	71.2
139	95.9	76.6	115.0

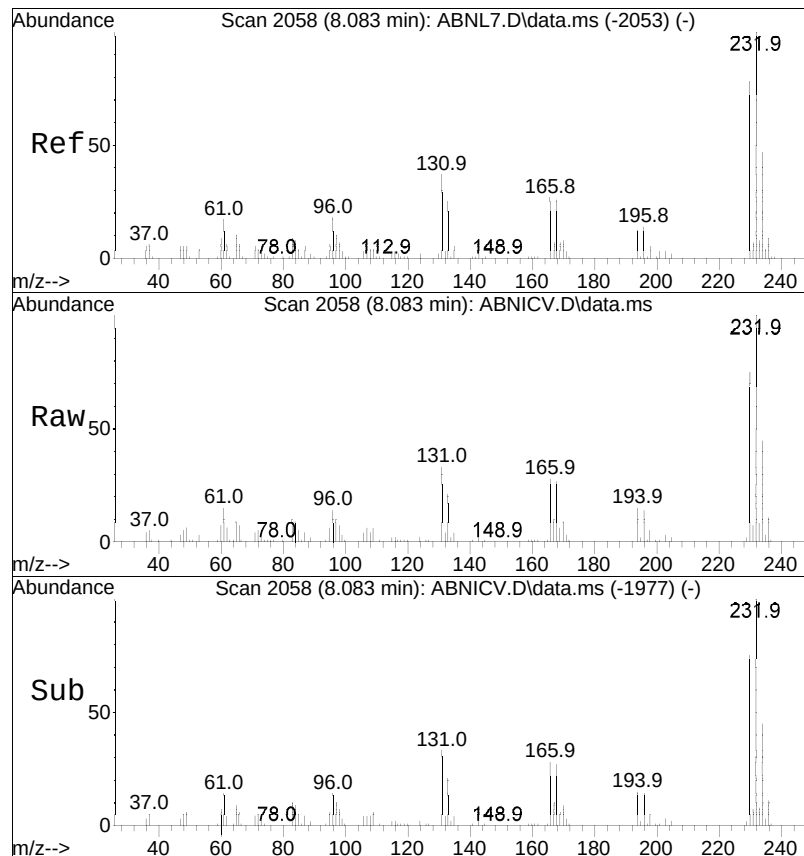




#72
 2,3,5,6-Tetrachlorophenol
 Concen: 5.02 ug/ml
 RT: 8.040 min Scan# 2044
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

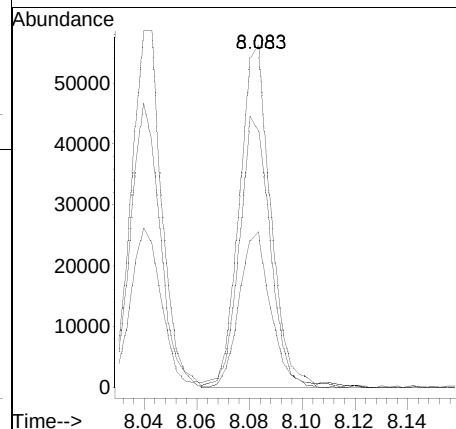
Tgt Ion:	232	Resp:	47213
Ion Ratio	Lower	Upper	
232	100		
230	77.1	64.2	96.4
234	45.6	38.1	57.1

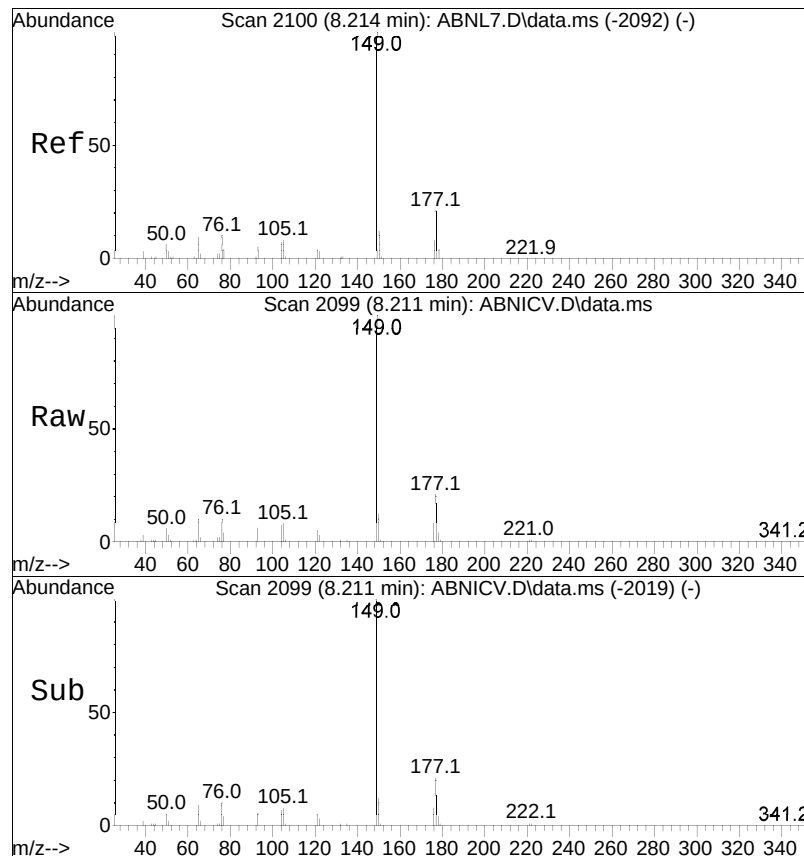




#73
 2,3,4,6-Tetrachlorophenol
 Concen: 5.10 ug/ml
 RT: 8.083 min Scan# 2058
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

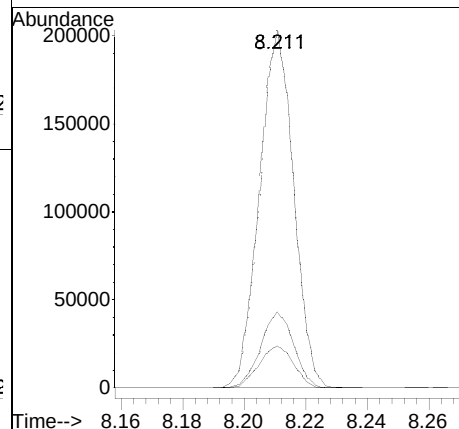
Tgt Ion:	232	Resp:	47057
Ion Ratio	Lower	Upper	
232	100		
230	76.9	61.8	92.8
234	45.2	36.2	54.2

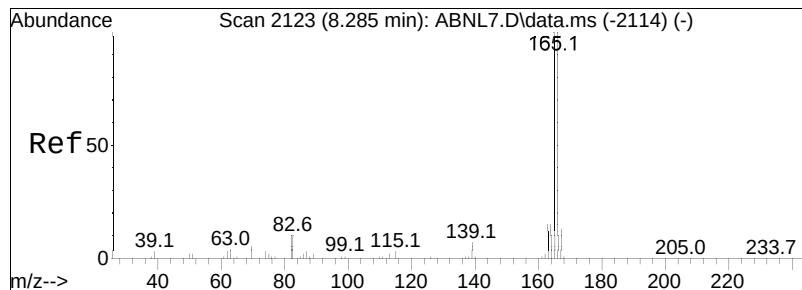




#74
 Diethyl phthalate
 Concen: 4.76 ug/ml
 RT: 8.211 min Scan# 2099
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt	Ion	Ratio	Resp	Lower	Upper
149	100		154977		
177	20.8	16.1		24.1	
150	12.2	9.4		14.2	





#75

Fluorene

Concen: 4.81 ug/ml

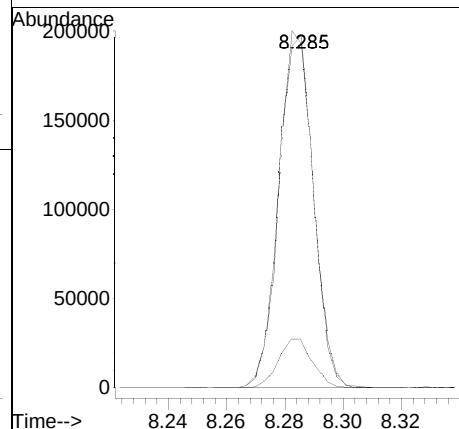
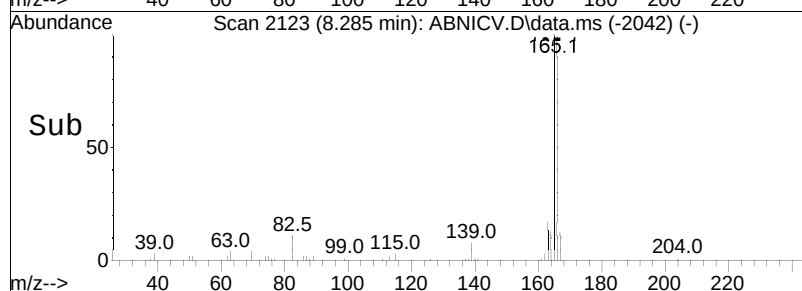
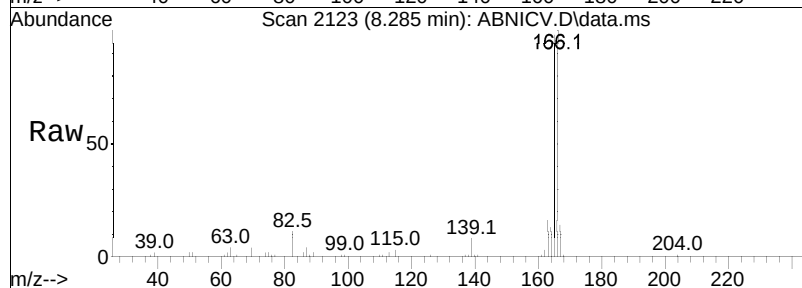
RT: 8.285 min Scan# 2123

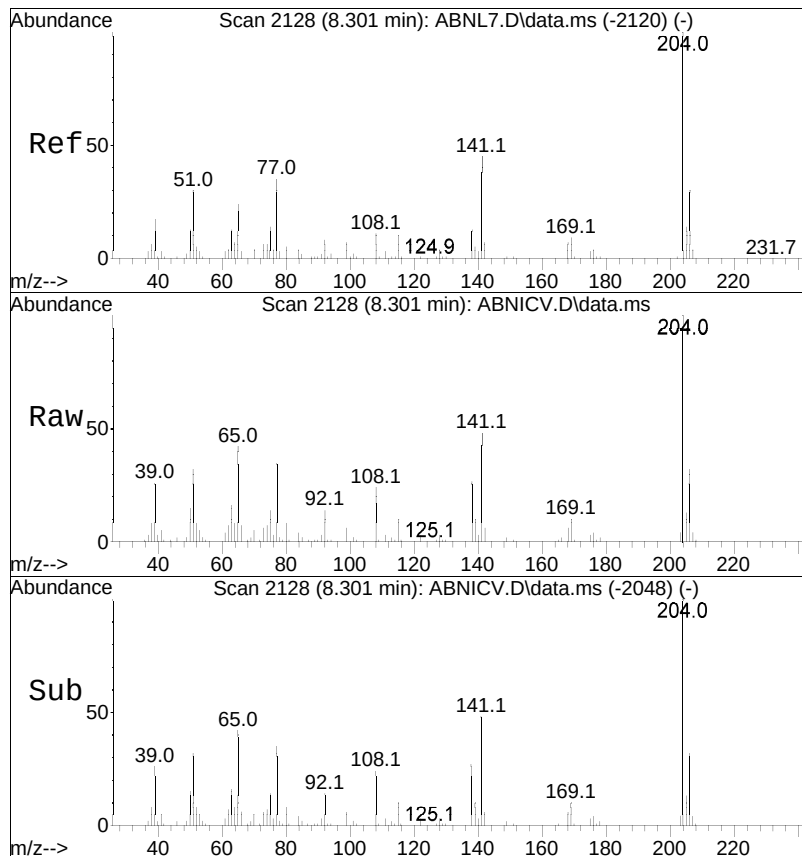
Delta R.T. 0.000 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

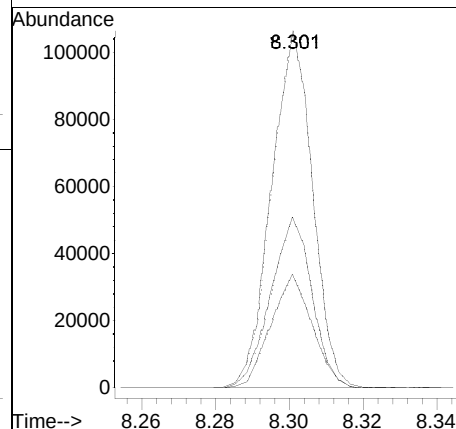
Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.8	76.2	114.2
167	13.8	10.6	15.8

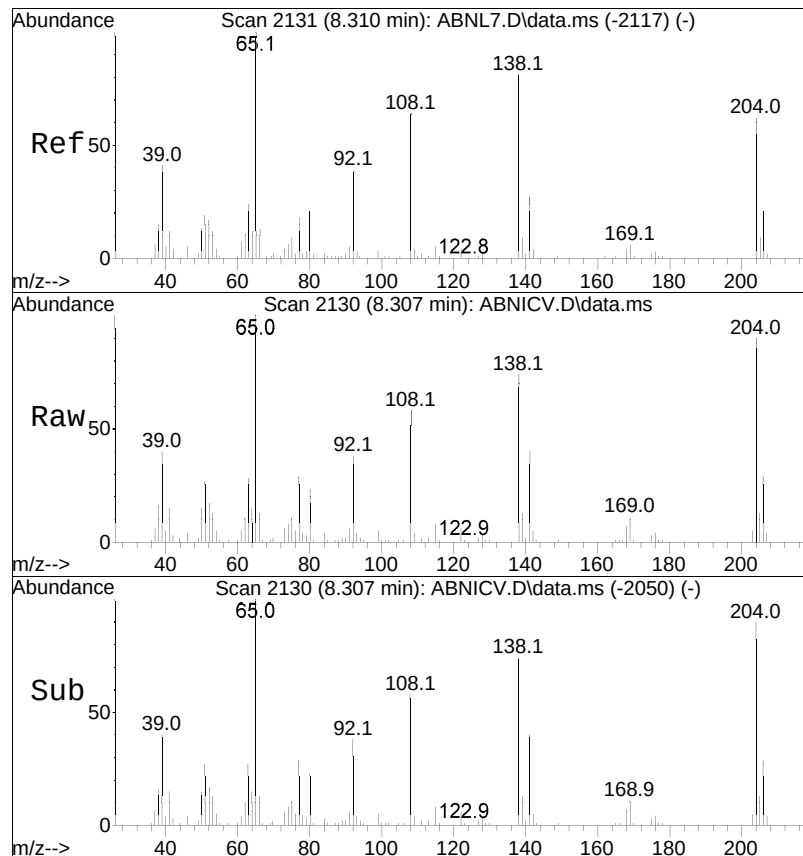




#76
 4-Chlorophenyl phenyl ether
 Concen: 4.63 ug/ml
 RT: 8.301 min Scan# 2128
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

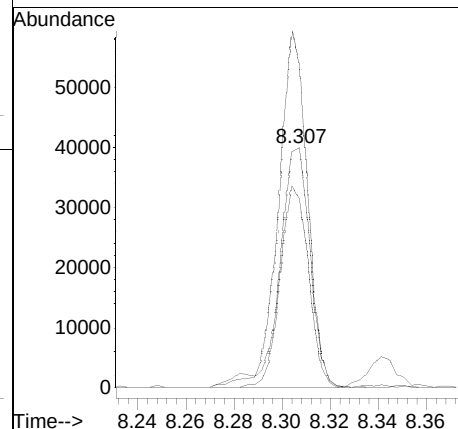
Tgt Ion:	204	Resp:	81400
Ion Ratio	Lower	Upper	
204	100		
206	32.2	25.8	38.6
141	48.2	53.6	80.4#

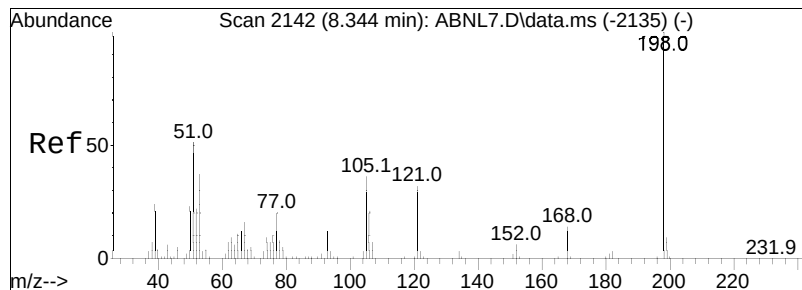




#77
 4-Nitroaniline
 Concen: 5.32 ug/ml
 RT: 8.307 min Scan# 2130
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

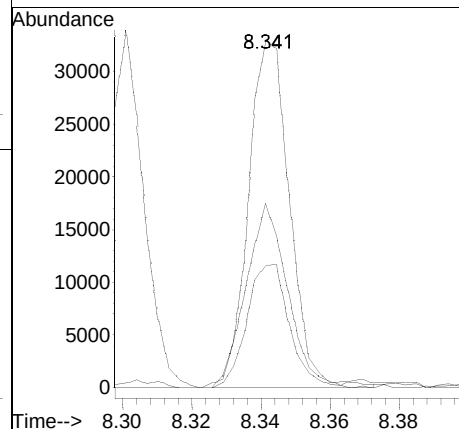
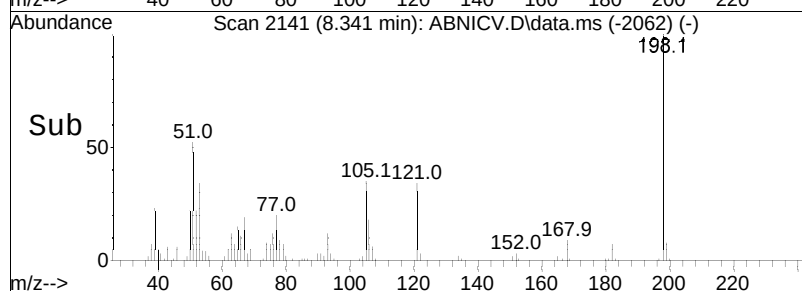
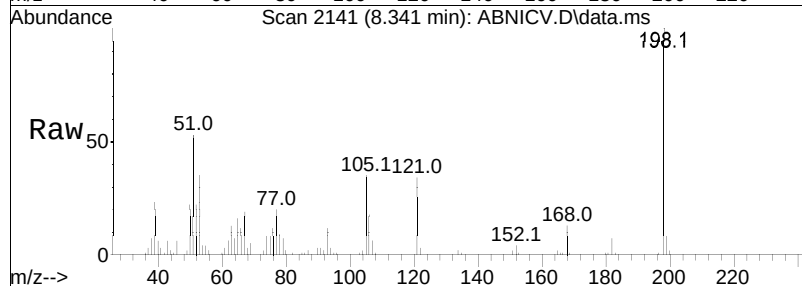
Tgt Ion	Ratio	Lower	Upper
138	100		
108	77.3	52.1	78.1
65	139.3	115.0	172.6

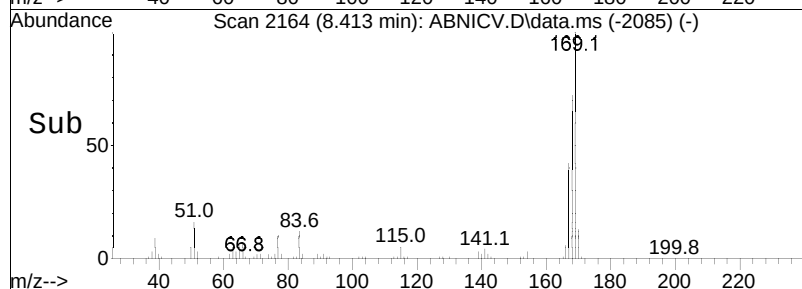
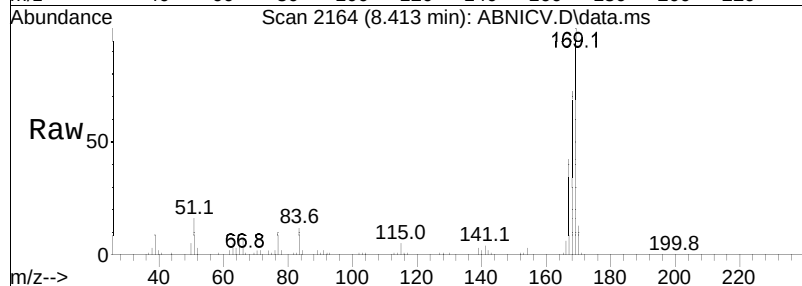
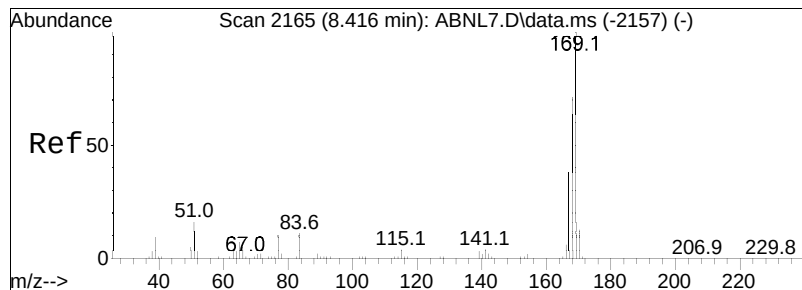




#78
 4,6-Dinitro-o-cresol
 Concen: 4.73 ug/ml
 RT: 8.341 min Scan# 2141
 Delta R.T. -0.004 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

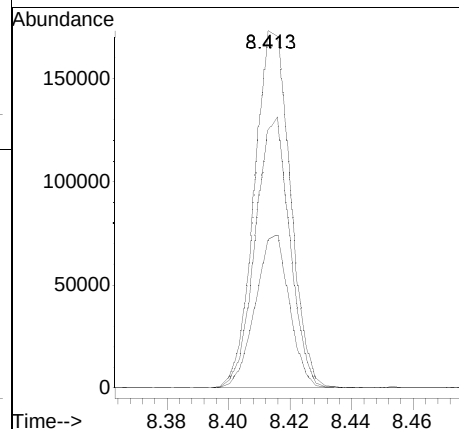
Tgt Ion	Ratio	Lower	Upper
198	100		
51	53.3	76.0	114.0#
105	36.6	45.6	68.4#

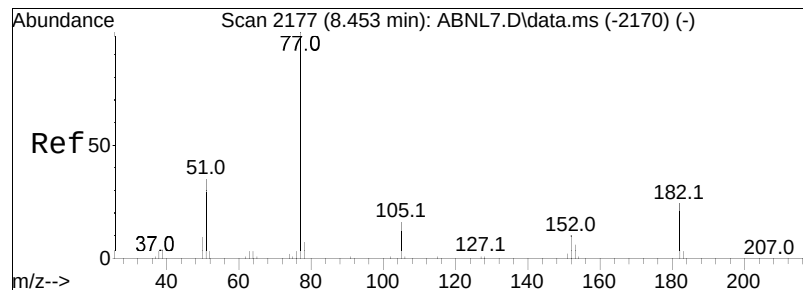




#79
NDPA/DPA
Concen: 4.73 ug/ml
RT: 8.413 min Scan# 2164
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 17 Apr 2025 12:13 am

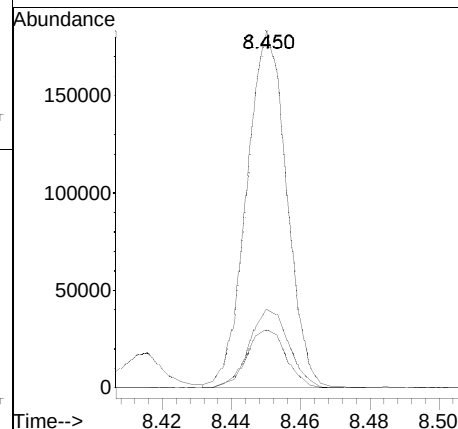
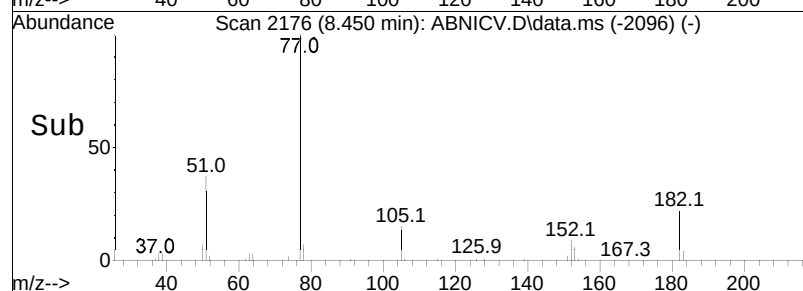
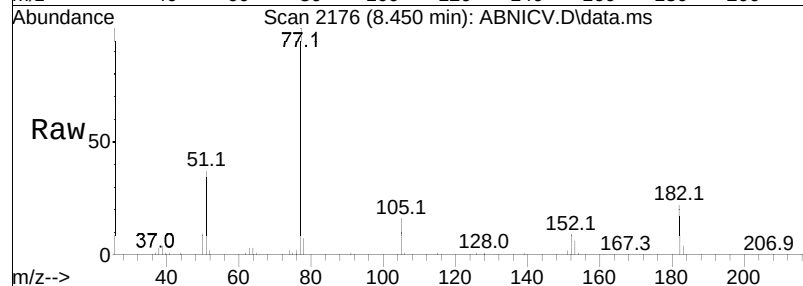
Tgt	Ion	Ratio	Lower	Upper
169	100			
168	72.8	54.0	81.0	
167	41.0	28.6	42.8	

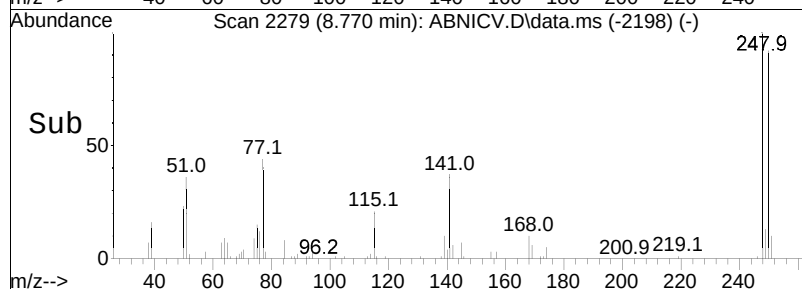
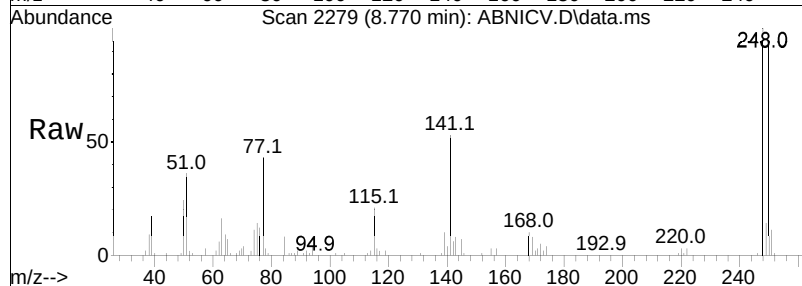
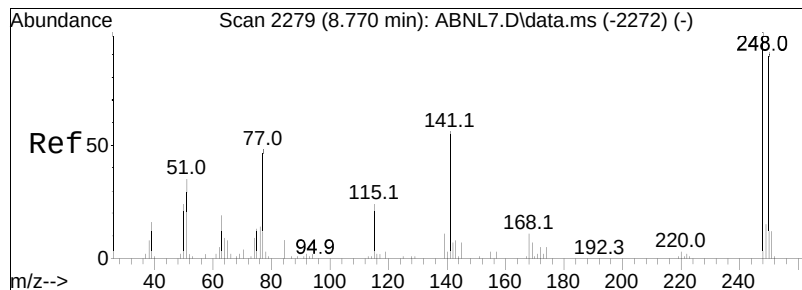




#80
 Azobenzene
 Concen: 4.82 ug/ml
 RT: 8.450 min Scan# 2176
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

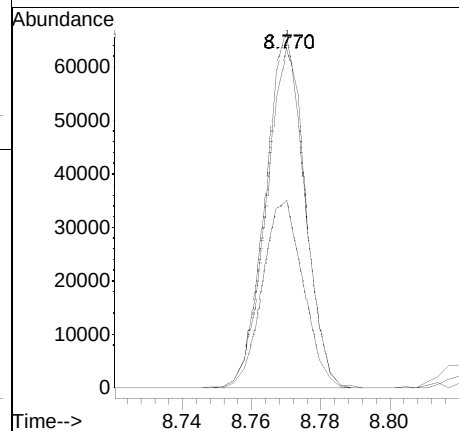
Tgt Ion:	77	Resp:	145361
Ion Ratio	Lower	Upper	
77	100		
182	22.0	17.4	26.2
105	16.2	15.4	23.2

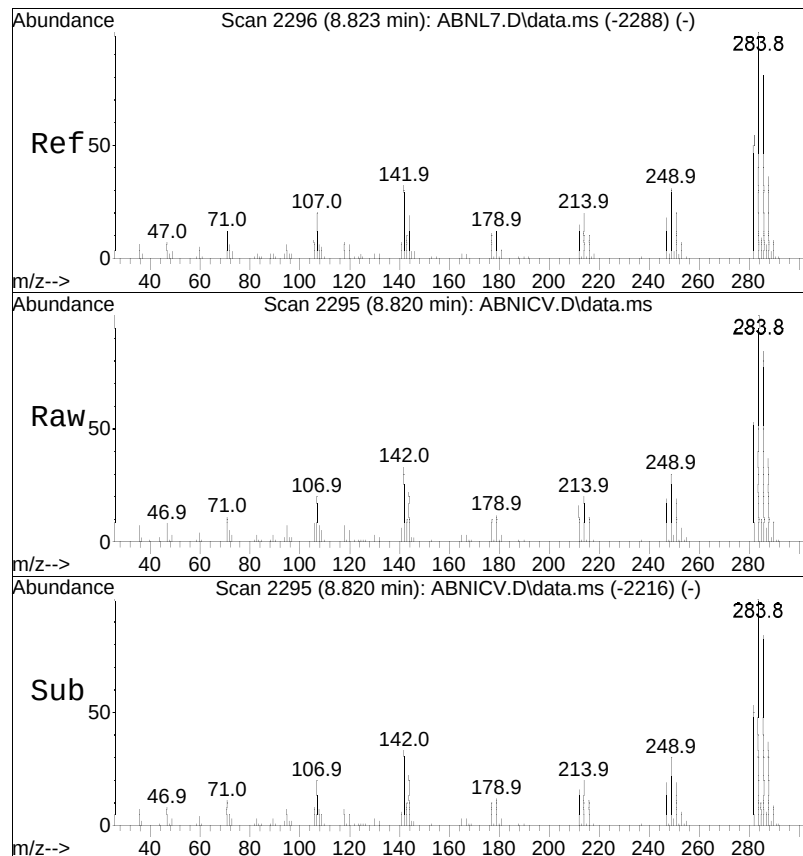




#82
 4-Bromophenyl phenyl ether
 Concen: 4.65 ug/ml
 RT: 8.770 min Scan# 2279
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

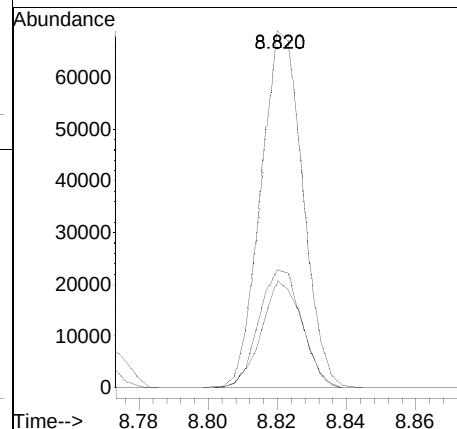
Tgt Ion	Ratio	Lower	Upper
248	100		
141	55.1	76.6	114.8#
250	96.6	77.3	115.9

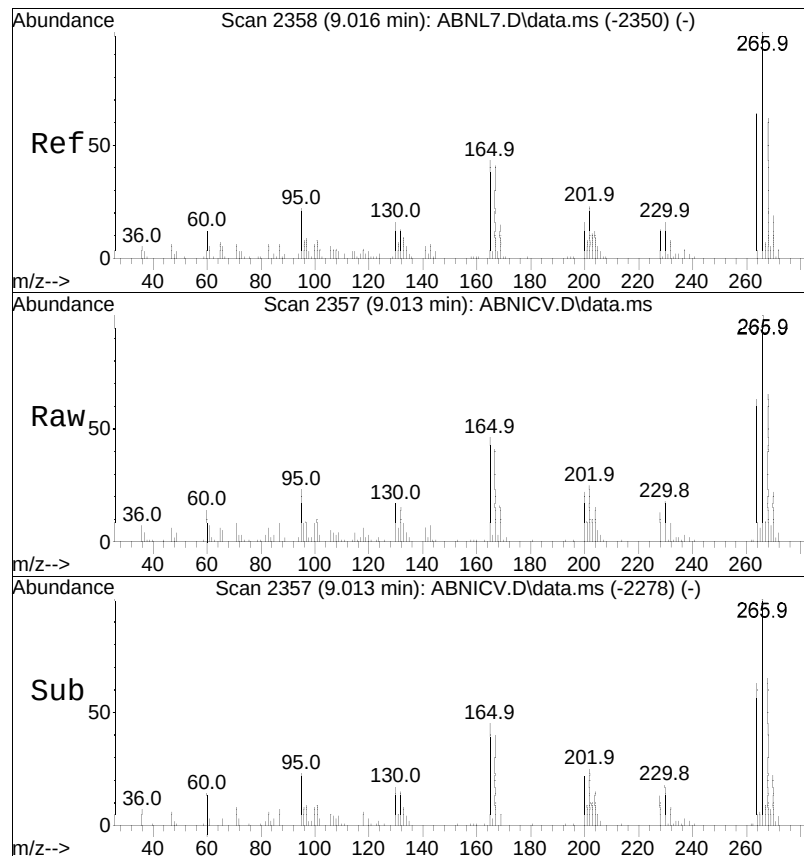




#83
 Hexachlorobenzene
 Concen: 4.47 ug/ml
 RT: 8.820 min Scan# 2295
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

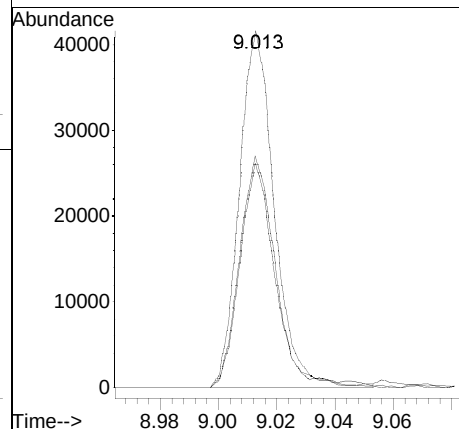
Tgt	Ion:284	Resp:	57924
Ion	Ratio	Lower	Upper
284	100		
142	33.9	41.9	62.9#
249	29.6	24.1	36.1

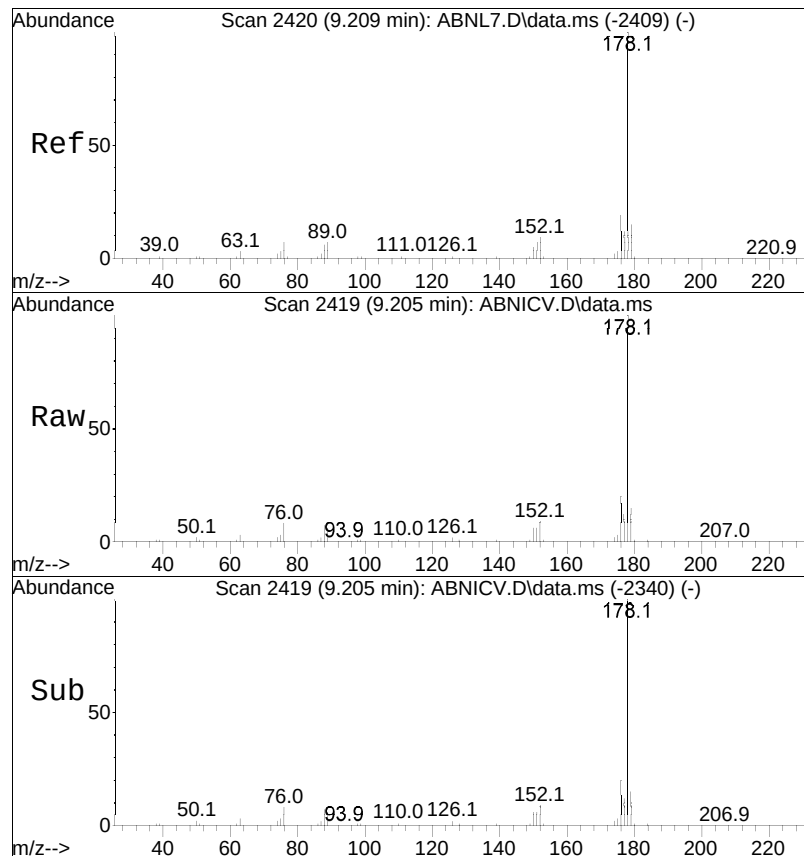




#84
 Pentachlorophenol
 Concen: 4.55 ug/ml
 RT: 9.013 min Scan# 2357
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

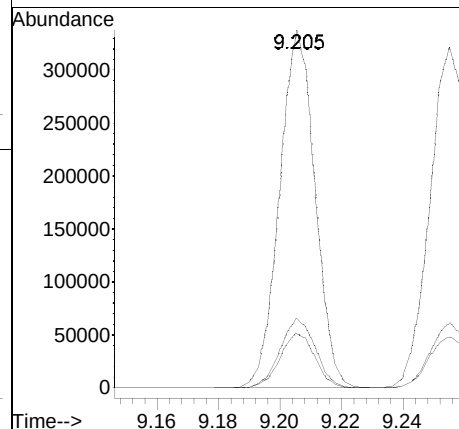
Tgt	Ion:266	Resp:	34941
Ion	Ratio	Lower	Upper
266	100		
264	62.5	49.7	74.5
268	66.5	50.5	75.7

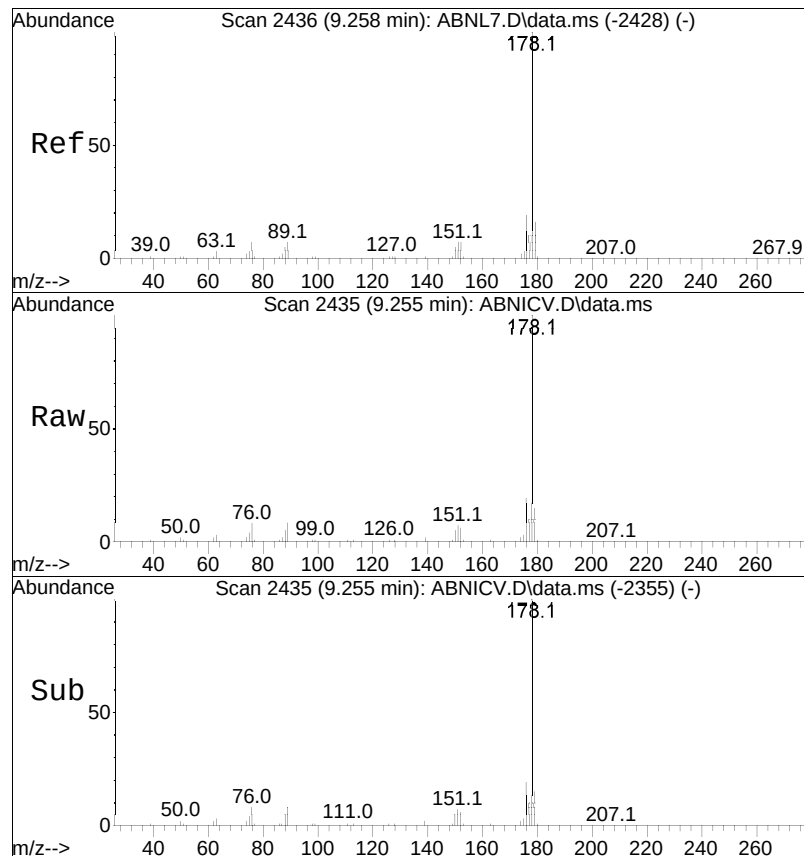




#91
 Phenanthrene
 Concen: 4.69 ug/ml
 RT: 9.205 min Scan# 2419
 Delta R.T. -0.004 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

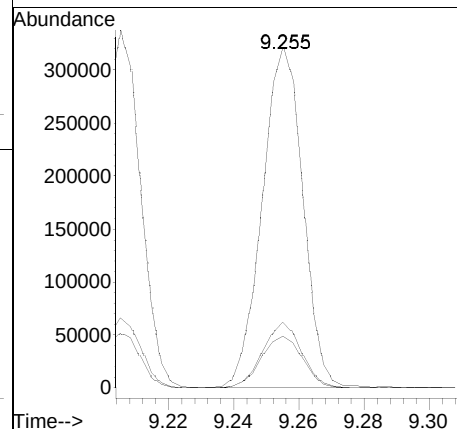
Tgt Ion	Ratio	Resp	Lower	Upper
178	100	269921		
179	15.1		12.2	18.2
176	19.2		15.4	23.2

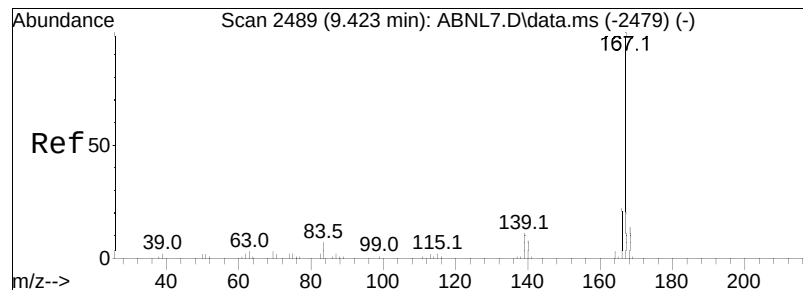




#92
 Anthracene
 Concen: 4.93 ug/ml
 RT: 9.255 min Scan# 2435
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.0	18.0
176	18.5	14.6	22.0





#93

Carbazole

Concen: 4.79 ug/ml

RT: 9.420 min Scan# 2488

Delta R.T. -0.000 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

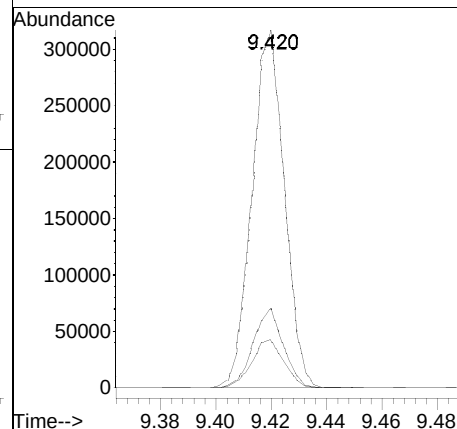
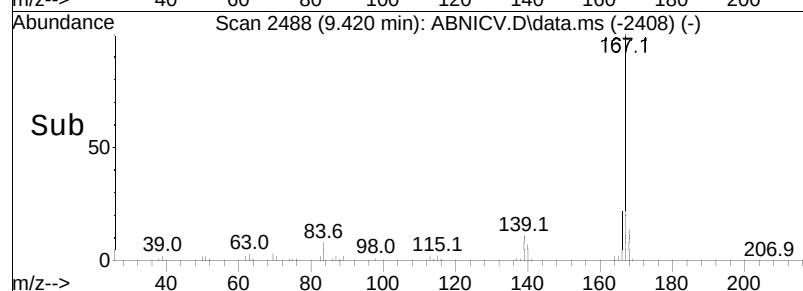
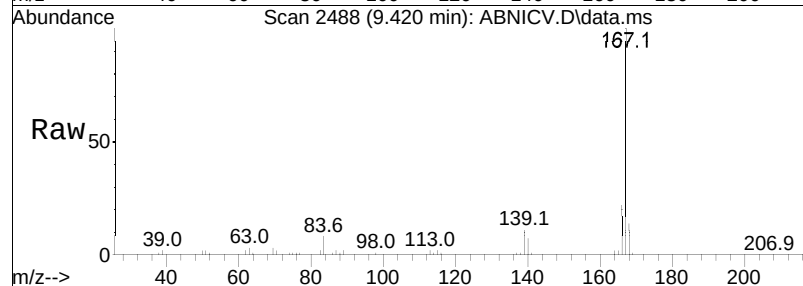
Tgt Ion:167 Resp: 254432

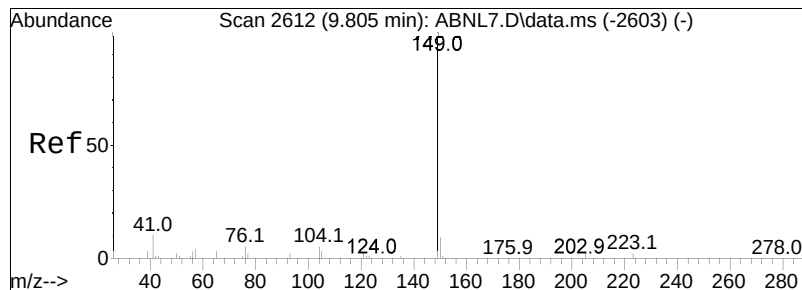
Ion Ratio Lower Upper

167 100

168 13.5 10.6 15.8

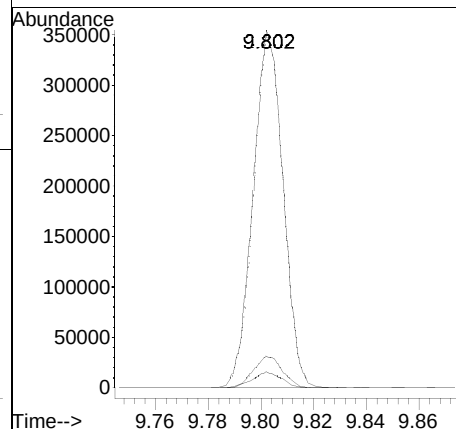
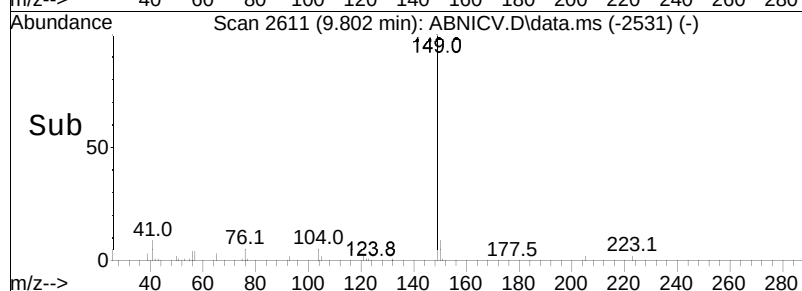
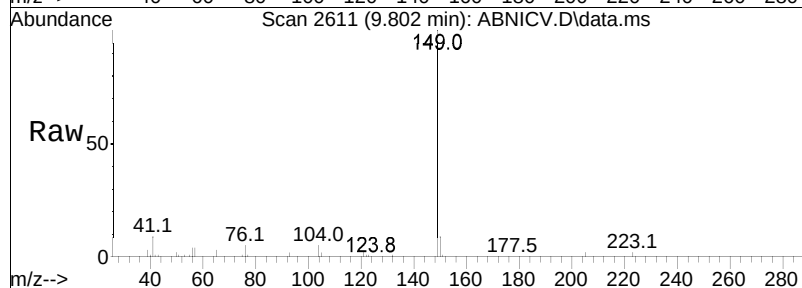
166 21.0 17.4 26.0

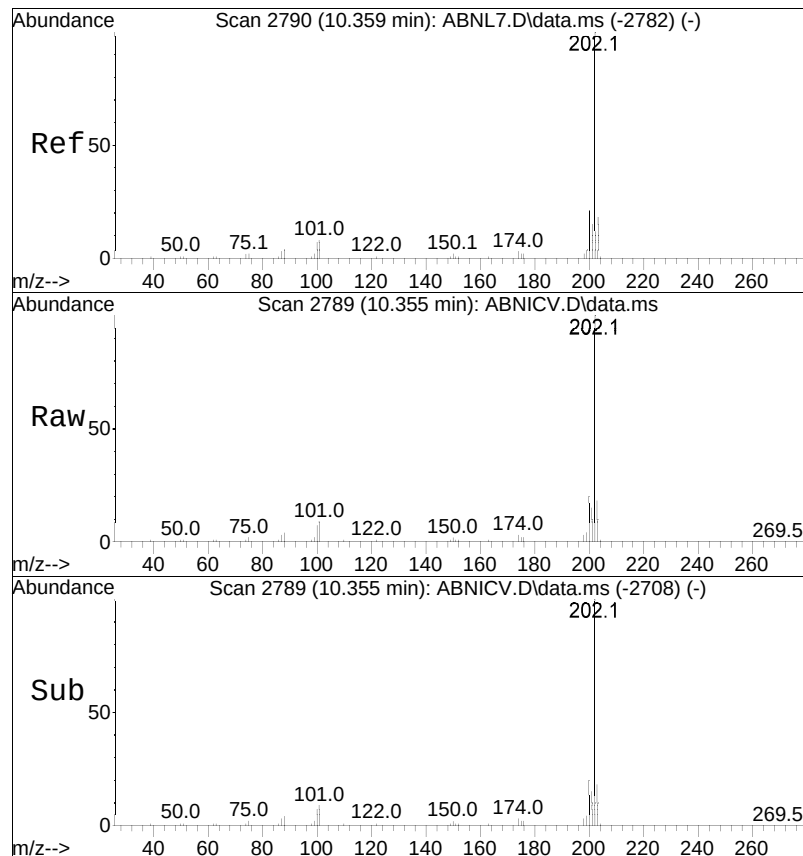




#94
 Di-n-butylphthalate
 Concen: 5.00 ug/ml
 RT: 9.802 min Scan# 2611
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

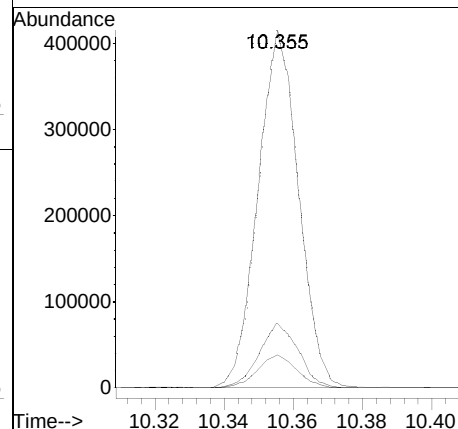
Tgt Ion	Ratio	Resp	Lower	Upper
149	100	275425		
150	8.7		7.0	10.6
104	4.4		4.5	6.7#

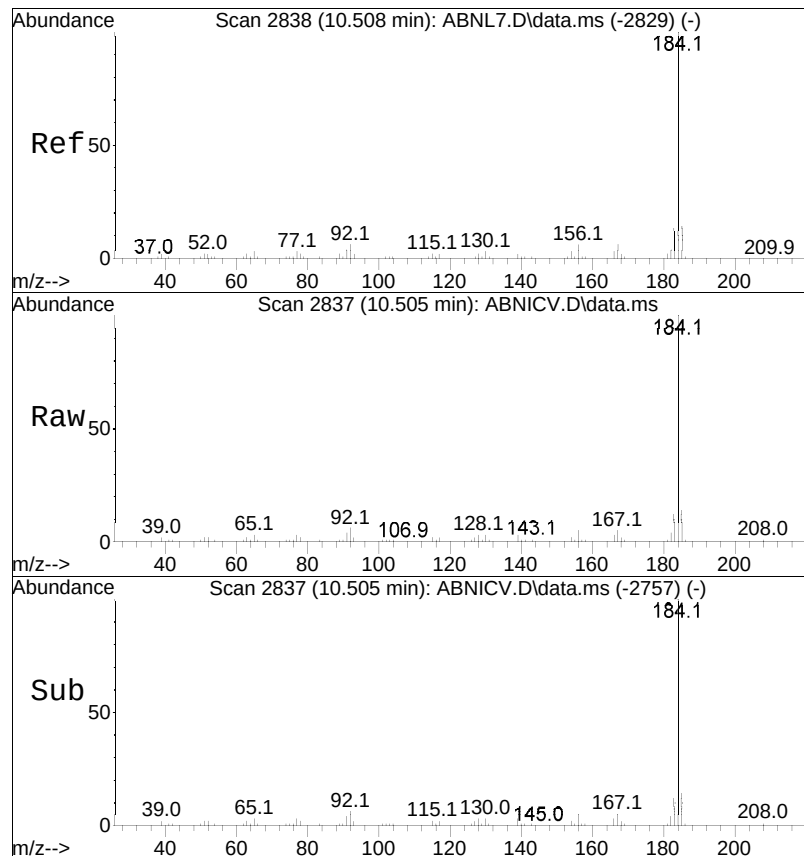




#95
 Fluoranthene
 Concen: 4.93 ug/ml
 RT: 10.355 min Scan# 2789
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

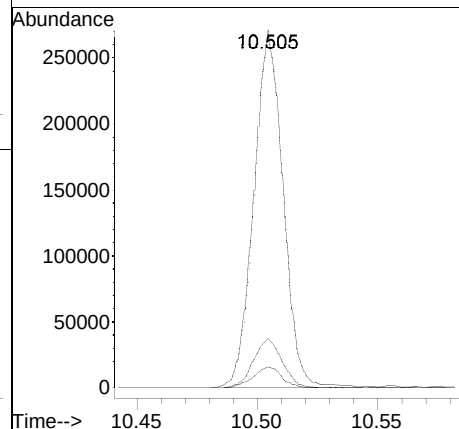
Tgt	Ion:202	Resp:	334285
Ion	Ratio	Lower	Upper
202	100		
101	9.0	13.5	20.3#
203	17.5	13.6	20.4

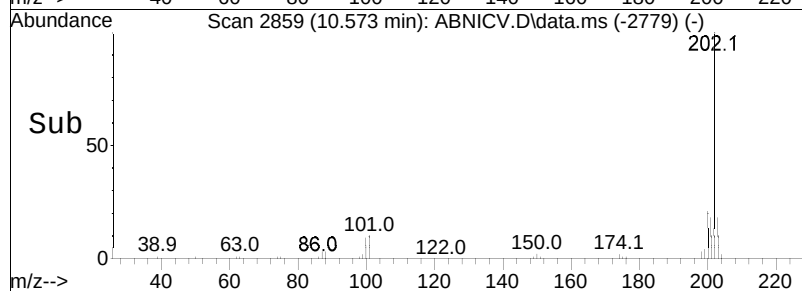
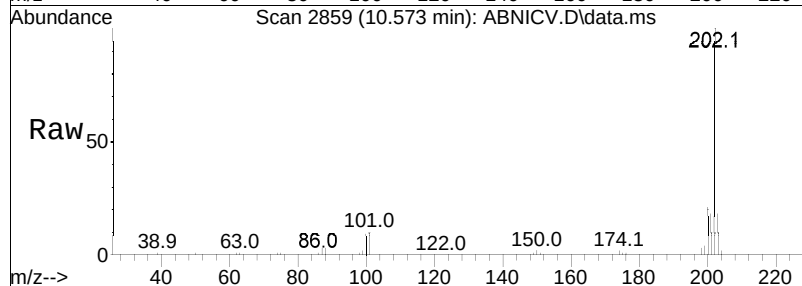
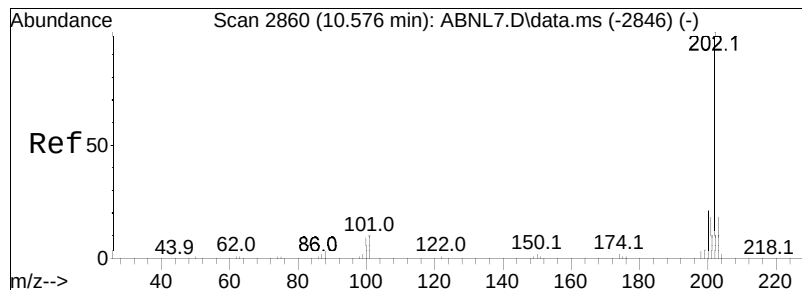




#96
Benzidine
Concen: 5.52 ug/ml
RT: 10.505 min Scan# 2837
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 17 Apr 2025 12:13 am

Tgt Ion	Ratio	Lower	Upper
184	100		
92	5.8	9.1	13.7#
185	13.6	11.1	16.7





#97

Pyrene

Concen: 4.90 ug/ml

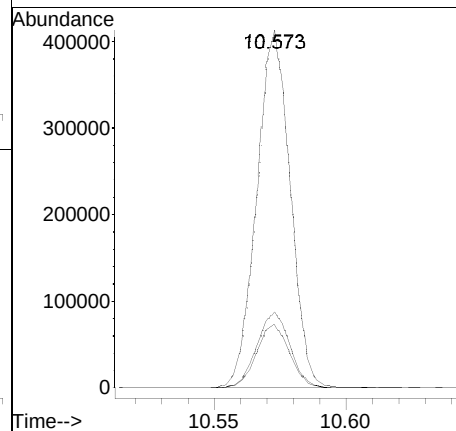
RT: 10.573 min Scan# 2859

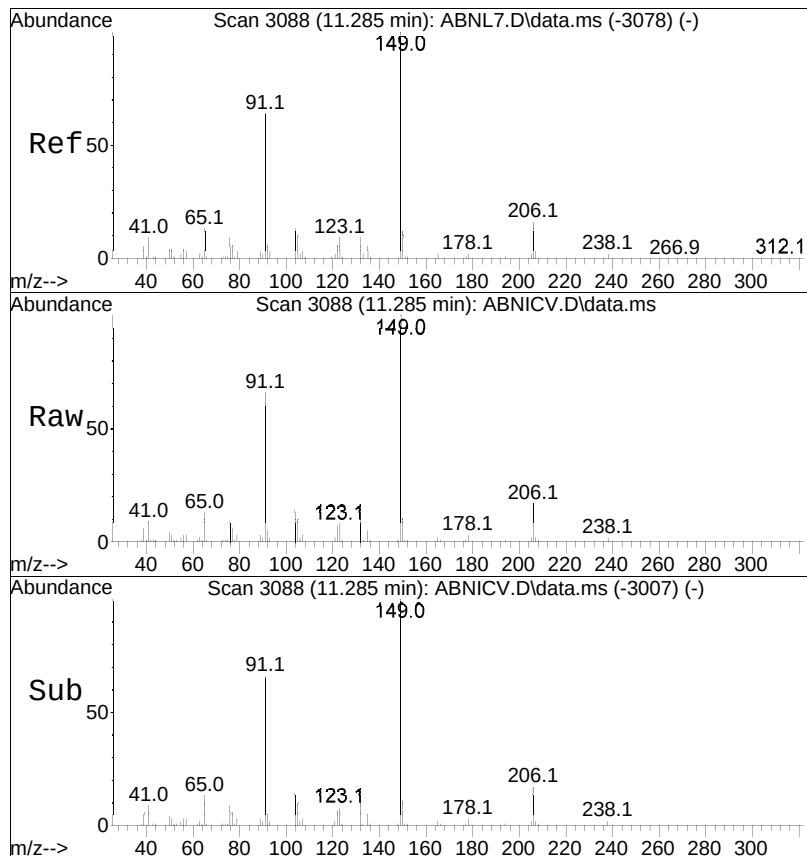
Delta R.T. -0.000 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

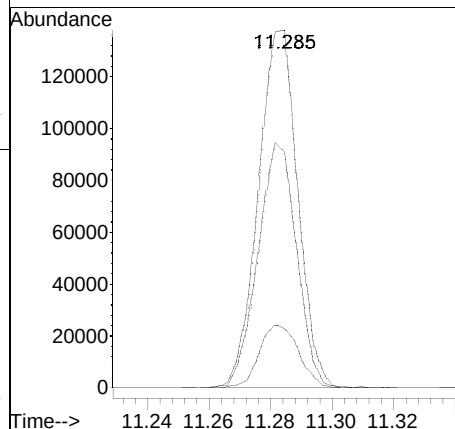
Tgt	Ion:202	Resp:	359431
Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.5	14.2	21.4

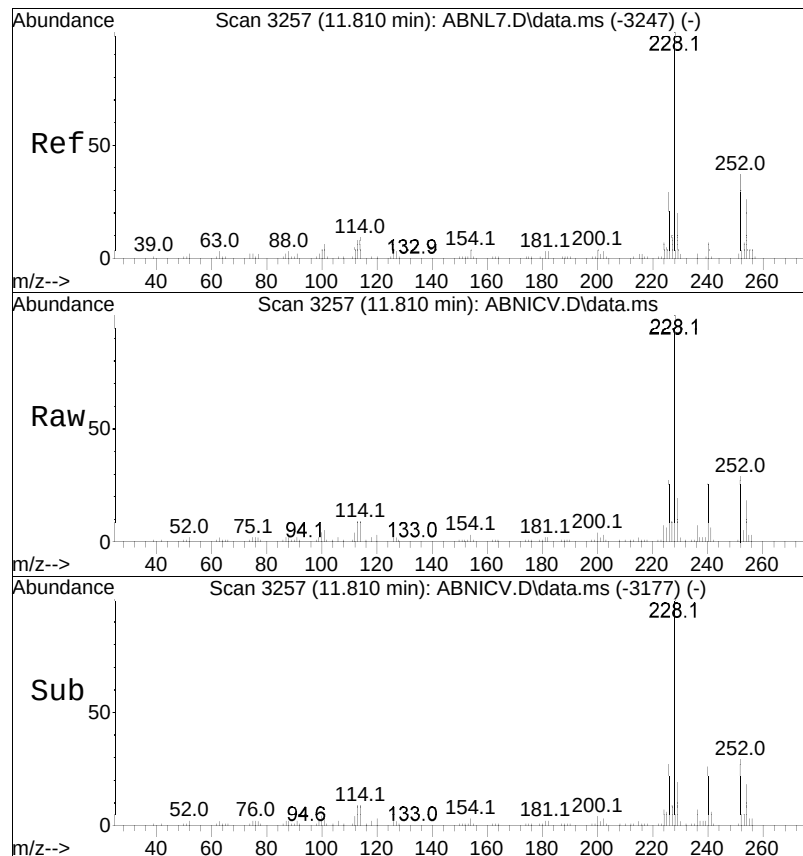




#99
 Butyl benzyl phthalate
 Concen: 5.09 ug/ml
 RT: 11.285 min Scan# 3088
 Delta R.T. 0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

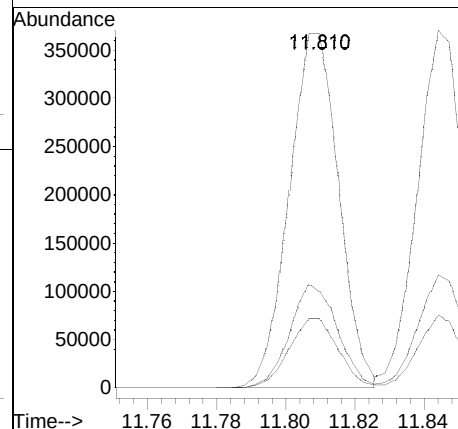
Tgt	Ion:149	Resp:	121849
Ion	Ratio	Lower	Upper
149	100		
91	67.4	63.3	94.9
206	17.6	13.9	20.9

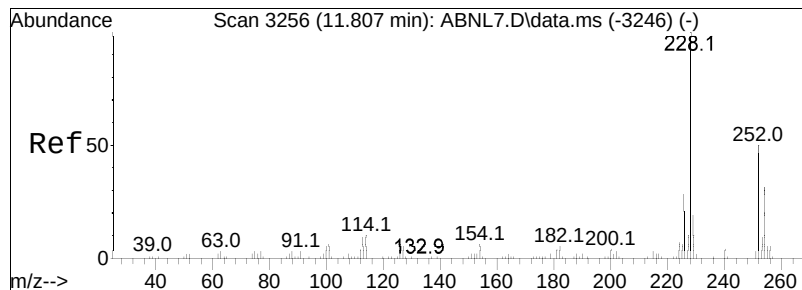




#107
 Benzo(a)anthracene
 Concen: 4.72 ug/ml
 RT: 11.810 min Scan# 3257
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

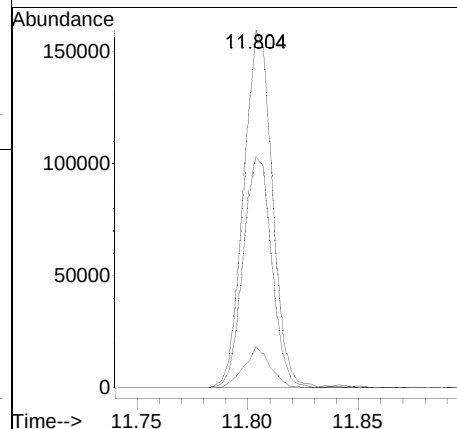
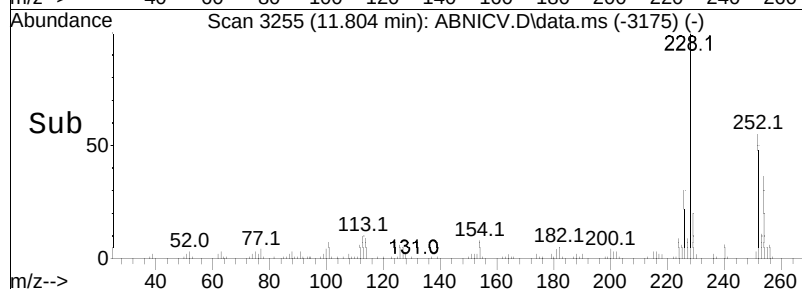
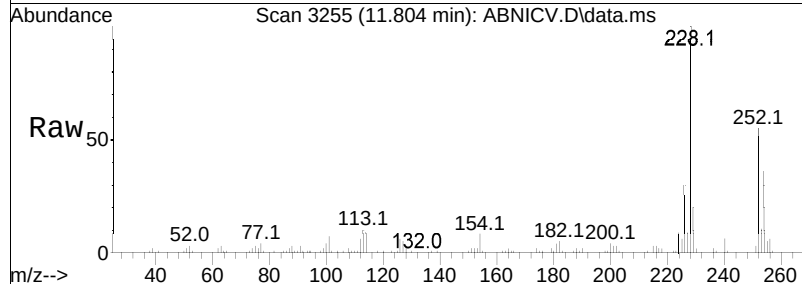
Tgt Ion:	228	Resp:	364778
Ion Ratio	Lower	Upper	
228	100		
226	28.2	22.2	33.4
229	19.6	15.6	23.4

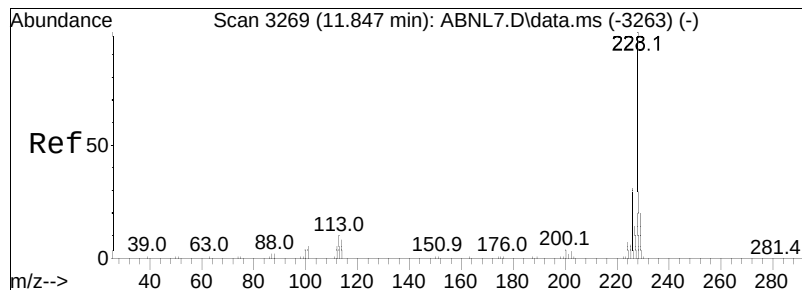




#108
 3,3'-Dichlorobenzidine
 Concen: 5.25 ug/ml
 RT: 11.804 min Scan# 3255
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt Ion	Ratio	Lower	Upper
252	100		
126	10.5	14.5	21.7#
254	64.3	51.2	76.8





#109

Chrysene

Concen: 4.58 ug/ml

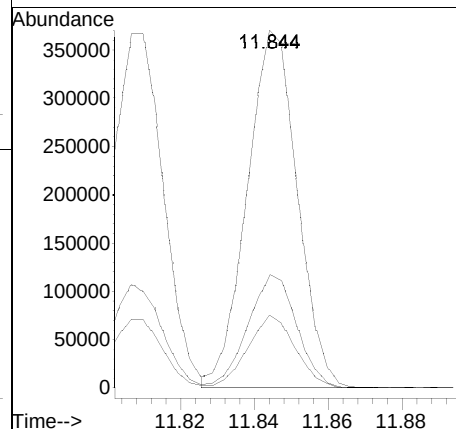
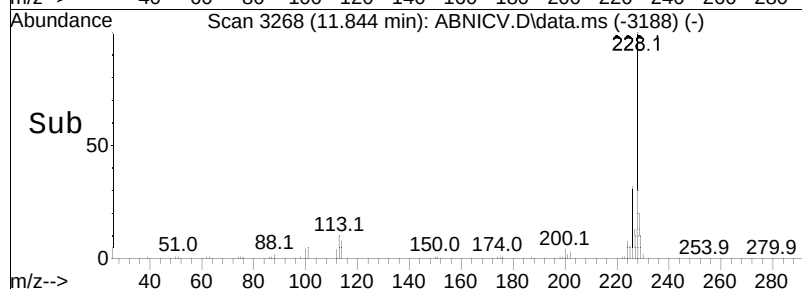
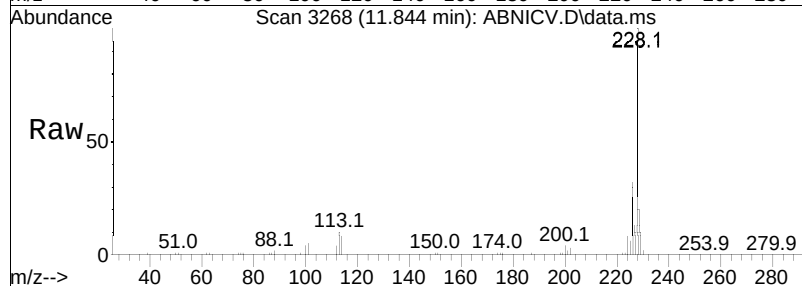
RT: 11.844 min Scan# 3268

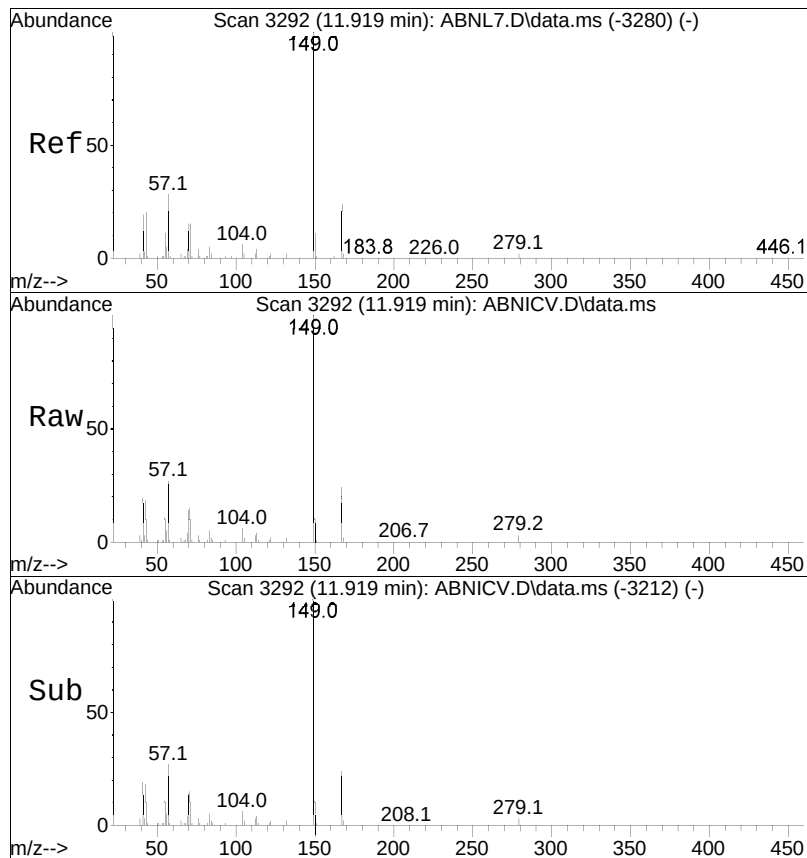
Delta R.T. -0.003 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

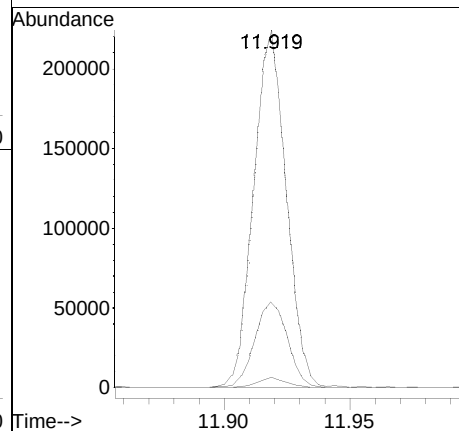
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.0	36.0
229	19.3	15.8	23.8

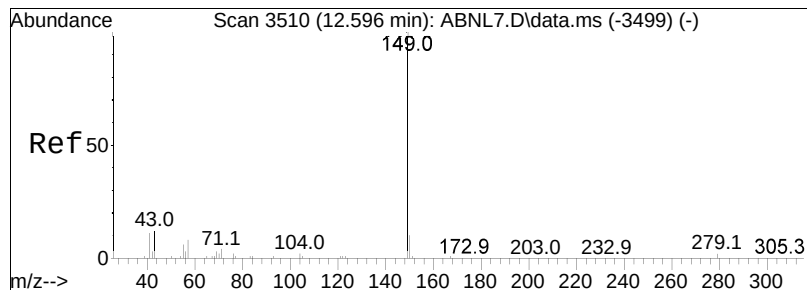




#110
 Bis(2-ethylhexyl)phthalate
 Concen: 5.12 ug/ml
 RT: 11.919 min Scan# 3292
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

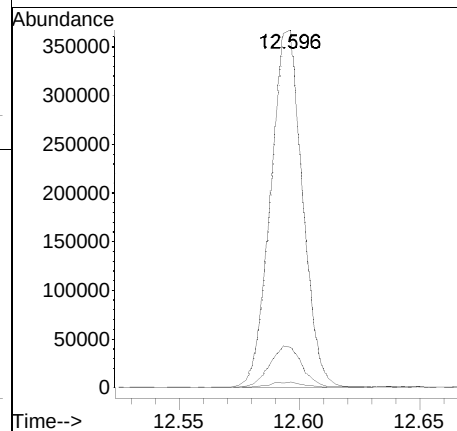
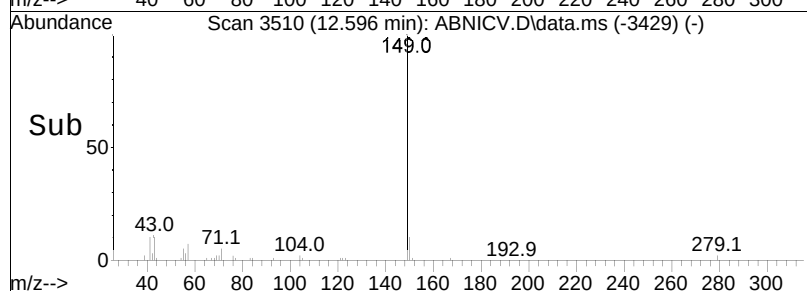
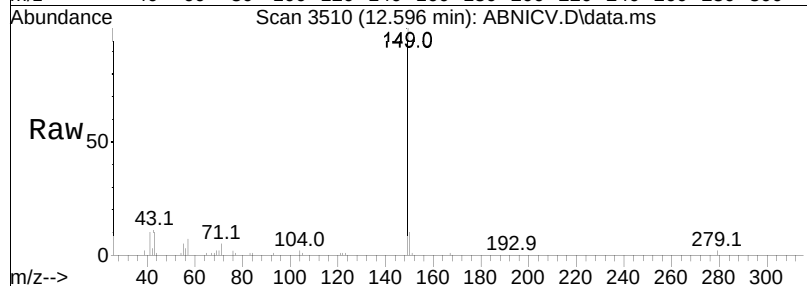
Tgt	Ion	Ratio	Resp	Lower	Upper
149	100		199454		
167	24.3			22.1	33.1
279	2.3			3.0	4.4#

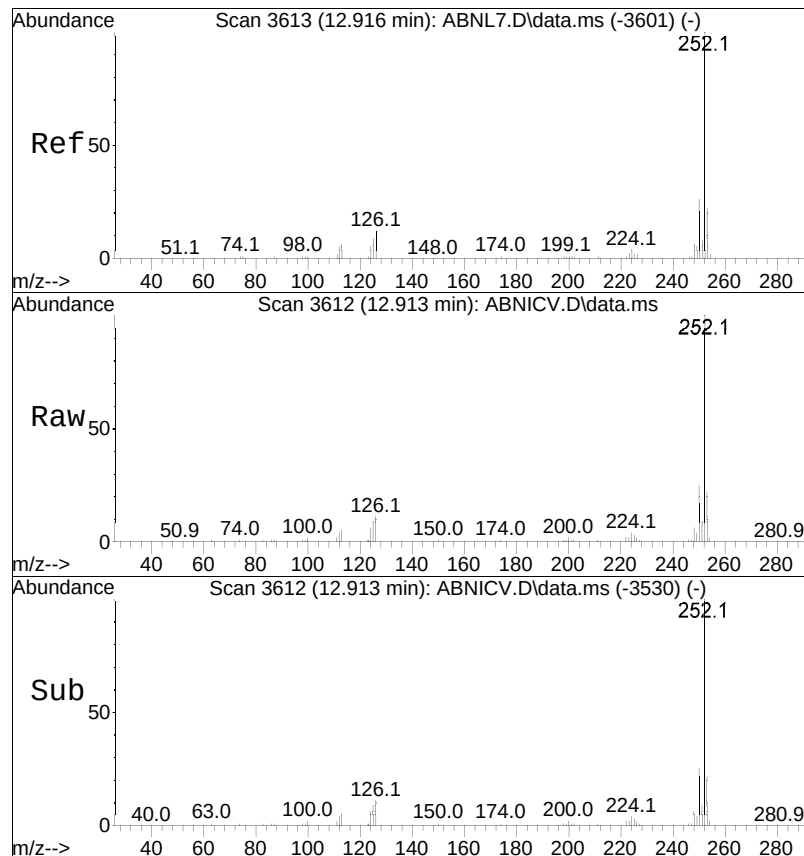




#111
 Di-n-octylphthalate
 Concen: 5.27 ug/ml
 RT: 12.596 min Scan# 3510
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

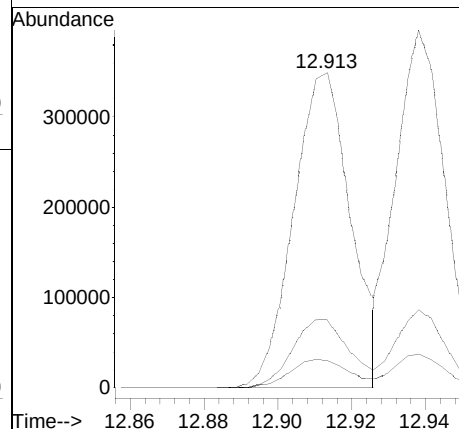
Tgt Ion	Ratio	Resp	Lower	Upper
149	100	333442		
43	12.0		18.8	28.2#
167	1.4		1.3	1.9

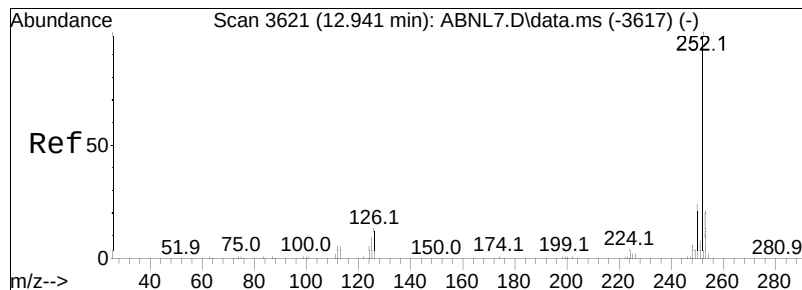




#112
 Benzo(b)fluoranthene
 Concen: 4.80 ug/ml
 RT: 12.913 min Scan# 3612
 Delta R.T. 0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

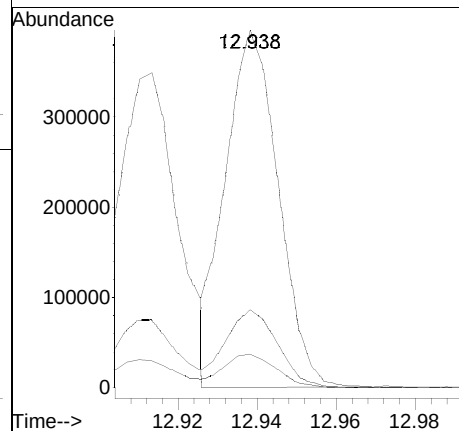
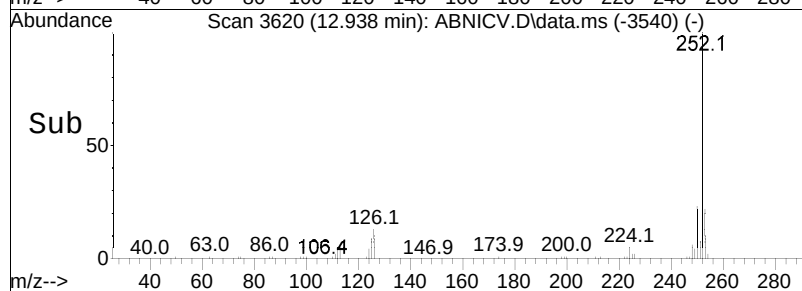
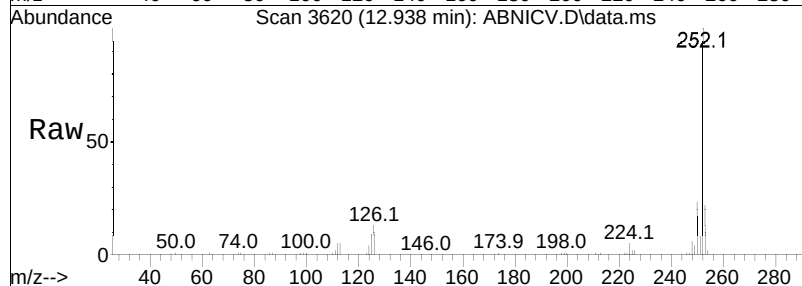
Tgt	Ion	Ratio	Lower	Upper
252	100			
125	9.6	13.3	19.9#	
253	21.8	17.1	25.7	

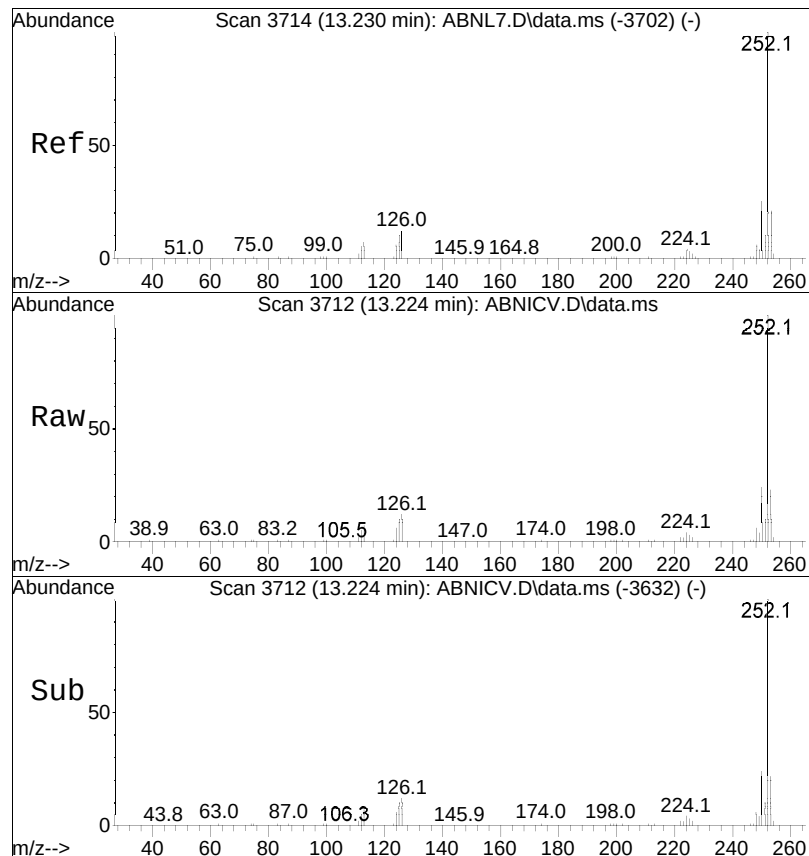




#113
 Benzo(k)fluoranthene
 Concen: 4.61 ug/ml
 RT: 12.938 min Scan# 3620
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

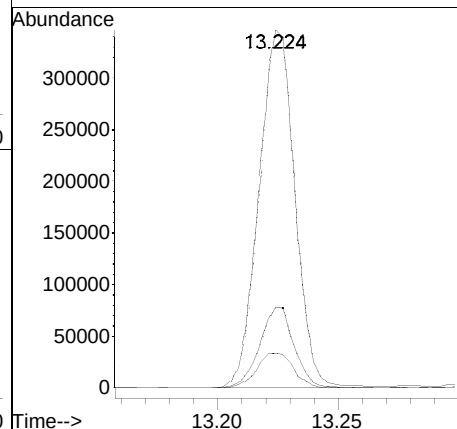
Tgt	Ion	Ratio	Lower	Upper
252	100			
125	9.5	13.0	19.6#	
253	21.5	16.8	25.2	

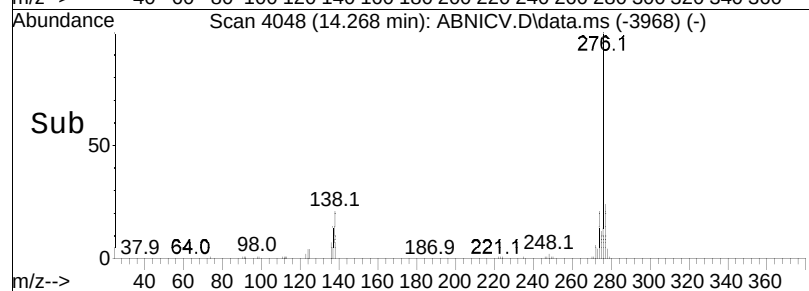
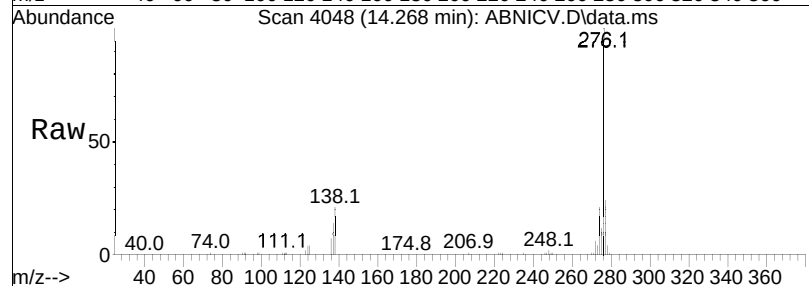
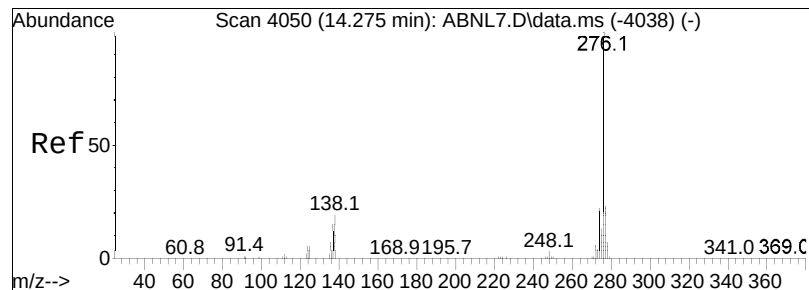




#114
 Benzo(a)pyrene
 Concen: 4.76 ug/ml
 RT: 13.224 min Scan# 3712
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

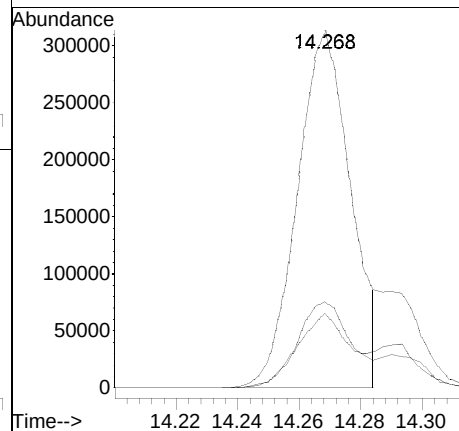
Tgt	Ion	Ratio	Resp	Lower	Upper
252	100		356112		
125	10.1	14.2		21.2#	
253	21.7	16.9		25.3	

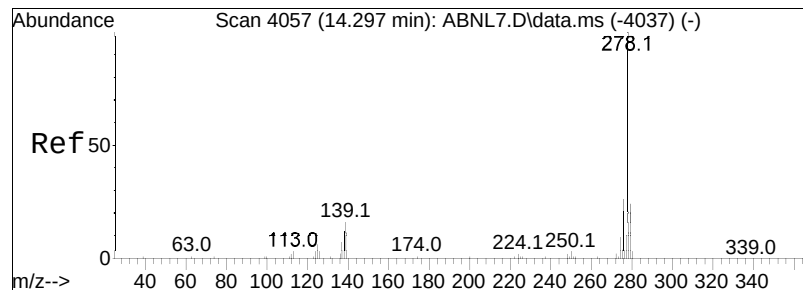




#116
 Indeno(1,2,3-cd)pyrene
 Concen: 4.65 ug/mL M6
 RT: 14.268 min Scan# 4048
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		378011		
138	20.2	25.1		37.7#	
277	24.5	18.6		28.0	





#117

Dibenzo(a,h)anthracene

Concen: 4.76 ug/ml

RT: 14.293 min Scan# 4056

Delta R.T. 0.000 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

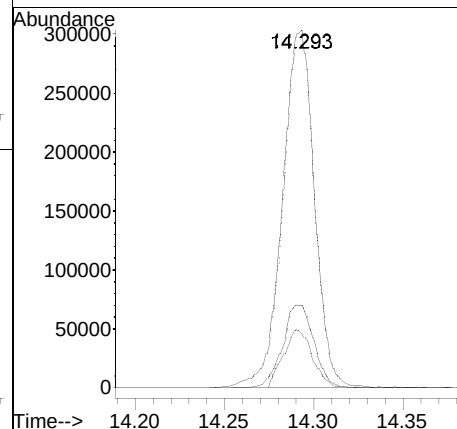
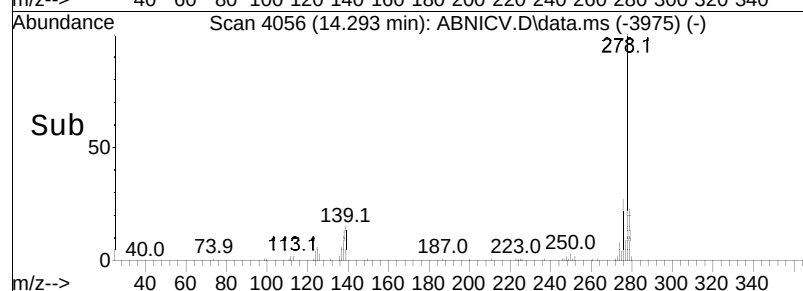
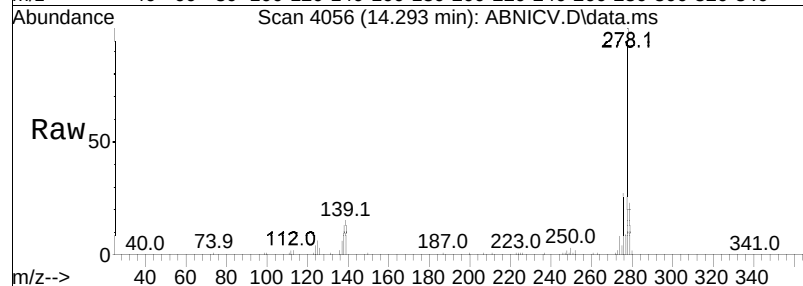
Tgt Ion: 278 Resp: 373528

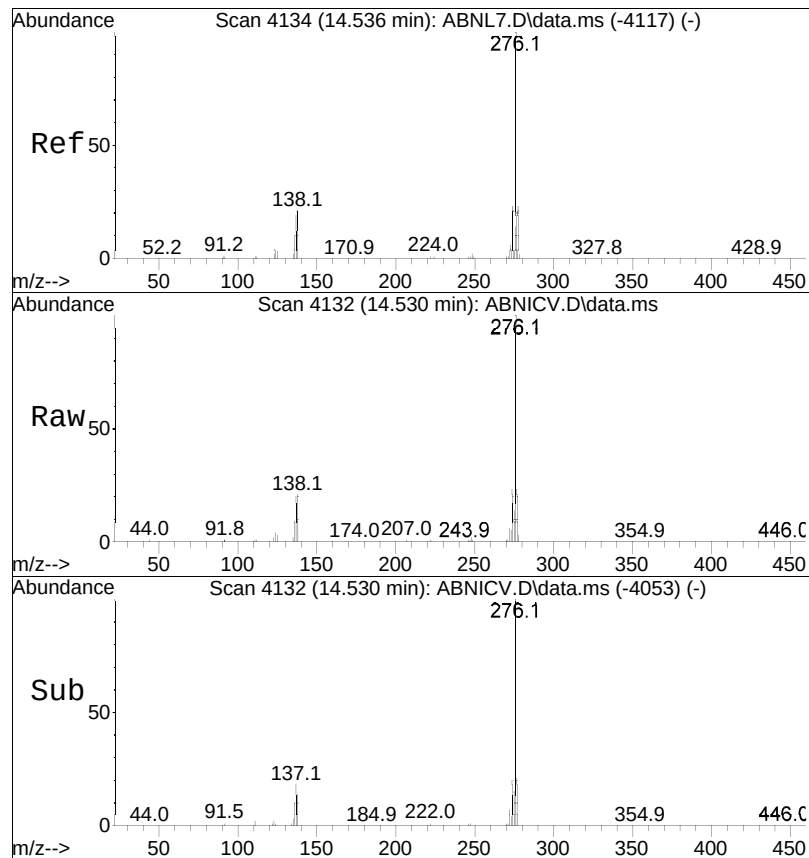
Ion Ratio Lower Upper

278 100

139 15.0 20.8 31.2#

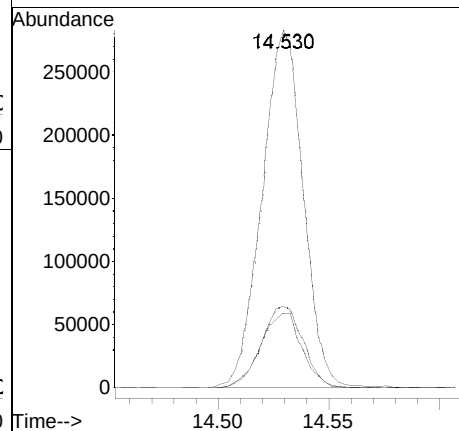
279 23.0 18.3 27.5





#118
 Benzo(ghi)perylene
 Concen: 4.63 ug/ml
 RT: 14.530 min Scan# 4132
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

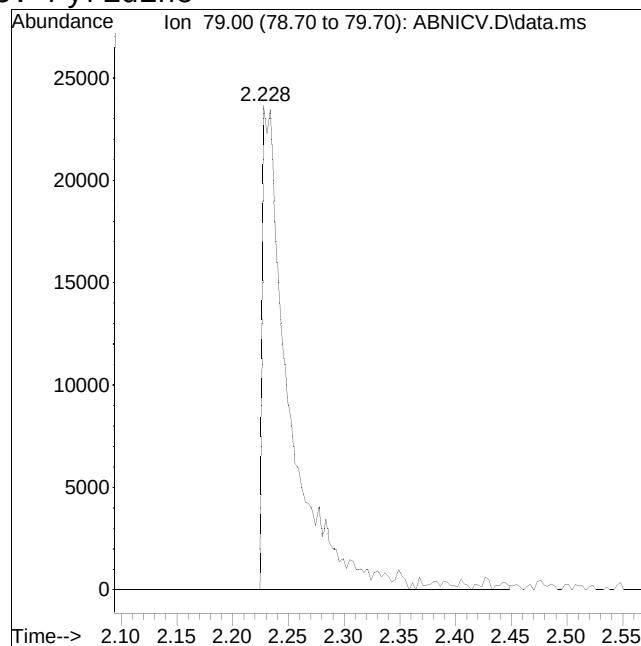
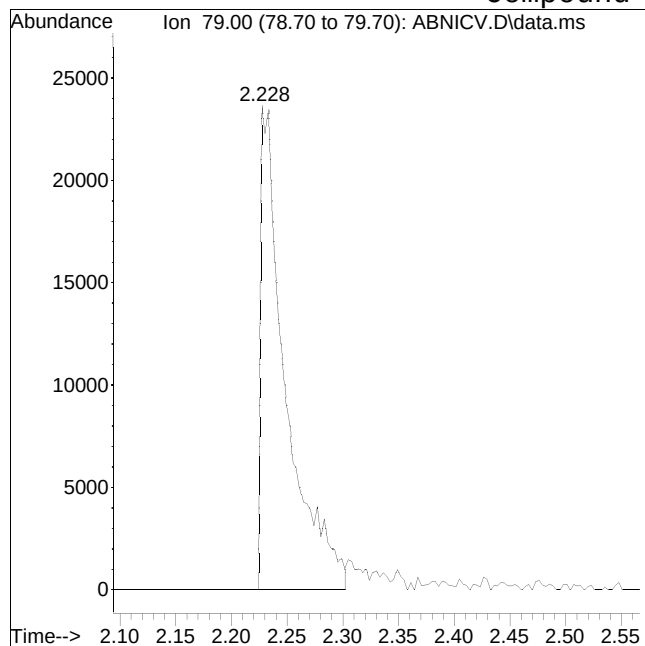
Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		362964		
138	21.2		29.2	43.8#	
277	23.3		18.8	28.2	



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNICV.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 12:13 am Instrument : Dakota
Sample : CQICV1,32,,ABNICV Lot# 115Quant Date : 4/17/2025 3:21 pm

Compound #3: Pyridine



Original Peak Response = 36962

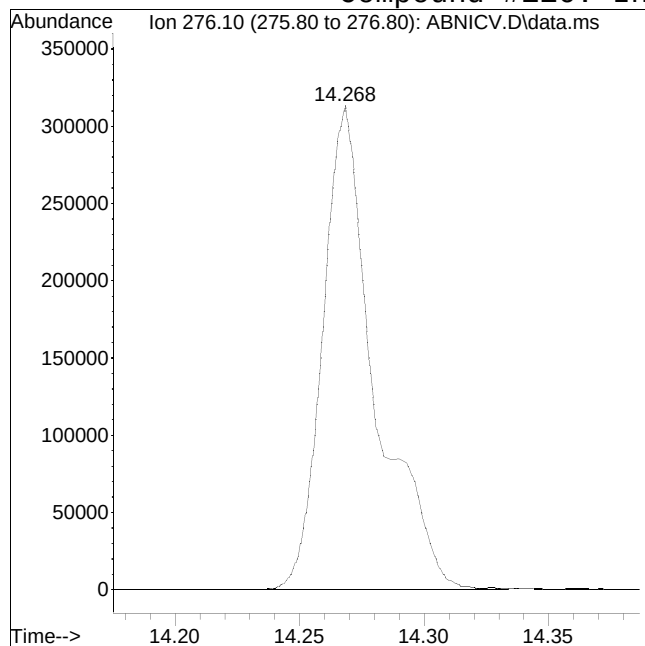
Manual Peak Response = 41067 M1

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

Manual Integration Report

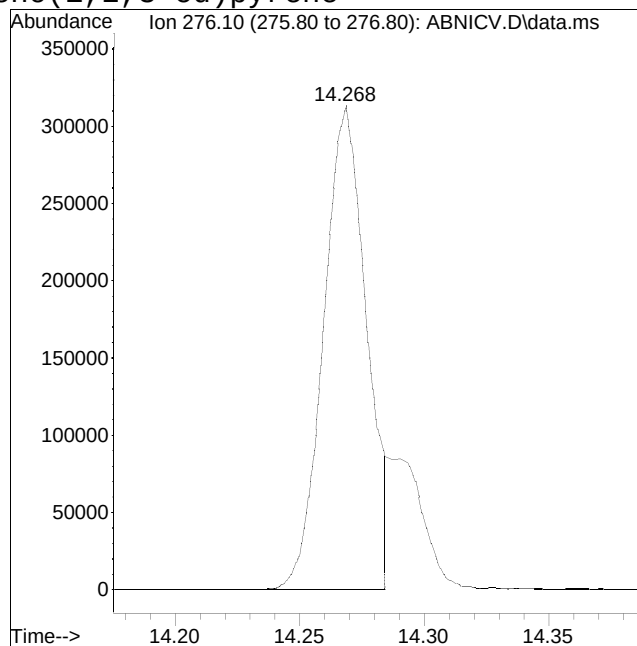
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ABNICV.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 12:13 am Instrument : Dakota
Sample : CQICV1,32,,ABNICV Lot# 115Quant Date : 4/17/2025 3:21 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 459191

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



Manual Peak Response = 378011 M6

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9ICV.D
 Acq On : 17 Apr 2025 12:36 am
 Operator : Dakota:HNY
 Sample : CQICV2,32,,AP9ICV Lot# 11560
 Misc : WG2055280
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 17 15:24:26 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 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	98	0.00
28 T	Benzaldehyde	0.839	0.913	-8.8	103	0.00
29 T	Acetophenone	1.481	1.551	-4.7	100	0.00
30 T	m-Toluidine	1.490	1.575	-5.7	104	0.00
31 T	2-Chloroaniline	1.308	1.434	-9.6	105	0.00
57 I	IS2_Naphthalene-d8	1.000	1.000	0.0	101	0.00
58 T	a-Terpineol	0.290	0.311	-7.2	102	0.00
59 T	3-Chloroaniline	0.149	0.159	-6.7	106	0.00
60 T	2,6-Dichlorophenol	0.329	0.346	-5.2	100	0.00
61 T	1-chloro-2-nitrobenzene	0.139	0.148	-6.5	103	0.00
62 T	Caprolactam	0.169	0.170	-0.6	106	0.00
63 T	1,2,4,5-Tetrachlorobenzene	0.444	0.463	-4.3	107	0.00
64 T	Biphenyl	0.950	0.983	-3.5	102	0.00
85 I	IS2_Acenaphthene-d10	1.000	1.000	0.0	104	0.00
86 T	Dichloran	0.205	0.196	4.4	108	0.00
87 T	Pentachloronitrobenzene	0.184	0.198	-7.6	105	0.00
100 I	IS2_Phenanthrene-d10	1.000	1.000	0.0	107	0.00
101 T	Diphenamid	0.466	0.506	-8.6	108	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\Dakota\250416RVTICAL\
 Data File : AP9ICV.D
 Acq On : 17 Apr 2025 12:36 am
 Operator : Dakota:HNY
 Sample : CQICV2,32,,AP9ICV Lot# 11560
 Misc : WG2055280
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 17 15:24:26 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	36137	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	98.19%		
57) IS2_Naphthalene-d8	6.051	136	124803	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	101.29%		
85) IS2_Acenaphthene-d10	7.754	164	88783	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	104.48%		
100) IS2_Phenanthrene-d10	9.184	188	197922	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	106.64%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.385	105	41223	5.437	ug/ml	94
29) Acetophenone	5.215	105	70057	5.235	ug/ml#	89
30) m-Toluidine	5.295	106	71135	5.283	ug/ml	95
31) 2-Chloroaniline	5.656	127	64773	5.480	ug/ml	95
58) a-Terpineol	6.104	59	48558	5.358	ug/ml	91
59) 3-Chloroaniline	6.119	65	24790	5.348	ug/ml	79
60) 2,6-Dichlorophenol	6.147	162	54036	5.263	ug/ml#	87
61) 1-chloro-2-nitrobenzene	6.402	111	23047	5.307	ug/ml#	1
62) Caprolactam	6.436	55	26539	5.030	ug/ml#	82
63) 1,2,4,5-Tetrachloroben...	6.918	216	72187	5.212	ug/ml	97
64) Biphenyl	7.210	154	153392	5.174	ug/ml	98
86) Dichloran	8.879	206	21727	4.772	ug/ml#	61
87) Pentachloronitrobenzene	9.028	237	21946	5.360	ug/ml#	80
101) Diphenamid	10.082	167	125299	5.437	ug/ml#	78

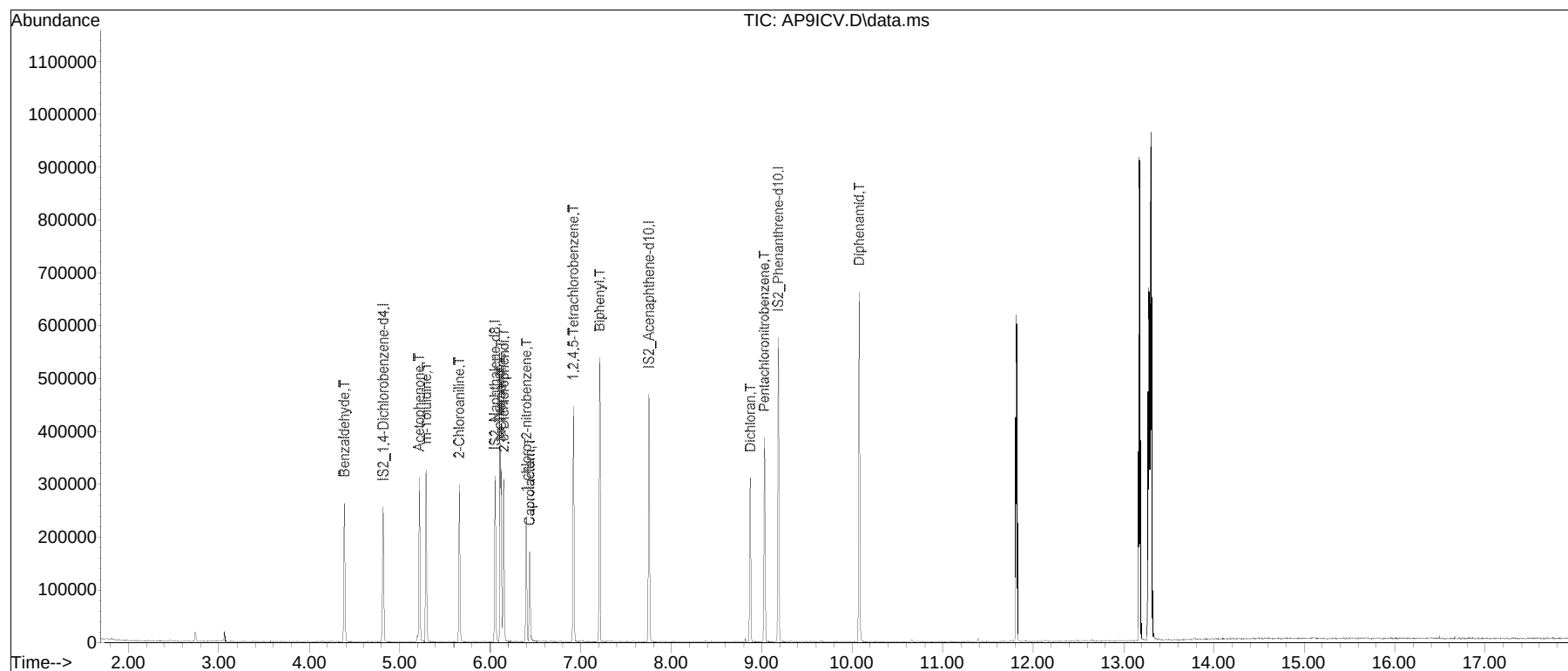
(#) = qualifier out of range (m) = manual integration (+) = signals summed

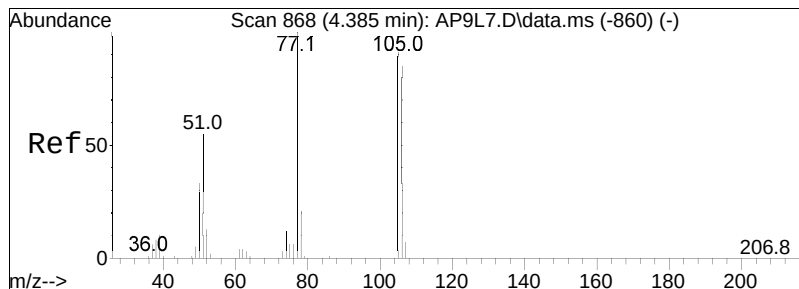
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9ICV.D
 Acq On : 17 Apr 2025 12:36 am
 Operator : Dakota:HNY
 Sample : CQICV2,32,,AP9ICV Lot# 11560
 Misc : WG2055280
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 17 15:24:26 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•





#28

Benzaldehyde

Concen: 5.44 ug/ml

RT: 4.385 min Scan# 868

Delta R.T. -0.000 min

Lab File: AP9ICV.D

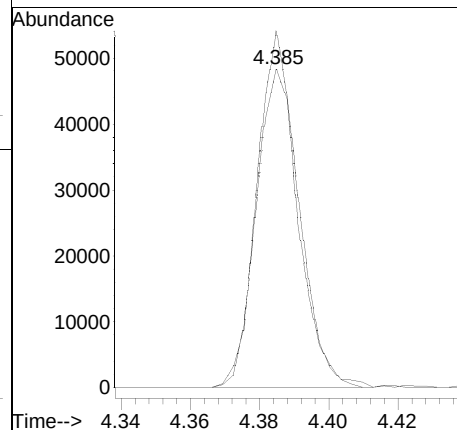
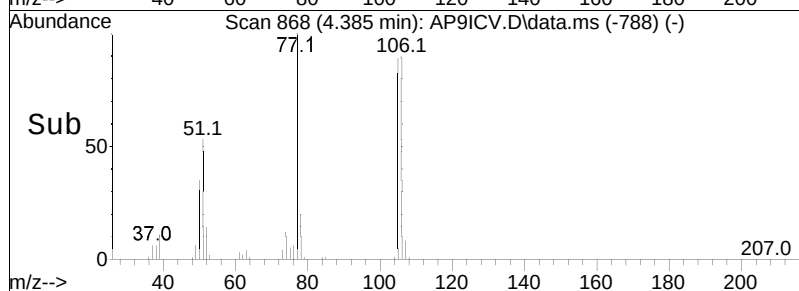
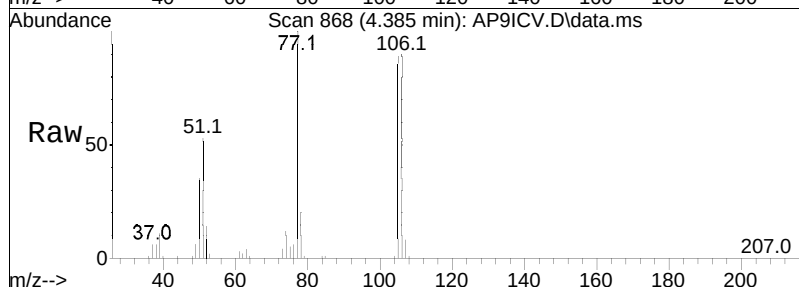
Acq: 17 Apr 2025 12:36 am

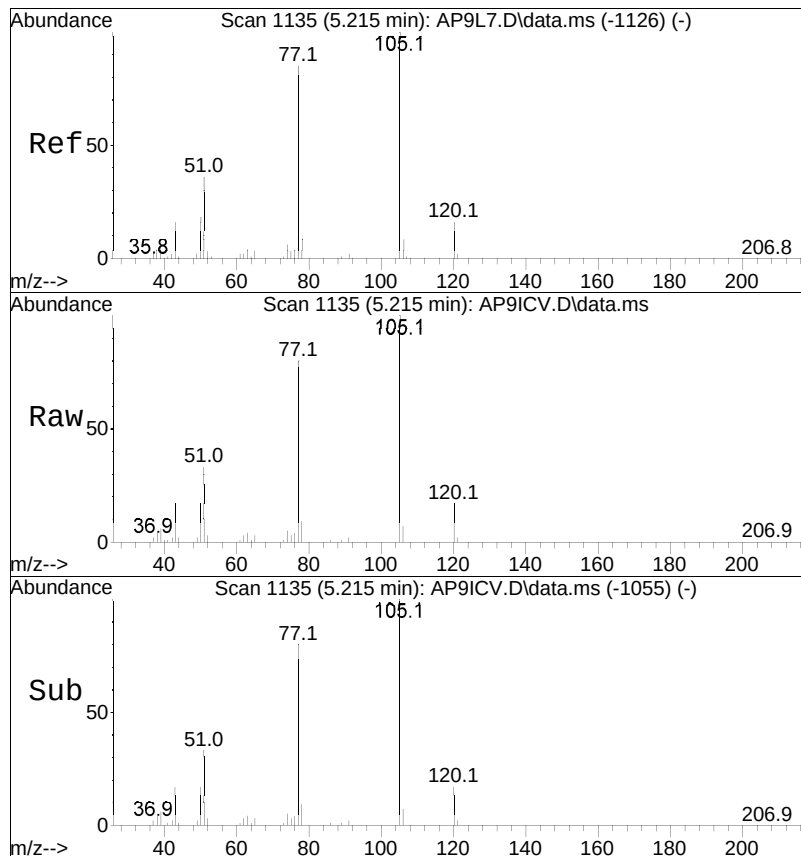
Tgt Ion:105 Resp: 41223

Ion Ratio Lower Upper

105 100

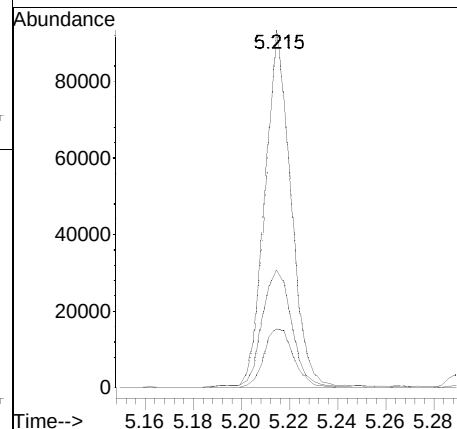
77 108.9 82.2 123.4

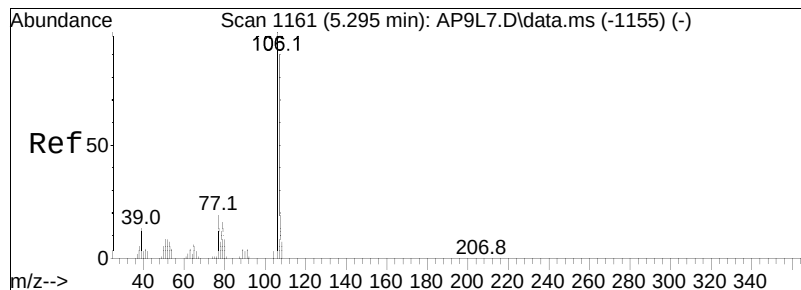




#29
 Acetophenone
 Concen: 5.23 ug/ml
 RT: 5.215 min Scan# 1135
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

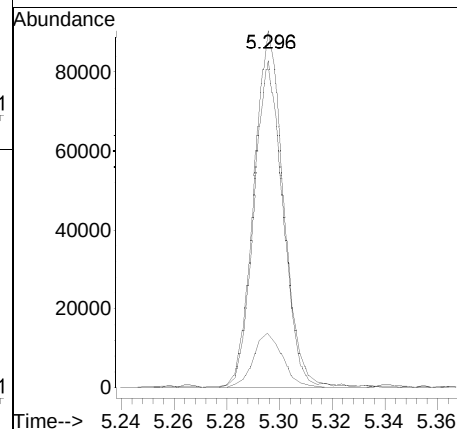
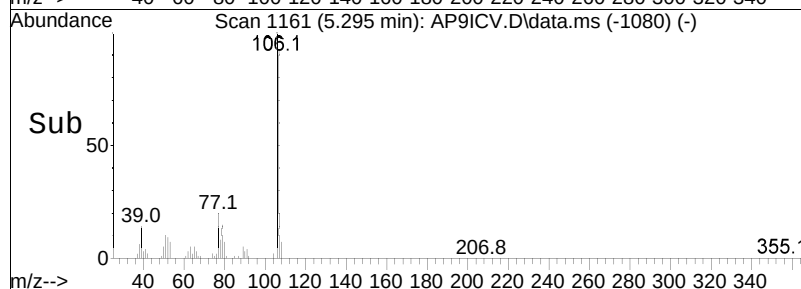
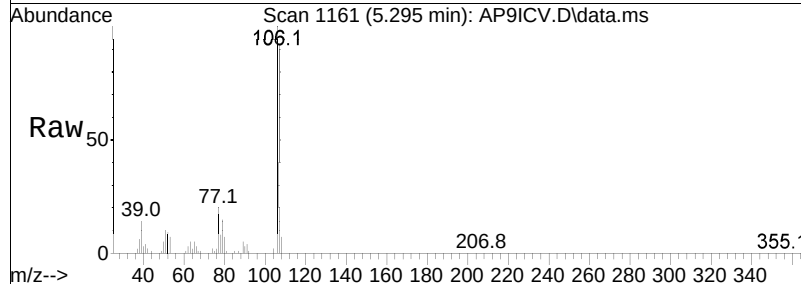
Tgt	Ion	Ratio	Resp	Lower	Upper
105	105	100	70057		
120	120	18.6		20.5	30.7#
51	51	37.7		34.9	52.3

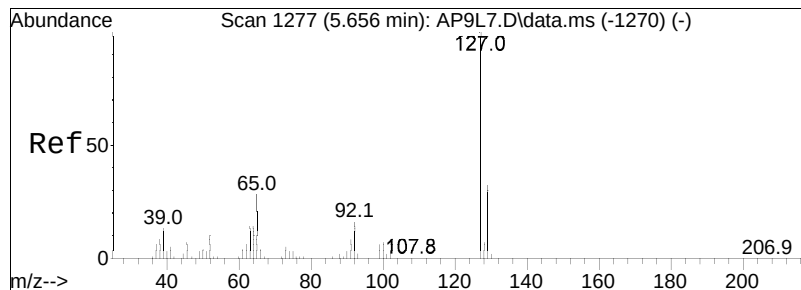




#30
 m-Toluidine
 Concen: 5.28 ug/ml
 RT: 5.295 min Scan# 1161
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

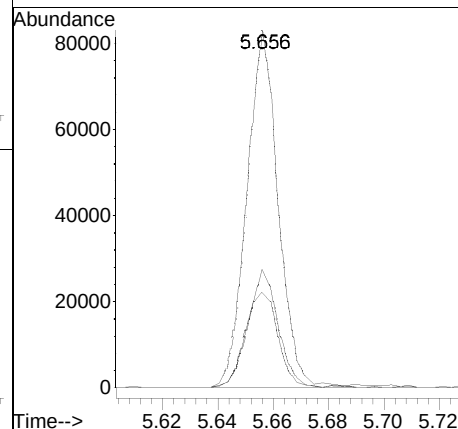
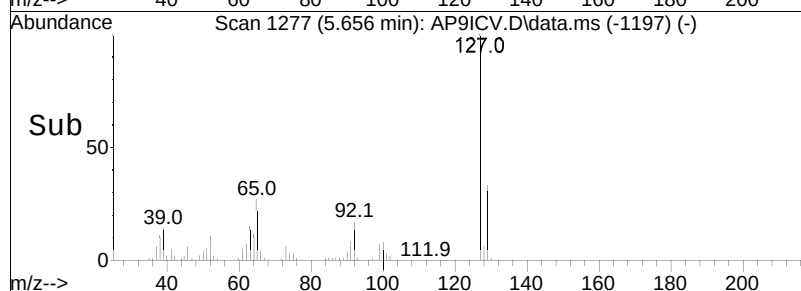
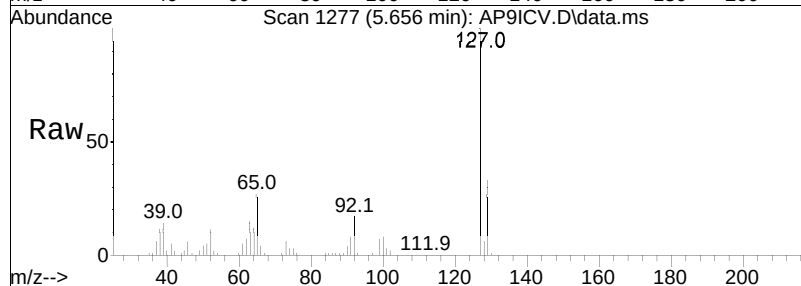
Tgt Ion	Ratio	Lower	Upper
106	100		
107	89.0	75.7	113.5
79	15.0	11.8	17.8

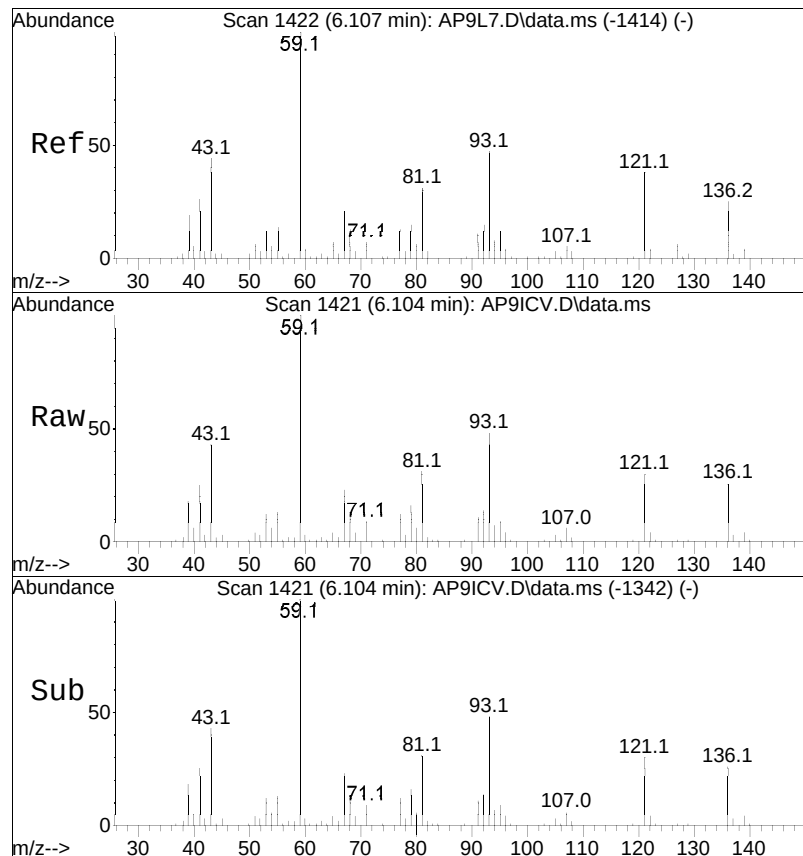




#31
 2-Chloroaniline
 Concen: 5.48 ug/ml
 RT: 5.656 min Scan# 1277
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

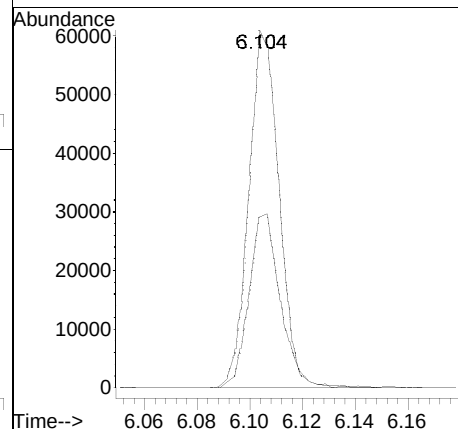
Tgt Ion	Ratio	Resp	Lower	Upper
127	100	64773		
129	31.6		25.9	38.9
65	28.0		26.3	39.5

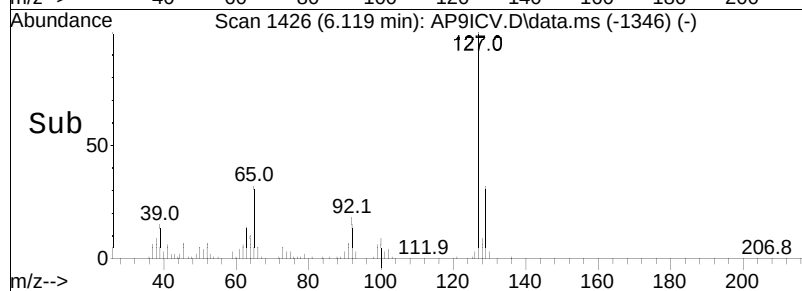
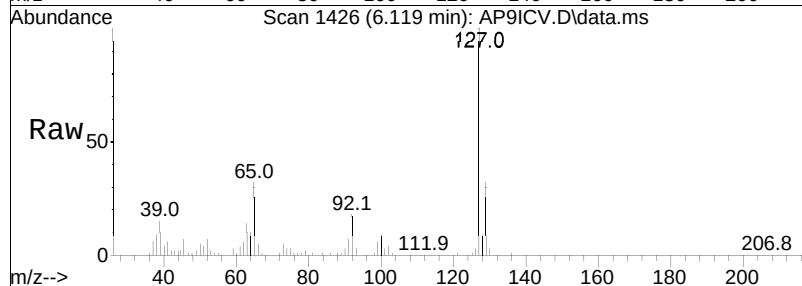
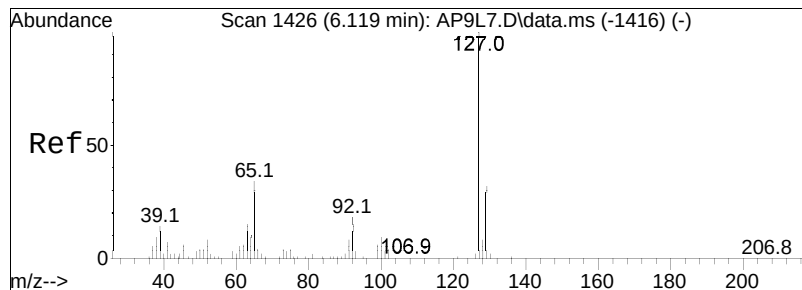




#58
 a-Terpineol
 Concen: 5.36 ug/ml
 RT: 6.104 min Scan# 1421
 Delta R.T. -0.003 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

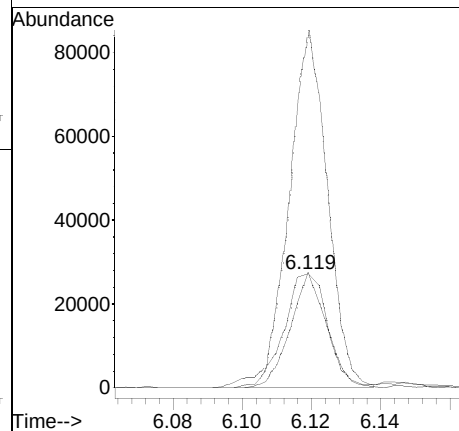
Tgt Ion:	59	93	Ratio	Lower	Upper
Resp:	48558				
	100				
		50.1		35.6	53.4

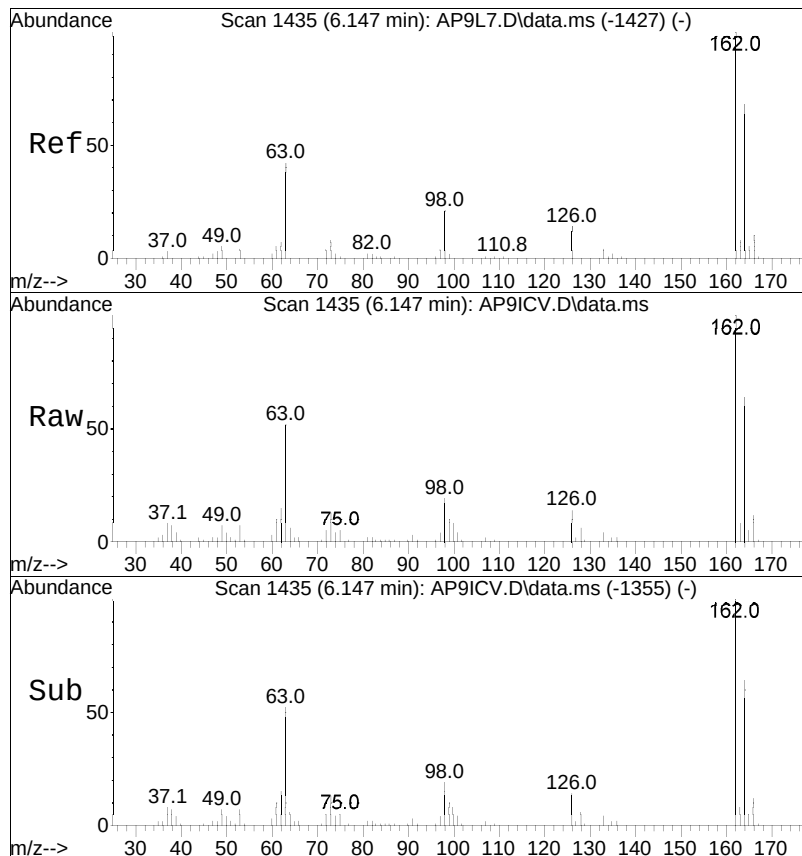




#59
 3-Chloroaniline
 Concen: 5.35 ug/ml
 RT: 6.119 min Scan# 1426
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

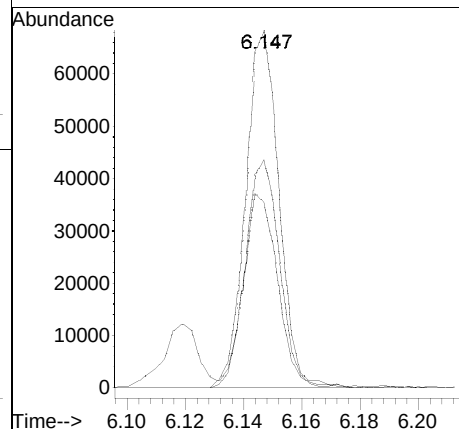
Tgt Ion:	65	Resp:	24790
Ion Ratio	Lower	Upper	
65	100		
127	260.7	243.2	364.8
129	80.2	78.8	118.2

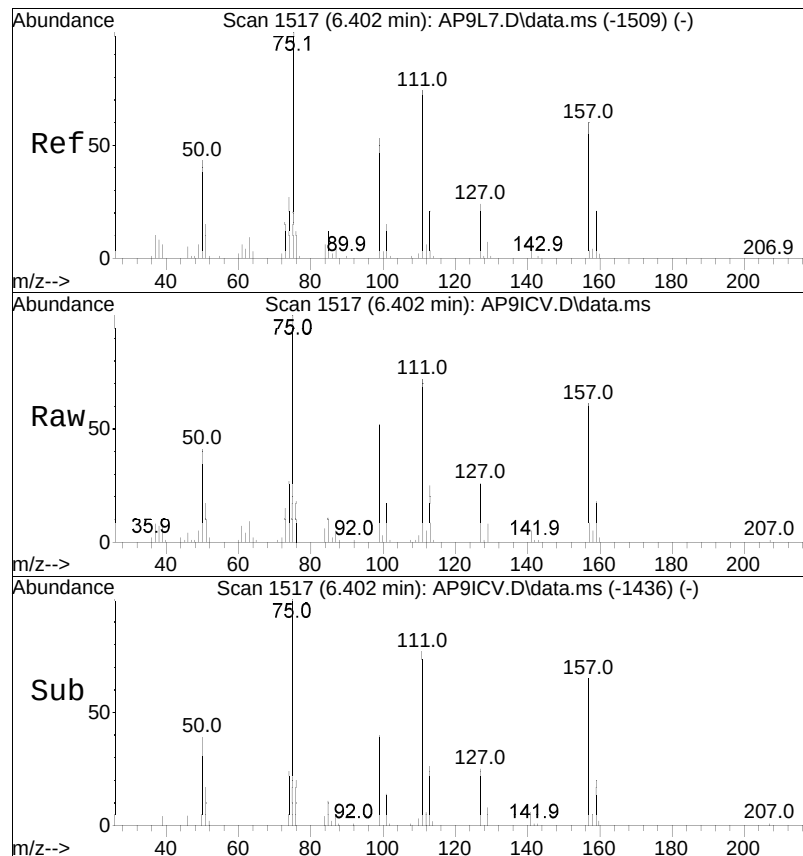




#60
 2,6-Dichlorophenol
 Concen: 5.26 ug/ml
 RT: 6.147 min Scan# 1435
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

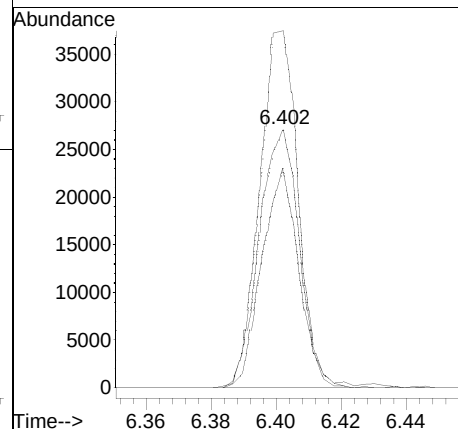
Tgt Ion	Ratio	Lower	Upper
162	100		
164	65.2	51.1	76.7
63	55.9	60.8	91.2#

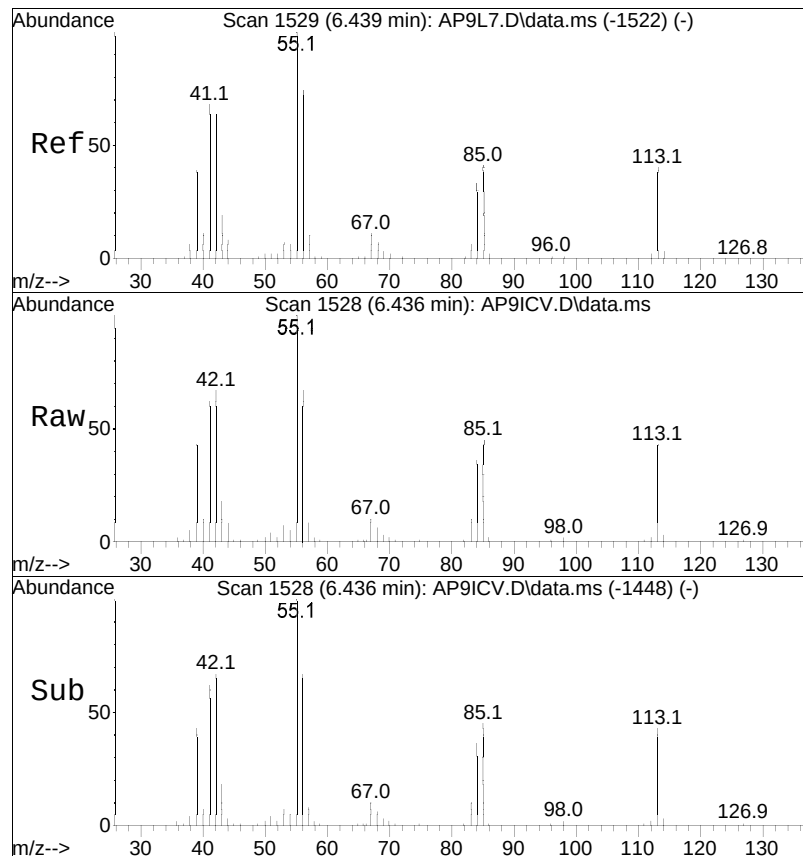




#61
 1-chloro-2-nitrobenzene
 Concen: 5.31 ug/ml
 RT: 6.402 min Scan# 1517
 Delta R.T. 0.003 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

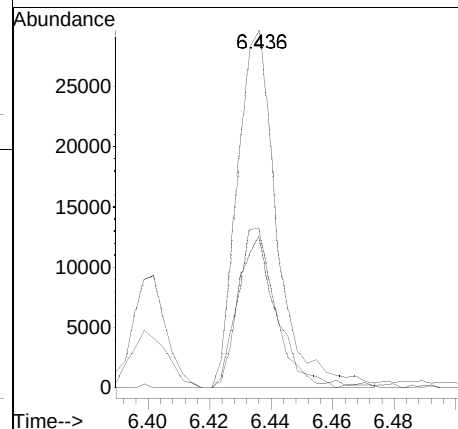
Tgt	Ion	Ratio	Resp	Lower	Upper
111	100		23047		
157	77.9	0.0	0.0#		
75	133.7	28.2	42.2#		

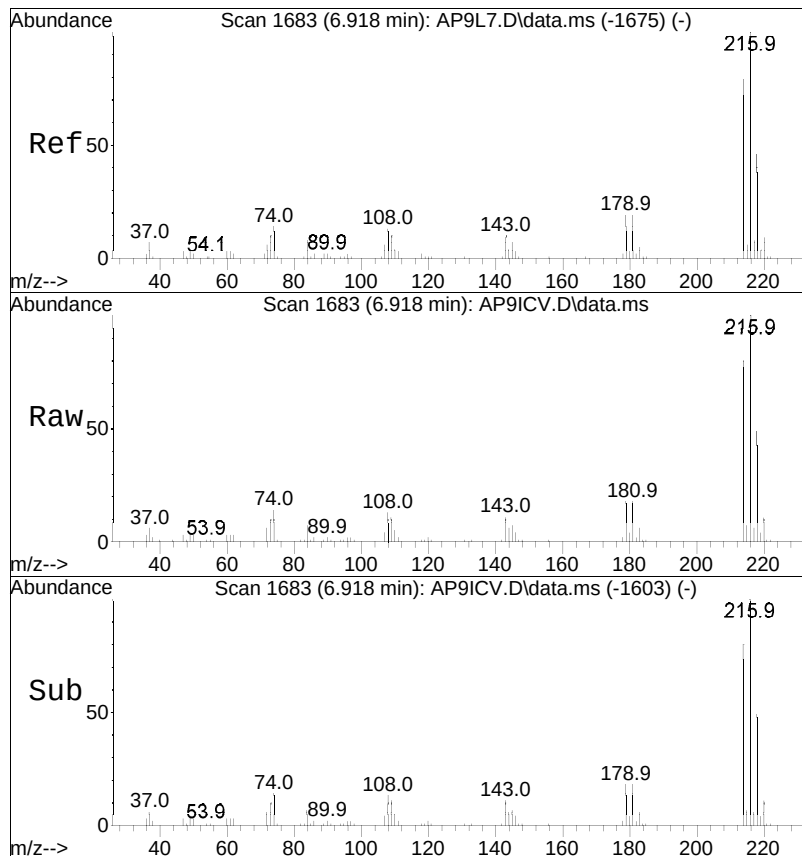




#62
 Caprolactam
 Concen: 5.03 ug/ml
 RT: 6.436 min Scan# 1528
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

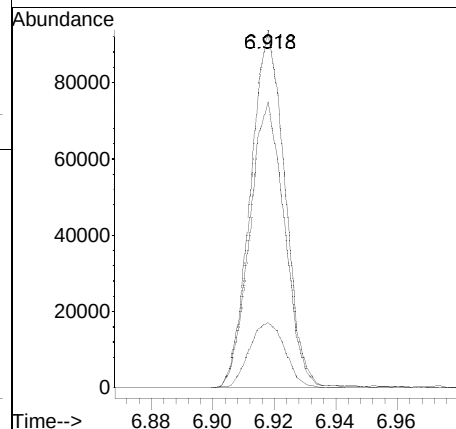
Tgt	Ion:	55	Resp:	26539
Ion	Ratio	Lower	Upper	
55	100			
85	44.0	19.8	29.6#	
113	39.7	29.6	44.4	

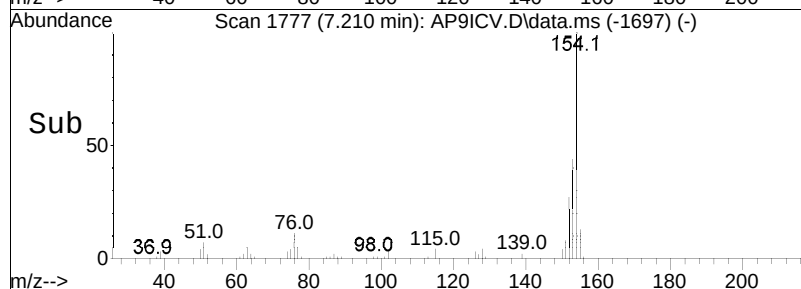
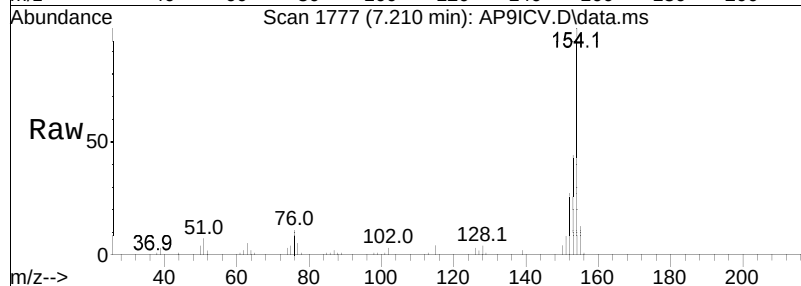
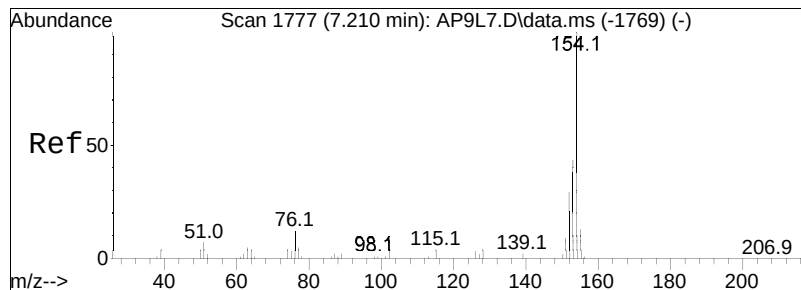




#63
 1,2,4,5-Tetrachlorobenzene
 Concen: 5.21 ug/ml
 RT: 6.918 min Scan# 1683
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

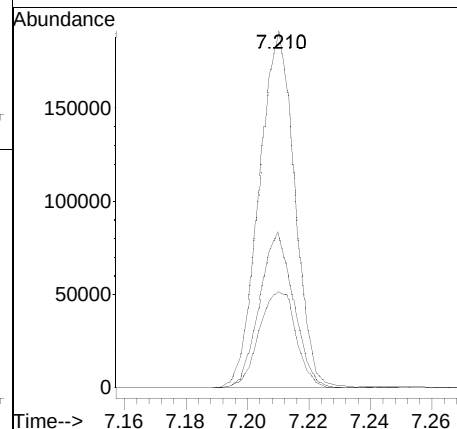
Tgt Ion	Ratio	Resp	Lower	Upper
216	100	72187		
214	80.9		63.7	95.5
179	19.2		19.0	28.6

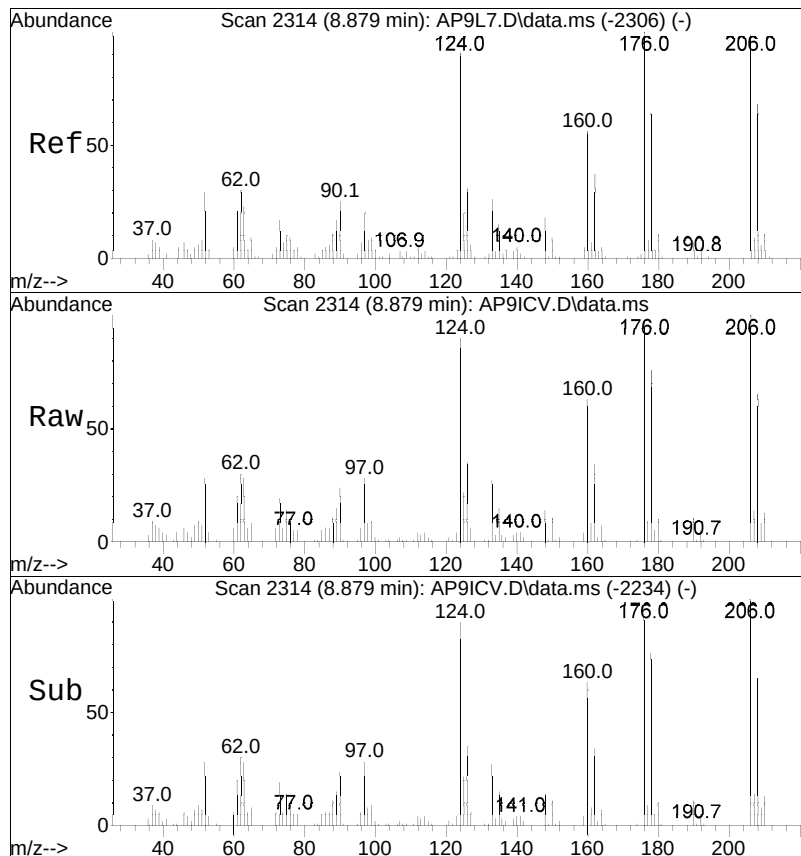




#64
 Biphenyl
 Concen: 5.17 ug/ml
 RT: 7.210 min Scan# 1777
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

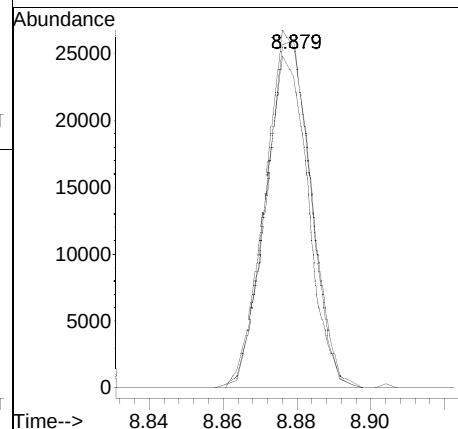
Tgt	Ion:154	Resp:	153392
Ion	Ratio	Lower	Upper
154	100		
153	41.9	32.3	48.5
152	28.3	22.5	33.7

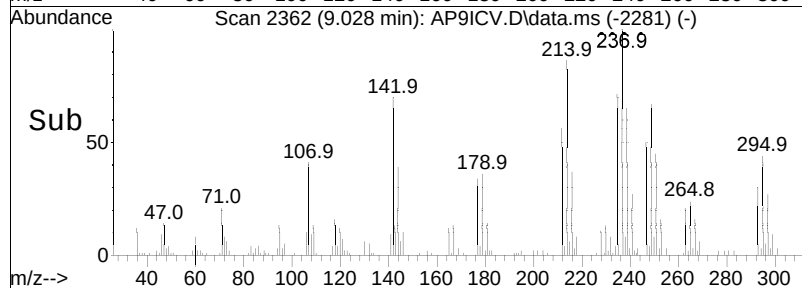
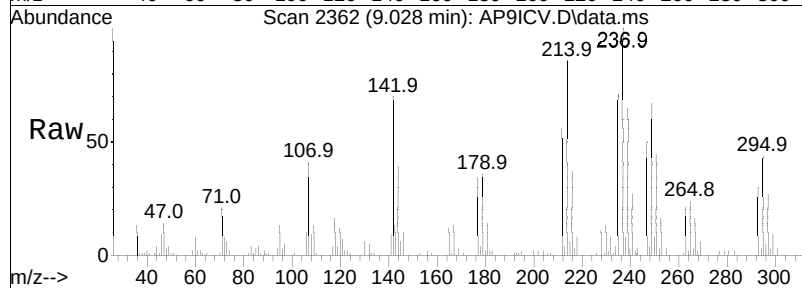
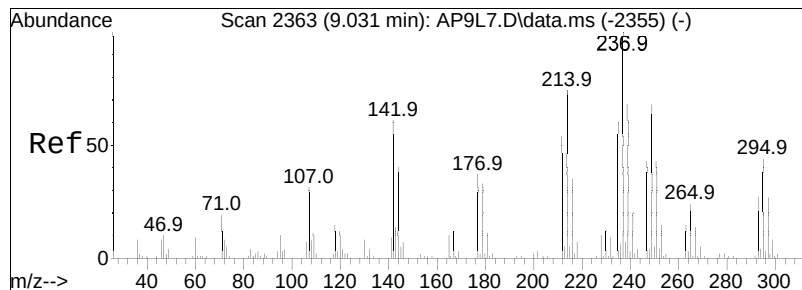




#86
 Dichloran
 Concen: 4.77 ug/ml
 RT: 8.879 min Scan# 2314
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

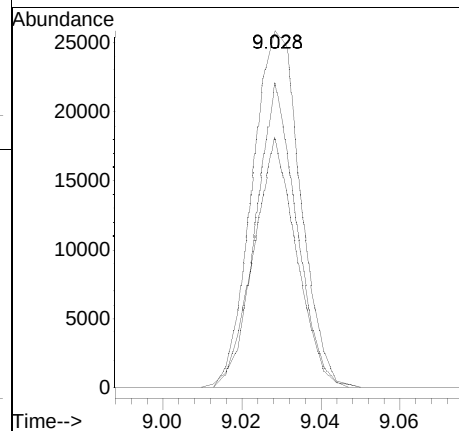
Tgt	Ion	Ratio	Lower	Upper
206	100			
176	103.8	104.6	157.0#	
124	94.4	130.5	195.7#	

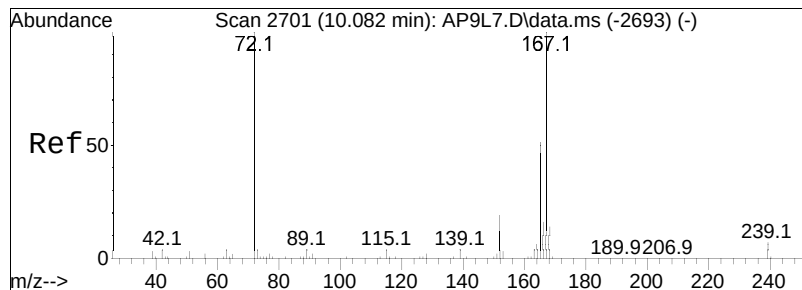




#87
 Pentachloronitrobenzene
 Concen: 5.36 ug/ml
 RT: 9.028 min Scan# 2362
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

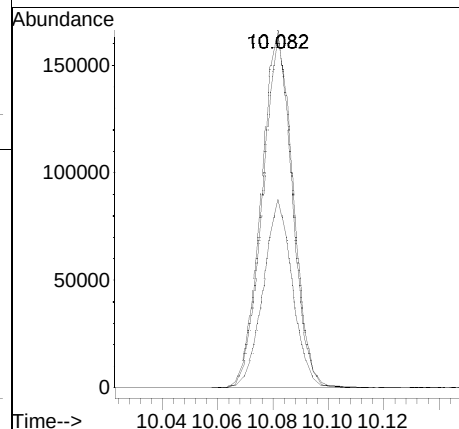
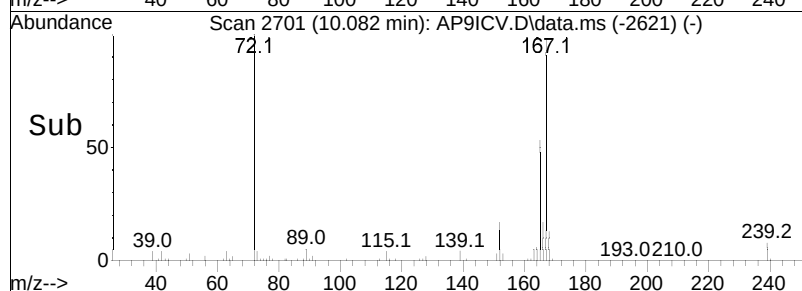
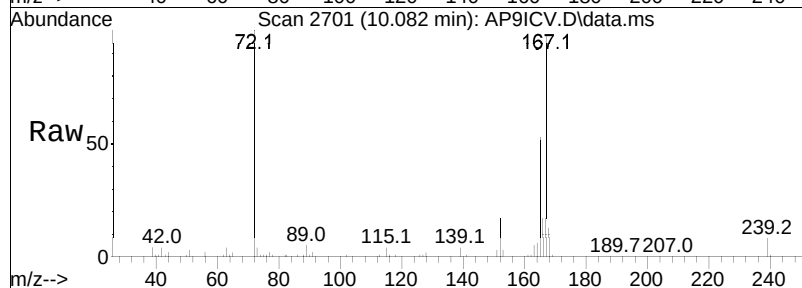
Tgt Ion	Ratio	Lower	Upper
237	100		
142	61.8	77.0	115.4#
214	72.6	58.2	87.4





#101
Diphenamid
Concen: 5.44 ug/ml
RT: 10.082 min Scan# 2701
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 17 Apr 2025 12:36 am

Tgt Ion	Ratio	Lower	Upper
167	100		
72	101.5	109.7	164.5#
165	51.6	41.8	62.6



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : AP9ICV.D Operator : Dakota: HNY
Date Inj'd : 4/17/2025 12:36 am Instrument : Dakota
Sample : CQICV2,32,,AP9ICV Lot# 115 Quant Date : 4/17/2025 3:25 pm

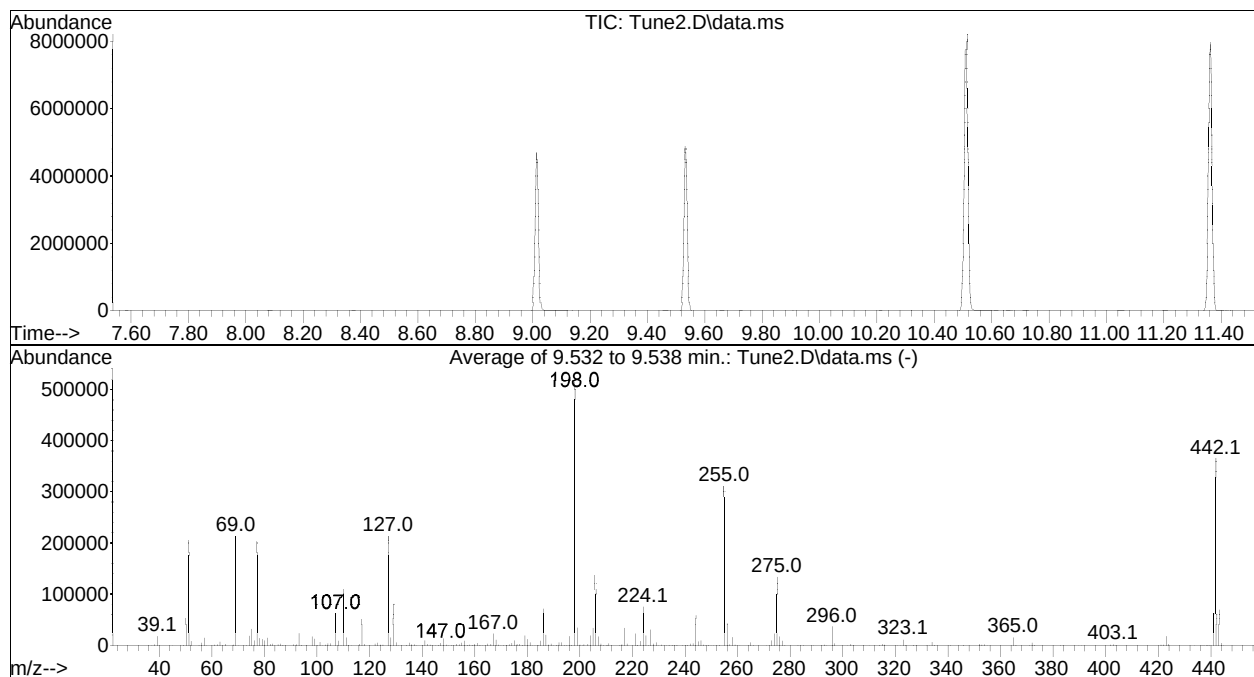
There are no manual integrations or false positives in this file.

DFTPP

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : Tune2.D
Acq On : 17 Apr 2025 12:58 am
Operator : Dakota:HNY
Sample : Tune2 Lot # 11483
Misc : WG2055280
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Apr 17 14:28:59 2025



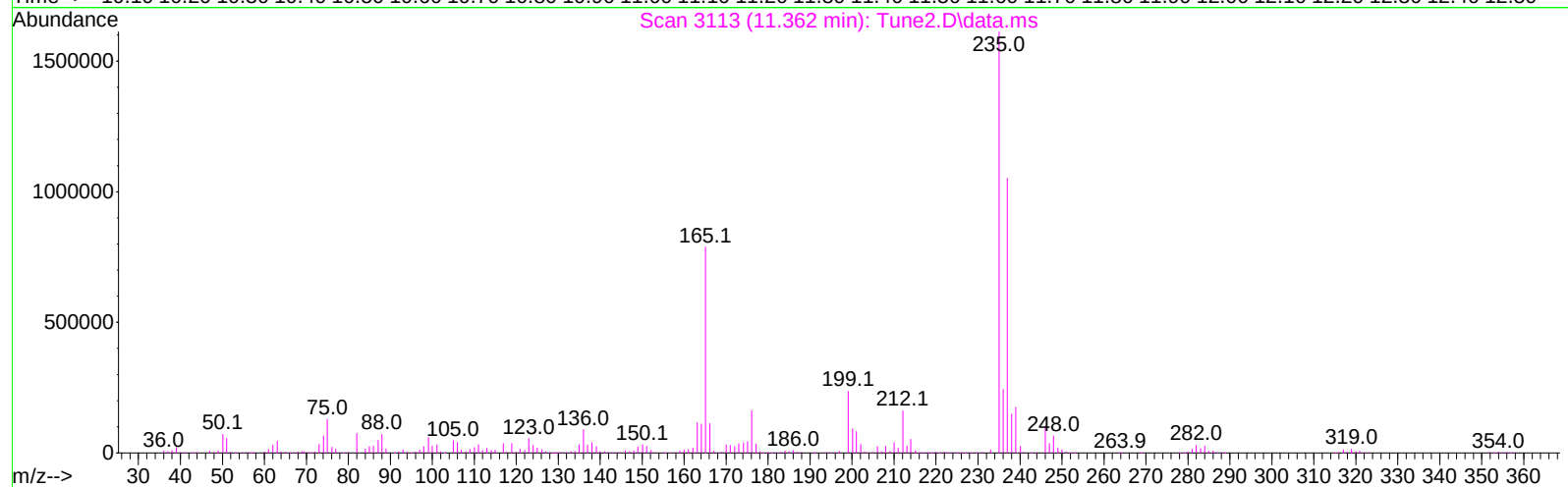
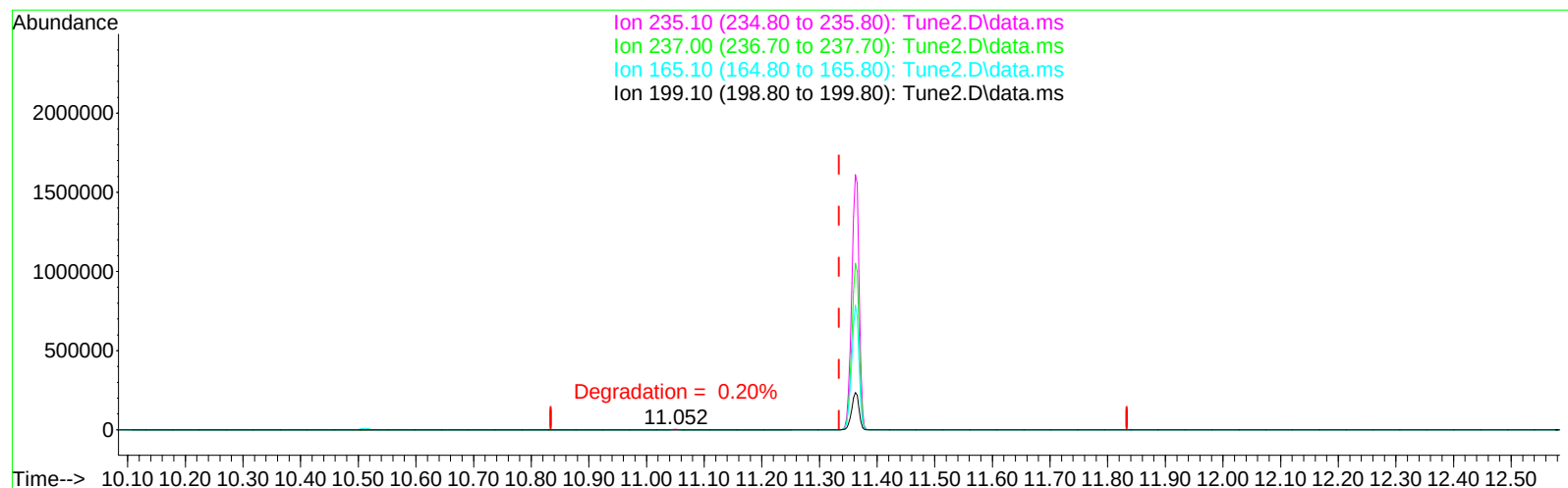
Spectrum Information: Average of 9.532 to 9.538 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.6	204160	PASS
68	69	0.00	2	1.2	2570	PASS
69	69	100	100	100.0	213504	PASS
70	69	0.00	2	0.4	832	PASS
127	198	10	80	41.4	213355	PASS
197	198	0.00	2	0.4	1955	PASS
198	198	100	100	100.0	515371	PASS
199	198	5	9	6.5	33749	PASS
275	198	10	60	25.9	133491	PASS
365	198	1	100	3.0	15543	PASS
441	442	0.01	24	17.2	62736	PASS
442	198	50	100	70.6	364011	PASS
443	442	15	24	19.2	69787	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : Tune2.D
 Acq On : 17 Apr 2025 12:58 am
 Operator : Dakota:HNY
 Sample : Tune2 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Apr 17 06:07:03 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\DftppDakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Apr 04 07:50:11 2025
 Response via : Initial Calibration



CHROMtools™ [Tune2 Lot # 11483]

(6) DDT (T)

11.362min (+ 0.028) 239.10

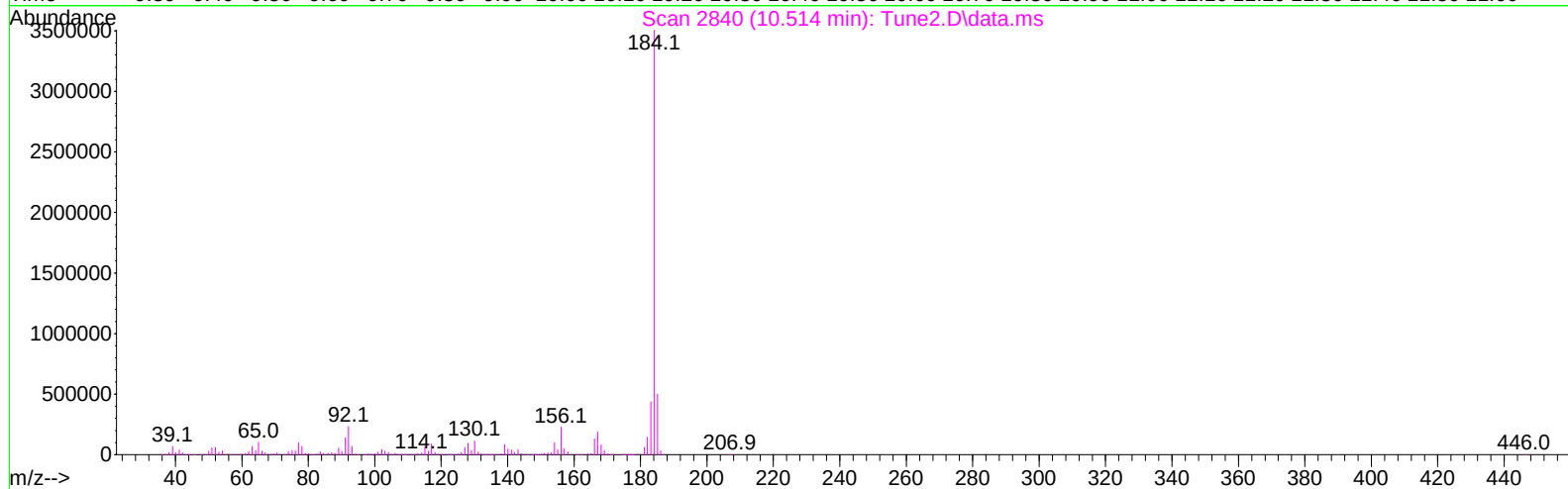
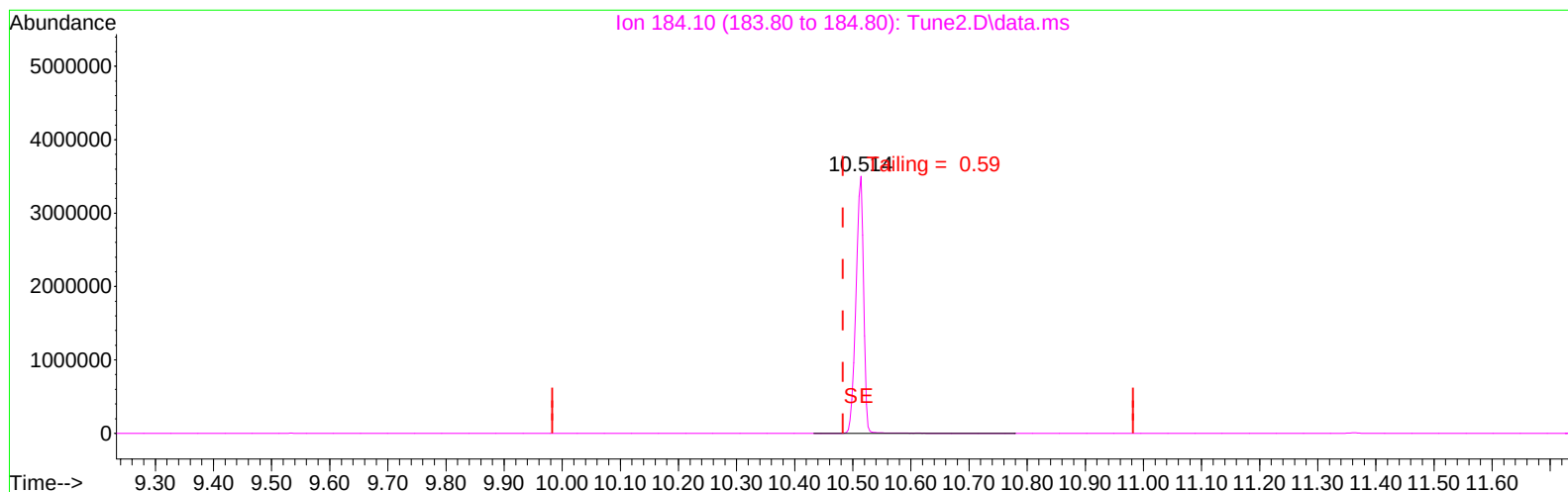
response 1457512

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.90	64.79
165.10	48.70	47.58
199.10	15.80	14.40

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : Tune2.D
 Acq On : 17 Apr 2025 12:58 am
 Operator : Dakota:HNY
 Sample : Tune2 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Apr 17 06:07:03 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\DftppDakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Apr 04 07:50:11 2025
 Response via : Initial Calibration



CHROMtools™ [Tune2 Lot # 11483]

(3) Benzidine (T)

10.514min (+ 0.031) 313.66

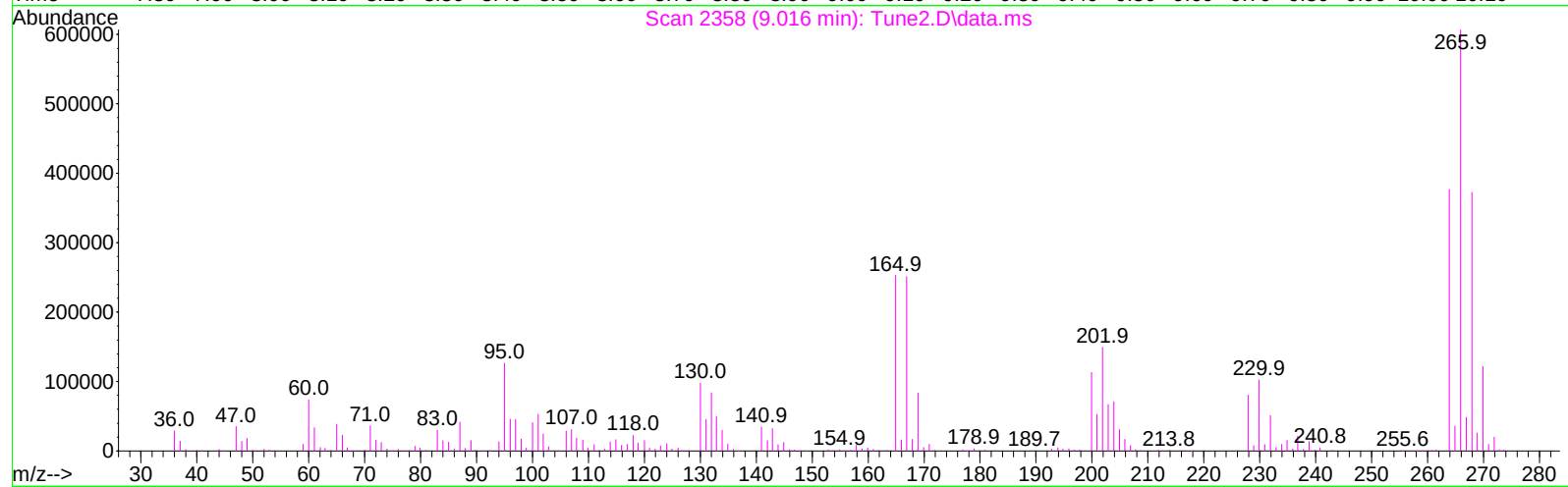
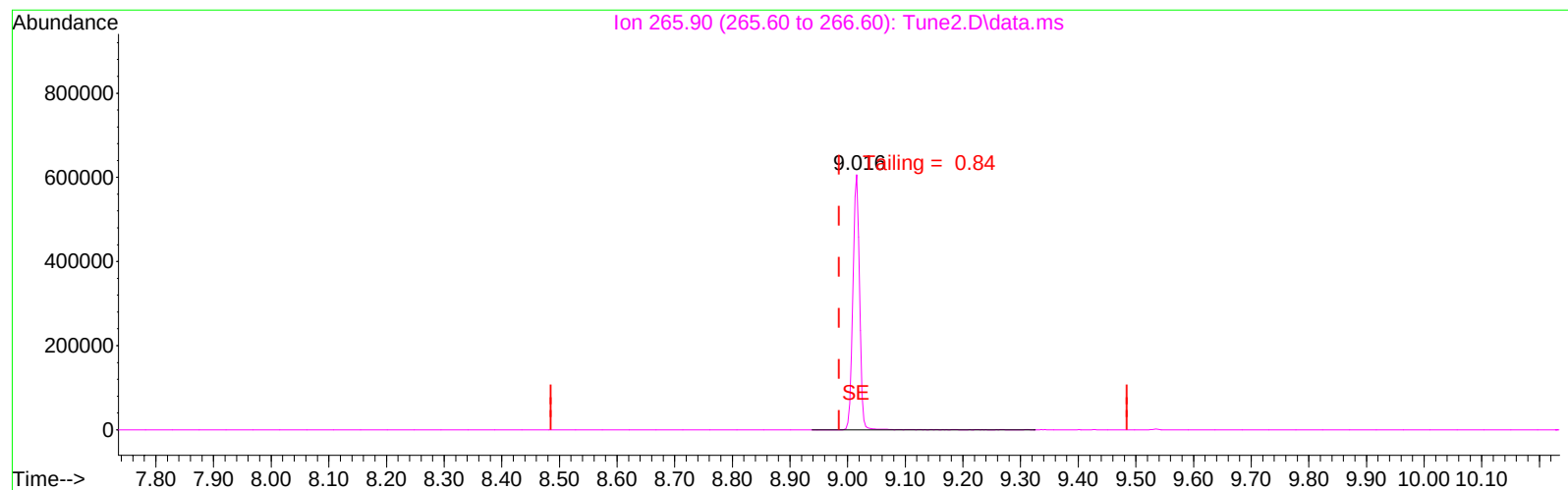
response 3193124

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\Dakota\250416RVTICAL\
 Data File : Tune2.D
 Acq On : 17 Apr 2025 12:58 am
 Operator : Dakota:HNY
 Sample : Tune2 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Apr 17 06:07:03 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\DftppDakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Apr 04 07:50:11 2025
 Response via : Initial Calibration



CHROMtools™ [Tune2 Lot # 11483]

(1) Pentachlorophenol (T)

9.016min (+ 0.031) 232.56

response 488454

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 (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL9.D
 Acq On : 17 Apr 2025 1:20 am
 Operator : Dakota:HNY
 Sample : IL2,32,,ADPL50 Lot# 11550
 Misc : WG2055280
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 17 15:24:14 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	36691	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery =	101.56%		
88) IS3_Acenaphthene-d10	7.754	164	91131	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery =	103.88%		
102) IS3_Phenanthrene-d10	9.184	188	211362	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery =	111.44%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.904	88	189620	48.011	ug/ml#	73
34) n-Nitrosodiethylamine	3.763	102	209523	55.622	ug/ml#	32
35) n-Decane	4.705	57	608630	49.327	ug/ml#	28
36) n-Nitrosopyrrolidine	5.187	100	262592	55.223	ug/ml#	48
89) Atrazine	8.957	200	547903	56.788	ug/ml	92
103) n-Octadecane	9.156	57	1050269	50.652	ug/ml#	1
104) Parathion	9.964	109	335373	49.563	ug/ml	92
105) 3,3'-Dimethylbenzidine	11.254	212	2678307	51.549	ug/ml	98

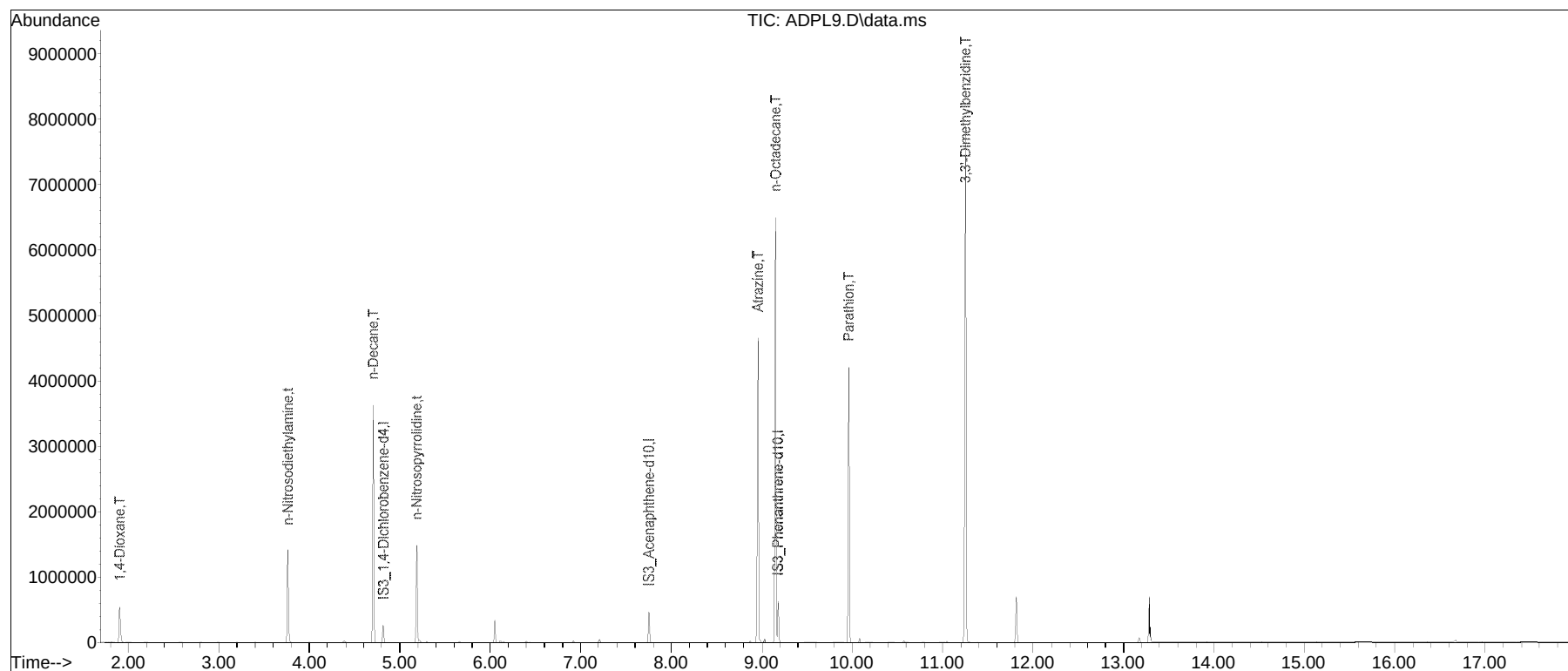
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL9.D
 Acq On : 17 Apr 2025 1:20 am
 Operator : Dakota:HNY
 Sample : IL2,32,,ADPL50 Lot# 11550
 Misc : WG2055280
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 17 15:24:14 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPL9.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 1:20 am Instrument : Dakota
Sample : IL2,32,,ADPL50 Lot# 11550 Quant Date : 4/17/2025 3:25 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL8.D
 Acq On : 17 Apr 2025 1:43 am
 Operator : Dakota:HNY
 Sample : IL3,32,,ADPL25 Lot# 11551
 Misc : WG2055280
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 17 15:24:03 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	41099	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery	=	113.77%	
88) IS3_Acenaphthene-d10	7.754	164	97232	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery	=	110.83%	
102) IS3_Phenanthrene-d10	9.184	188	220283	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery	=	116.15%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.904	88	101169	22.868	ug/ml#	71
34) n-Nitrosodiethylamine	3.760	102	110747	26.247	ug/ml#	30
35) n-Decane	4.705	57	325583	23.557	ug/ml#	27
36) n-Nitrosopyrrolidine	5.184	100	142132	26.684	ug/ml#	50
89) Atrazine	8.954	200	284209	27.609	ug/ml	92
103) n-Octadecane	9.153	57	558447	25.842	ug/ml#	1
104) Parathion	9.964	109	164277	26.267	ug/ml	93
105) 3,3'-Dimethylbenzidine	11.247	212	1326899	24.910	ug/ml	98

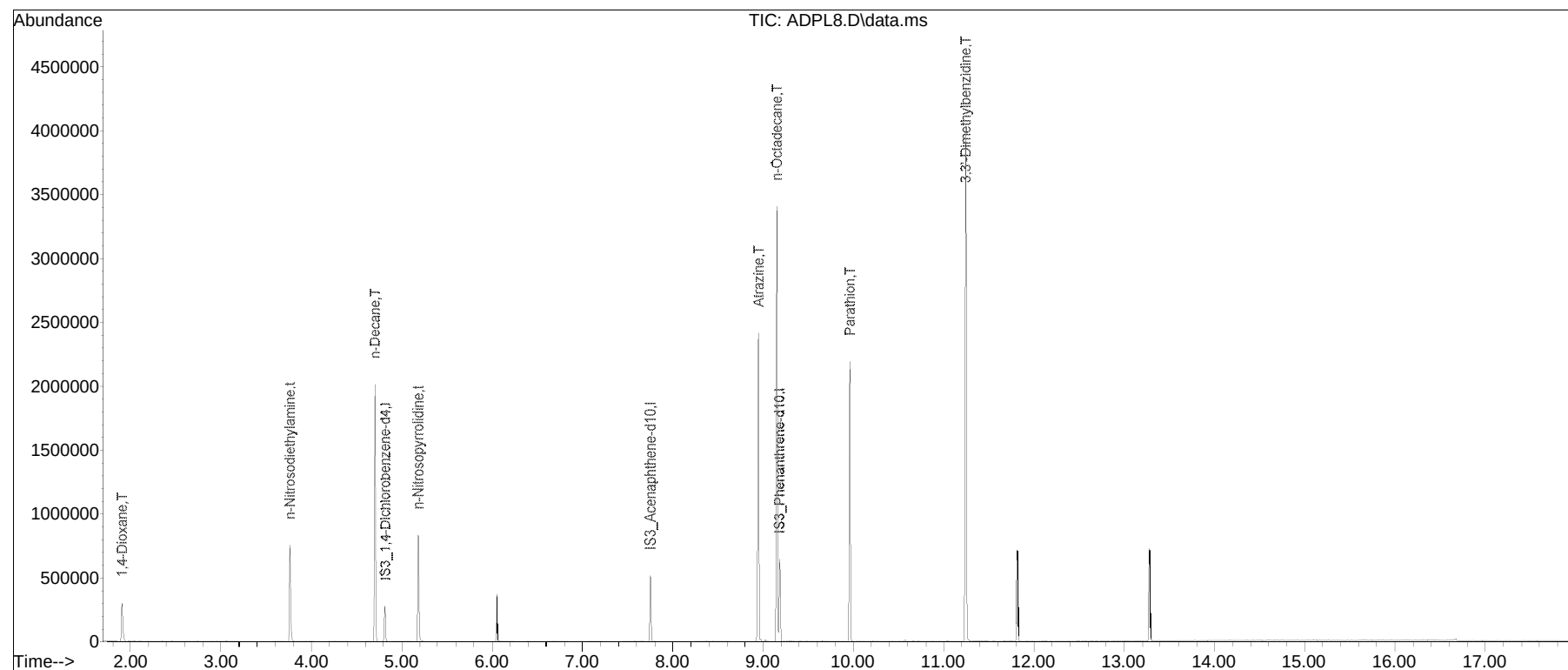
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL8.D
 Acq On : 17 Apr 2025 1:43 am
 Operator : Dakota:HNY
 Sample : IL3,32,,ADPL25 Lot# 11551
 Misc : WG2055280
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 17 15:24:03 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPL8.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 1:43 am Instrument : Dakota
Sample : IL3,32,,ADPL25 Lot# 11551 Quant Date : 4/17/2025 3:24 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL7.D
 Acq On : 17 Apr 2025 2:05 am
 Operator : Dakota:HNY
 Sample : IL4,32,,ADPL10 Lot# 11552
 Misc : WG2055280
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 17 15:23:51 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	39584	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery	=	109.57%	
88) IS3_Acenaphthene-d10	7.754	164	92323	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery	=	105.24%	
102) IS3_Phenanthrene-d10	9.184	188	210476	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery	=	110.98%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.907	88	39973	9.381	ug/ml#	71
34) n-Nitrosodiethylamine	3.763	102	43958	10.817	ug/ml#	32
35) n-Decane	4.705	57	129174	9.704	ug/ml#	26
36) n-Nitrosopyrrolidine	5.183	100	51784	10.094	ug/ml#	41
89) Atrazine	8.950	200	104041	10.644	ug/ml#	91
103) n-Octadecane	9.152	57	215536	10.439	ug/ml#	1
104) Parathion	9.961	109	51568	9.711	ug/ml	90
105) 3,3'-Dimethylbenzidine	11.247	212	433618	9.029	ug/ml	98

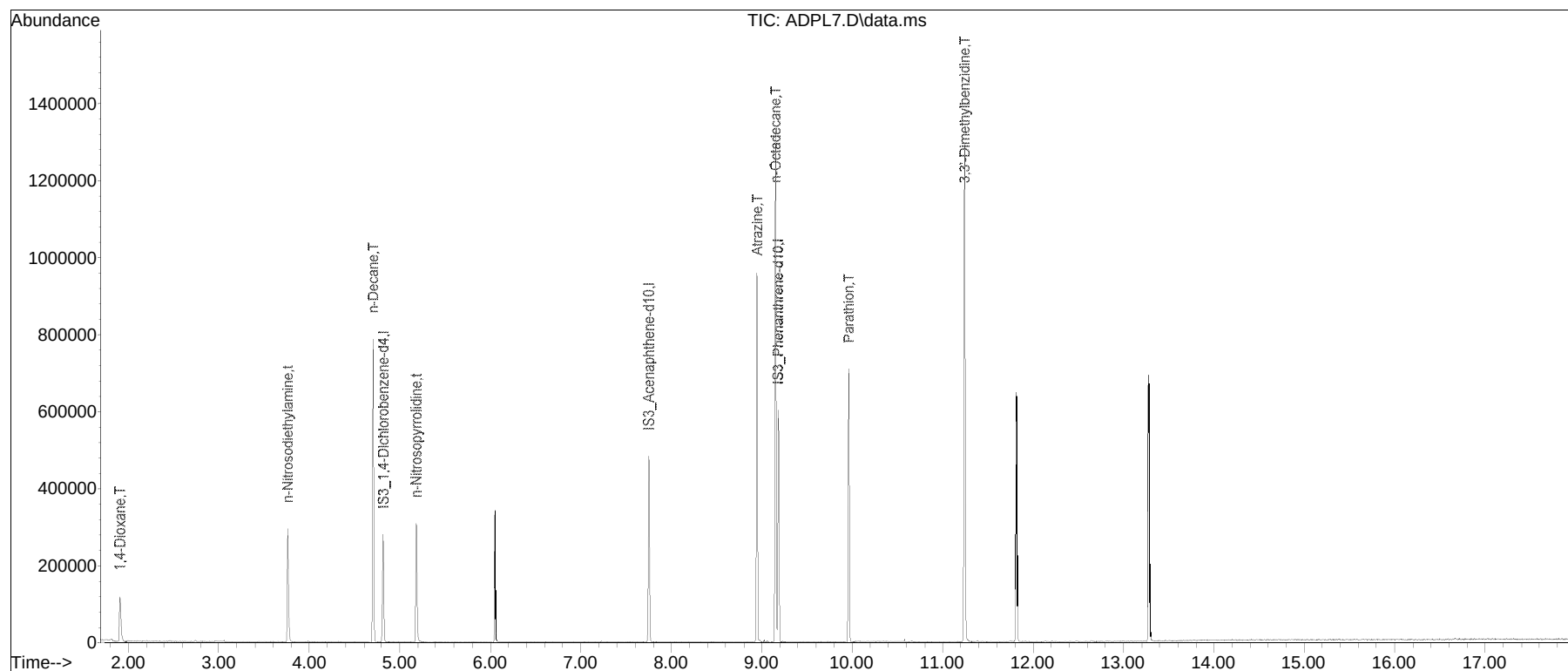
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL7.D
 Acq On : 17 Apr 2025 2:05 am
 Operator : Dakota:HNY
 Sample : IL4,32,,ADPL10 Lot# 11552
 Misc : WG2055280
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 17 15:23:51 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPL7.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 2:05 am Instrument : Dakota
Sample : IL4,32,,ADPL10 Lot# 11552 Quant Date : 4/17/2025 3:24 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL6.D
 Acq On : 17 Apr 2025 2:28 am
 Operator : Dakota:HNY
 Sample : IL5,32,,ADPL5 Lot# 11553
 Misc : WG2055280
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 17 15:23:41 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	36126	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery	=	100.00%	
88) IS3_Acenaphthene-d10	7.754	164	87730	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery	=	100.00%	
102) IS3_Phenanthrene-d10	9.184	188	189656	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.914	88	18695	4.808	ug/ml#	70
34) n-Nitrosodiethylamine	3.766	102	19468	5.249	ug/ml#	30
35) n-Decane	4.705	57	59368	4.887	ug/ml#	28
36) n-Nitrosopyrrolidine	5.187	100	22608	4.829	ug/ml#	44
89) Atrazine	8.947	200	43685	4.703	ug/ml	93
103) n-Octadecane	9.153	57	91802	4.934	ug/ml#	1
104) Parathion	9.961	109	19455	4.444	ug/ml	88
105) 3,3'-Dimethylbenzidine	11.244	212	169542	4.356	ug/ml	98

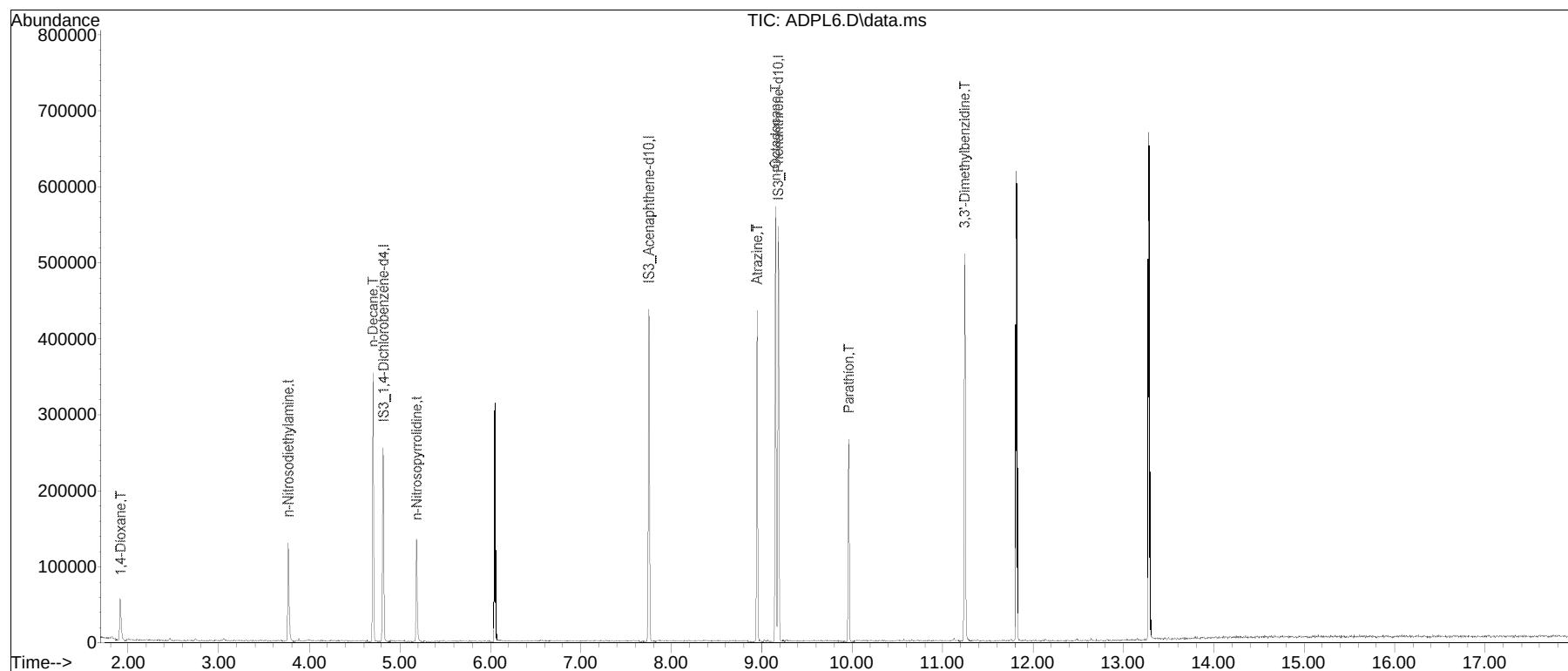
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL6.D
 Acq On : 17 Apr 2025 2:28 am
 Operator : Dakota:HNY
 Sample : IL5,32,,ADPL5 Lot# 11553
 Misc : WG2055280
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 17 15:23:41 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPL6.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 2:28 am Instrument : Dakota
Sample : IL5,32,,ADPL5 Lot# 11553 Quant Date : 4/17/2025 3:24 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL5.D
 Acq On : 17 Apr 2025 2:50 am
 Operator : Dakota:HNY
 Sample : IL6,32,,ADPL2.5 Lot# 11554
 Misc : WG2055280
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 17 15:23:30 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	36789	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery =	101.84%		
88) IS3_Acenaphthene-d10	7.754	164	81833	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery =	93.28%		
102) IS3_Phenanthrene-d10	9.184	188	184130	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery =	97.09%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.914	88	10325	2.607	ug/ml#	71
34) n-Nitrosodiethylamine	3.769	102	9401	2.489	ug/ml#	18
35) n-Decane	4.705	57	31853	2.575	ug/ml#	30
36) n-Nitrosopyrrolidine	5.187	100	11556	2.424	ug/ml#	37
89) Atrazine	8.948	200	21587	2.492	ug/ml	93
103) n-Octadecane	9.153	57	43493	2.408	ug/ml#	1
104) Parathion	9.958	109	8477	2.265	ug/ml	85
105) 3,3'-Dimethylbenzidine	11.248	212	76058	2.429	ug/ml	98

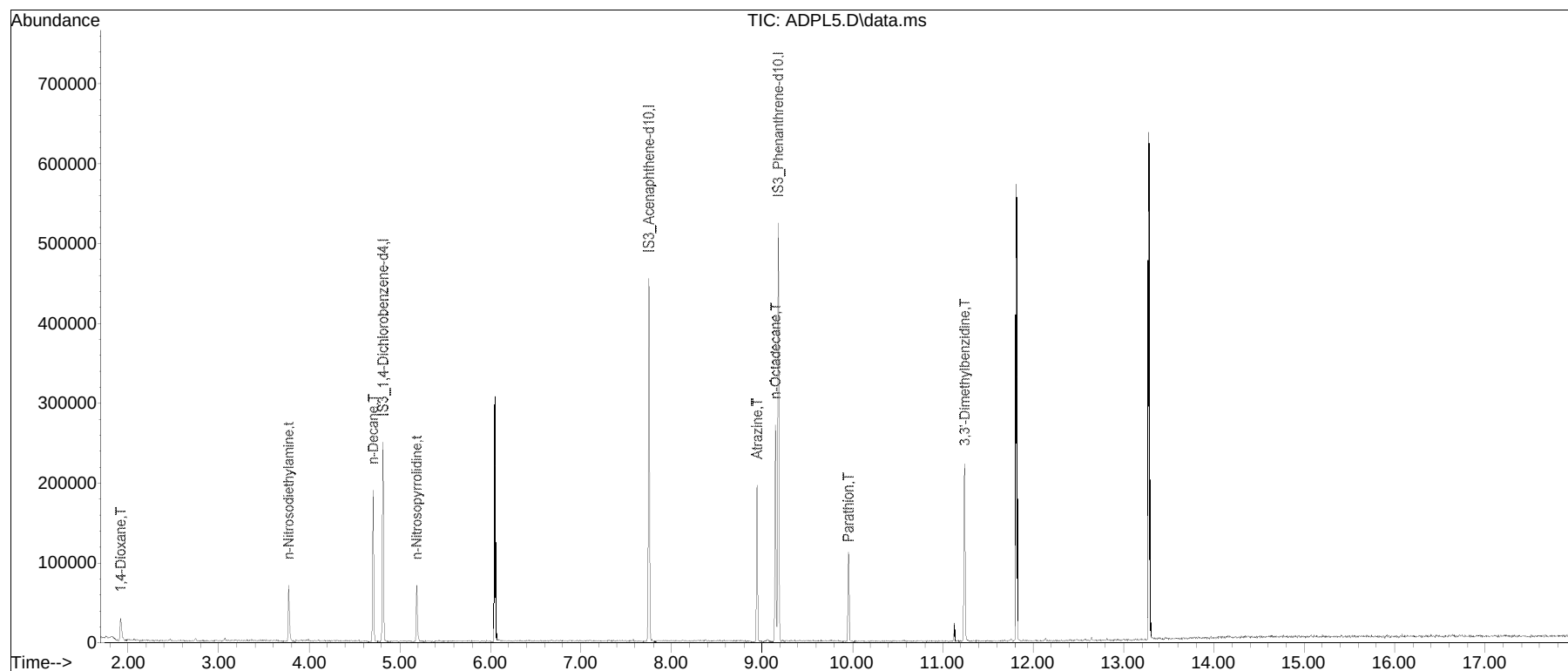
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL5.D
 Acq On : 17 Apr 2025 2:50 am
 Operator : Dakota:HNY
 Sample : IL6,32,,ADPL2.5 Lot# 11554
 Misc : WG2055280
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 17 15:23:30 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPL5.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 2:50 am Instrument : Dakota
Sample : IL6,32,,ADPL2.5 Lot# 11554 Quant Date : 4/17/2025 3:24 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL4.D
 Acq On : 17 Apr 2025 3:13 am
 Operator : Dakota:HNY
 Sample : IL7,32,,ADPL1 Lot# 11555
 Misc : WG2055280
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 17 15:23:20 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	37824	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery =	104.70%		
88) IS3_Acenaphthene-d10	7.754	164	86153	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery =	98.20%		
102) IS3_Phenanthrene-d10	9.184	188	193308	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery =	101.93%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.920	88	4482	1.101	ug/ml#	76
34) n-Nitrosodiethylamine	3.772	102	3977	1.024	ug/ml#	18
35) n-Decane	4.705	57	12821	1.008	ug/ml#	27
36) n-Nitrosopyrrolidine	5.190	100	5127	1.046	ug/ml#	43
89) Atrazine	8.944	200	8773	0.962	ug/ml	96
103) n-Octadecane	9.153	57	19082	1.006	ug/ml#	1
104) Parathion	9.961	109	3614	1.192	ug/ml	91
105) 3,3'-Dimethylbenzidine	11.247	212	21842	1.227	ug/ml	97

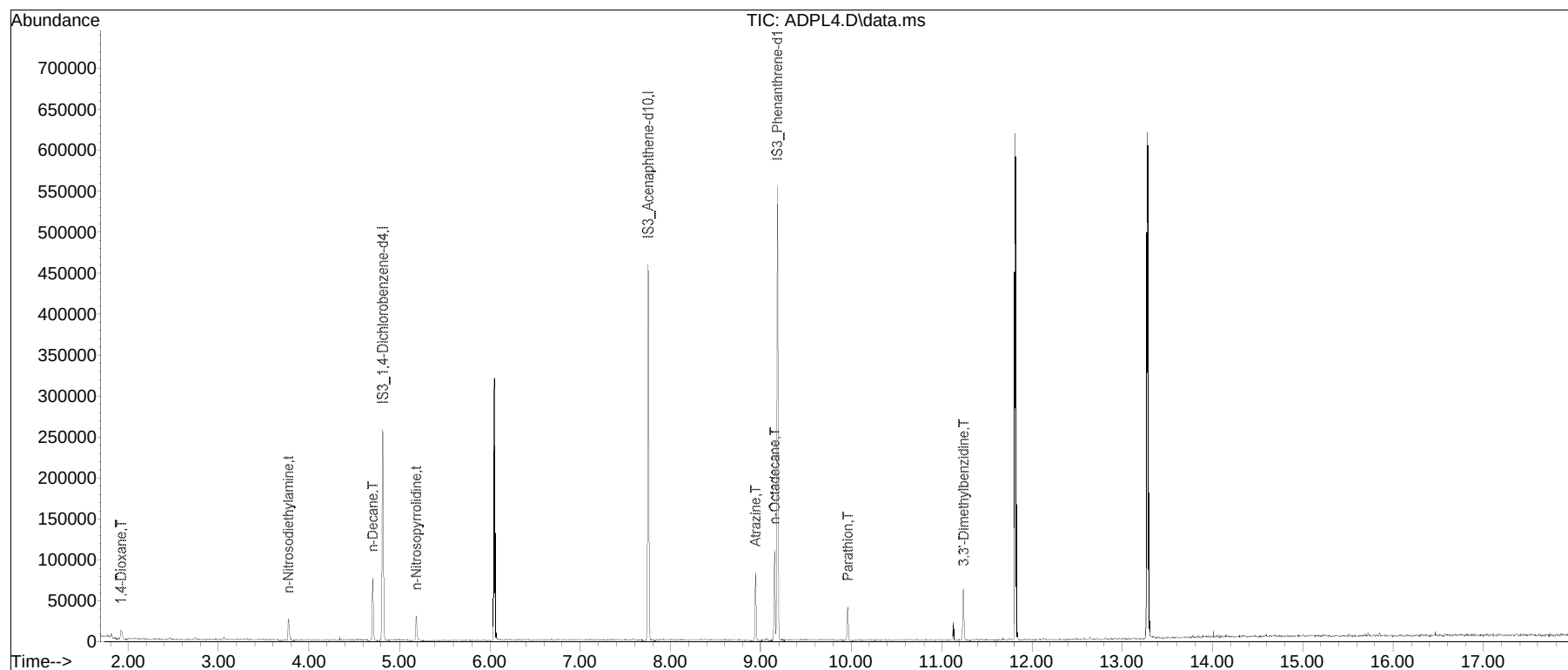
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL4.D
 Acq On : 17 Apr 2025 3:13 am
 Operator : Dakota:HNY
 Sample : IL7,32,,ADPL1 Lot# 11555
 Misc : WG2055280
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 17 15:23:20 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPL4.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 3:13 am Instrument : Dakota
Sample : IL7,32,,ADPL1 Lot# 11555 Quant Date : 4/17/2025 3:24 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL3.D
 Acq On : 17 Apr 2025 3:35 am
 Operator : Dakota:HNY
 Sample : IL8,32,,ADPL0.5 Lot# 11556
 Misc : WG2055280
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Apr 17 15:23:10 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	36542	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery =	101.15%		
88) IS3_Acenaphthene-d10	7.754	164	82031	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery =	93.50%		
102) IS3_Phenanthrene-d10	9.184	188	187811	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery =	99.03%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.920	88	2426	0.617	ug/ml#	73
34) n-Nitrosodiethylamine	3.776	102	1964	0.524	ug/ml#	4
35) n-Decane	4.705	57	6699	0.545	ug/ml#	25
36) n-Nitrosopyrrolidine	5.193	100	2159	0.456	ug/ml#	16
89) Atrazine	8.944	200	4372	0.503	ug/ml	99
103) n-Octadecane	9.153	57	9502	0.516	ug/ml#	1
104) Parathion	9.961	109	1564	0.781	ug/ml#	82
105) 3,3'-Dimethylbenzidine	11.244	212	7721	0.939	ug/ml	98

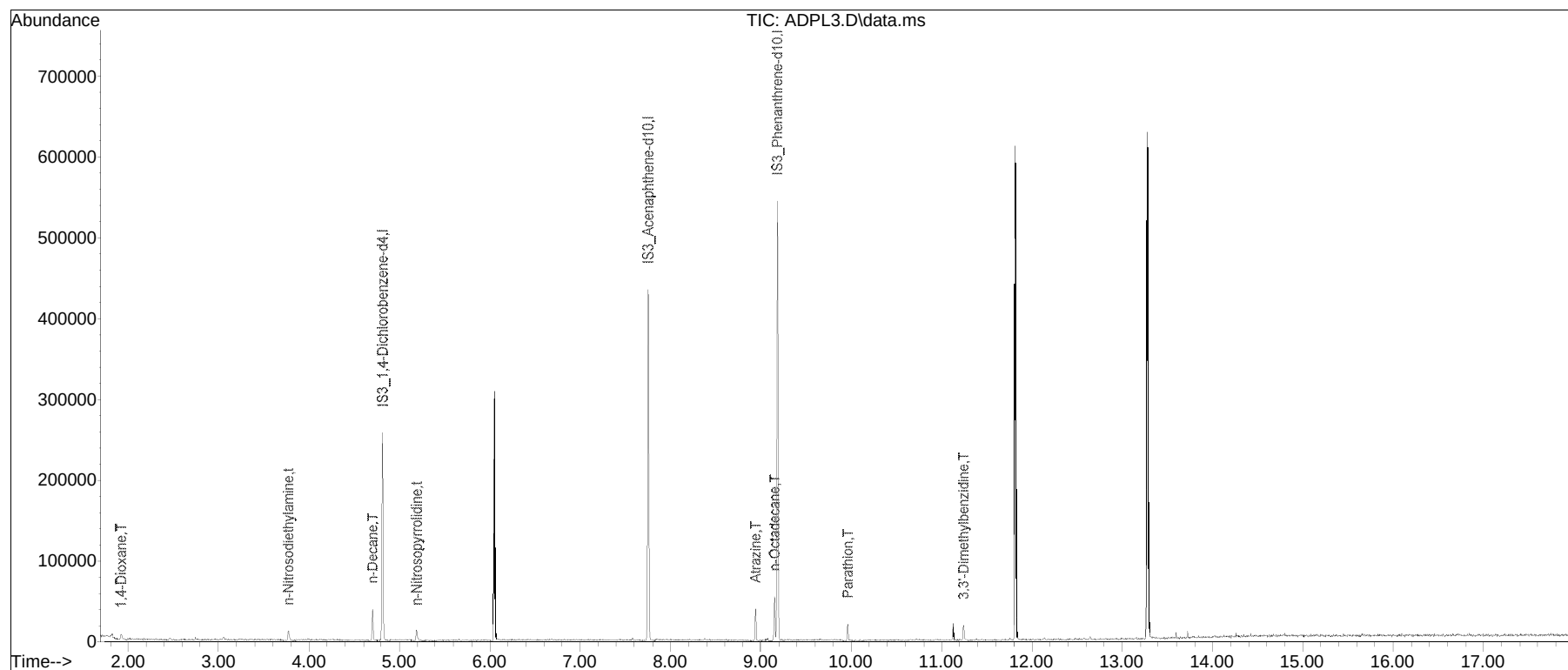
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ADPL3.D
Acq On : 17 Apr 2025 3:35 am
Operator : Dakota:HNY
Sample : IL8,32,,ADPL0.5 Lot# 11556
Misc : WG2055280
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Apr 17 15:23:10 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPL3.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 3:35 am Instrument : Dakota
Sample : IL8,32,,ADPL0.5 Lot# 11556 Quant Date : 4/17/2025 3:24 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL2.D
 Acq On : 17 Apr 2025 3:58 am
 Operator : Dakota:HNY
 Sample : IL9,32,,ADPL0.2 Lot# 11557
 Misc : WG2055280
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 17 15:22:59 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	37822	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery =	104.69%		
88) IS3_Acenaphthene-d10	7.754	164	89792	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery =	102.35%		
102) IS3_Phenanthrene-d10	9.184	188	205678	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery =	108.45%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.917	88	875M1	0.215	ug/ml	
34) n-Nitrosodiethylamine	3.782	102	812	0.209	ug/ml#	1
35) n-Decane	4.702	57	2703	0.213	ug/ml#	22
36) n-Nitrosopyrrolidine	5.196	100	1185	0.242	ug/ml#	62
89) Atrazine	8.944	200	1827	0.192	ug/ml	96
103) n-Octadecane	9.152	57	3375	0.167	ug/ml#	1
104) Parathion	9.961	109	478M2	0.542	ug/ml	
105) 3,3'-Dimethylbenzidine	11.244	212	184M2	0.778	ug/ml	

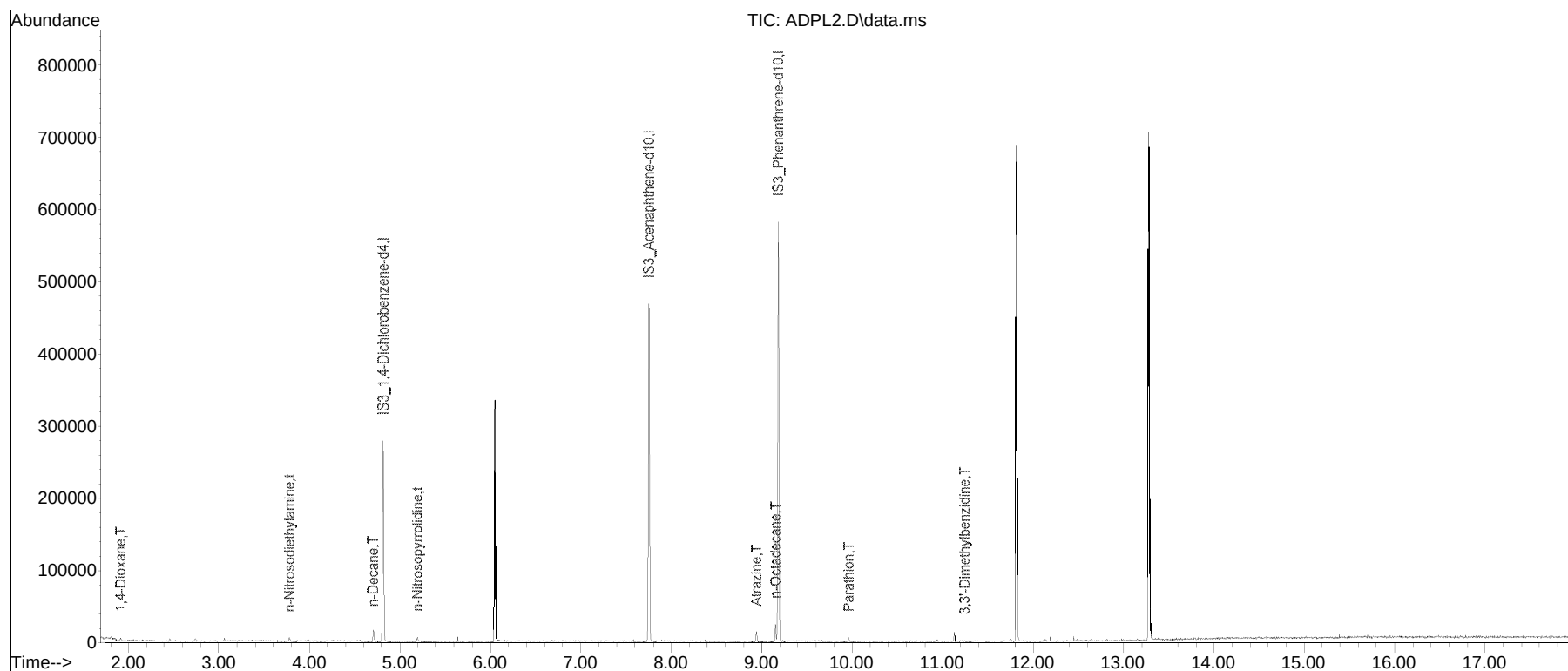
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL2.D
 Acq On : 17 Apr 2025 3:58 am
 Operator : Dakota:HNY
 Sample : IL9,32,,ADPL0.2 Lot# 11557
 Misc : WG2055280
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 17 15:22:59 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

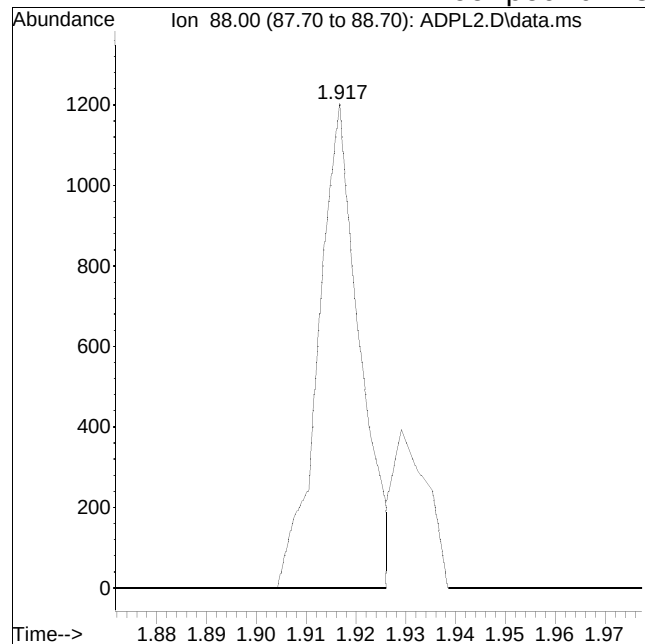
Sub List : ADPical_REV3 - ADP sublistVTICAL\AP9L6.D•



Manual Integration Report

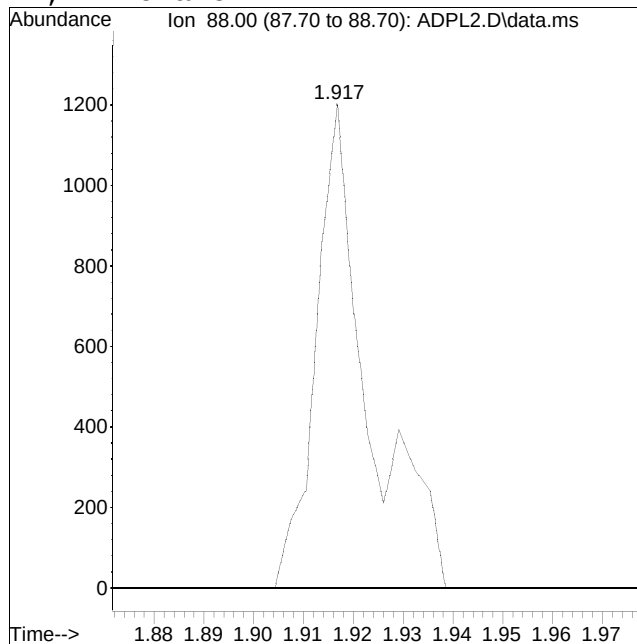
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPL2.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 3:58 am Instrument : Dakota
Sample : IL9,32,,ADPL0.2 Lot# 11557 Quant Date : 4/17/2025 3:23 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 702

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

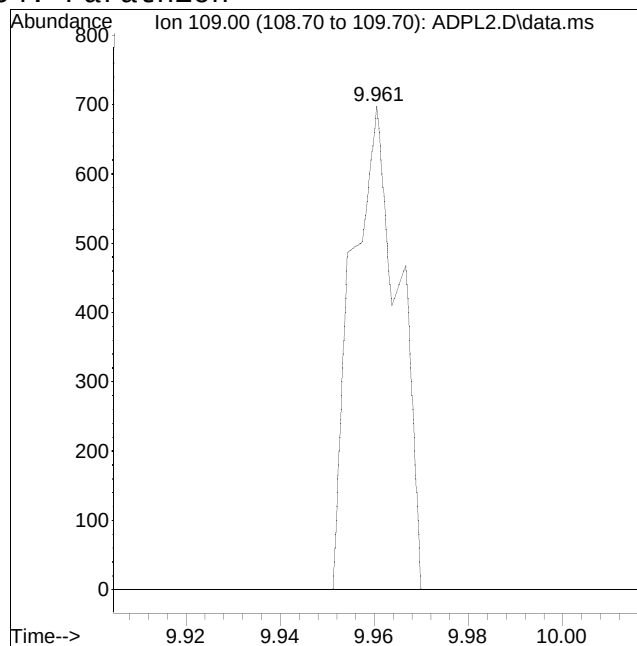
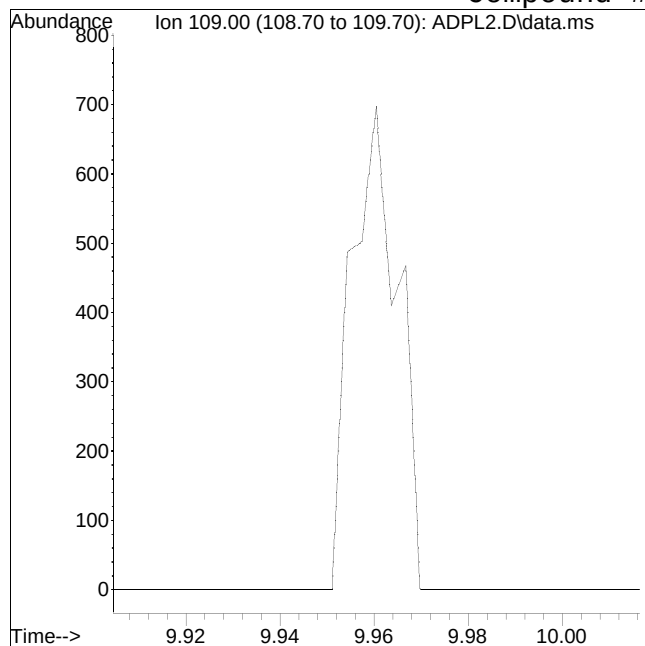


Manual Peak Response = 875 M1

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPL2.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 3:58 am Instrument : Dakota
Sample : IL9,32,,ADPL0.2 Lot# 11557 Quant Date : 4/17/2025 3:23 pm

Compound #104: Parathion



Original Peak Response = 0

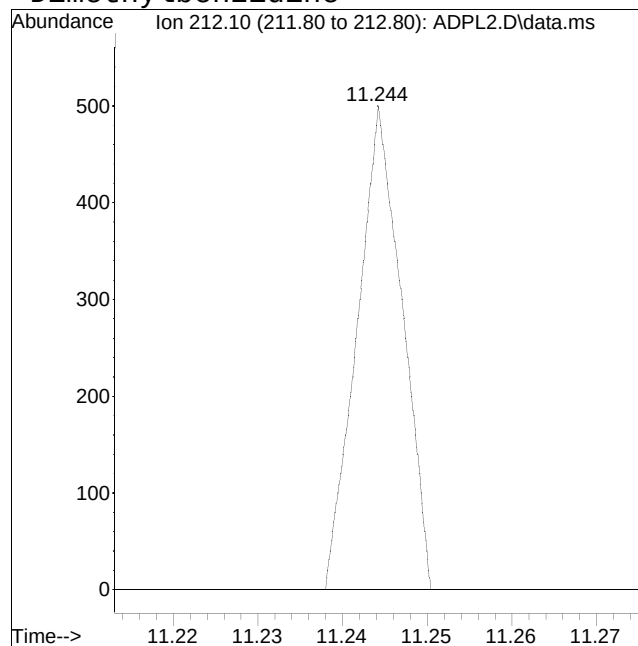
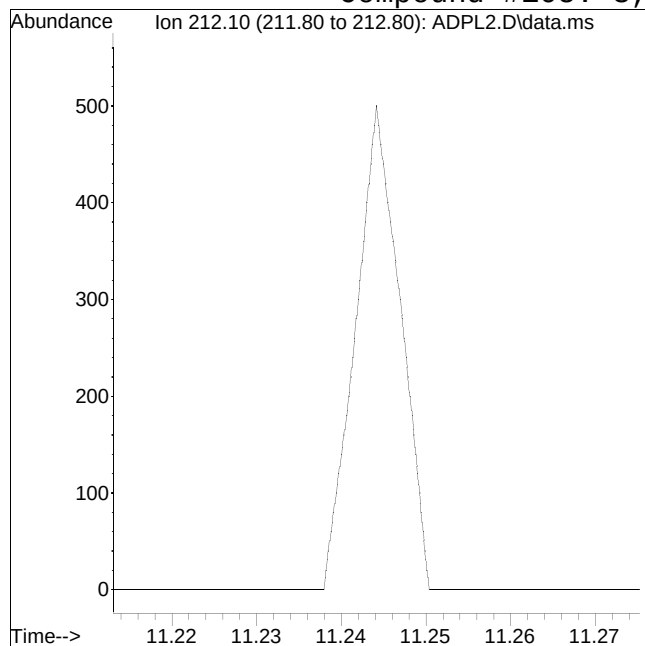
Manual Peak Response = 478 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPL2.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 3:58 am Instrument : Dakota
Sample : IL9,32,,ADPL0.2 Lot# 11557 Quant Date : 4/17/2025 3:23 pm

Compound #105: 3,3'-Dimethylbenzidine



Original Peak Response = 0

Manual Peak Response = 184 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL1.D
 Acq On : 17 Apr 2025 4:21 am
 Operator : Dakota:HNY
 Sample : IL10,32,,ADPL0.1 Lot# 11558
 Misc : WG2055280
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 17 15:22:48 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	37234	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery =	103.07%		
88) IS3_Acenaphthene-d10	7.754	164	85272	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery =	97.20%		
102) IS3_Phenanthrene-d10	9.184	188	195899	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery =	103.29%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.917	88	310M2	0.077	ug/ml	
34) n-Nitrosodiethylamine	3.785	102	227M2	0.059	ug/ml	
35) n-Decane	4.708	57	1168	0.093	ug/ml#	3
36) n-Nitrosopyrrolidine	5.196	100	346M2	0.072	ug/ml	
89) Atrazine	8.947	200	748	0.083	ug/ml#	33
103) n-Octadecane	9.153	57	2086	0.109	ug/ml#	1
104) Parathion	9.961	109	349M2	0.521	ug/ml	
105) 3,3'-Dimethylbenzidine	0.000		0	N.D.		

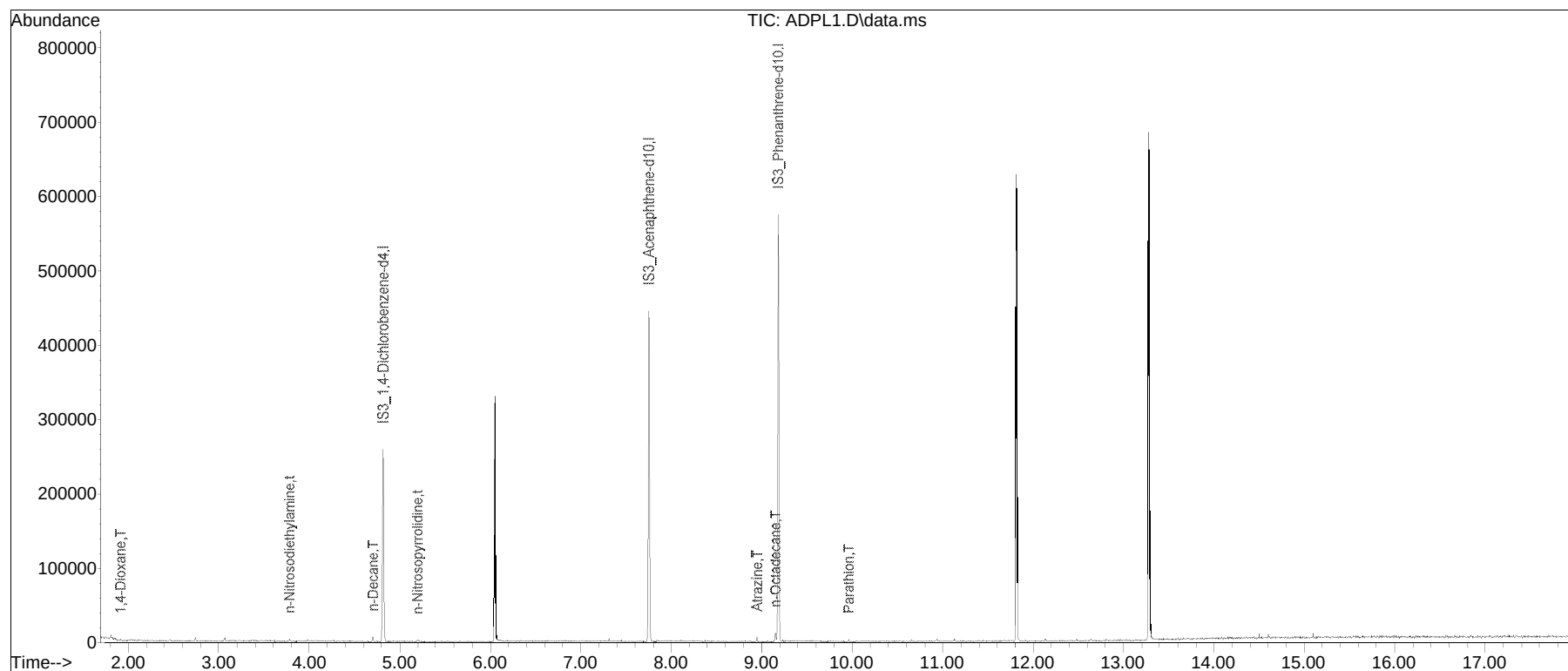
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL1.D
 Acq On : 17 Apr 2025 4:21 am
 Operator : Dakota:HNY
 Sample : IL10,32,,ADPL0.1 Lot# 11558
 Misc : WG2055280
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 17 15:22:48 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

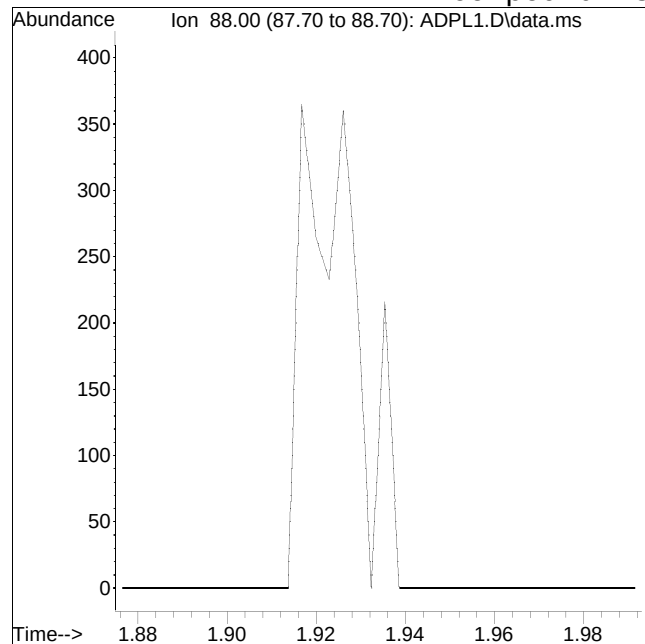
Sub List : ADPical_REV3 - ADP sublistVTICAL\AP9L6.D•



Manual Integration Report

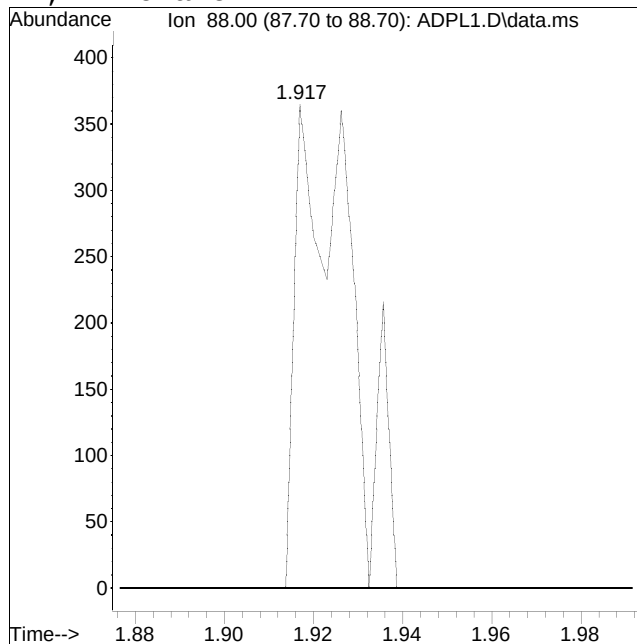
Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPL1.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 4:21 am Instrument : Dakota
Sample : IL10,32,,ADPL0.1 Lot# 1155 Quant Date : 4/17/2025 3:23 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

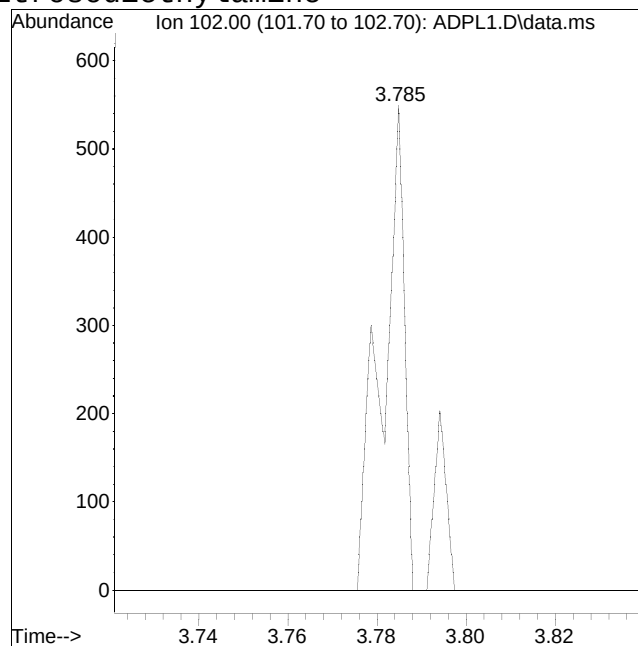
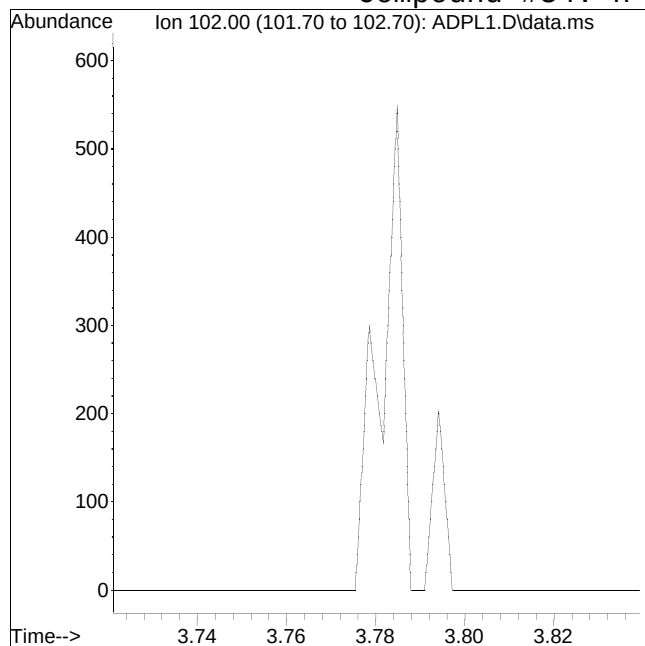


Manual Peak Response = 310 M2

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPL1.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 4:21 am Instrument : Dakota
Sample : IL10,32,,ADPL0.1 Lot# 1155 Quant Date : 4/17/2025 3:23 pm

Compound #34: n-Nitrosodiethylamine



Original Peak Response = 0

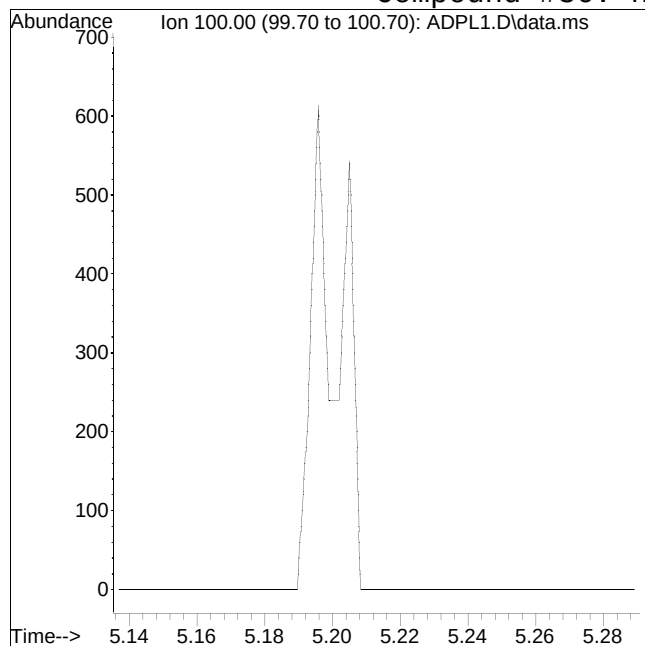
Manual Peak Response = 227 M2

M2 = Peak not found by automatic integration algorithm.

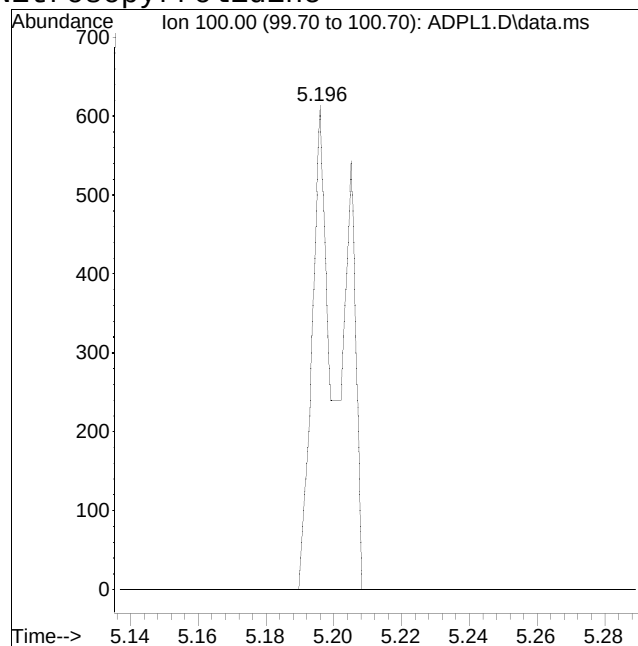
Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPL1.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 4:21 am Instrument : Dakota
Sample : IL10,32,,ADPL0.1 Lot# 1155 Quant Date : 4/17/2025 3:23 pm

Compound #36: n-Nitrosopyrrolidine



Original Peak Response = 0



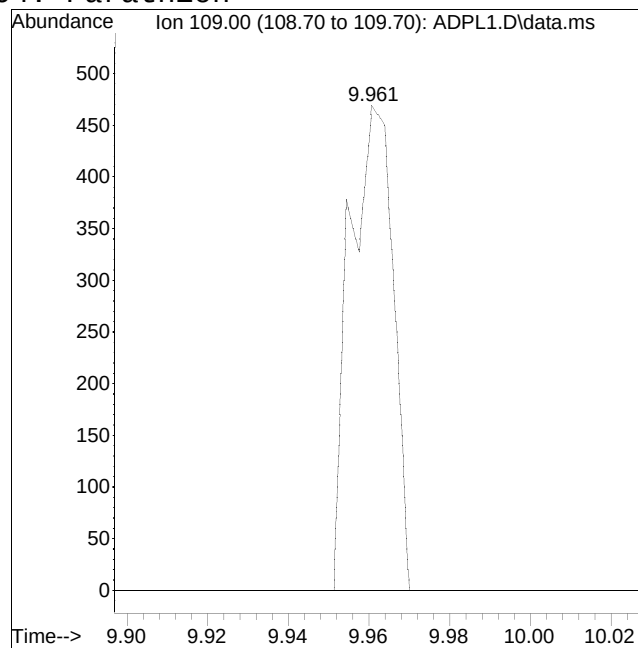
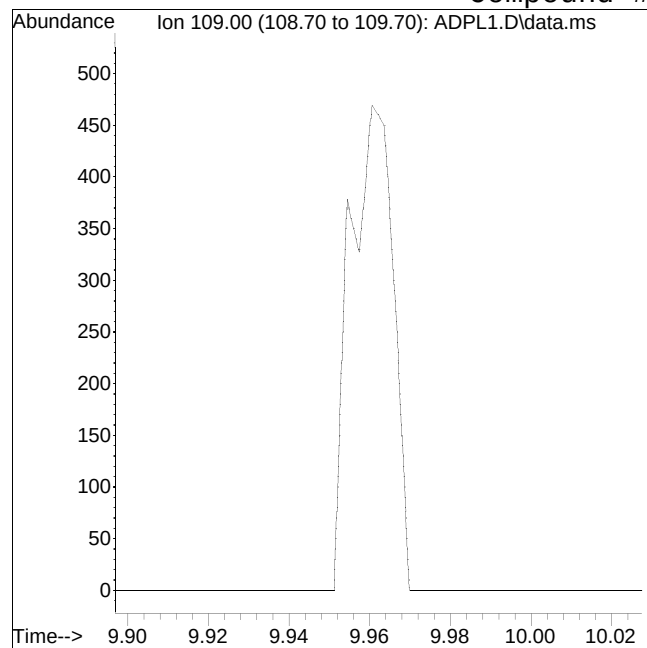
Manual Peak Response = 346 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPL1.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 4:21 am Instrument : Dakota
Sample : IL10,32,,ADPL0.1 Lot# 1155 Quant Date : 4/17/2025 3:23 pm

Compound #104: Parathion



Original Peak Response = 0

Manual Peak Response = 349 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPICV.D
 Acq On : 17 Apr 2025 4:43 am
 Operator : Dakota:HNY
 Sample : CQICV,32,,ADPICV Lot# 11561
 Misc : WG2055280
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 17 15:22:38 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 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	99	0.00
33 T	1,4-Dioxane	0.431	0.395	8.4	95	0.00
34 t	n-Nitrosodiethylamine	0.411	0.424	-3.2	98	0.00
35 T	n-Decane	1.345	1.374	-2.2	104	0.00
36 t	n-Nitrosopyrrolidine	0.518	0.509	1.7	101	0.00
88 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	98	0.00
89 T	Atrazine	0.423	0.420	0.7	103	0.00
102 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	100	0.00
103 T	n-Octadecane	0.392	0.393	-0.3	102	0.00
104 T	Parathion	* 5.000	4.283	14.3	96	0.00
105 T	3,3'-Dimethylbenzidine	* 5.000	4.224	15.5	97	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\Dakota\250416RVTICAL\
 Data File : ADPICV.D
 Acq On : 17 Apr 2025 4:43 am
 Operator : Dakota:HNY
 Sample : CQICV,32,,ADPICV Lot# 11561
 Misc : WG2055280
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 17 15:22:38 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	35868	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery =	99.29%		
88) IS3_Acenaphthene-d10	7.754	164	85703	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery =	97.69%		
102) IS3_Phenanthrene-d10	9.184	188	190200	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery =	100.29%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.911	88	17709	4.587	ug/ml#	68
34) n-Nitrosodiethylamine	3.766	102	18990	5.157	ug/ml#	25
35) n-Decane	4.705	57	61595	5.107	ug/ml#	27
36) n-Nitrosopyrrolidine	5.184	100	22838	4.913	ug/ml#	40
89) Atrazine	8.947	200	45036	4.963	ug/ml	92
103) n-Octadecane	9.153	57	93408	5.006	ug/ml#	1
104) Parathion	9.964	109	18705	4.283	ug/ml	91
105) 3,3'-Dimethylbenzidine	11.247	212	163768	4.224	ug/ml	97

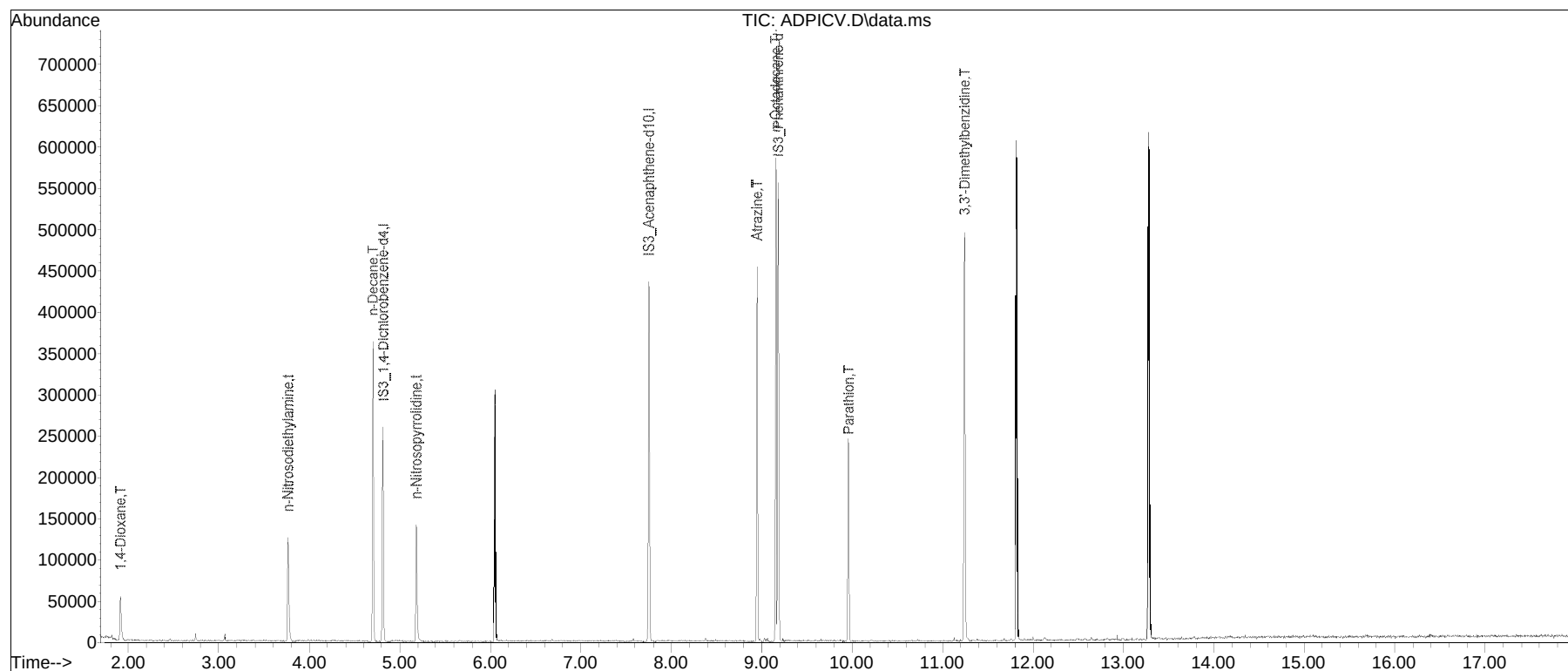
(#) = qualifier out of range (m) = manual integration (+) = signals summed

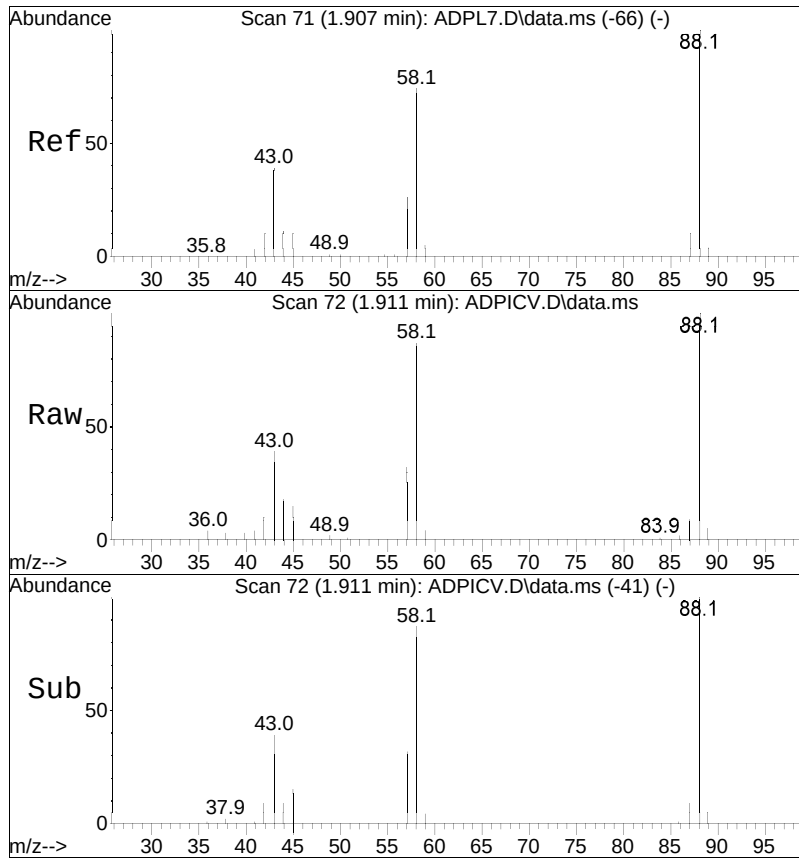
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPICV.D
 Acq On : 17 Apr 2025 4:43 am
 Operator : Dakota:HNY
 Sample : CQICV,32,,ADPICV Lot# 11561
 Misc : WG2055280
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 17 15:22:38 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

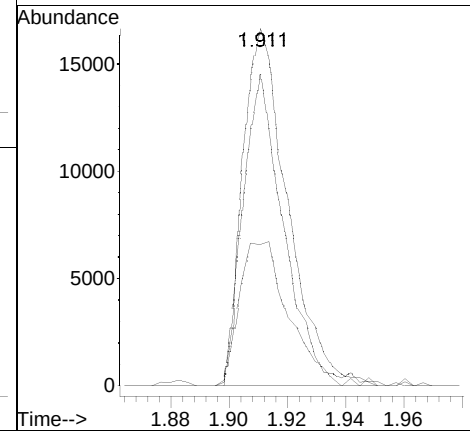
Sub List : ADPical_REV3 - ADP sublistVTICAL\AP9L6.D•

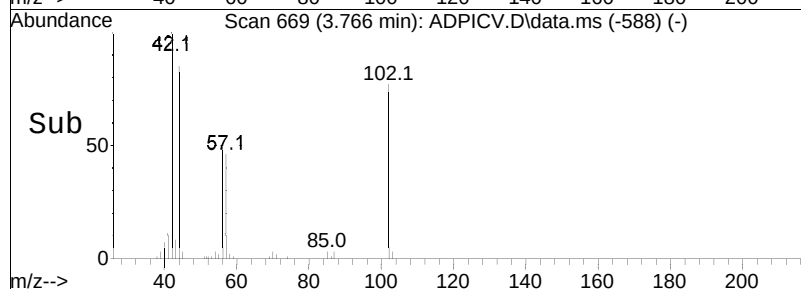
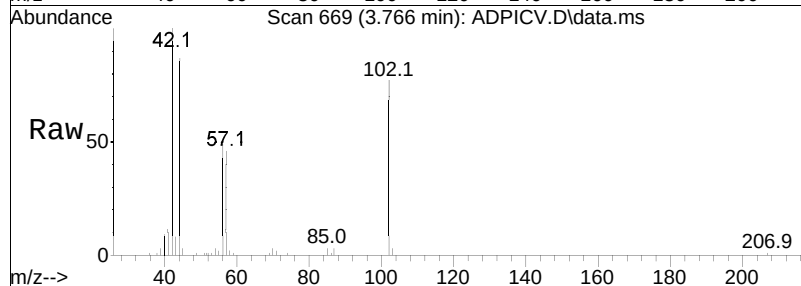
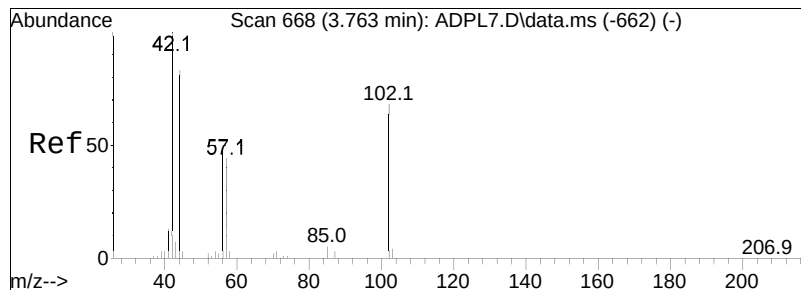




#33
 1,4-Dioxane
 Concen: 4.59 ug/ml
 RT: 1.911 min Scan# 72
 Delta R.T. -0.003 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

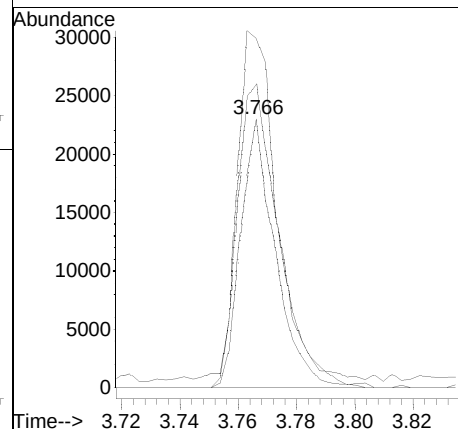
Tgt Ion:	88	Resp:	17709
Ion Ratio	Lower	Upper	
88	100		
58	80.1	44.8	67.2#
43	43.9	22.4	33.6#

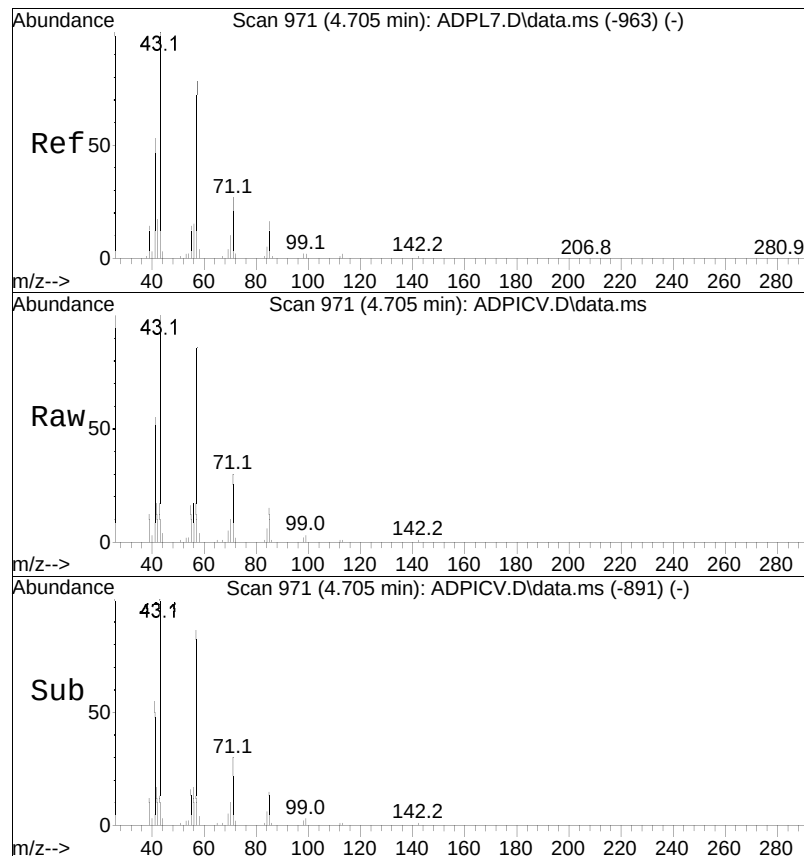




#34
 n-Nitrosodiethylamine
 Concen: 5.16 ug/ml
 RT: 3.766 min Scan# 669
 Delta R.T. 0.000 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

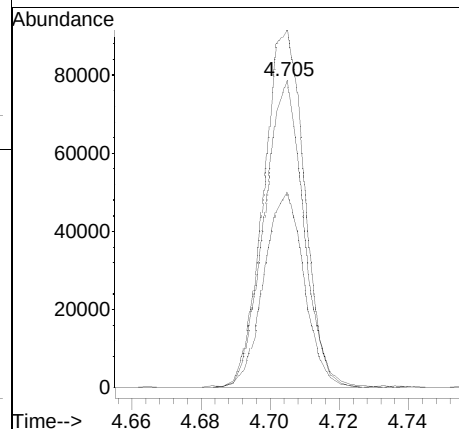
Tgt Ion	Ratio	Lower	Upper
102	100		
42	154.8	67.6	101.4#
44	131.6	57.4	86.0#

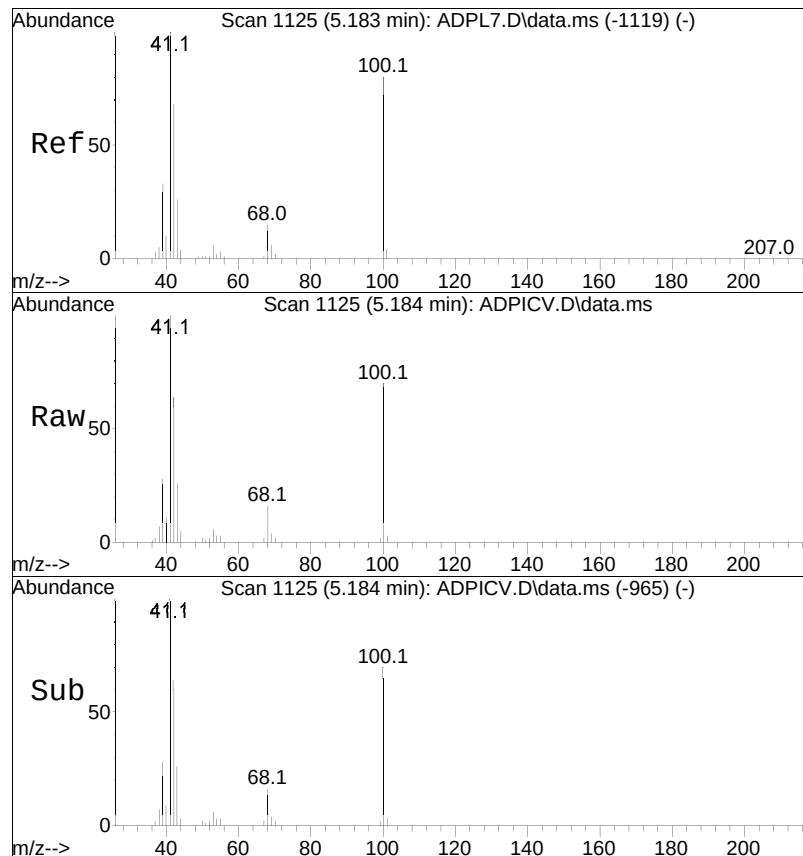




#35
 n-Decane
 Concen: 5.11 ug/ml
 RT: 4.705 min Scan# 971
 Delta R.T. -0.000 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

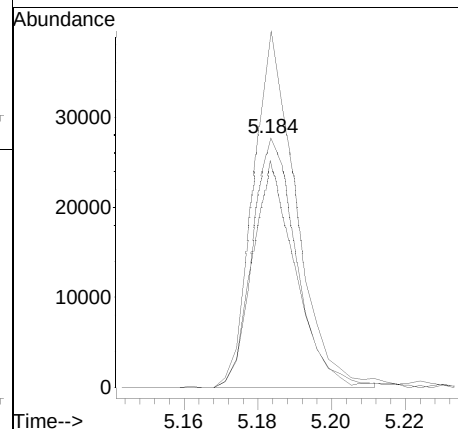
Tgt	Ion	Ratio	Resp	Lower	Upper
57	100		61595		
43	121.3	0.2		0.2#	
41	65.4	0.2		0.2#	

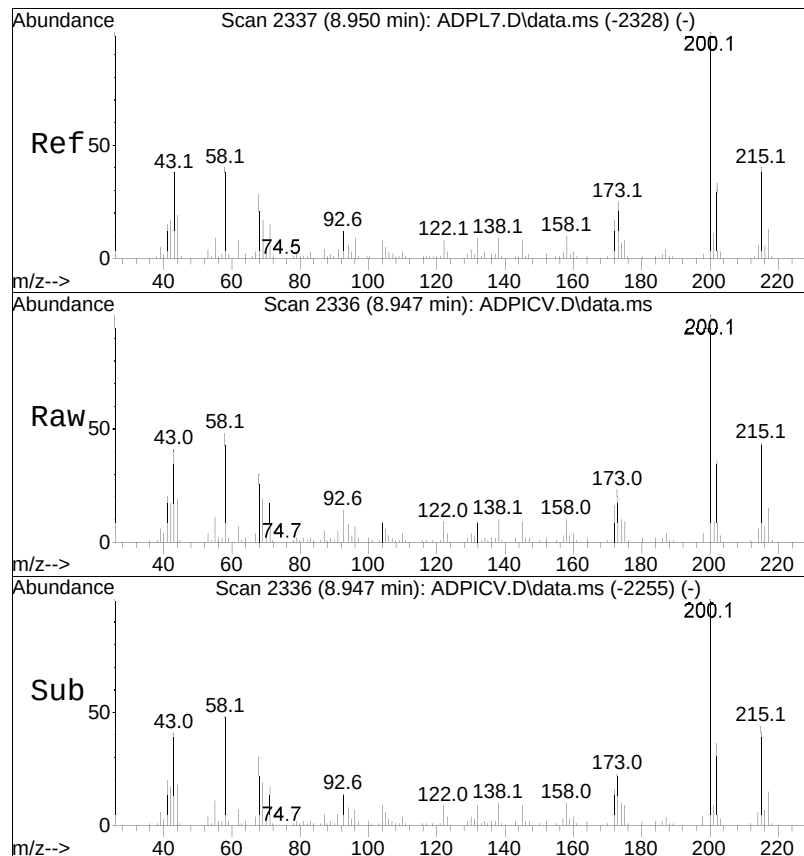




#36
 n-Nitrosopyrrolidine
 Concen: 4.91 ug/ml
 RT: 5.184 min Scan# 1125
 Delta R.T. -0.003 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

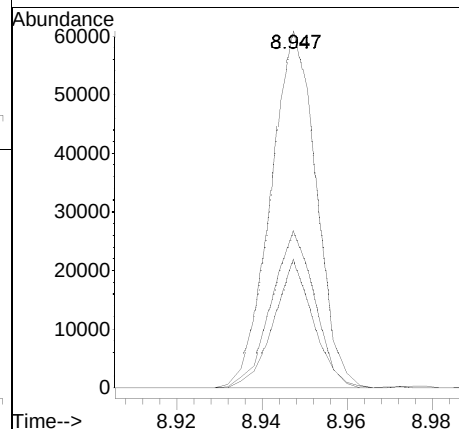
Tgt	Ion:100	Resp:	22838
Ion	Ratio	Lower	Upper
100	100		
41	141.4	63.0	94.4#
42	91.1	46.6	70.0#

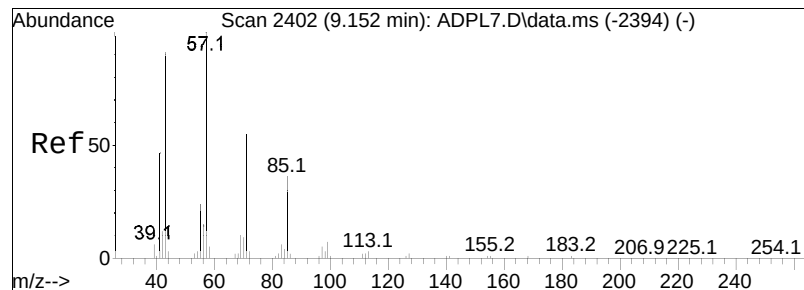




#89
 Atrazine
 Concen: 4.96 ug/ml
 RT: 8.947 min Scan# 2336
 Delta R.T. 0.000 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

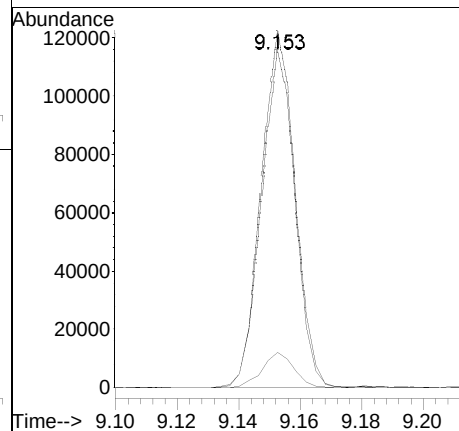
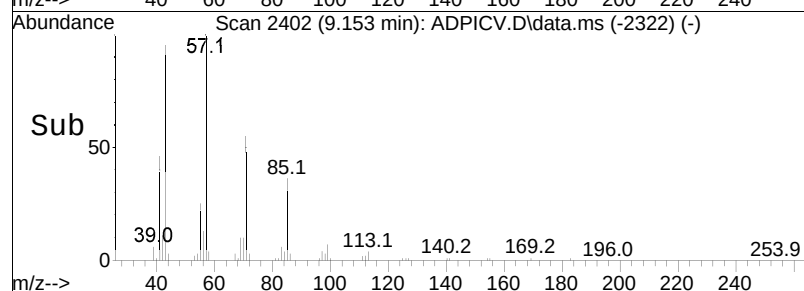
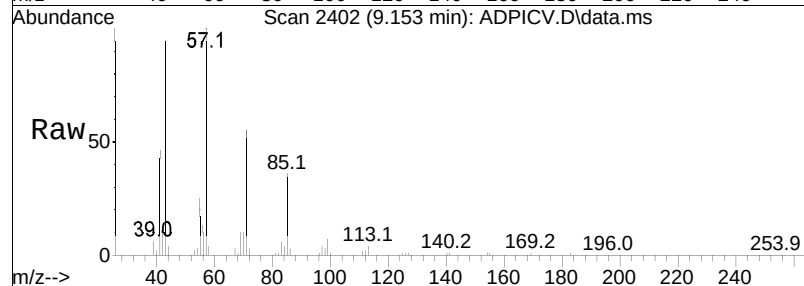
Tgt Ion	Ratio	Resp	Lower	Upper
200	100	45036		
202	31.1		25.8	38.6
215	41.8		40.2	60.4

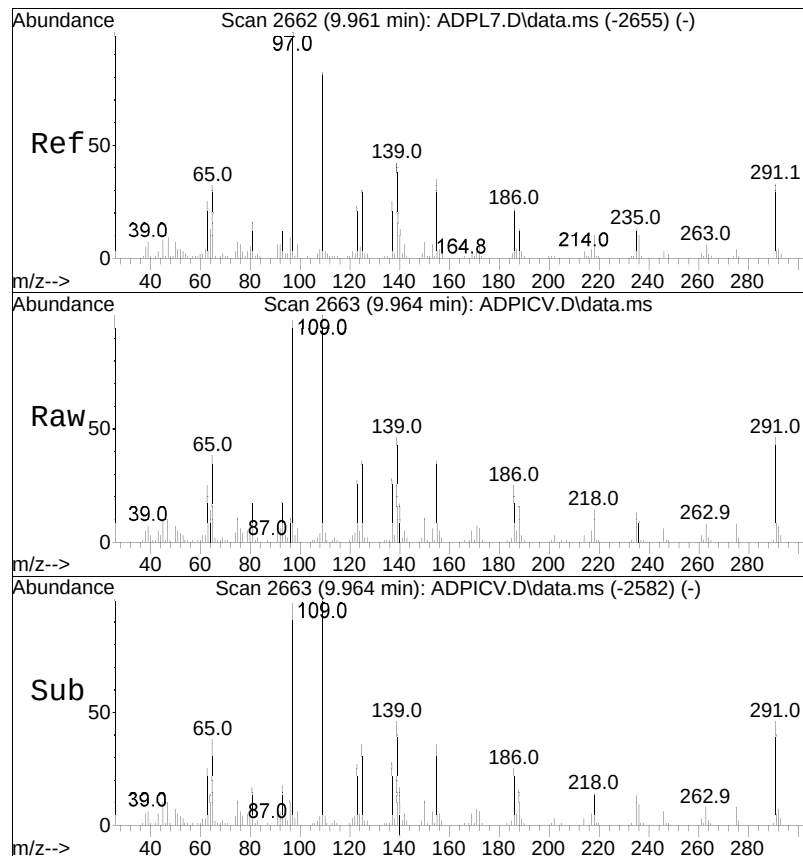




#103
 n-Octadecane
 Concen: 5.01 ug/ml
 RT: 9.153 min Scan# 2402
 Delta R.T. -0.000 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

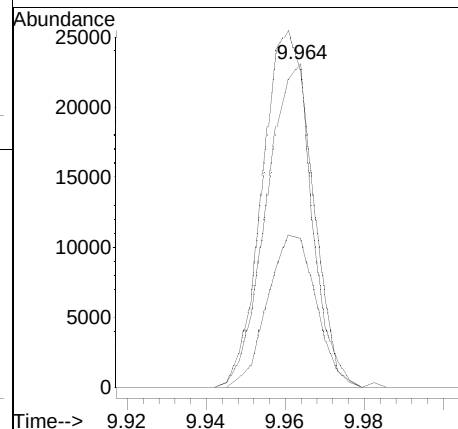
Tgt Ion	Ratio	Lower	Upper
57	100		
43	93.4	9.0	13.6#
70	9.2	0.2	0.2#

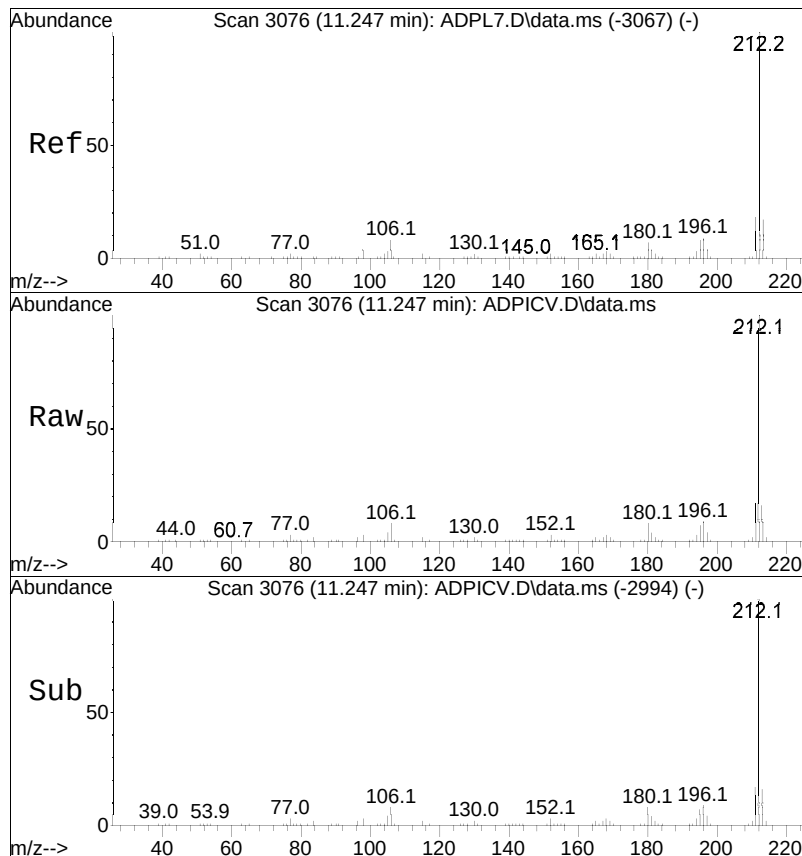




#104
 Parathion
 Concen: 4.28 ug/ml
 RT: 9.964 min Scan# 2663
 Delta R.T. 0.003 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

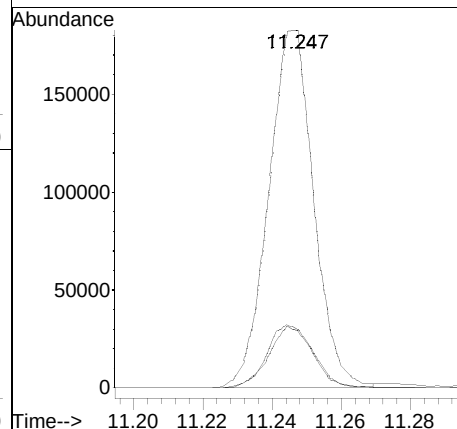
Tgt Ion:	109	Resp:	18705
Ion Ratio	Lower	Upper	
109	100		
97	118.2	87.4	131.2
291	49.6	34.2	51.2





#105
 3,3'-Dimethylbenzidine
 Concen: 4.22 ug/ml
 RT: 11.247 min Scan# 3076
 Delta R.T. 0.003 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

Tgt	Ion	Ratio	Resp	Lower	Upper
212	100		163768		
211	18.3			12.9	19.3
213	17.0			13.2	19.8



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMethod : FS250416RVT_Dakota.m
Data File : ADPICV.D Operator : Dakota: HNY
Date Inj'd : 4/17/2025 4:43 am Instrument : Dakota
Sample : CQICV,32,,ADPICV Lot# 1156 Quant Date : 4/17/2025 3:23 pm

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

Method Path : I:\8270\Dakota\250416RVTICAL\
Method File : FS250416RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Apr 17 14:28:59 2025

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
39	T Benzoic Acid	L	ug/ml	5.0	4.678	-6.4	2.50	2.666	6.6
68	T 2,4-Dinitrophenol	Q	ug/ml	5.0	4.719	-5.6	0.20	0.245	22.5
104	T Parathion	Q	ug/ml	5.0	4.444	-11.1	1.00	1.192	19.2
105	T 3,3'-Dimethylbenzidine	L	ug/ml	5.0	4.356	-12.9	1.00	1.227	22.7

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
39	T Benzoic Acid	Linear	0.999332	0.000000	0.264494	-0.0949313
68	T 2,4-Dinitrophenol	Quadratic	0.997754	0.006013	0.18906	-0.00952511
104	T Parathion	Quadratic	0.997704	0.002350	0.0998433	-0.0112545
105	T 3,3'-Dimethylbenzidine	Linear	0.996196	0.000000	0.998269	-0.193183

Continuing Calibration

Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV106
 Lab File ID : ABN0619
 Sample No : WG2080865-3
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 06:58
 Init. Calib. Date(s) : 03/11/25 03/12/25
 Init. Calib. Times : 16:50 06:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	112	0
n-Nitrosodimethylamine	0.718	0.859	-	-19.6	20	137	0
Pyridine	1.251	1.004	-	19.7	20	98	0
2-Fluorophenol	1.128	1.182	-	-4.8	20	120	0
Aniline	1.738	1.62	-	6.8	20	100	0
2-Chlorophenol	1.218	1.205	-	1.1	20	113	0
Phenol-d6	1.323	1.241	-	6.2	20	107	0
Phenol	1.459	1.396	-	4.3	20	110	0
Bis(2-chloroethyl)ether	1.159	1.099	-	5.2	20	109	0
1,3-Dichlorobenzene	1.54	1.429	-	7.2	20	109	0
1,4-Dichlorobenzene	1.574	1.468	-	6.7	20	107	0
1,2-Dichlorobenzene	1.49	1.416	-	5	20	112	0
Benzyl alcohol	0.91	0.903	-	0.8	20	112	0
Bis(2-chloroisopropyl)ethe	2.704	2.369	-	12.4	20	102	0
2-Methylphenol	1.283	1.006	-	21.6*	20	92	0
Hexachloroethane	0.546	0.509	-	6.8	20	106	0
n-Nitrosodi-n-propylamine	0.855	0.796	-	6.9	20	106	0
3-Methylphenol/4-Methylphe	1.11	1.07	-	3.6	20	108	0
Nitrobenzene-d5	1.096	1.2	-	-9.5	20	122	0
Nitrobenzene	1.118	1.206	-	-7.9	20	119	0
Isophorone	2.296	2.069	-	9.9	20	102	0
2-Nitrophenol	0.509	0.604	-	-18.7	20	132	0
2,4-Dimethylphenol	1.198	1.147	-	4.3	20	105	0
Bis(2-chloroethoxy)methane	1.639	1.406	-	14.2	20	108	0
2,4-Dichlorophenol	1.137	1.134	-	0.3	20	110	0
1,2,4-Trichlorobenzene	1.457	1.329	-	8.8	20	108	0
IS1_Naphthalene-d8	1	1	-	0	20	114	0
Naphthalene	1.066	0.98	-	8.1	20	109	0
Benzoic Acid	5	4.587	-	8.3	20	141	0
4-Chloroaniline	0.132	0.125	-	5.3	20	107	0
Hexachlorobutadiene	0.244	0.226	-	7.4	20	107	0
p-Chloro-m-cresol	0.325	0.262	-	19.4	20	96	0
2-Methylnaphthalene	0.638	0.607	-	4.9	20	111	0
1-Methylnaphthalene	0.245	0.221	-	9.8	20	108	0
Hexachlorocyclopentadiene	0.3	0.285	-	5	20	109	0
2,4,6-Trichlorophenol	0.251	0.244	-	2.8	20	110	0
2,4,5-Trichlorophenol	0.255	0.267	-	-4.7	20	115	0
2-Fluorobiphenyl	0.923	0.835	-	9.5	20	107	0
2-Chloronaphthalene	0.756	0.703	-	7	20	109	0
2-Nitroaniline	0.166	0.188	-	-13.3	20	123	0
1,4-Dinitrobenzene	5	14.88	-	-197.6*	20	762	0
1,3-Dinitrobenzene	0.104	0.111	-	-6.7	20	127	0
Dimethyl phthalate	0.908	0.823	-	9.4	20	104	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV106
 Lab File ID : ABN0619
 Sample No : WG2080865-3
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 06:58
 Init. Calib. Date(s) : 03/11/25 03/12/25
 Init. Calib. Times : 16:50 06:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.201	1.11	-	7.6	20	108	0
2,6-Dinitrotoluene	0.151	0.168	-	-11.3	20	108	0
1,2-Dinitrobenzene	0.063	0.078	-	-23.8*	20	127	0
IS1_Acenaphthene-d10	1	1	-	0	20	111	0
3-Nitroaniline	0.252	0.284	-	-12.7	20	119	0
Acenaphthene	1.101	0.991	-	10	20	107	0
2,4-Dinitrophenol	5	4.188	-	16.2	20	103	0
Dibenzofuran	1.914	1.664	-	13.1	20	109	0
2,4-Dinitrotoluene	5	5.346	-	-6.9	20	125	0
4-Nitrophenol	0.192	0.214	-	-11.5	20	120	0
2,3,5,6-Tetrachlorophenol	0.365	0.367	-	-0.5	20	115	0
2,3,4,6-Tetrachlorophenol	0.344	0.359	-	-4.4	20	114	0
Diethyl phthalate	1.359	1.247	-	8.2	20	103	0
Fluorene	1.41	1.312	-	7	20	108	0
4-Chlorophenyl phenyl ethe	0.738	0.679	-	8	20	110	0
4-Nitroaniline	0.246	0.288	-	-17.1	20	123	0
4,6-Dinitro-o-cresol	5	4.739	-	5.2	20	124	0
NDPA/DPA	1.176	1.086	-	7.7	20	106	0
Azobenzene	1.121	1.102	-	1.7	20	110	0
2,4,6-Tribromophenol	0.206	0.197	-	4.4	20	102	0
4-Bromophenyl phenyl ether	0.463	0.413	-	10.8	20	104	0
Hexachlorobenzene	0.543	0.466	-	14.2	20	103	0
Pentachlorophenol	0.282	0.269	-	4.6	20	107	0
IS1_Phenanthrene-d10	1	1	-	0	20	114	0
Phenanthrene	1.135	1.015	-	10.6	20	108	0
Anthracene	1.107	1.023	-	7.6	20	107	0
Carbazole	0.989	0.903	-	8.7	20	103	0
Di-n-butylphthalate	1.116	0.989	-	11.4	20	101	0
Fluoranthene	1.298	1.187	-	8.6	20	108	0
Benzidine	0.704	0.649	-	7.8	20	100	0
Pyrene	1.359	1.263	-	7.1	20	108	0
4-Terphenyl-d14	1.038	0.907	-	12.6	20	103	0
Butyl benzyl phthalate	5	4.033	-	19.3	20	104	0
IS1_Chrysene-d12	1	1	-	0	20	110	0
Benzo(a)anthracene	1.278	1.166	-	8.8	20	105	0
3,3'-Dichlorobenzidine	0.429	0.393	-	8.4	20	95	0
Chrysene	1.267	1.132	-	10.7	20	105	0
Bis(2-ethylhexyl)phthalate	5	4.203	-	15.9	20	102	0
Di-n-octylphthalate	5	3.774	-	24.5*	20	95	0
Benzo(b)fluoranthene	1.314	1.079	-	17.9	20	89	0
Benzo(k)fluoranthene	1.222	1.097	-	10.2	20	102	0
Benzo(a)pyrene	1.157	0.966	-	16.5	20	90	0
IS1_Perylene-d12	1	1	-	0	20	101	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Instrument ID : SV106 Lab File ID : ABN0619 Sample No : WG2080865-3 Channel :	Lab Number : L2537655 Project Number : 2232.0006Y005 Calibration Date : 06/19/25 06:58 Init. Calib. Date(s) : 03/11/25 03/12/25 Init. Calib. Times : 16:50 06:06
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Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.068	0.896	-	16.1	20	80	0
Dibenzo(a,h)anthracene	1.063	0.873	-	17.9	20	81	0
Benzo(ghi)perylene	1.047	0.853	-	18.5	20	81	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV106
 Lab File ID : AP90619
 Sample No : WG2080865-4
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 07:22
 Init. Calib. Date(s) : 03/11/25 03/12/25
 Init. Calib. Times : 16:50 06:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
Benzaldehyde	0.954	0.873	-	8.5	20	99	0
Acetophenone	1.646	1.52	-	7.7	20	98	0
m-Toluidine	1.514	1.415	-	6.5	20	97	0
2-Chloroaniline	1.481	1.515	-	-2.3	20	110	0
IS2_Naphthalene-d8	1	1	-	0	20	104	0
a-Terpineol	0.275	0.295	-	-7.3	20	113	0
3-Chloroaniline	0.139	0.136	-	2.2	20	101	0
2,6-Dichlorophenol	0.27	0.291	-	-7.8	20	115	0
1-chloro-2-nitrobenzene	0.108	0.13	-	-20.4*	20	130	0
Caprolactam	0.165	0.163	-	1.2	20	115	0
1,2,4,5-Tetrachlorobenzene	0.401	0.399	-	0.5	20	109	0
Biphenyl	0.885	0.848	-	4.2	20	105	0
IS2_Acenaphthene-d10	1	1	-	0	20	108	0
Dichloran	5	5.991	-	-19.8	20	144	0
Pentachloronitrobenzene	0.144	0.167	-	-16	20	137	0
IS2_Phenanthrene-d10	1	1	-	0	20	111	0
Diphenamid	0.413	0.393	-	4.8	20	102	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV106
 Lab File ID : ADP0619
 Sample No : WG2080865-5
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 07:45
 Init. Calib. Date(s) : 03/11/25 03/12/25
 Init. Calib. Times : 16:50 06:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	90	0
1,4-Dioxane	0.548	0.461	-	15.9	20	89	0
n-Decane	1.7	1.755	-	-3.2	20	101	0
IS3_Acenaphthene-d10	1	1	-	0	20	90	0
Atrazine	0.366	0.399	-	-9	20	108	0
IS3_Phenanthrene-d10	1	1	-	0	20	93	0
n-Octadecane	0.458	0.502	-	-9.6	20	106	0
Parathion	5	6.655	-	-33.1*	20	131	0
3,3'-Dimethylbenzidine	5	3.761	-	24.8*	20	73	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Lab File ID : ABN0619
 Sample No : WG2080969-3
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 10:48
 Init. Calib. Date(s) : 04/16/25 04/17/25
 Init. Calib. Times : 17:27 04:21

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
n-Nitrosodimethylamine	0.686	0.6	-	12.5	20	93	0
Pyridine	1.201	0.785	-	34.6*	20	71	0
2-Fluorophenol	1.027	0.846	-	17.6	20	86	0
Aniline	1.681	1.534	-	8.7	20	89	0
2-Chlorophenol	1.137	1.032	-	9.2	20	95	0
Phenol-d6	1.267	1.197	-	5.5	20	96	0
Phenol	1.542	1.455	-	5.6	20	97	0
Bis(2-chloroethyl)ether	0.996	0.903	-	9.3	20	97	0
1,3-Dichlorobenzene	1.509	1.399	-	7.3	20	101	0
1,4-Dichlorobenzene	1.555	1.389	-	10.7	20	98	0
1,2-Dichlorobenzene	1.445	1.335	-	7.6	20	100	0
Benzyl alcohol	1.005	0.897	-	10.7	20	95	0
Bis(2-chloroisopropyl)ethe	2.14	1.84	-	14	20	92	0
2-Methylphenol	1.014	0.954	-	5.9	20	97	0
Hexachloroethane	0.534	0.508	-	4.9	20	99	0
n-Nitrosodi-n-propylamine	0.907	0.808	-	10.9	20	92	0
3-Methylphenol/4-Methylphe	1.086	1.033	-	4.9	20	98	0
Nitrobenzene-d5	1.358	1.264	-	6.9	20	96	0
Nitrobenzene	1.329	1.238	-	6.8	20	97	0
Isophorone	2.441	2.122	-	13.1	20	92	0
2-Nitrophenol	0.587	0.576	-	1.9	20	96	0
2,4-Dimethylphenol	1.169	1.107	-	5.3	20	99	0
Bis(2-chloroethoxy)methane	1.438	1.279	-	11.1	20	95	0
2,4-Dichlorophenol	1.213	1.223	-	-0.8	20	105	0
1,2,4-Trichlorobenzene	1.517	1.49	-	1.8	20	103	0
IS1_Naphthalene-d8	1	1	-	0	20	103	0
Naphthalene	1.025	0.892	-	13	20	96	0
Benzoic Acid	5	4.605	-	7.9	20	100	0
4-Chloroaniline	0.14	0.128	-	8.6	20	98	0
Hexachlorobutadiene	0.253	0.272	-	-7.5	20	115	0
p-Chloro-m-cresol	0.285	0.283	-	0.7	20	104	0
2-Methylnaphthalene	0.666	0.629	-	5.6	20	98	0
1-Methylnaphthalene	0.226	0.222	-	1.8	20	103	0
Hexachlorocyclopentadiene	0.341	0.328	-	3.8	20	103	0
2,4,6-Trichlorophenol	0.295	0.312	-	-5.8	20	109	0
2,4,5-Trichlorophenol	0.328	0.353	-	-7.6	20	114	0
2-Fluorobiphenyl	1.042	0.977	-	6.2	20	104	0
2-Chloronaphthalene	0.839	0.81	-	3.5	20	104	0
2-Nitroaniline	0.214	0.211	-	1.4	20	102	0
1,4-Dinitrobenzene	0.11	0.113	-	-2.7	20	105	0
1,3-Dinitrobenzene	0.135	0.134	-	0.7	20	100	0
Dimethyl phthalate	1.012	0.975	-	3.7	20	103	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Lab File ID : ABN0619
 Sample No : WG2080969-3
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 10:48
 Init. Calib. Date(s) : 04/16/25 04/17/25
 Init. Calib. Times : 17:27 04:21

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.327	1.254	-	5.5	20	98	0
2,6-Dinitrotoluene	0.202	0.211	-	-4.5	20	103	0
1,2-Dinitrobenzene	0.084	0.085	-	-1.2	20	107	0
IS1_Acenaphthene-d10	1	1	-	0	20	110	0
3-Nitroaniline	0.272	0.268	-	1.5	20	102	0
Acenaphthene	1.046	0.921	-	12	20	102	0
2,4-Dinitrophenol	5	4.432	-	11.4	20	103	0
Dibenzofuran	1.874	1.651	-	11.9	20	104	0
2,4-Dinitrotoluene	0.4	0.385	-	3.8	20	103	0
4-Nitrophenol	0.247	0.253	-	-2.4	20	111	0
2,3,5,6-Tetrachlorophenol	0.404	0.445	-	-10.1	20	121	0
2,3,4,6-Tetrachlorophenol	0.397	0.426	-	-7.3	20	119	0
Diethyl phthalate	1.403	1.18	-	15.9	20	98	0
Fluorene	1.46	1.286	-	11.9	20	103	0
4-Chlorophenyl phenyl ethe	0.756	0.698	-	7.7	20	114	0
4-Nitroaniline	0.286	0.27	-	5.6	20	96	0
4,6-Dinitro-o-cresol	0.248	0.254	-	-2.4	20	109	0
NDPA/DPA	1.275	1.15	-	9.8	20	104	0
Azobenzene	1.299	1.098	-	15.5	20	97	0
2,4,6-Tribromophenol	0.235	0.246	-	-4.7	20	113	0
4-Bromophenyl phenyl ether	0.478	0.439	-	8.2	20	107	0
Hexachlorobenzene	0.558	0.532	-	4.7	20	117	0
Pentachlorophenol	0.331	0.388	-	-17.2	20	133	0
IS1_Phenanthrene-d10	1	1	-	0	20	119	0
Phenanthrene	1.15	0.977	-	15	20	106	0
Anthracene	1.127	0.971	-	13.8	20	105	0
Carbazole	1.06	0.915	-	13.7	20	104	0
Di-n-butylphthalate	1.1	0.89	-	19.1	20	97	0
Fluoranthene	1.355	1.242	-	8.3	20	111	0
Benzidine	0.817	0.77	-	5.8	20	111	0
Pyrene	1.466	1.325	-	9.6	20	110	0
4-Terphenyl-d14	1.069	0.952	-	10.9	20	110	0
Butyl benzyl phthalate	0.478	0.415	-	13.2	20	100	0
IS1_Chrysene-d12	1	1	-	0	20	128	0
Benzo(a)anthracene	1.313	1.134	-	13.6	20	113	0
3,3'-Dichlorobenzidine	0.464	0.419	-	9.7	20	113	0
Chrysene	1.293	1.097	-	15.2	20	117	0
Bis(2-ethylhexyl)phthalate	0.661	0.533	-	19.4	20	97	0
Di-n-octylphthalate	1.074	0.923	-	14.1	20	102	0
Benzo(b)fluoranthene	1.332	1.212	-	9	20	116	0
Benzo(k)fluoranthene	1.355	1.232	-	9.1	20	117	0
Benzo(a)pyrene	1.271	1.147	-	9.8	20	115	0
IS1_Perylene-d12	1	1	-	0	20	126	0

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : DAKOTA
Lab File ID : ABN0619
Sample No : WG2080969-3
Channel :

Lab Number : L2537655
Project Number : 2232.0006Y005
Calibration Date : 06/19/25 10:48
Init. Calib. Date(s) : 04/16/25 04/17/25
Init. Calib. Times : 17:27 04:21

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.242	1.14	-	8.2	20	114	0
Dibenzo(a,h)anthracene	1.197	1.099	-	8.2	20	119	0
Benzo(ghi)perylene	1.198	1.098	-	8.3	20	121	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Lab File ID : AP90619
 Sample No : WG2080969-4
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 11:11
 Init. Calib. Date(s) : 04/16/25 04/17/25
 Init. Calib. Times : 17:27 04:21

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
Benzaldehyde	0.839	0.769	-	8.3	20	94	0
Acetophenone	1.481	1.4	-	5.5	20	98	0
m-Toluidine	1.49	1.361	-	8.7	20	98	0
2-Chloroaniline	1.308	1.277	-	2.4	20	101	0
IS2_Naphthalene-d8	1	1	-	0	20	112	0
a-Terpineol	0.29	0.266	-	8.3	20	96	0
3-Chloroaniline	0.149	0.136	-	8.7	20	100	0
2,6-Dichlorophenol	0.329	0.355	-	-7.9	20	114	0
1-chloro-2-nitrobenzene	0.139	0.13	-	6.5	20	100	0
Caprolactam	0.169	0.158	-	6.5	20	109	0
1,2,4,5-Tetrachlorobenzene	0.444	0.465	-	-4.7	20	119	0
Biphenyl	0.95	0.917	-	3.5	20	105	0
IS2_Acenaphthene-d10	1	1	-	0	20	120	0
Dichloran	0.205	0.183	-	10.7	20	116	0
Pentachloronitrobenzene	0.184	0.187	-	-1.6	20	114	0
IS2_Phenanthrene-d10	1	1	-	0	20	132	0
Diphenamid	0.466	0.411	-	11.8	20	108	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Lab File ID : ADP0619
 Sample No : WG2080969-5
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 11:33
 Init. Calib. Date(s) : 04/16/25 04/17/25
 Init. Calib. Times : 17:27 04:21

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	0.431	0.413	-	4.2	20	92	0
n-Decane	1.345	1.328	-	1.3	20	93	0
IS3_Acenaphthene-d10	1	1	-	0	20	92	0
Atrazine	0.423	0.463	-	-9.5	20	107	0
IS3_Phenanthrene-d10	1	1	-	0	20	101	0
n-Octadecane	0.392	0.345	-	12	20	90	0
Parathion	5	4.42	-	11.6	20	100	0
3,3'-Dimethylbenzidine	5	3.678	-	26.4*	20	82	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250619RVT\
 Data File : ABN0619.D
 Acq On : 19 Jun 2025 6:58 am
 Operator : SV106:smz
 Sample : wg2080865-3,32,,ABN 11297 HNY0523C
 Misc : wg2080865,,ical22075
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 08:14:46 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:15:32 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	112	0.00
2 t	n-Nitrosodimethylamine	0.718	0.859	-19.6	137	0.00
3 t	Pyridine	1.251	1.004	19.7	98	0.00
4 S	2-Fluorophenol	1.128	1.182	-4.8	120	0.00
5 T	Aniline	1.738	1.620	6.8	100	0.00
6 t	2-Chlorophenol	1.218	1.205	1.1	113	0.00
7 S	Phenol-d6	1.323	1.241	6.2	107	0.00
8 T	Phenol	1.459	1.396	4.3	110	0.00
9 T	Bis(2-chloroethyl)ether	1.159	1.099	5.2	109	0.00
10 T	1,3-Dichlorobenzene	1.540	1.429	7.2	109	0.00
11 T	1,4-Dichlorobenzene	1.574	1.468	6.7	107	0.00
12 T	1,2-Dichlorobenzene	1.490	1.416	5.0	112	0.00
13 t	Benzyl alcohol	0.910	0.903	0.8	112	0.00
14 T	Bis(2-chloroisopropyl)ether	2.704	2.369	12.4	102	0.00
15 T	2-Methylphenol	1.283	1.006	21.6#	92	0.00
16 T	Hexachloroethane	0.546	0.509	6.8	106	0.00
17 T	n-Nitrosodi-n-propylamine	0.855	0.796	6.9	106	0.00
18 T	3-Methylphenol/4-Methylphen	1.110	1.070	3.6	108	0.00
19 S	Nitrobenzene-d5	1.096	1.200	-9.5	122	0.00
20 T	Nitrobenzene	1.118	1.206	-7.9	119	0.00
21 T	Isophorone	2.296	2.069	9.9	102	0.00
22 T	2-Nitrophenol	0.509	0.604	-18.7	132	0.00
23 T	2,4-Dimethylphenol	1.198	1.147	4.3	105	0.00
24 T	Bis(2-chloroethoxy)methane	1.639	1.406	14.2	108	0.00
25 T	2,4-Dichlorophenol	1.137	1.134	0.3	110	0.00
26 T	1,2,4-Trichlorobenzene	1.457	1.329	8.8	108	0.00
35 I	IS1_Naphthalene-d8	1.000	1.000	0.0	114	0.00
36 T	Naphthalene	1.066	0.980	8.1	109	0.00
37 T	Benzoic Acid	* 5.000	4.587	8.3	141	0.00
38 T	4-Chloroaniline	0.132	0.125	5.3	107	0.00
39 T	Hexachlorobutadiene	0.244	0.226	7.4	107	0.00
40 T	p-Chloro-m-cresol	0.325	0.262	19.4	96	0.00
41 T	2-Methylnaphthalene	0.638	0.607	4.9	111	0.00
42 T	1-Methylnaphthalene	0.245	0.221	9.8	108	0.00
43 T	Hexachlorocyclopentadiene	0.300	0.285	5.0	109	0.00
44 T	2,4,6-Trichlorophenol	0.251	0.244	2.8	110	0.00
45 T	2,4,5-Trichlorophenol	0.255	0.267	-4.7	115	0.00
46 S	2-Fluorobiphenyl	0.923	0.835	9.5	107	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250619RVT\
 Data File : ABN0619.D
 Acq On : 19 Jun 2025 6:58 am
 Operator : SV106:smz
 Sample : wg2080865-3,32,,ABN 11297 HNY0523C
 Misc : wg2080865,,ical22075
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 08:14:46 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:15:32 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	0.756	0.703	7.0	109	0.00
48 T	2-Nitroaniline	0.166	0.188	-13.3	123	0.00
49 T	1,4-Dinitrobenzene	* 5.000	14.880	-197.6#	762	0.00
50 T	1,3-Dinitrobenzene	0.104	0.111	-6.7	127	0.00
51 T	Dimethyl phthalate	0.908	0.823	9.4	104	0.00
52 T	Acenaphthylene	1.201	1.110	7.6	108	0.00
53 T	2,6-Dinitrotoluene	0.151	0.168	-11.3	108	0.00
54 T	1,2-Dinitrobenzene	0.063	0.078	-23.8#	127	0.00
63 I	IS1_Acenaphthene-d10	1.000	1.000	0.0	111	0.00
64 T	3-Nitroaniline	0.252	0.284	-12.7	119	0.00
65 T	Acenaphthene	1.101	0.991	10.0	107	0.00
66 T	2,4-Dinitrophenol	* 5.000	4.188	16.2	103	0.00
67 T	Dibenzofuran	1.914	1.664	13.1	109	0.00
68 T	2,4-Dinitrotoluene	* 5.000	5.346	-6.9	125	0.00
69 T	4-Nitrophenol	0.192	0.214	-11.5	120	0.00
70 T	2,3,5,6-Tetrachlorophenol	0.365	0.367	-0.5	115	0.00
71 T	2,3,4,6-Tetrachlorophenol	0.344	0.359	-4.4	114	0.00
72 T	Diethyl phthalate	1.359	1.247	8.2	103	0.00
73 T	Fluorene	1.410	1.312	7.0	108	0.00
74 T	4-Chlorophenyl phenyl ether	0.738	0.679	8.0	110	0.00
75 T	4-Nitroaniline	0.246	0.288	-17.1	123	0.00
76 T	4,6-Dinitro-o-cresol	* 5.000	4.739	5.2	124	0.00
77 T	NDPA/DPA	1.176	1.086	7.7	106	0.00
78 T	Azobenzene	1.121	1.102	1.7	110	0.00
79 S	2,4,6-Tribromophenol	0.206	0.197	4.4	102	0.00
80 T	4-Bromophenyl phenyl ether	0.463	0.413	10.8	104	0.00
81 T	Hexachlorobenzene	0.543	0.466	14.2	103	0.00
82 T	Pentachlorophenol	0.282	0.269	4.6	107	0.00
88 I	IS1_Phenanthrene-d10	1.000	1.000	0.0	114	0.00
89 T	Phenanthrene	1.135	1.015	10.6	108	0.00
90 T	Anthracene	1.107	1.023	7.6	107	0.00
91 T	Carbazole	0.989	0.903	8.7	103	0.00
92 T	Di-n-butylphthalate	1.116	0.989	11.4	101	0.00
93 T	Fluoranthene	1.298	1.187	8.6	108	0.00
94 T	Benzidine	0.704	0.649	7.8	100	0.00
95 T	Pyrene	1.359	1.263	7.1	108	0.00
96 S	4-Terphenyl-d14	1.038	0.907	12.6	103	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250619RVT\
 Data File : ABN0619.D
 Acq On : 19 Jun 2025 6:58 am
 Operator : SV106:smz
 Sample : wg2080865-3,32,,ABN 11297 HNY0523C
 Misc : wg2080865,,ical22075
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 08:14:46 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:15:32 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	*	5.000	4.033	19.3	104	0.00
104 I	IS1_Chrysene-d12		1.000	1.000	0.0	110	0.00
105 T	Benzo(a)anthracene		1.278	1.166	8.8	105	0.00
106 T	3,3'-Dichlorobenzidine		0.429	0.393	8.4	95	0.00
107 T	Chrysene		1.267	1.132	10.7	105	0.00
108 T	Bis(2-ethylhexyl)phthalate	*	5.000	4.203	15.9	102	0.00
109 T	Di-n-octylphthalate	*	5.000	3.774	24.5#	95	0.00
110 T	Benzo(b)fluoranthene		1.314	1.079	17.9	89	0.00
111 T	Benzo(k)fluoranthene		1.222	1.097	10.2	102	0.00
112 T	Benzo(a)pyrene		1.157	0.966	16.5	90	0.00
113 I	IS1_Perylene-d12		1.000	1.000	0.0	101	0.00
114 T	Indeno(1,2,3-cd)pyrene		1.068	0.896	16.1	80	0.00
115 T	Dibenzo(a,h)anthracene		1.063	0.873	17.9	81	0.00
116 T	Benzo(ghi)perylene		1.047	0.853	18.5	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\250619RVT\
 Data File : ABN0619.D
 Acq On : 19 Jun 2025 6:58 am
 Operator : SV106:smz
 Sample : wg2080865-3,32,,ABN 11297 HNY0523C
 Misc : wg2080865,,ical22075
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 08:14:46 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:15:32 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...	6.557	152	62704	4.000	ug/ml	0.00
35) IS1_Naphthalene-d8	7.969	136	233073	4.000	ug/ml	# 0.00
63) IS1_Acenaphthene-d10	9.739	164	146915	4.000	ug/ml	0.00
88) IS1_Phenanthrene-d10	11.186	188	296755	4.000	ug/ml	0.00
104) IS1_Chrysene-d12	13.845	240	309276	4.000	ug/ml	0.00
113) IS1_Perylene-d12	15.327	264	304124	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	92670	5.239	ug/ml	0.00
Spiked Amount	2.000	Range 15 - 110	Recovery	=	261.95%#	
7) Phenol-d6	6.181	99	97262	4.691	ug/ml	0.00
Spiked Amount	2.000	Range 15 - 110	Recovery	=	234.55%#	
19) Nitrobenzene-d5	7.204	82	94025	5.474	ug/ml	0.00
Spiked Amount	1.000	Range 30 - 130	Recovery	=	547.40%#	
46) 2-Fluorobiphenyl	9.092	172	243402	4.524	ug/ml	0.00
Spiked Amount	1.000	Range 30 - 130	Recovery	=	452.40%#	
79) 2,4,6-Tribromophenol	10.510	330	36152	4.786	ug/ml	0.00
Spiked Amount	2.000	Range 15 - 110	Recovery	=	239.30%#	
96) 4-Terphenyl-d14	12.780	244	336566	4.372	ug/ml	0.00
Spiked Amount	1.000	Range 30 - 130	Recovery	=	437.20%#	
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	2.222	74	67333	5.981	ug/ml	90
3) Pyridine	2.275	79	78679	4.013	ug/ml	86
5) Aniline	6.151	93	127002	4.661	ug/ml	99
6) 2-Chlorophenol	6.292	128	94432	4.947	ug/ml	95
8) Phenol	6.198	94	109403	4.783	ug/ml	98
9) Bis(2-chloroethyl)ether	6.275	93	86178	4.742	ug/ml#	72
10) 1,3-Dichlorobenzene	6.481	146	111977	4.638	ug/ml	98
11) 1,4-Dichlorobenzene	6.575	146	115068	4.662	ug/ml	98
12) 1,2-Dichlorobenzene	6.751	146	111007	4.751	ug/ml	97
13) Benzyl alcohol	6.757	79	70795	4.961	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.933	45	185684	4.381	ug/ml#	76
15) 2-Methylphenol	6.928	108	78826	3.921	ug/ml	98
16) Hexachloroethane	7.139	117	39925	4.663	ug/ml#	53
17) n-Nitrosodi-n-propylamine	7.081	70	62352	4.654	ug/ml	94
18) 3-Methylphenol/4-Methy...	7.110	108	83880	4.820	ug/ml	95
20) Nitrobenzene	7.228	77	94541	5.393	ug/ml	99
21) Isophorone	7.504	82	162157	4.506	ug/ml	98
22) 2-Nitrophenol	7.580	139	47377	5.938	ug/ml	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : ABN0619.D
 Acq On : 19 Jun 2025 6:58 am
 Operator : SV106:smz
 Sample : wg2080865-3,32,,ABN 11297 HNY0523C
 Misc : wg2080865,,ical22075
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 08:14:46 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:15:32 2025
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23)	2,4-Dimethylphenol	7.675	107	89921	4.787	ug/ml	97
24)	Bis(2-chloroethoxy)met...	7.769	93	110211	4.290	ug/ml	99
25)	2,4-Dichlorophenol	7.845	162	88897	4.987	ug/ml#	94
26)	1,2,4-Trichlorobenzene	7.928	180	104148	4.558	ug/ml	97
36)	Naphthalene	7.992	128	285441	4.594	ug/ml	99
37)	Benzoic Acid	7.751	105	36327	4.587	ug/ml	95
38)	4-Chloroaniline	8.075	65	36312	4.735	ug/ml	92
39)	Hexachlorobutadiene	8.157	225	65765	4.628	ug/ml	99
40)	p-Chloro-m-cresol	8.598	107	76269	4.027	ug/ml	98
41)	2-Methylnaphthalene	8.710	142	176963	4.763	ug/ml	95
42)	1-Methylnaphthalene	8.804	115	64395	4.515	ug/ml	97
43)	Hexachlorocyclopentadiene	8.886	237	83057	4.753	ug/ml	99
44)	2,4,6-Trichlorophenol	9.010	196	71045	4.854	ug/ml	97
45)	2,4,5-Trichlorophenol	9.033	196	77732	5.235	ug/ml	99
47)	2-Chloronaphthalene	9.192	162	204743	4.645	ug/ml	95
48)	2-Nitroaniline	9.304	138	54793	5.657	ug/ml	88
49)	1,4-Dinitrobenzene	9.439	168	29503M3	14.880	ug/ml	
50)	1,3-Dinitrobenzene	9.510	168	32391	5.332	ug/ml#	1
51)	Dimethyl phthalate	9.504	163	239824	4.530	ug/ml#	99
52)	Acenaphthylene	9.592	152	323491	4.621	ug/ml	99
53)	2,6-Dinitrotoluene	9.551	165	48851	5.561	ug/ml#	79
54)	1,2-Dinitrobenzene	9.592	168	22648M2	6.158	ug/ml	
64)	3-Nitroaniline	9.704	138	52177	5.631	ug/ml#	94
65)	Acenaphthene	9.769	154	182027	4.499	ug/ml	91
66)	2,4-Dinitrophenol	9.810	184	19866	4.188	ug/ml#	82
67)	Dibenzofuran	9.939	168	305631	4.348	ug/ml	93
68)	2,4-Dinitrotoluene	9.939	165	68644	5.346	ug/ml	88
69)	4-Nitrophenol	9.892	65	39296	5.560	ug/ml#	90
70)	2,3,5,6-Tetrachlorophenol	10.033	232	67488	5.031	ug/ml	97
71)	2,3,4,6-Tetrachlorophenol	10.074	232	65867	5.211	ug/ml	98
72)	Diethyl phthalate	10.204	149	228976	4.588	ug/ml	98
73)	Fluorene	10.274	166	240912	4.652	ug/ml	96
74)	4-Chlorophenyl phenyl ...	10.292	204	124727	4.604	ug/ml#	86
75)	4-Nitroaniline	10.298	138	52917	5.868	ug/ml	87
76)	4,6-Dinitro-o-cresol	10.339	198	36140	4.739	ug/ml#	65
77)	NDPA/DPA	10.410	169	199361	4.617	ug/ml	96
78)	Azobenzene	10.445	77	202366	4.914	ug/ml#	93
80)	4-Bromophenyl phenyl e...	10.769	248	75780	4.455	ug/ml#	83
81)	Hexachlorobenzene	10.821	284	85544	4.290	ug/ml#	81
82)	Pentachlorophenol	11.016	266	49463	4.769	ug/ml	100
89)	Phenanthrene	11.210	178	376566	4.471	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : ABN0619.D
 Acq On : 19 Jun 2025 6:58 am
 Operator : SV106:smz
 Sample : wg2080865-3,32,,ABN 11297 HNY0523C
 Misc : wg2080865,,ical22075
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 08:14:46 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:15:32 2025
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

90)	Anthracene	11.257	178	379439	4.618	ug/ml	100
91)	Carbazole	11.421	167	335126	4.568	ug/ml	100
92)	Di-n-butylphthalate	11.816	149	366738	4.428	ug/ml	99
93)	Fluoranthene	12.368	202	440469	4.575	ug/ml#	91
94)	Benzydine	12.521	184	240677	4.611	ug/ml#	94
95)	Pyrene	12.592	202	468395	4.646	ug/ml	99
97)	Butyl benzyl phthalate	13.310	149	149724	4.033	ug/ml	88
105)	Benzo(a)anthracene	13.839	228	450931	4.563	ug/ml	100
106)	3,3'-Dichlorobenzidine	13.839	252	151985	4.582	ug/ml#	96
107)	Chrysene	13.874	228	437478	4.466	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.951	149	233967	4.203	ug/ml	95
109)	Di-n-octylphthalate	14.639	149	347557	3.774	ug/ml#	79
110)	Benzo(b)fluoranthene	14.956	252	417095	4.105	ug/ml#	93
111)	Benzo(k)fluoranthene	14.986	252	423918	4.486	ug/ml#	92
112)	Benzo(a)pyrene	15.274	252	373603	4.177	ug/ml#	91
114)	Indeno(1,2,3-cd)pyrene	16.339	276	340554M6	4.195	ug/mL	
115)	Dibenzo(a,h)anthracene	16.362	278	331922	4.109	ug/ml#	89
116)	Benzo(ghi)perylene	16.598	276	324131	4.070	ug/ml#	86

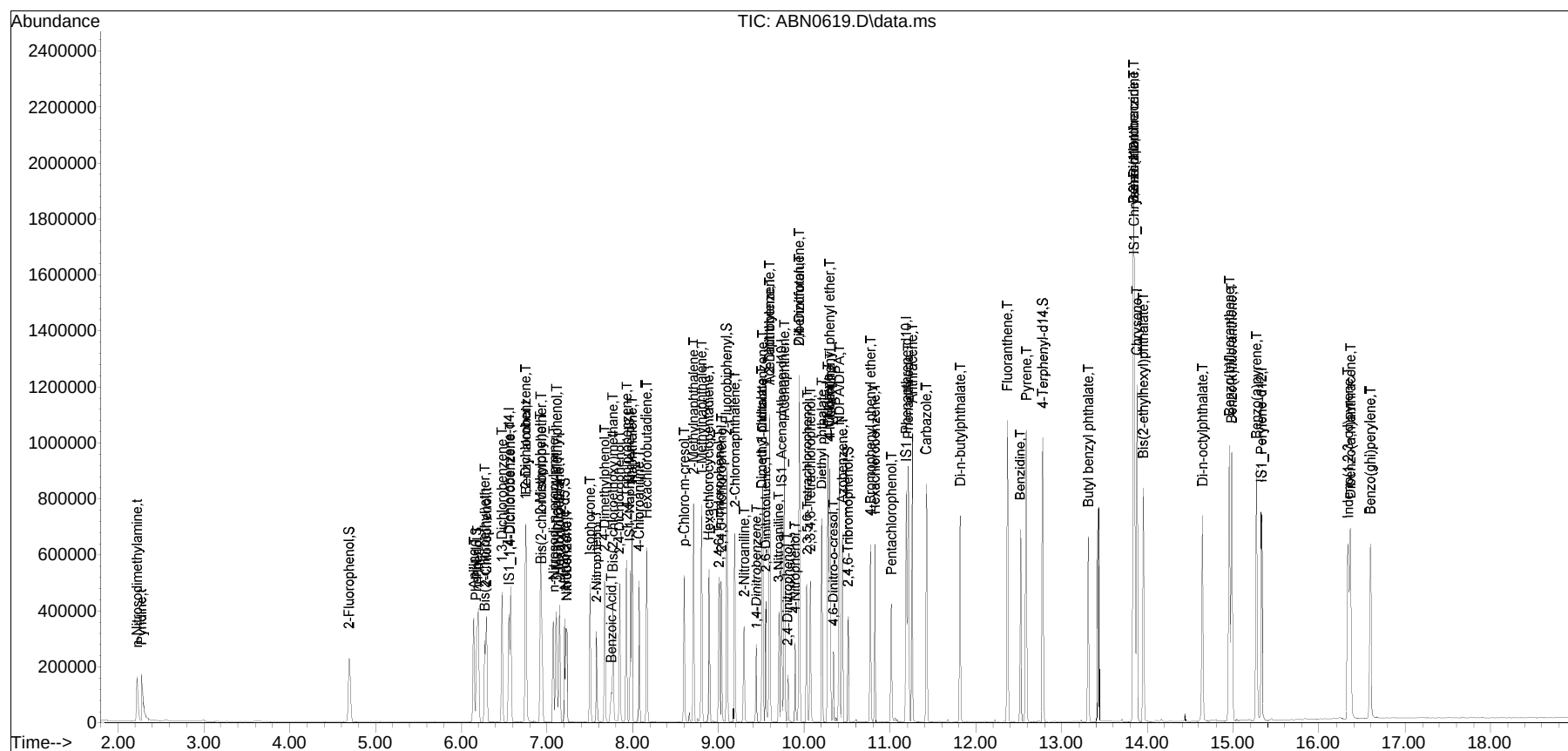
(#) = qualifier out of range (m) = manual integration (+) = signals summed

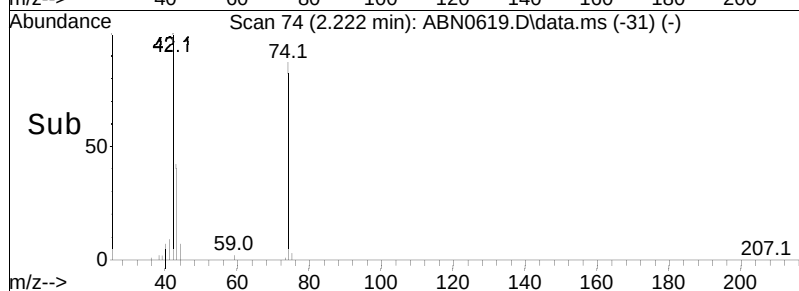
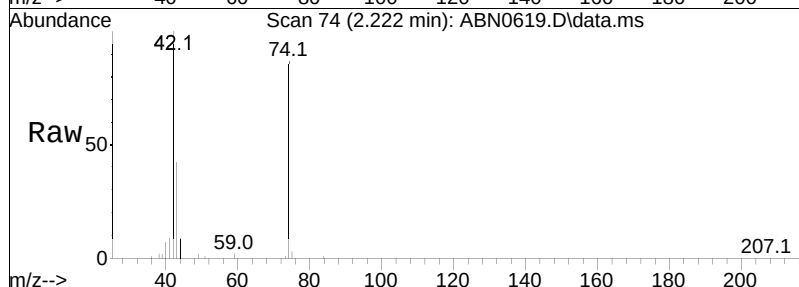
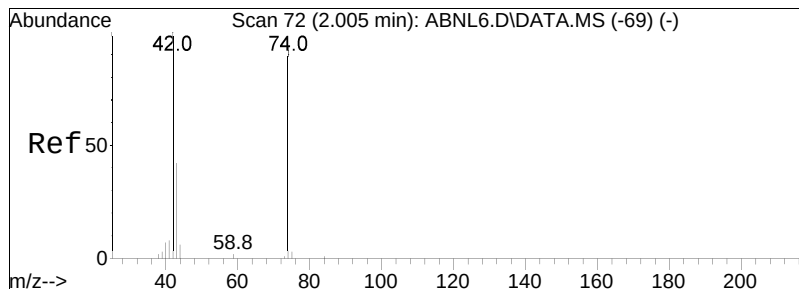
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
Data File : ABN0619.D
Acq On : 19 Jun 2025 6:58 am
Operator : SV106:smz
Sample : wg2080865-3,32,,ABN 11297 HNY0523C
Misc : wg2080865,,ical22075
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 08:14:46 2025
Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 19 08:15:32 2025
Response via : Initial Calibration

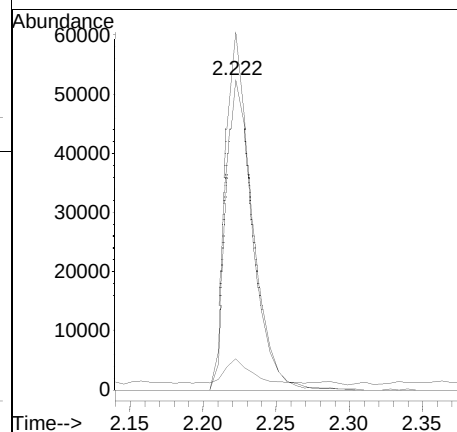
Sub List : ABNical - ABN ical sublist

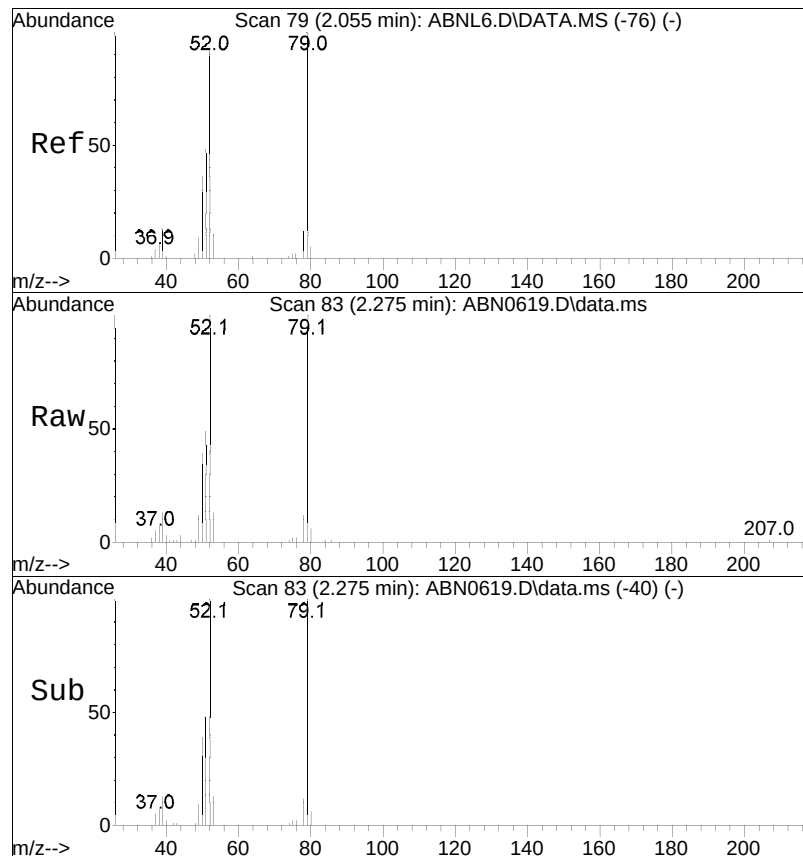




#2
 n-Nitrosodimethylamine
 Concen: 5.98 ug/ml
 RT: 2.222 min Scan# 74
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

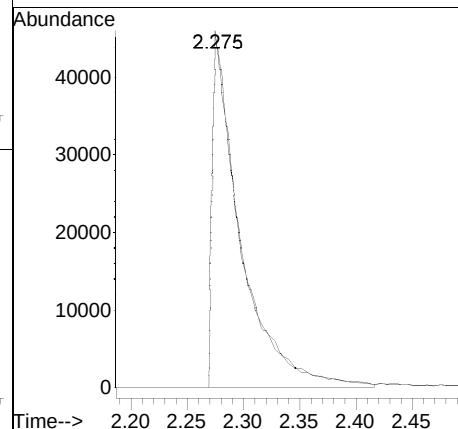
Tgt Ion	Ratio	Lower	Upper
74	100		
42	112.5	100.0	150.0
44	7.2	6.7	10.1

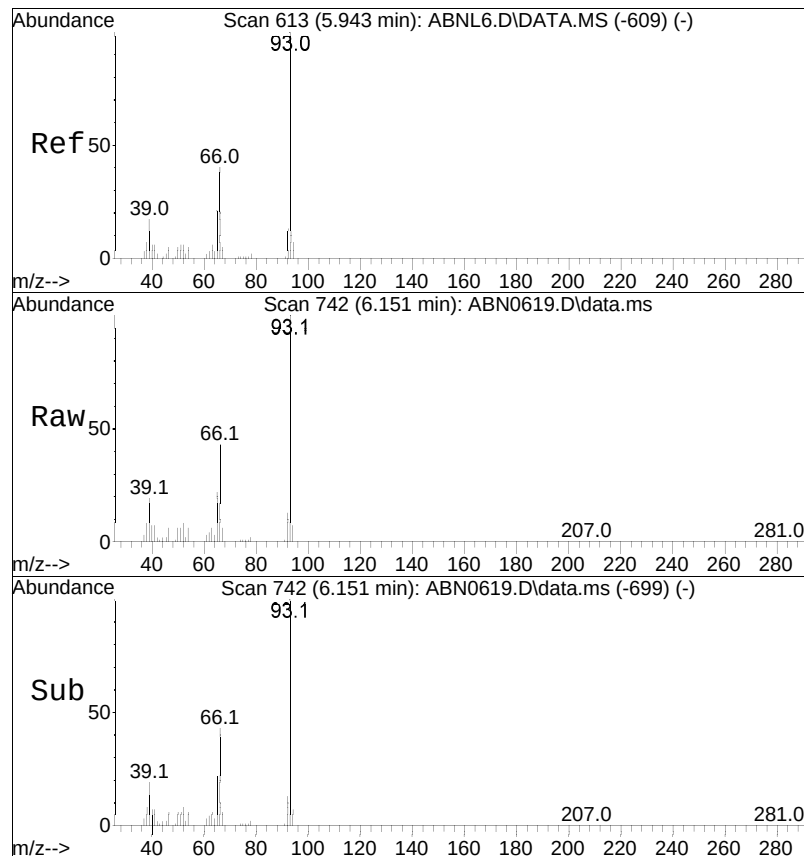




#3
 Pyridine
 Concen: 4.01 ug/ml
 RT: 2.275 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

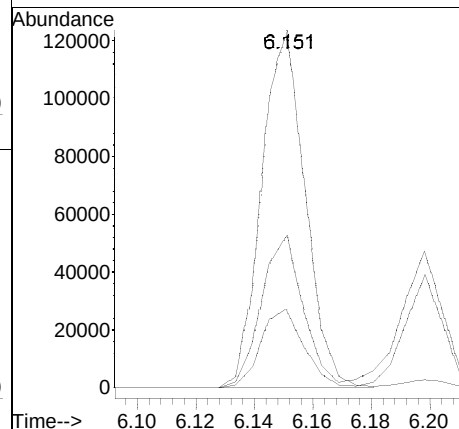
Tgt Ion	Ratio	Lower	Upper
79	100		
52	100.7	93.1	139.7

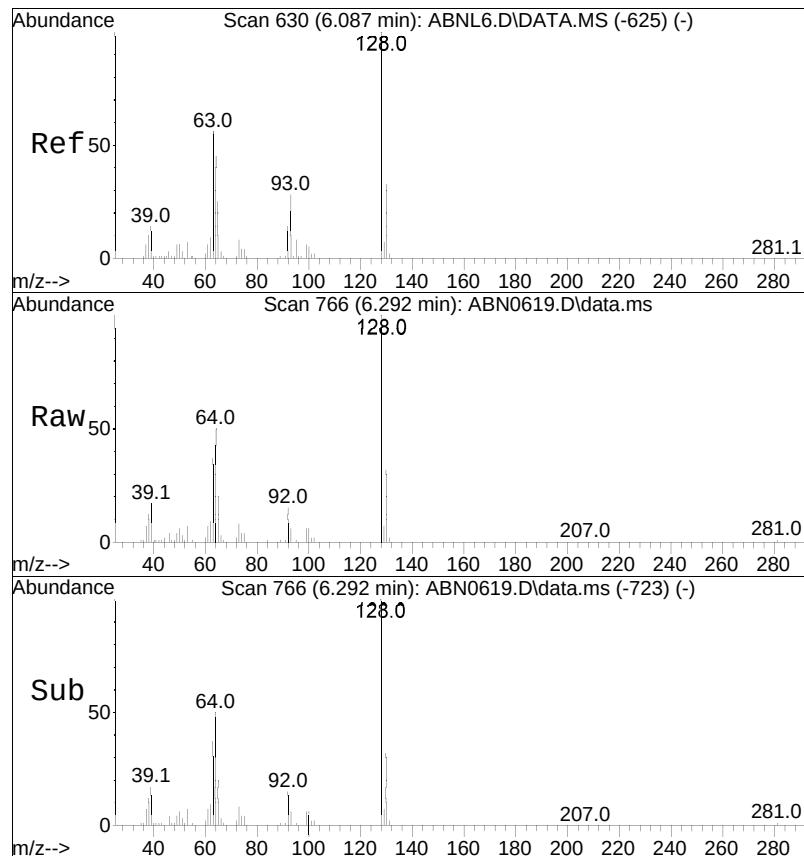




#5
Aniline
Concen: 4.66 ug/ml
RT: 6.151 min Scan# 742
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2025 6:58 am

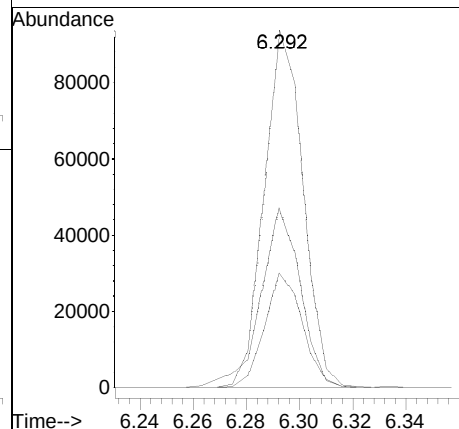
Tgt Ion:	93	Resp:	127002
Ion Ratio	Lower	Upper	
93	100		
66	41.4	32.6	49.0
65	22.1	17.6	26.4

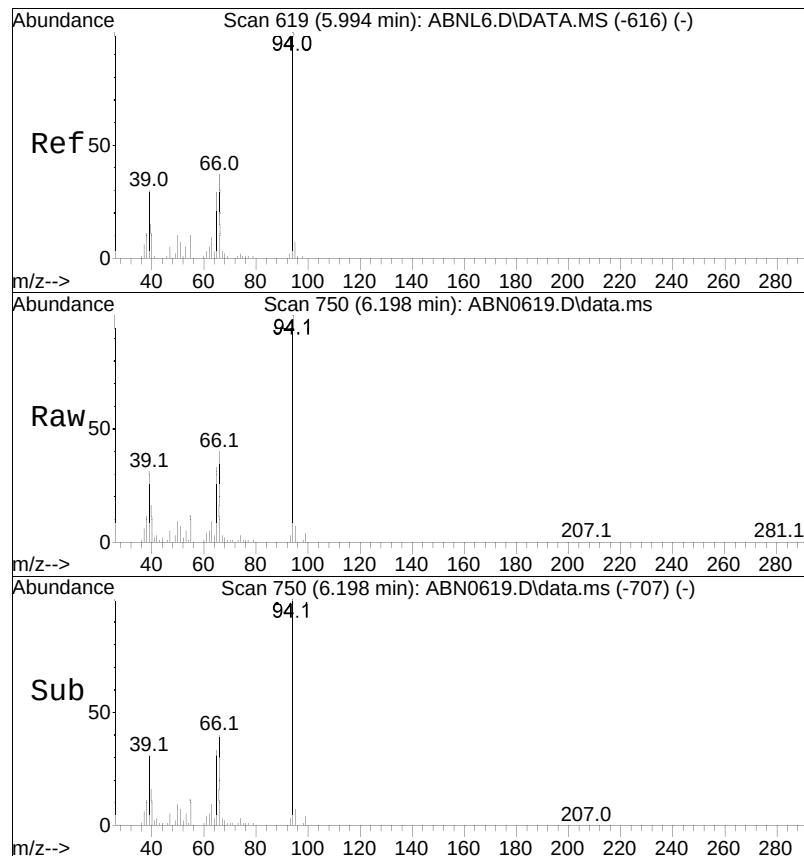




#6
 2-Chlorophenol
 Concen: 4.95 ug/ml
 RT: 6.292 min Scan# 766
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

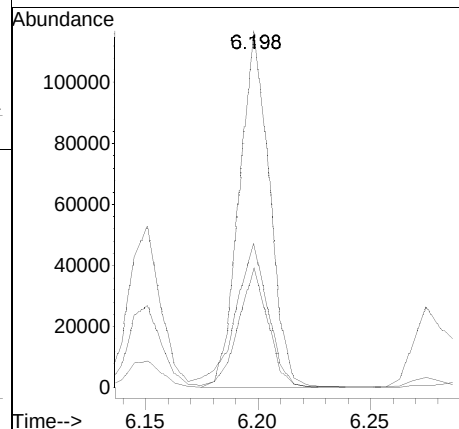
Tgt	Ion:128	Resp:	94432
Ion	Ratio	Lower	Upper
128	100		
64	51.5	45.1	67.7
130	31.4	26.2	39.4

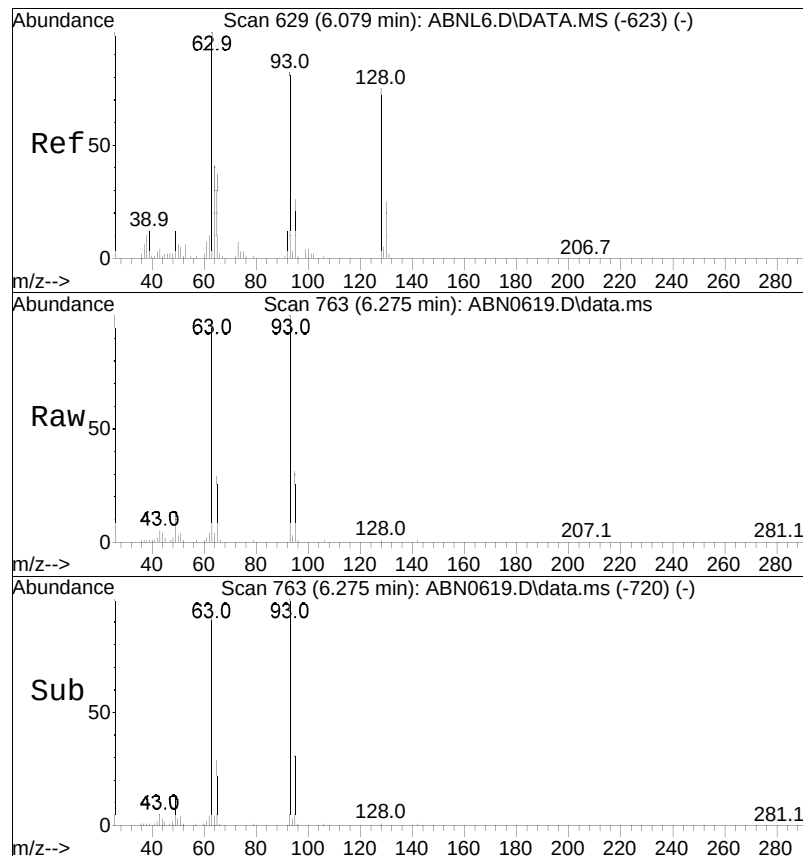




#8
 Phenol
 Concen: 4.78 ug/ml
 RT: 6.198 min Scan# 750
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

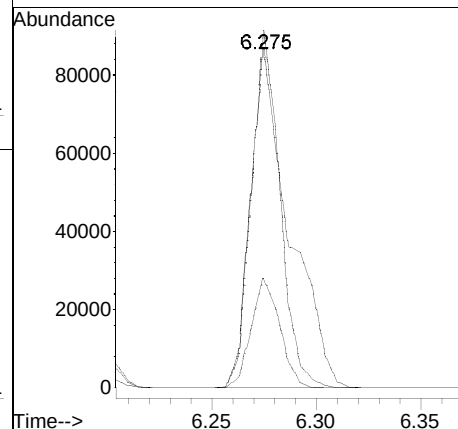
Tgt Ion	Ratio	Lower	Upper
94	100		
65	33.0	26.0	39.0
66	44.2	33.8	50.8

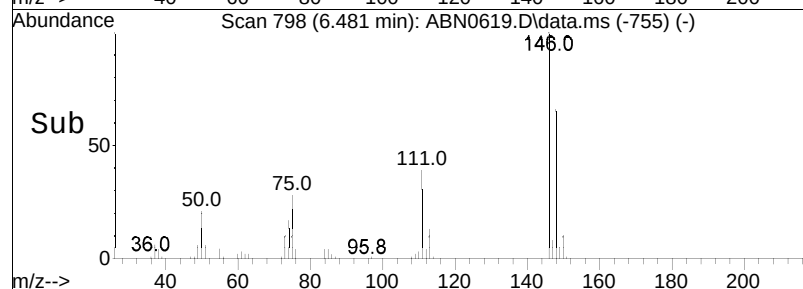
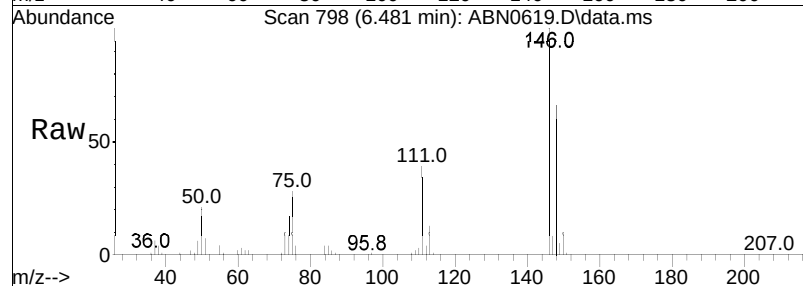
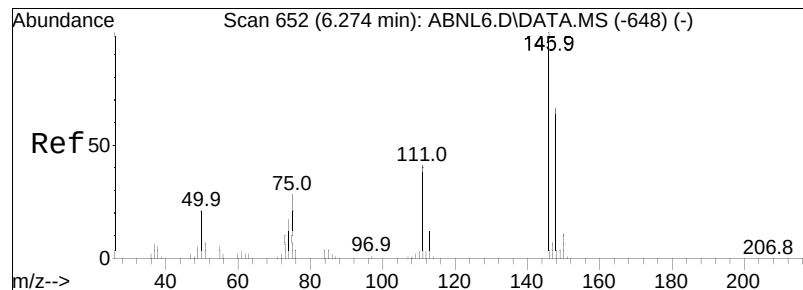




#9
 Bis(2-chloroethyl)ether
 Concen: 4.74 ug/ml
 RT: 6.275 min Scan# 763
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

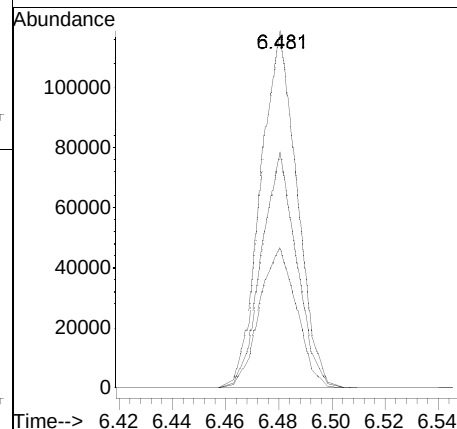
Tgt Ion	Ratio	Lower	Upper
93	100		
63	128.8	74.6	111.8#
95	30.8	25.9	38.9

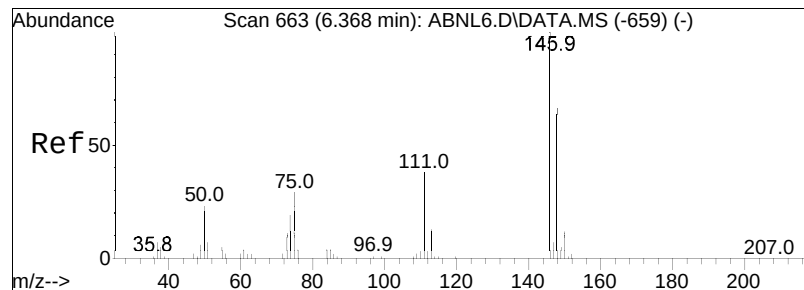




#10
 1,3-Dichlorobenzene
 Concen: 4.64 ug/ml
 RT: 6.481 min Scan# 798
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

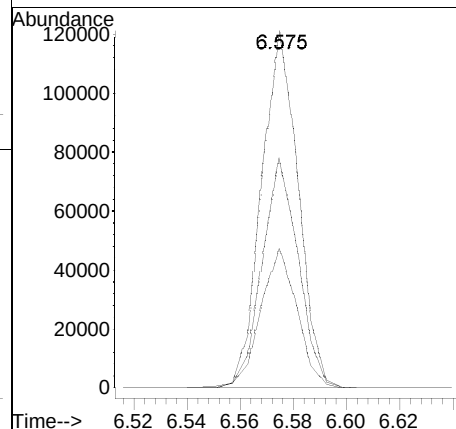
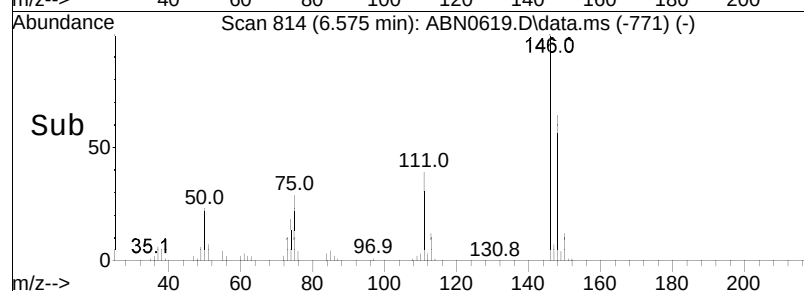
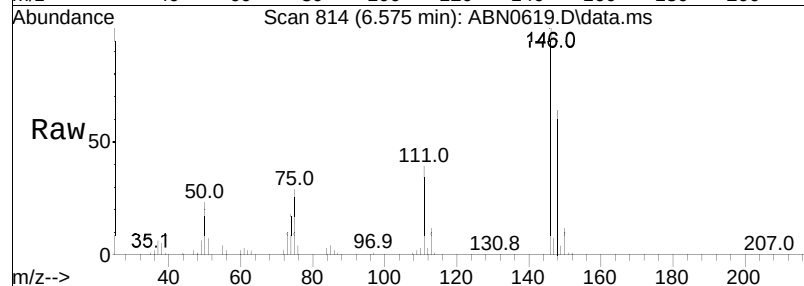
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	111977		
111	40.2		34.3	51.5
148	63.9		50.8	76.2

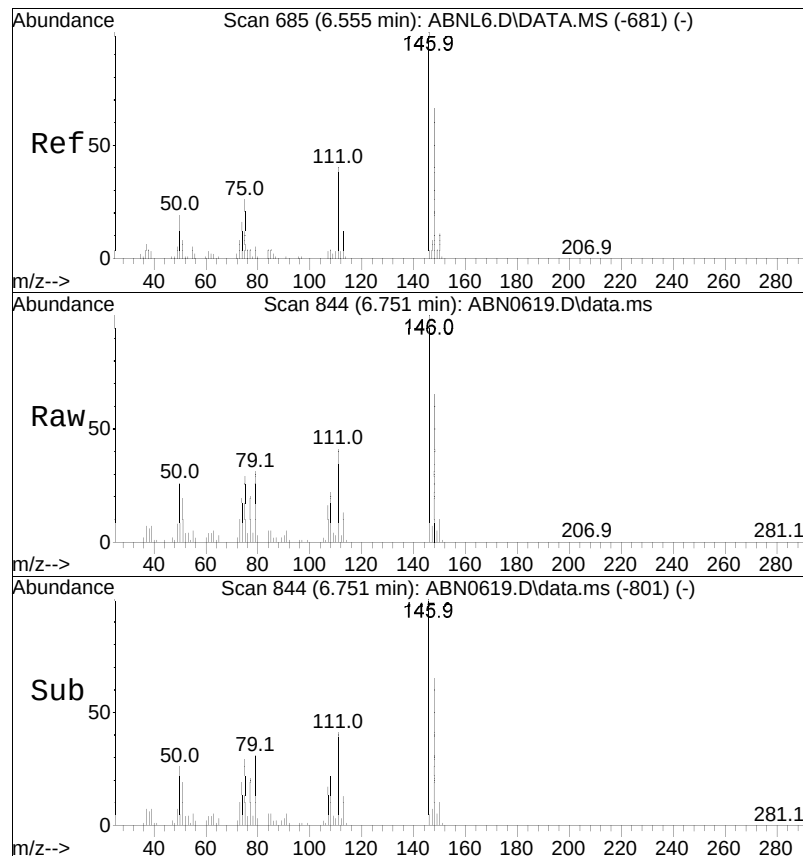




#11
 1,4-Dichlorobenzene
 Concen: 4.66 ug/ml
 RT: 6.575 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

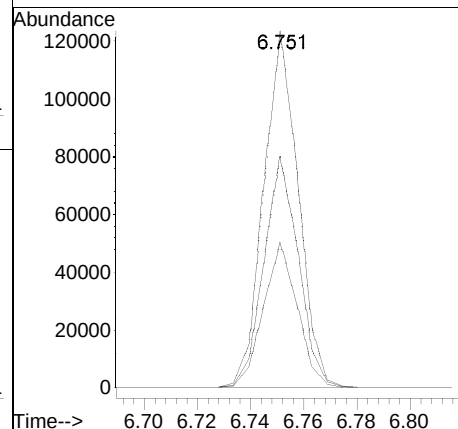
Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.7	76.1
111	39.1	33.4	50.0

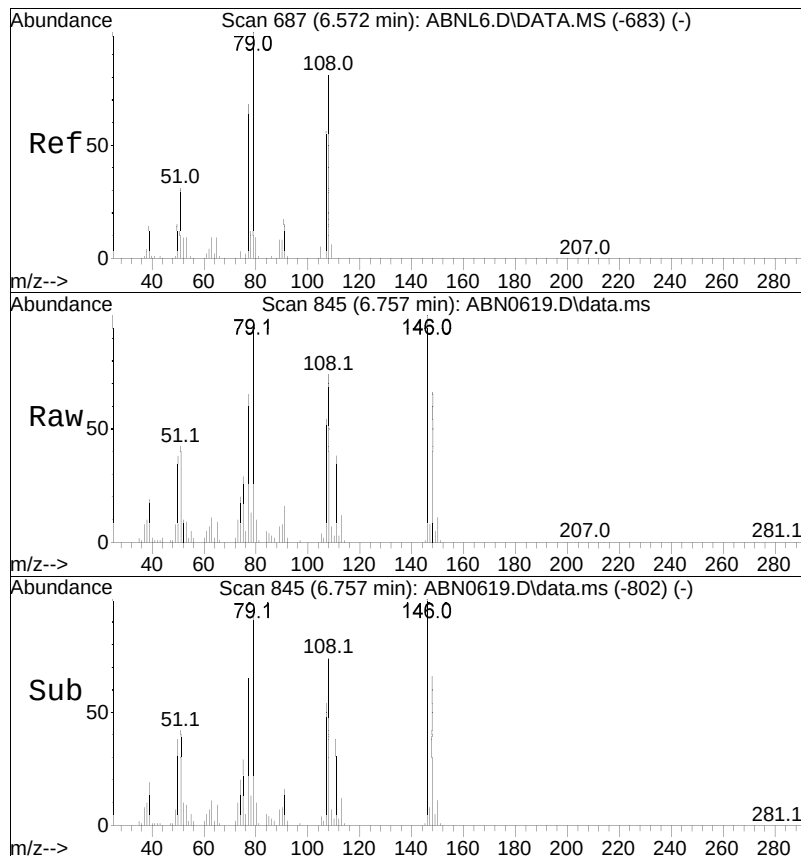




#12
 1,2-Dichlorobenzene
 Concen: 4.75 ug/ml
 RT: 6.751 min Scan# 844
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

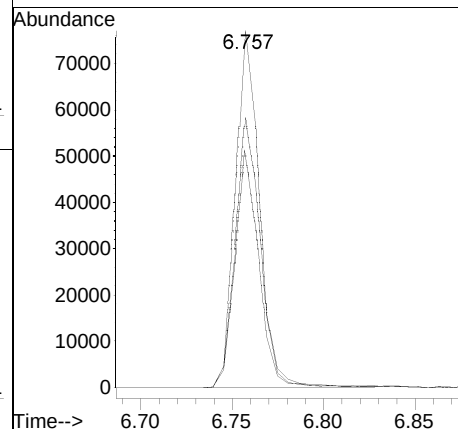
Tgt Ion:	146	Resp:	111007
Ion Ratio	Lower	Upper	
146	100		
111	40.2	34.6	52.0
148	64.8	50.2	75.4

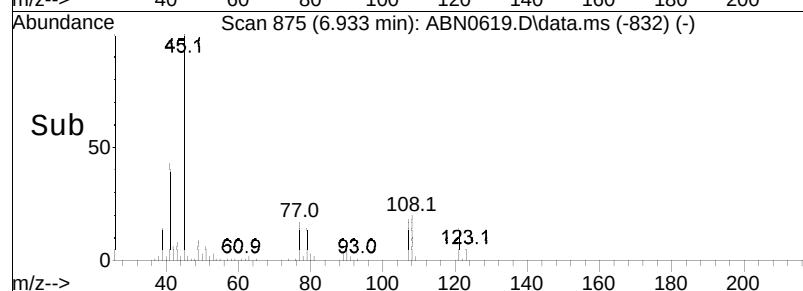
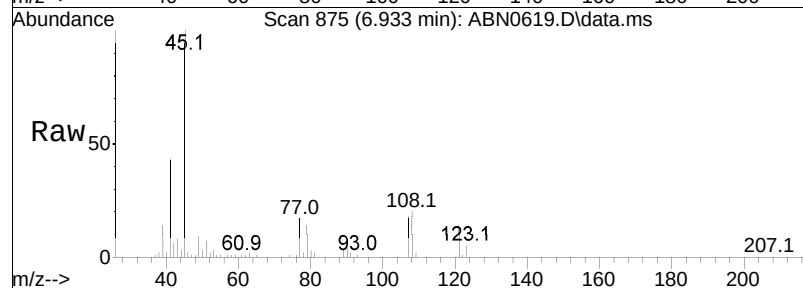
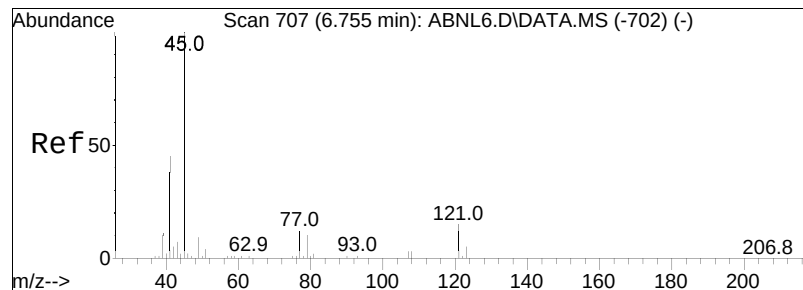




#13
 Benzyl alcohol
 Concen: 4.96 ug/ml
 RT: 6.757 min Scan# 845
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

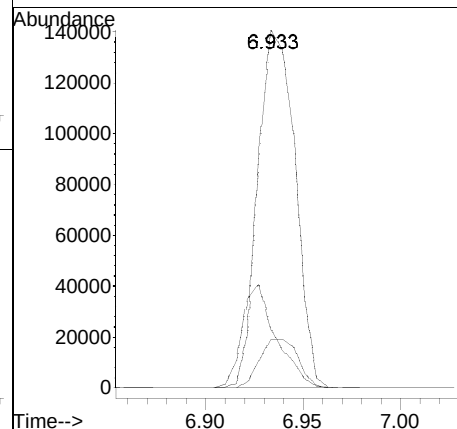
Tgt Ion:	79	Resp:	70795
Ion Ratio	Lower	Upper	
79	100		
77	66.1	54.9	82.3
108	78.0	63.1	94.7

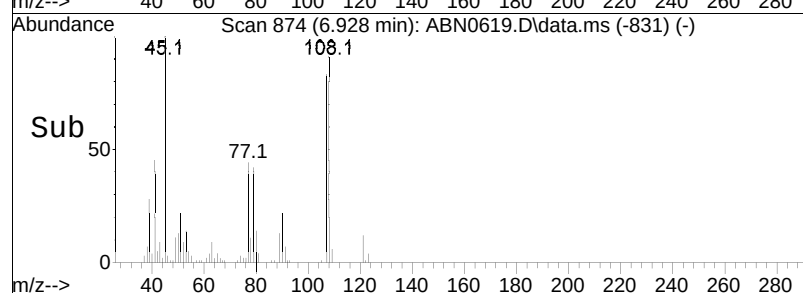
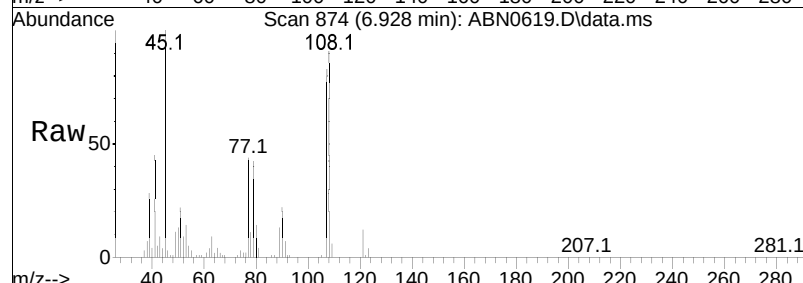
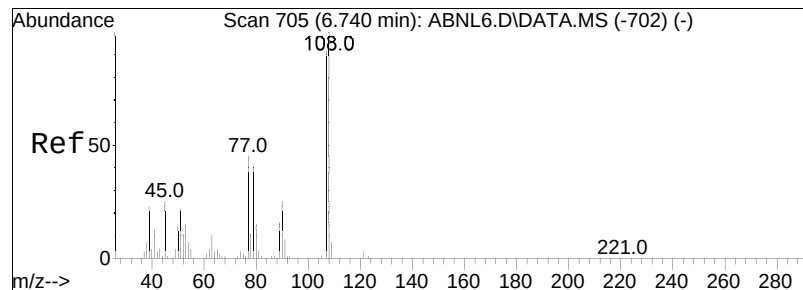




#14
 Bis(2-chloroisopropyl)ether
 Concen: 4.38 ug/ml
 RT: 6.933 min Scan# 875
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

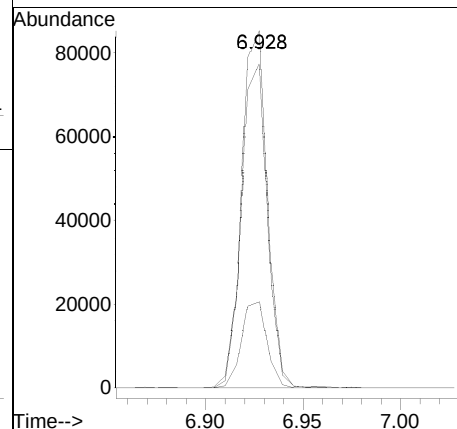
Tgt Ion:	45	Resp:	185684
Ion Ratio	100	Lower	Upper
45	100		
121	14.1	9.8	14.6
77	26.6	6.1	9.1#

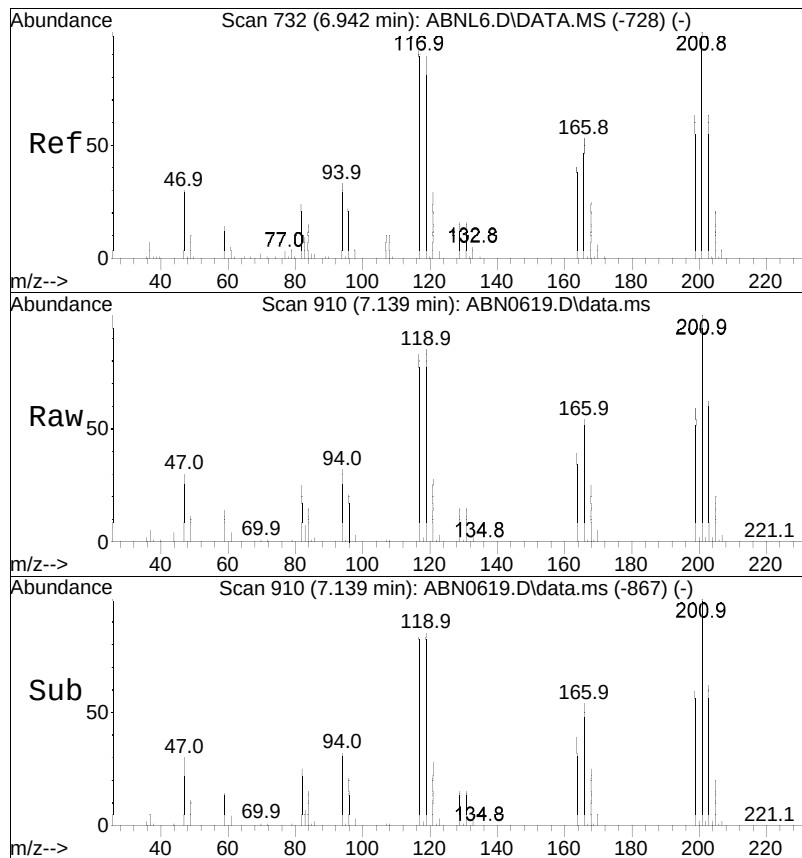




#15
 2-Methylphenol
 Concen: 3.92 ug/ml
 RT: 6.928 min Scan# 874
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

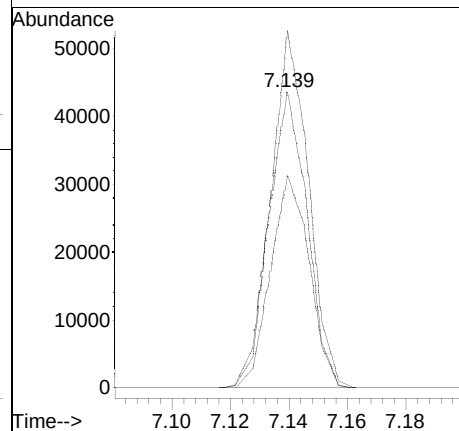
Tgt Ion	Ratio	Lower	Upper
108	100		
107	90.0	70.7	106.1
90	23.8	18.7	28.1

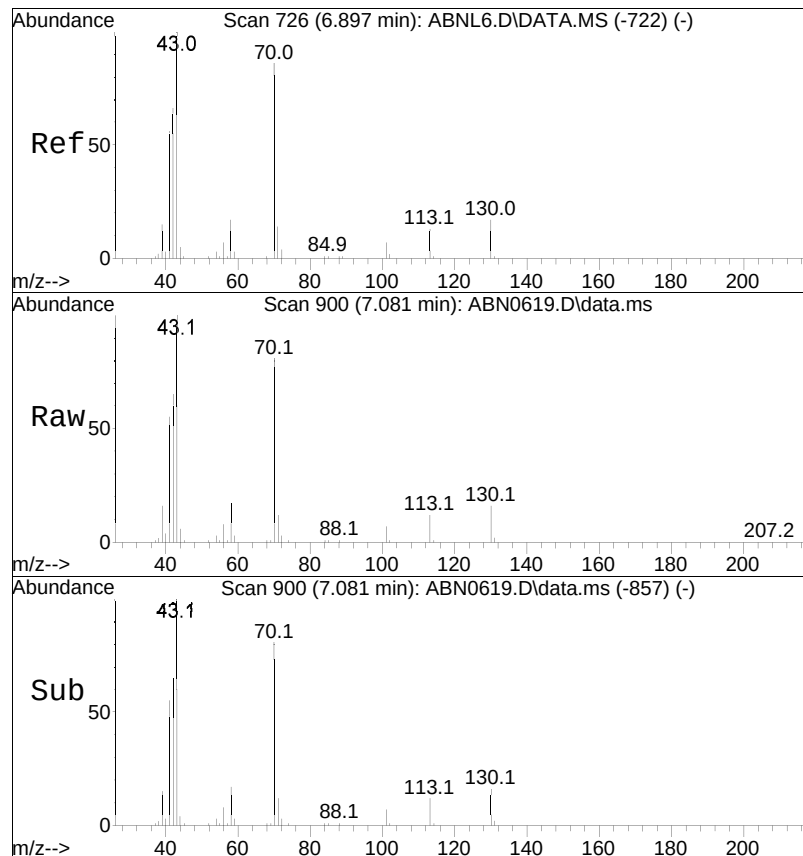




#16
 Hexachloroethane
 Concen: 4.66 ug/ml
 RT: 7.139 min Scan# 910
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

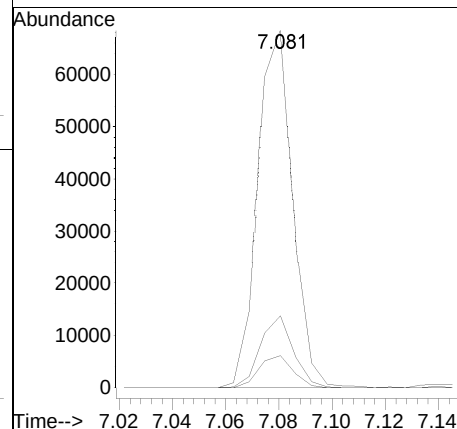
Tgt Ion:	117	Resp:	39925
Ion Ratio	Lower	Upper	
117	100		
201	116.9	58.6	87.8#
199	71.6	36.9	55.3#

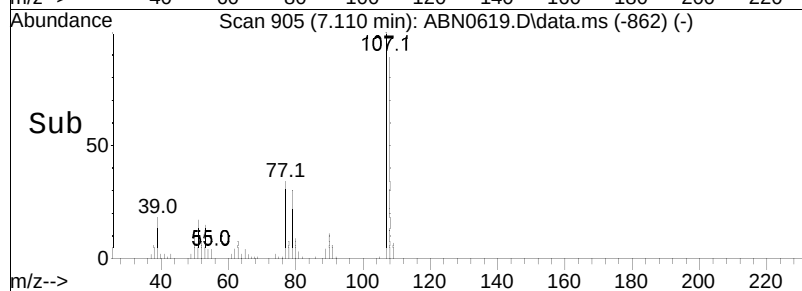
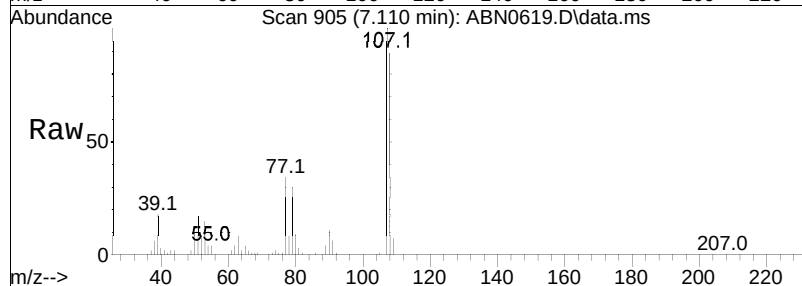
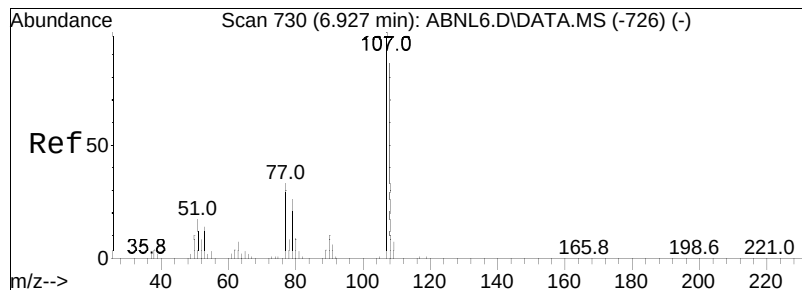




#17
 n-Nitrosodi-n-propylamine
 Concen: 4.65 ug/ml
 RT: 7.081 min Scan# 900
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

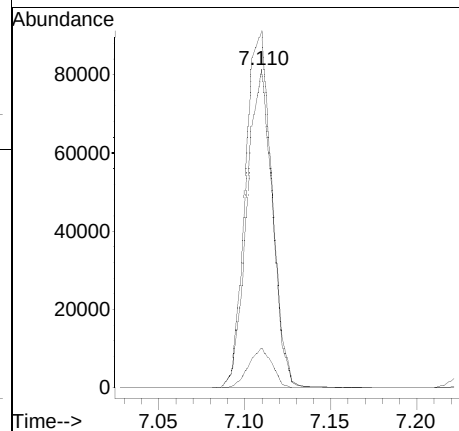
Tgt Ion:	70	Resp:	62352
Ion Ratio	Lower	Upper	
70	100		
130	19.0	18.2	27.4
101	8.7	7.8	11.8

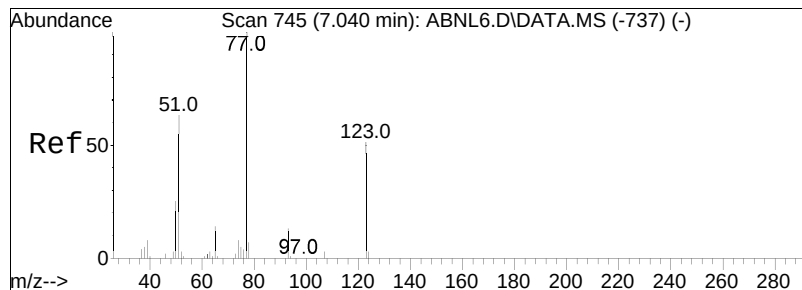




#18
 3-Methylphenol/4-Methylphenol
 Concen: 4.82 ug/ml
 RT: 7.110 min Scan# 905
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

Tgt Ion	Ratio	Resp	Lower	Upper
108	100	83880		
107	116.2		88.6	132.8
90	11.6		8.8	13.2





#20

Nitrobenzene

Concen: 5.39 ug/ml

RT: 7.228 min Scan# 925

Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 6:58 am

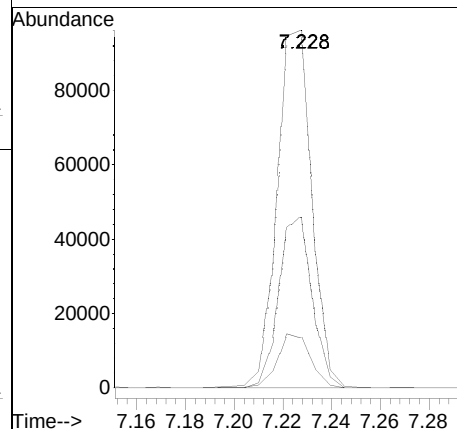
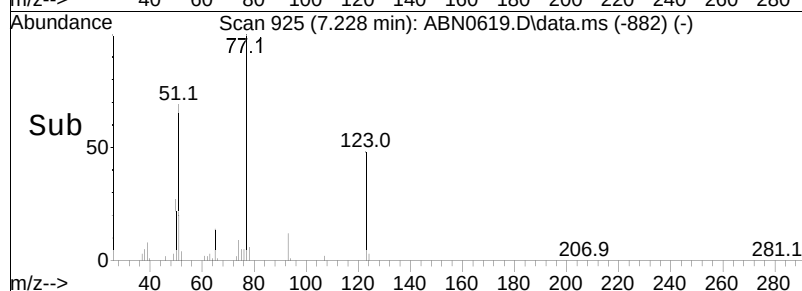
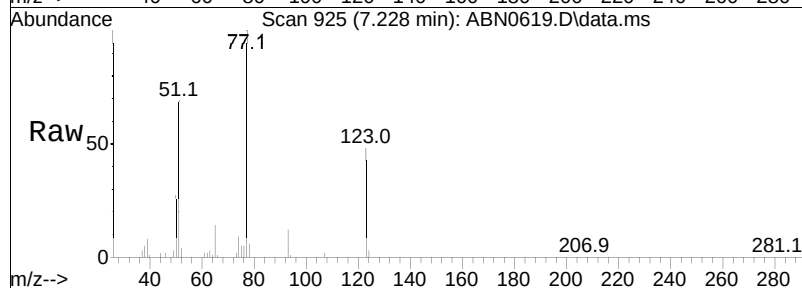
Tgt Ion: 77 Resp: 94541

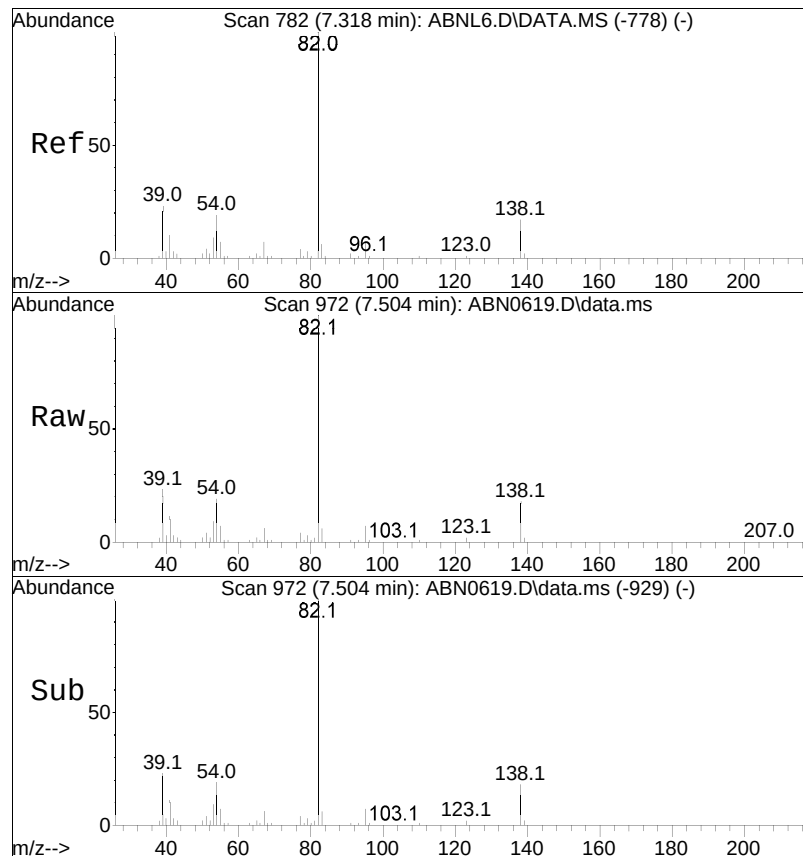
Ion Ratio Lower Upper

77 100

123 46.0 36.3 54.5

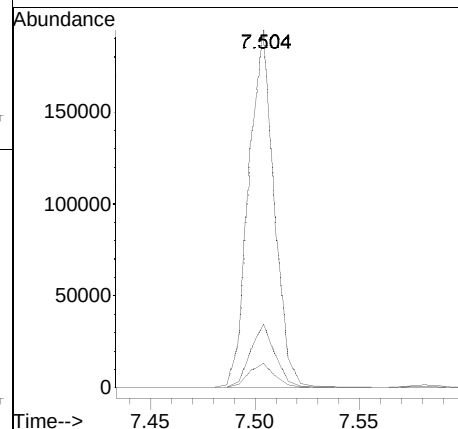
65 14.6 11.6 17.4

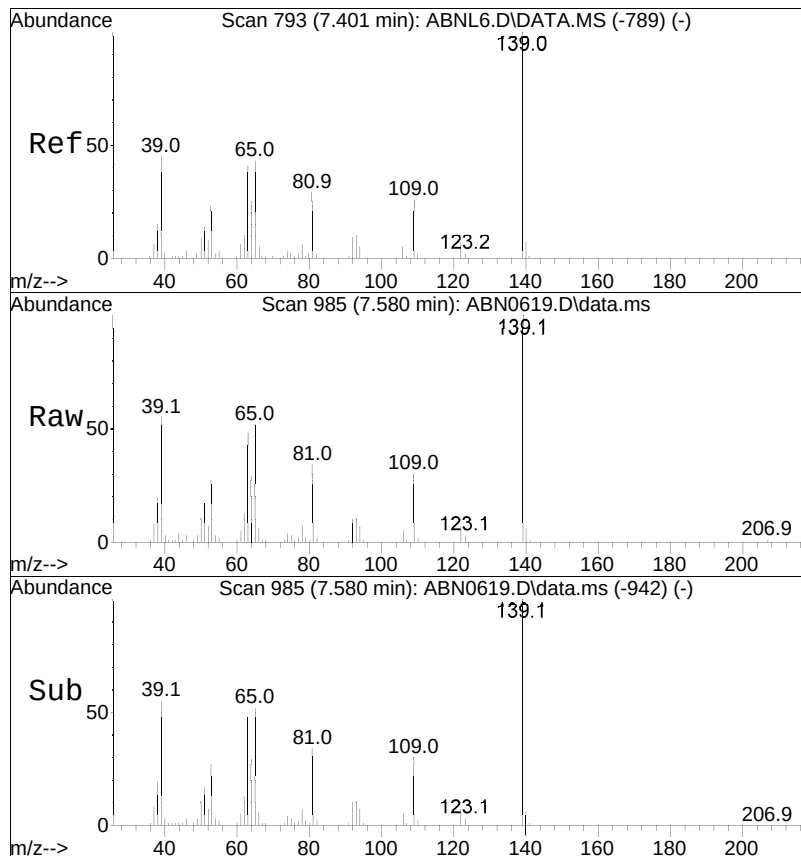




#21
 Isophorone
 Concen: 4.51 ug/ml
 RT: 7.504 min Scan# 972
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

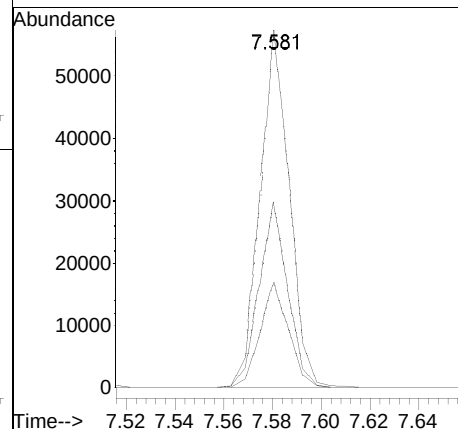
Tgt Ion	Ratio	Lower	Upper
82	100		
138	17.4	14.7	22.1
95	6.9	5.2	7.8

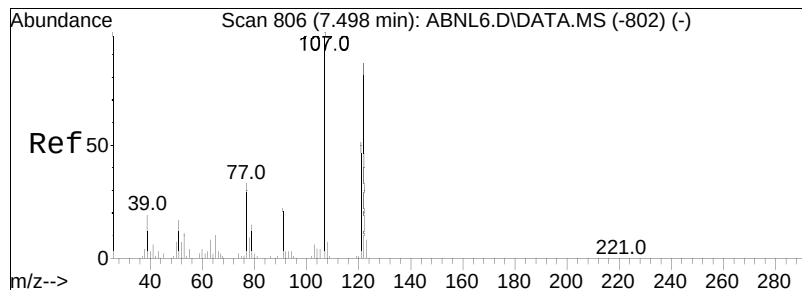




#22
 2-Nitrophenol
 Concen: 5.94 ug/ml
 RT: 7.580 min Scan# 985
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

Tgt Ion	Ratio	Lower	Upper
139	100		
109	28.8	19.4	29.0
65	51.0	46.1	69.1





#23

2,4-Dimethylphenol

Concen: 4.79 ug/ml

RT: 7.675 min Scan# 1001

Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 6:58 am

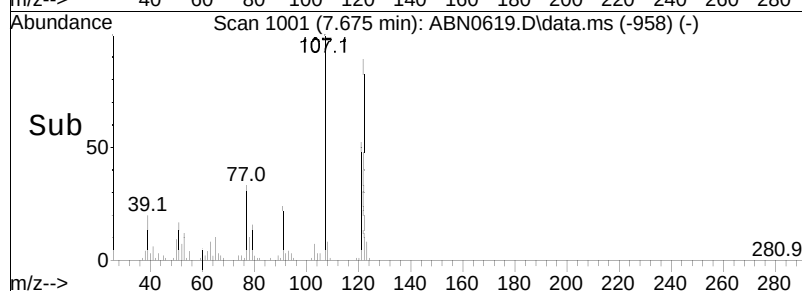
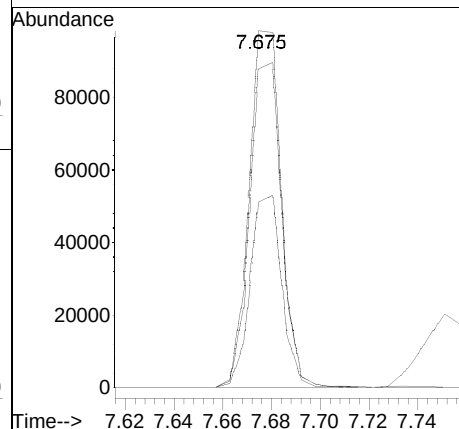
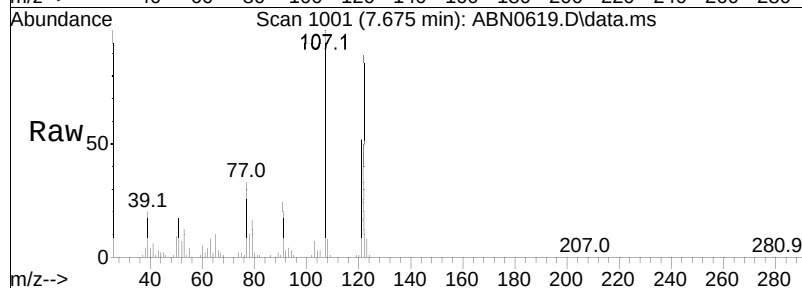
Tgt Ion:107 Resp: 89921

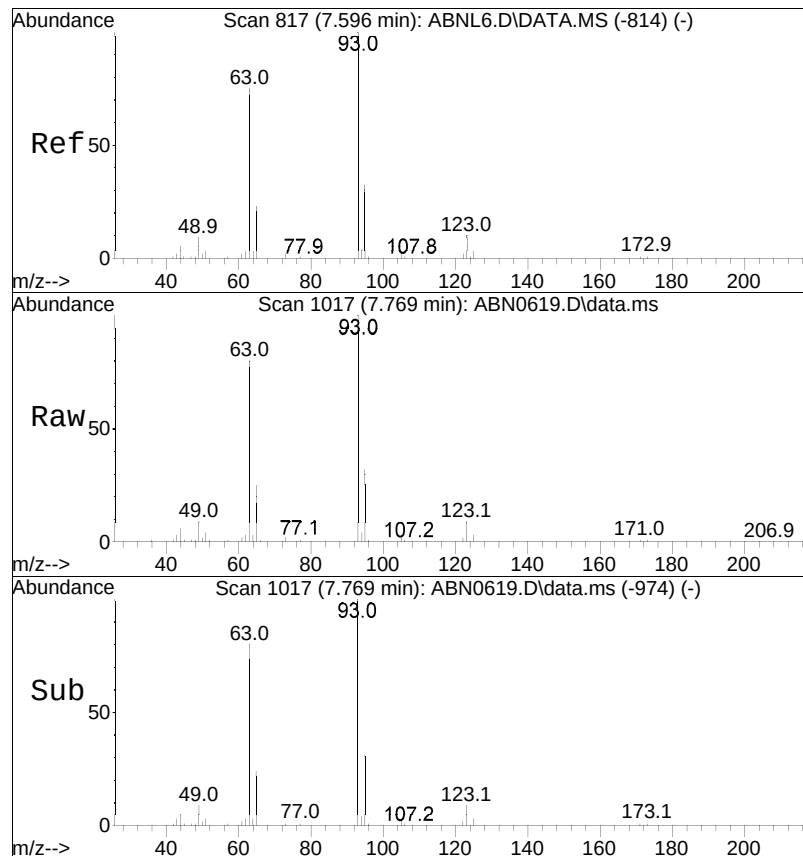
Ion Ratio Lower Upper

107 100

121 53.0 40.0 60.0

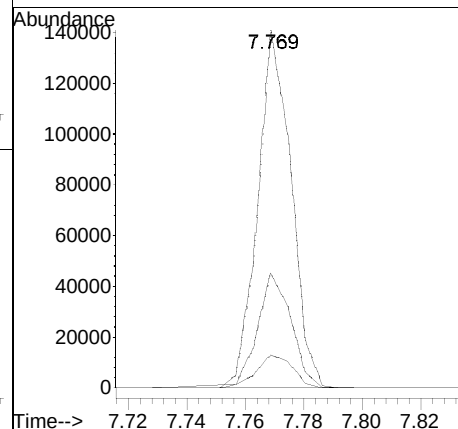
122 90.2 70.2 105.4

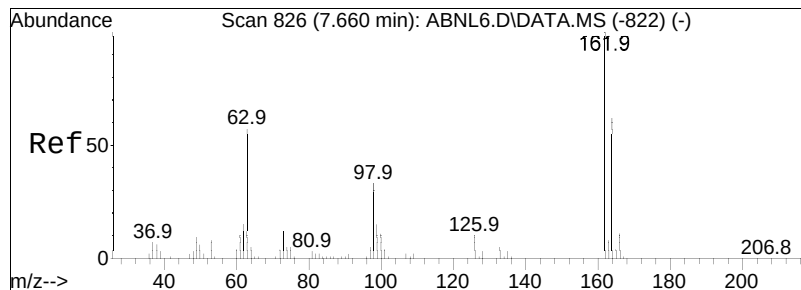




#24
 Bis(2-chloroethoxy)methane
 Concen: 4.29 ug/ml
 RT: 7.769 min Scan# 1017
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

Tgt Ion:	93	Resp:	110211
Ion Ratio	Lower	Upper	
93	100		
95	32.3	25.8	38.8
123	11.4	10.1	15.1





#25

2,4-Dichlorophenol

Concen: 4.99 ug/ml

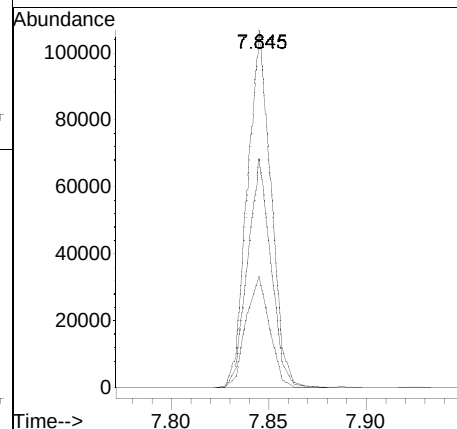
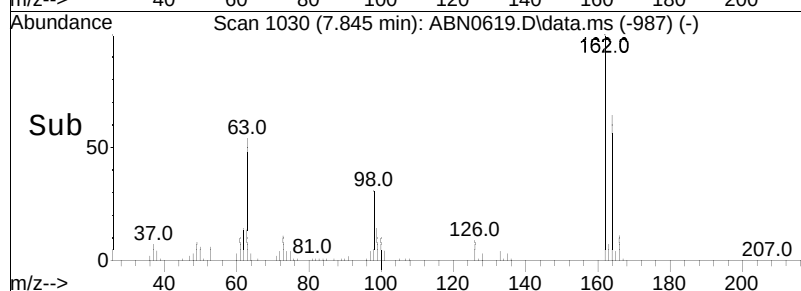
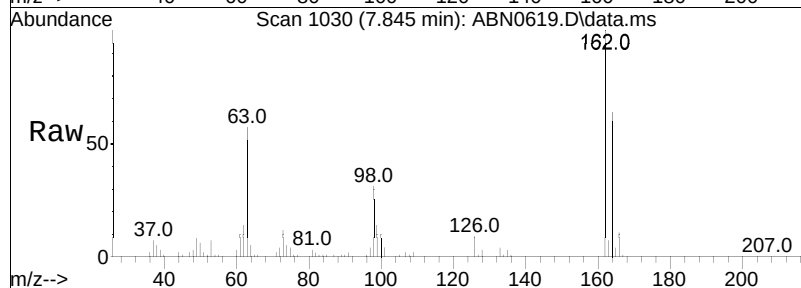
RT: 7.845 min Scan# 1030

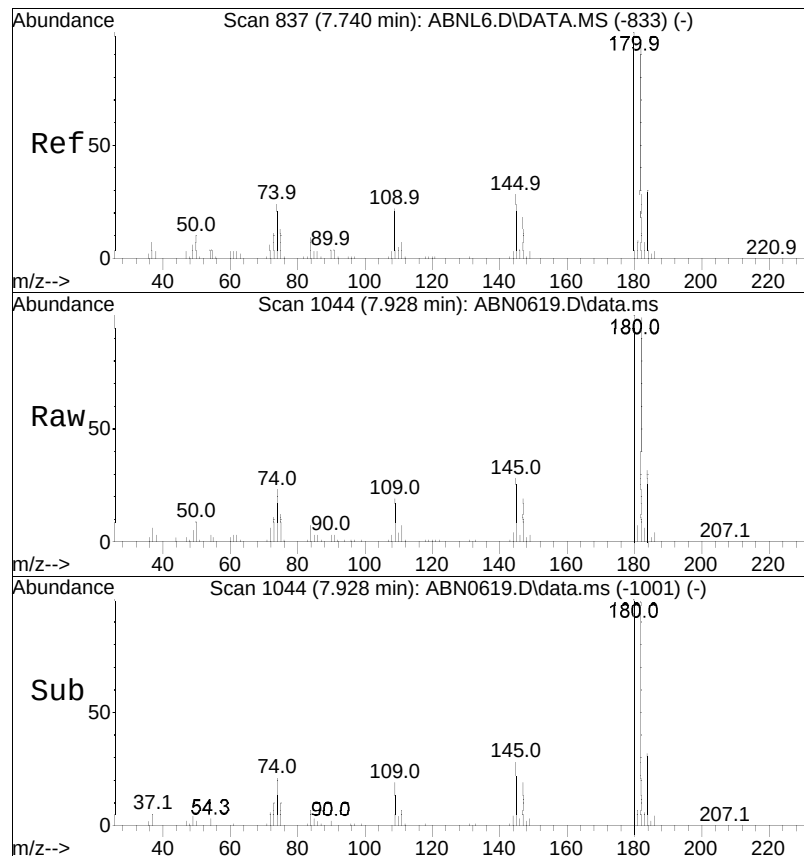
Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 6:58 am

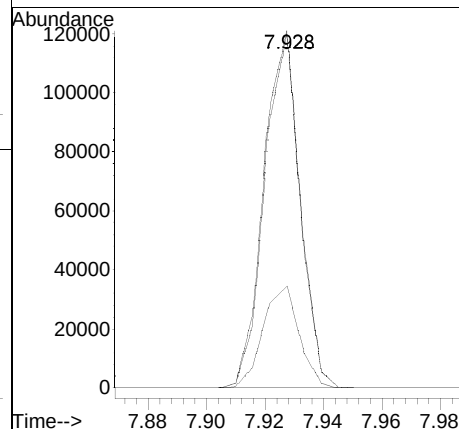
Tgt Ion	Ratio	Resp	Lower	Upper
162	100	88897		
164	63.3		51.0	76.4
98	31.3		32.2	48.2

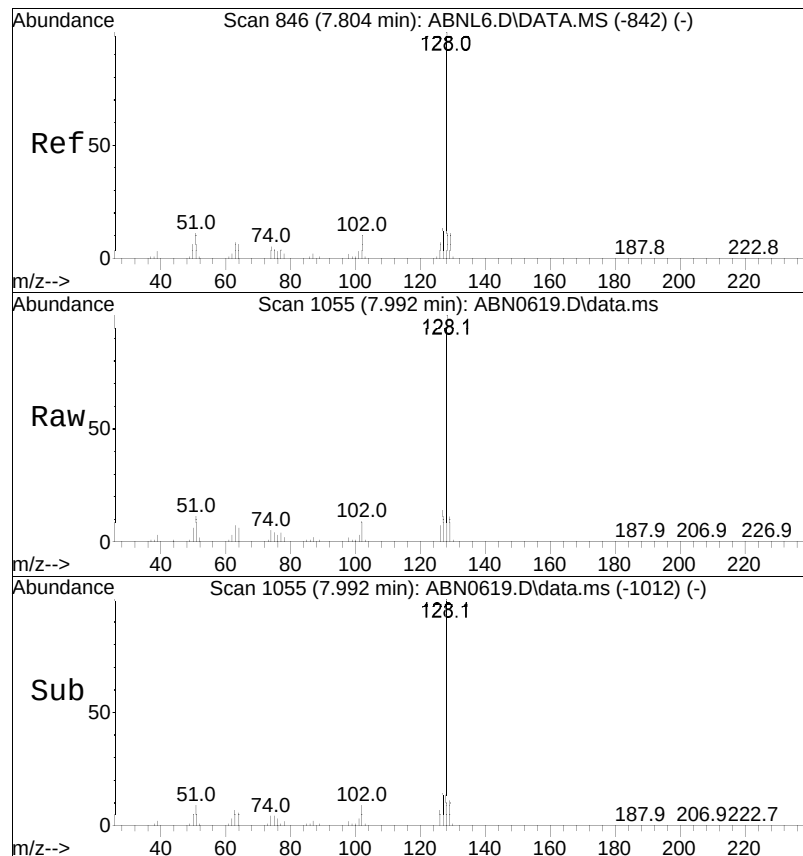




#26
 1,2,4-Trichlorobenzene
 Concen: 4.56 ug/ml
 RT: 7.928 min Scan# 1044
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

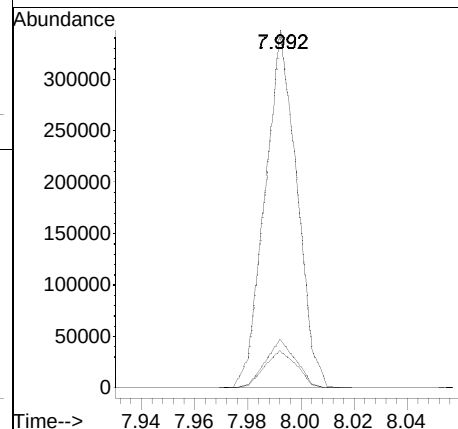
Tgt Ion:	180	Resp:	104148
Ion Ratio	Lower	Upper	
180	100		
182	96.3	76.0	114.0
145	28.5	25.7	38.5

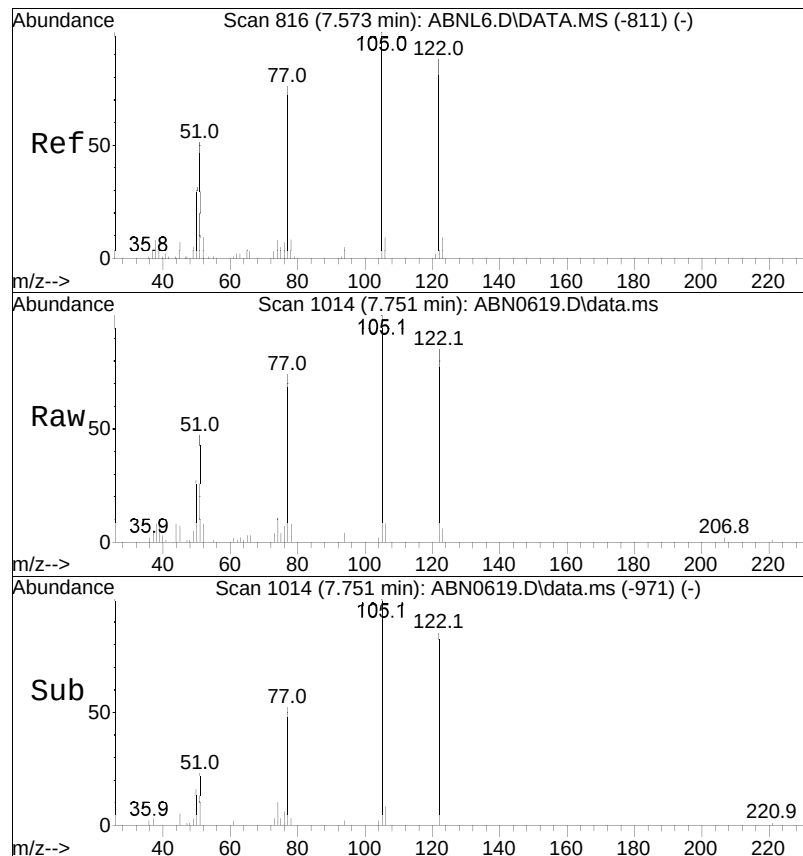




#36
 Naphthalene
 Concen: 4.59 ug/ml
 RT: 7.992 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

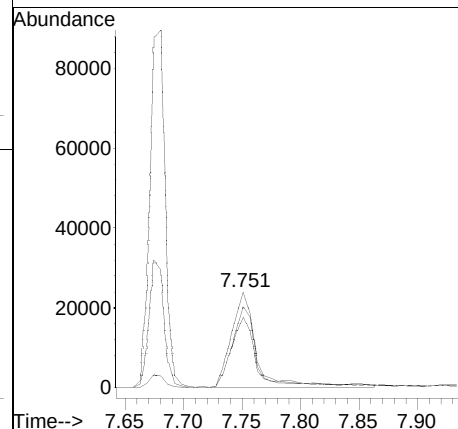
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	285441		
129	10.7		8.7	13.1
127	13.2		10.3	15.5

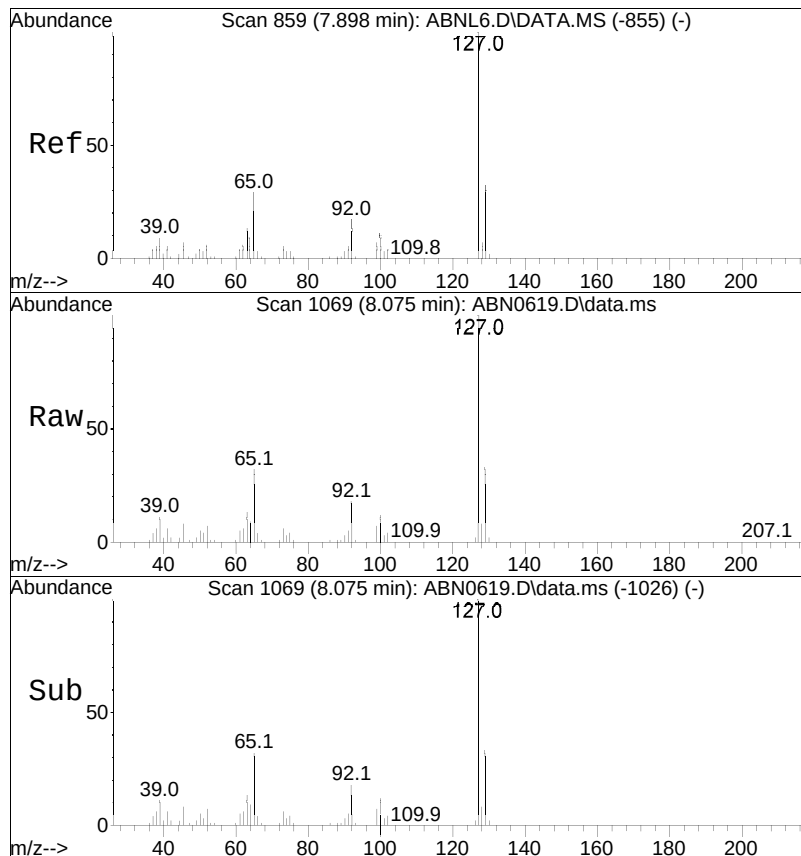




#37
 Benzoic Acid
 Concen: 4.59 ug/ml
 RT: 7.751 min Scan# 1014
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

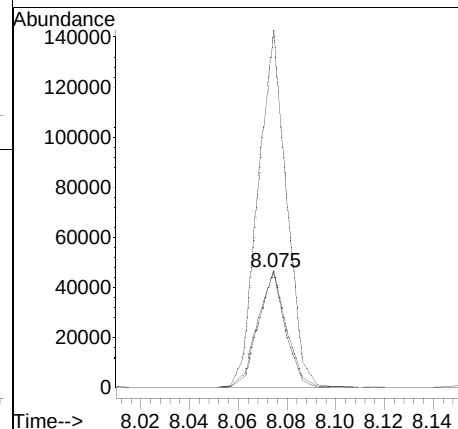
Tgt Ion:	105	Resp:	36327
Ion Ratio	Lower	Upper	
105	100		
122	81.0	59.9	89.9
77	71.9	60.1	90.1

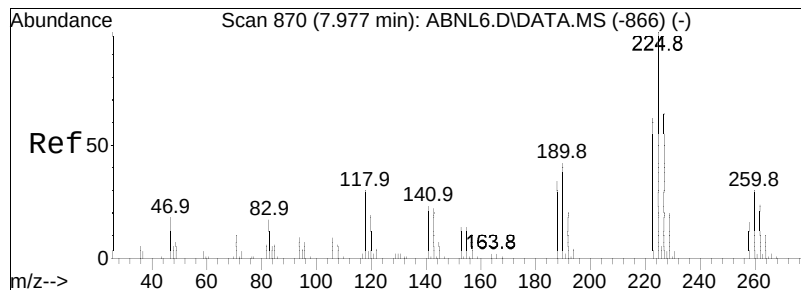




#38
 4-Chloroaniline
 Concen: 4.74 ug/ml
 RT: 8.075 min Scan# 1069
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

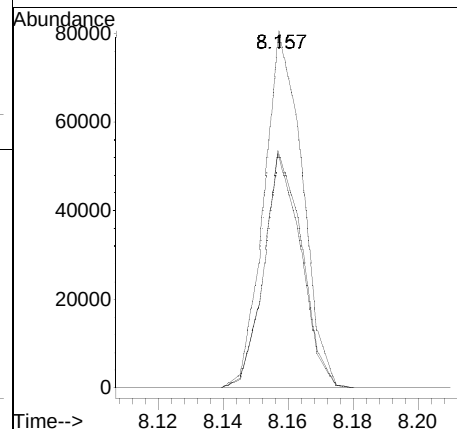
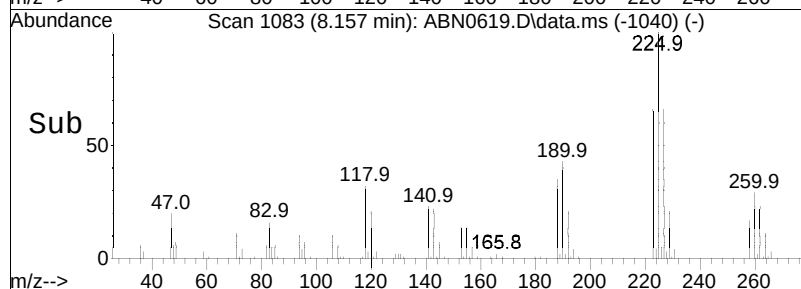
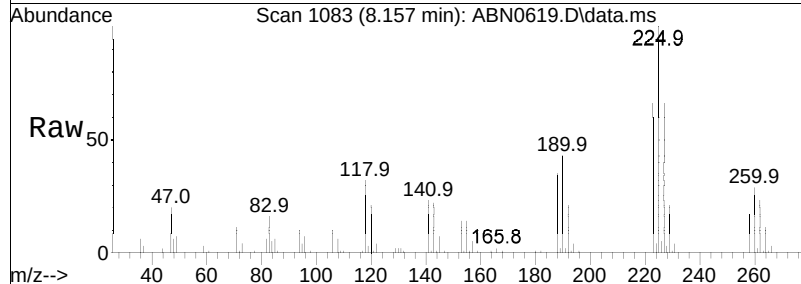
Tgt Ion	Ratio	Lower	Upper
65	100		
127	314.8	237.6	356.4
129	100.8	76.3	114.5

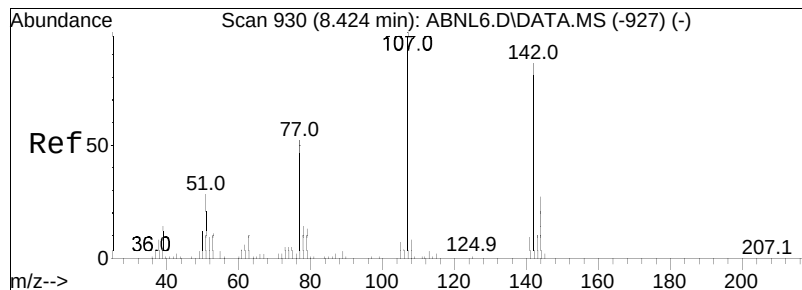




#39
 Hexachlorobutadiene
 Concen: 4.63 ug/ml
 RT: 8.157 min Scan# 1083
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

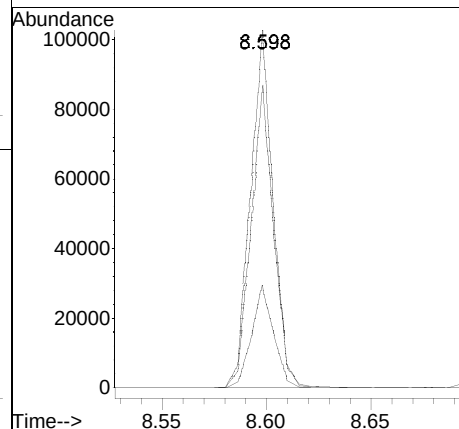
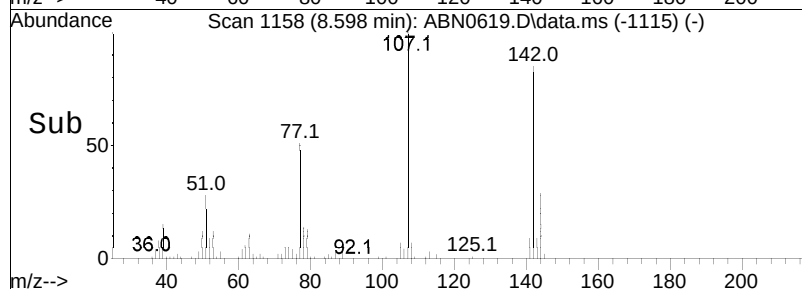
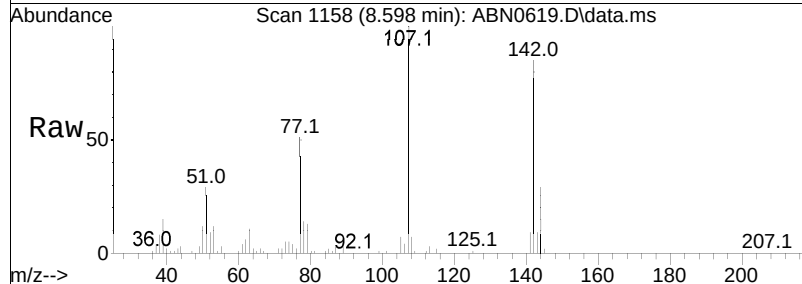
Tgt Ion:	225	Resp:	65765
Ion Ratio	Lower	Upper	
225	100		
223	63.8	50.3	75.5
227	65.7	52.2	78.2

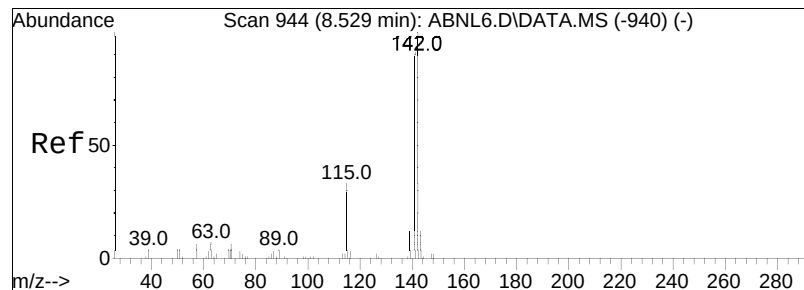




#40
 p-Chloro-m-cresol
 Concen: 4.03 ug/ml
 RT: 8.598 min Scan# 1158
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

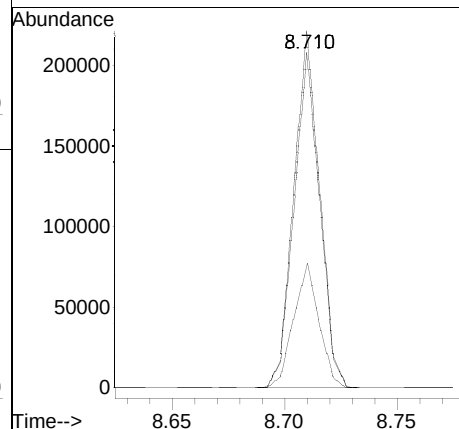
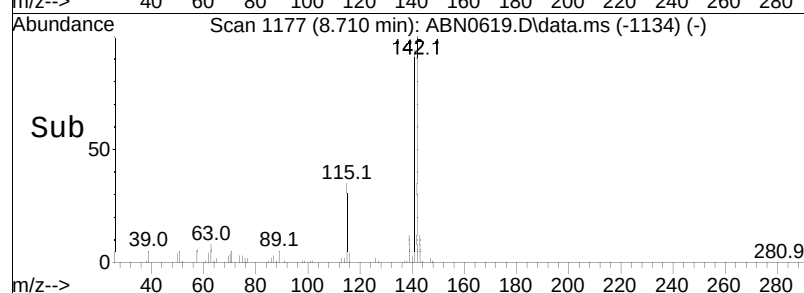
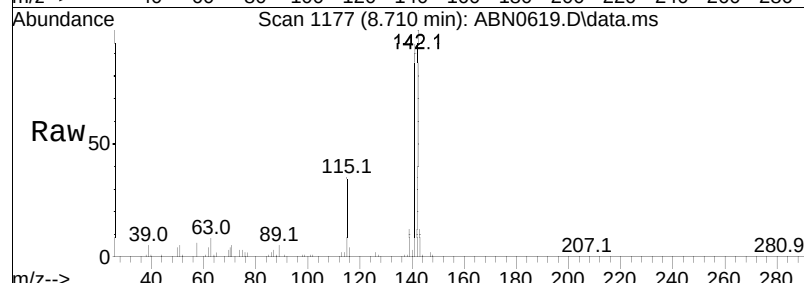
Tgt Ion:	107	Resp:	76269
Ion Ratio	Lower	Upper	
107	100		
144	28.1	20.9	31.3
142	84.1	66.1	99.1

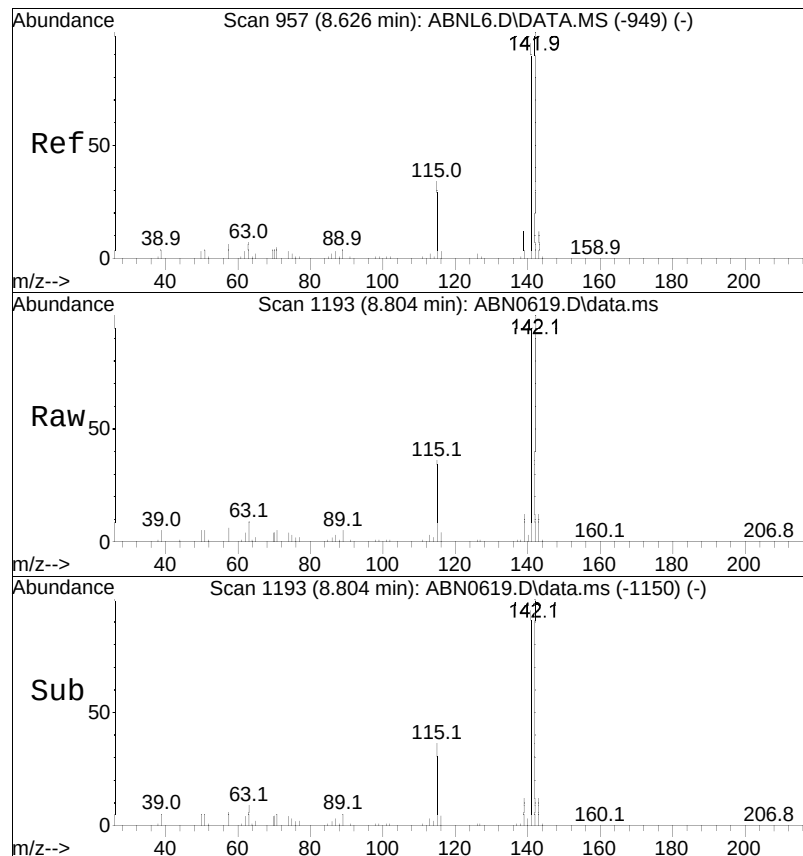




#41
 2-Methylnaphthalene
 Concen: 4.76 ug/ml
 RT: 8.710 min Scan# 1177
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

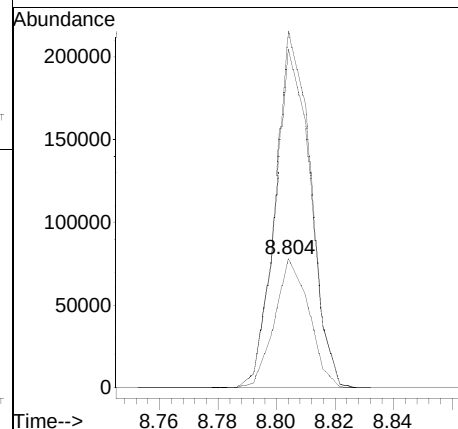
Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.9	69.6	104.4
115	34.3	26.6	40.0

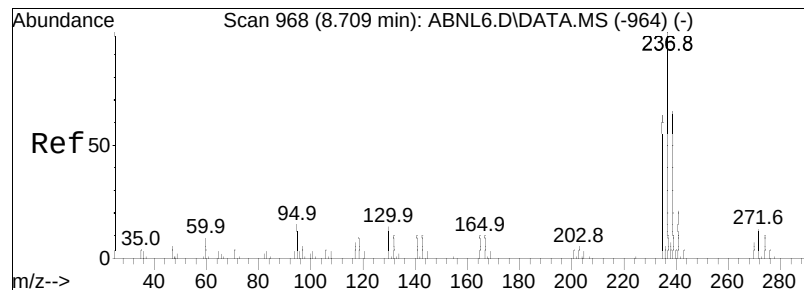




#42
 1-Methylnaphthalene
 Concen: 4.51 ug/ml
 RT: 8.804 min Scan# 1193
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

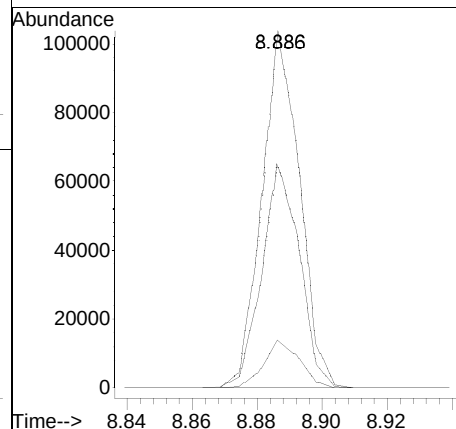
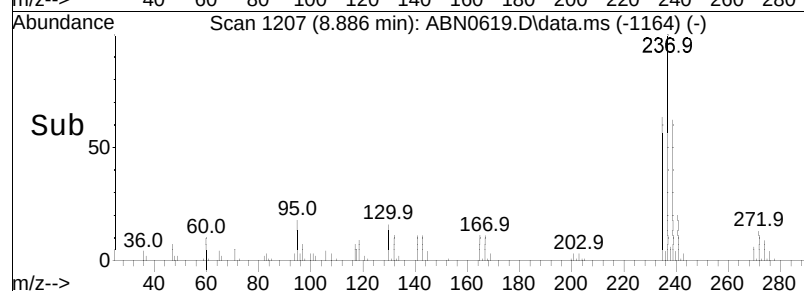
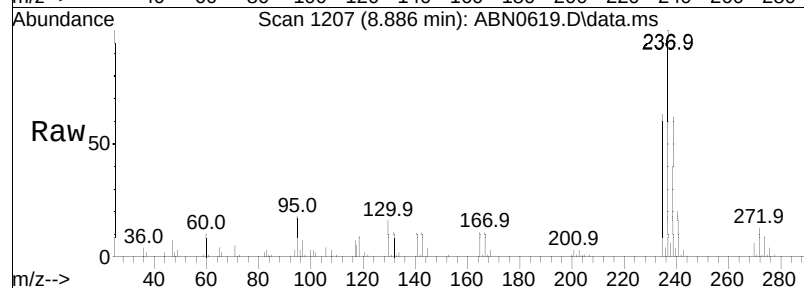
Tgt Ion:	115	Resp:	64395
Ion Ratio	Lower	Upper	
115	100		
141	267.2	207.8	311.6
142	280.9	226.8	340.2

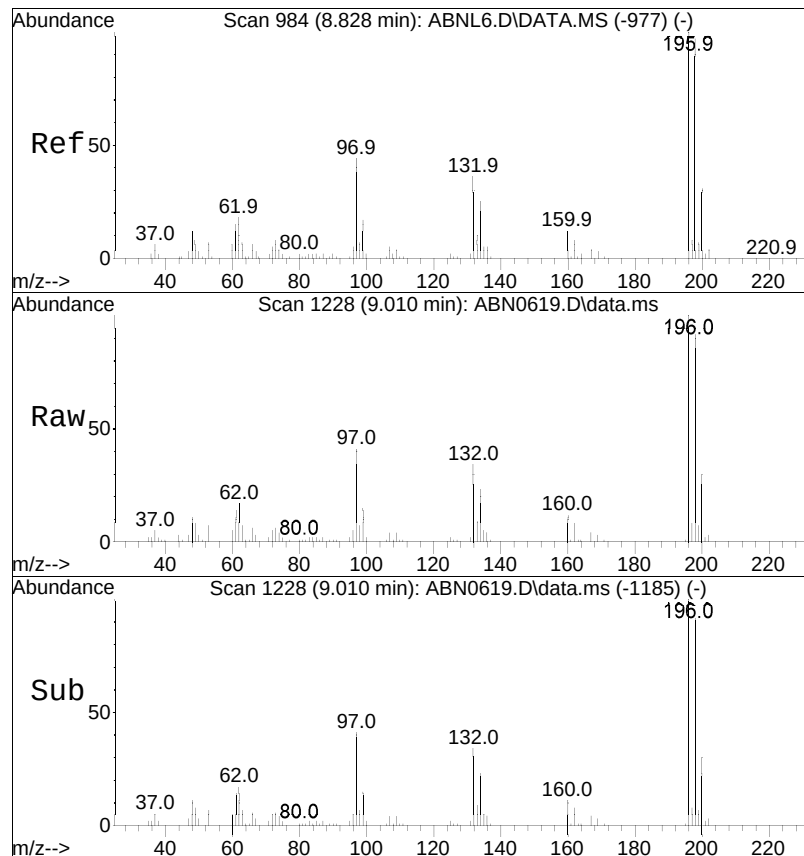




#43
 Hexachlorocyclopentadiene
 Concen: 4.75 ug/ml
 RT: 8.886 min Scan# 1207
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

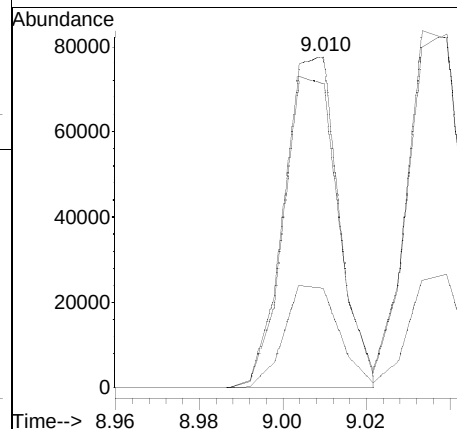
Tgt Ion	Ratio	Lower	Upper
237	100		
235	62.9	49.7	74.5
272	12.8	9.8	14.6

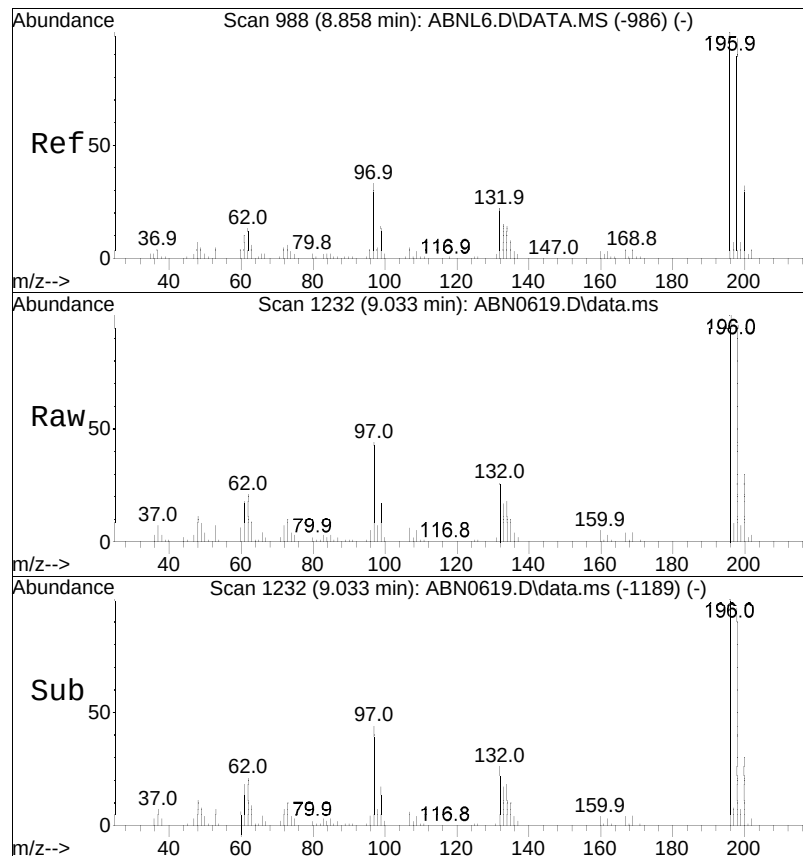




#44
 2,4,6-Trichlorophenol
 Concen: 4.85 ug/ml
 RT: 9.010 min Scan# 1228
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

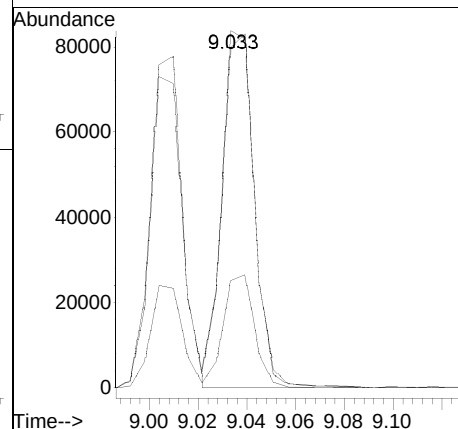
Tgt Ion:	196	Resp:	71045
Ion Ratio	Lower	Upper	
196	100		
198	93.9	77.5	116.3
200	30.9	23.8	35.6

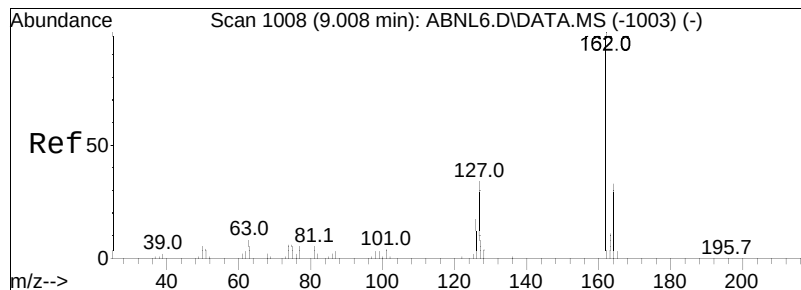




#45
 2,4,5-Trichlorophenol
 Concen: 5.23 ug/ml
 RT: 9.033 min Scan# 1232
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

Tgt Ion:	196	Resp:	77732
Ion Ratio	Lower	Upper	
196	100		
200	30.4	25.4	38.0
198	98.0	78.0	117.0





#47

2-Chloronaphthalene

Concen: 4.64 ug/ml

RT: 9.192 min Scan# 1259

Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 6:58 am

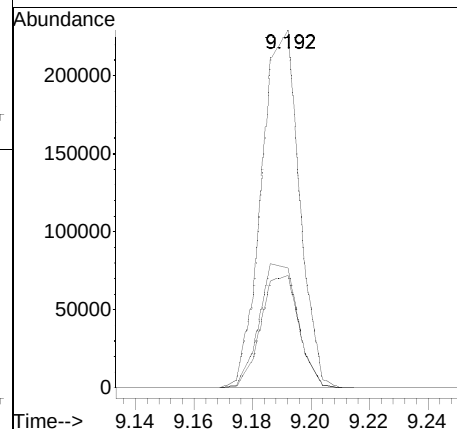
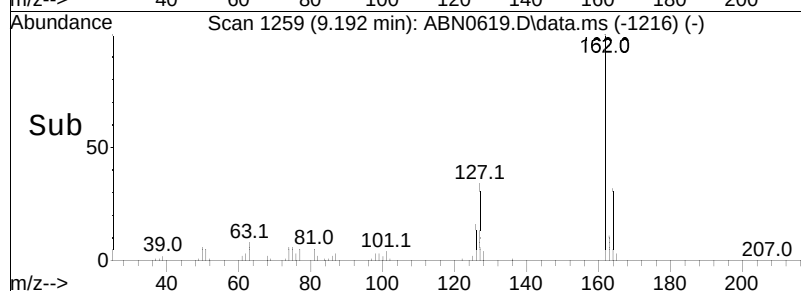
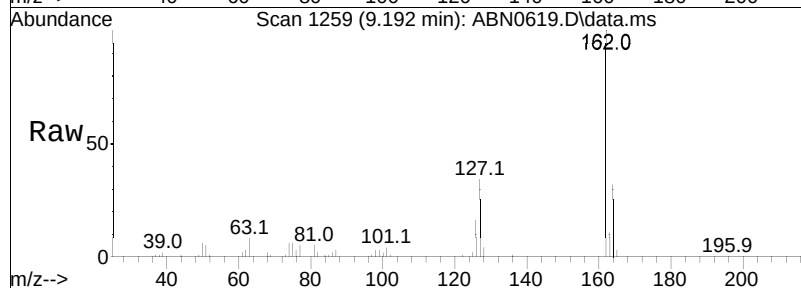
Tgt Ion:162 Resp: 204743

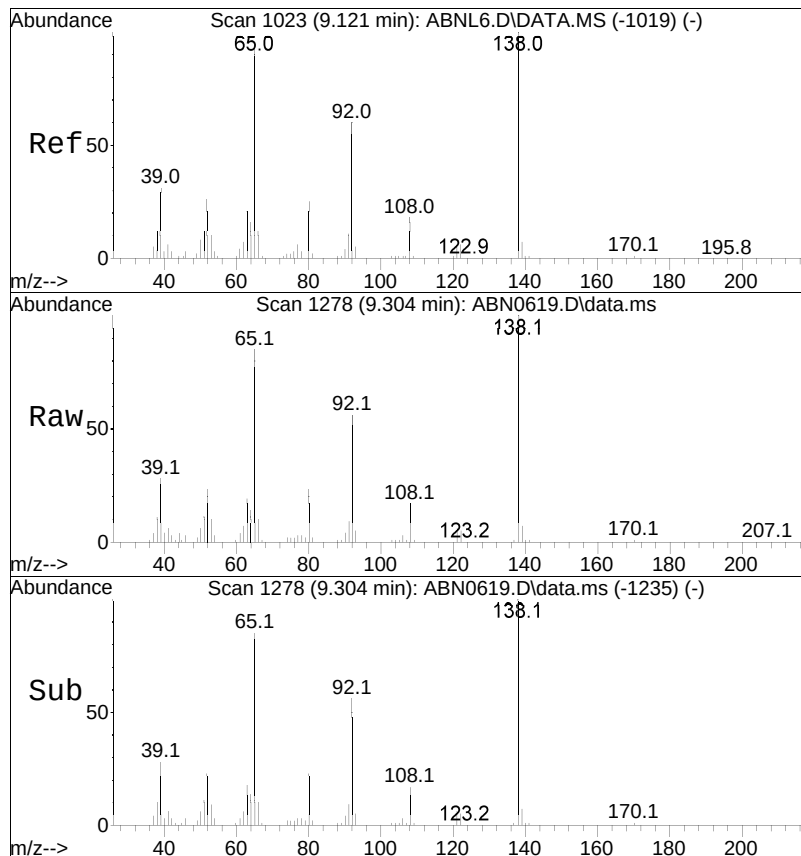
Ion Ratio Lower Upper

162 100

127 35.3 32.2 48.4

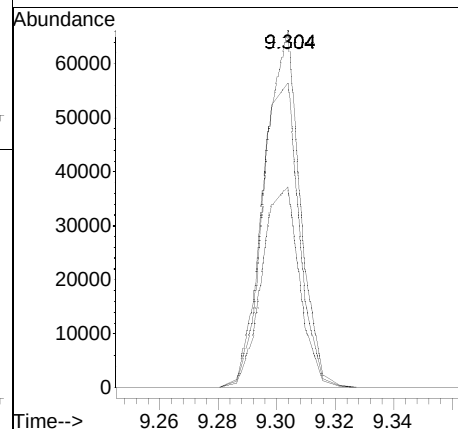
164 31.8 25.7 38.5

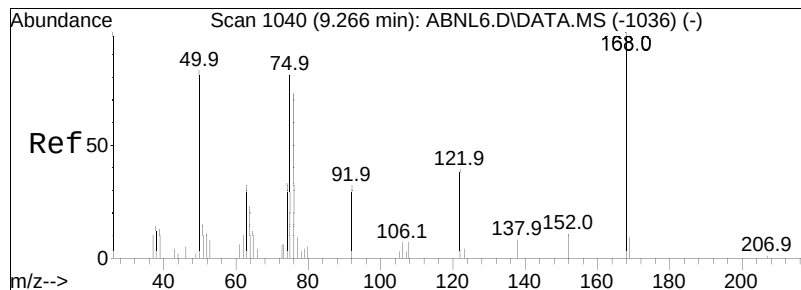




#48
 2-Nitroaniline
 Concen: 5.66 ug/ml
 RT: 9.304 min Scan# 1278
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

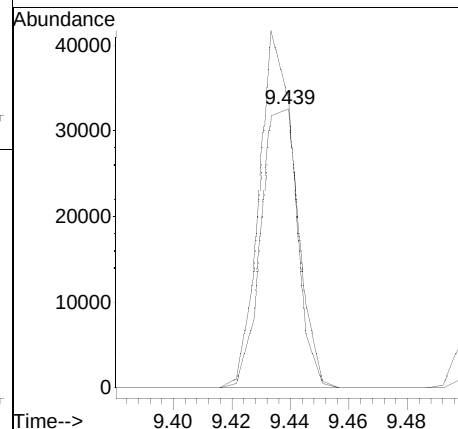
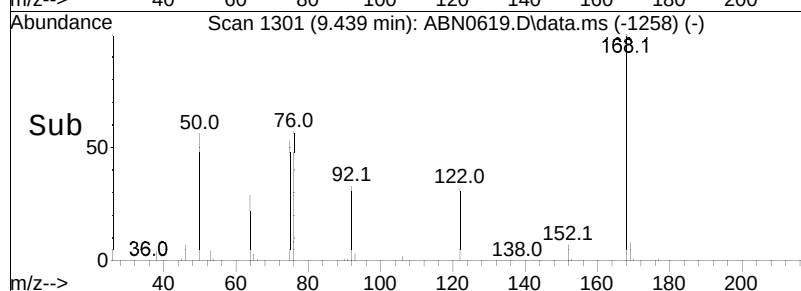
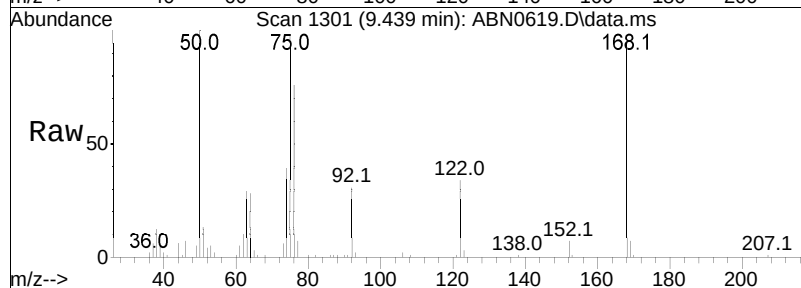
Tgt Ion:	138	Resp:	54793
Ion Ratio	Lower	Upper	
138	100		
92	60.4	53.5	80.3
65	92.2	86.3	129.5

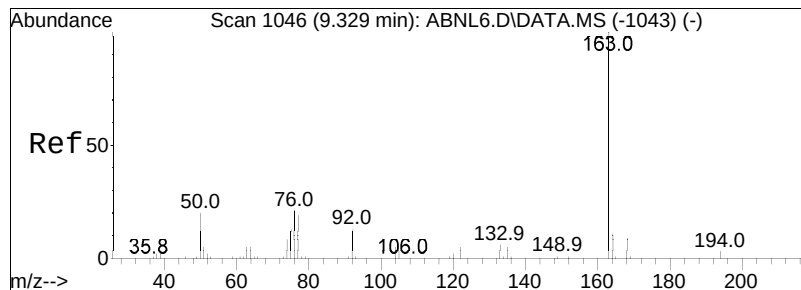




#49
 1,4-Dinitrobenzene
 Concen: 14.88 ug/ml M3
 RT: 9.439 min Scan# 1301
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

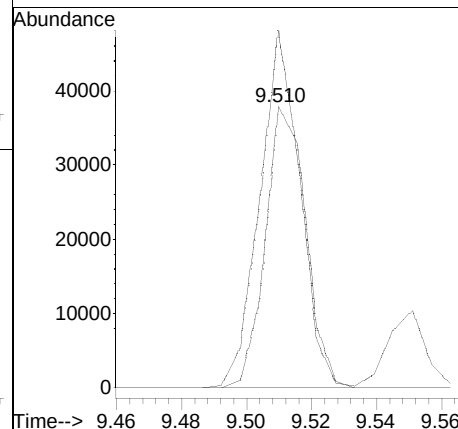
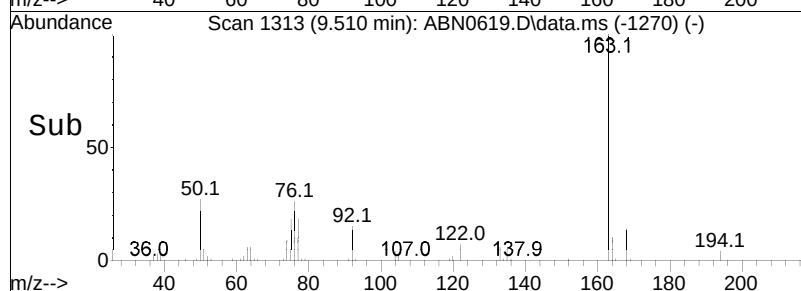
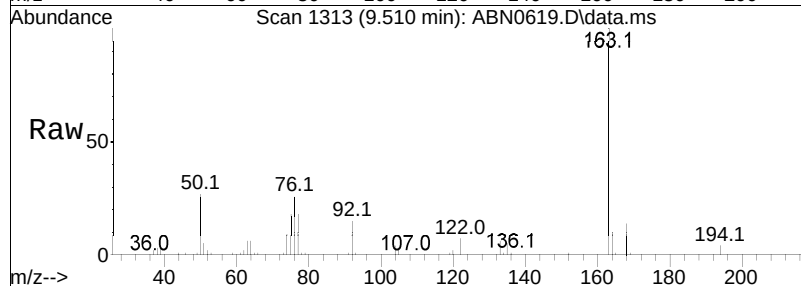
Tgt Ion	Ratio	Lower	Upper
168	100		
75	138.9	121.8	182.8

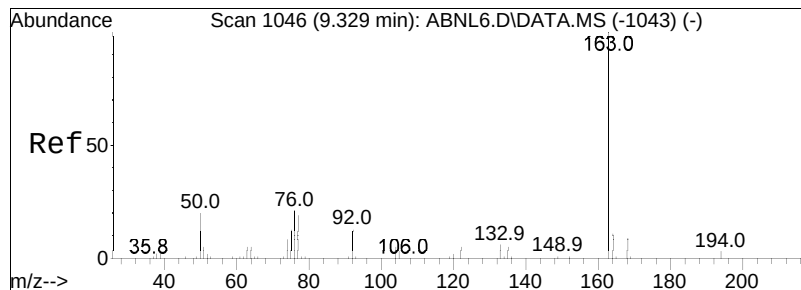




#50
 1,3-Dinitrobenzene
 Concen: 5.33 ug/ml
 RT: 9.510 min Scan# 1313
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

Tgt Ion:168 Resp: 32391
 Ion Ratio Lower Upper
 168 100
 75 126.5 22.7 34.1#





#51

Dimethyl phthalate

Concen: 4.53 ug/ml

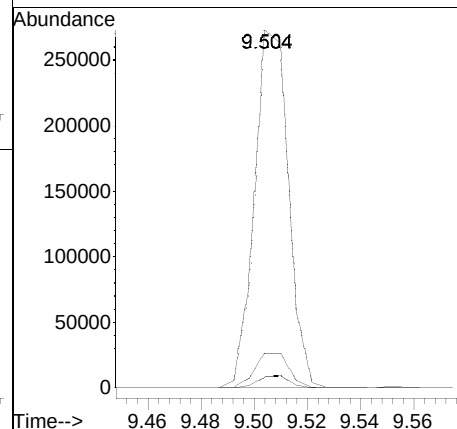
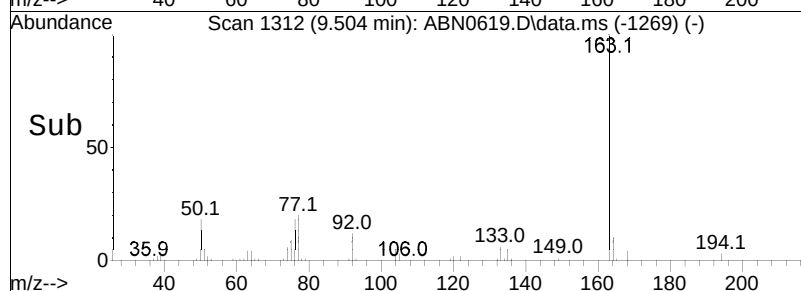
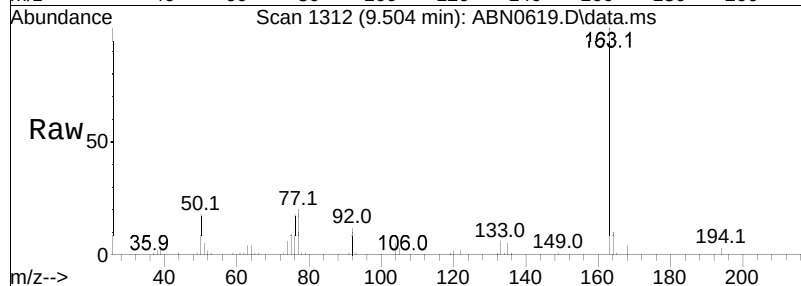
RT: 9.504 min Scan# 1312

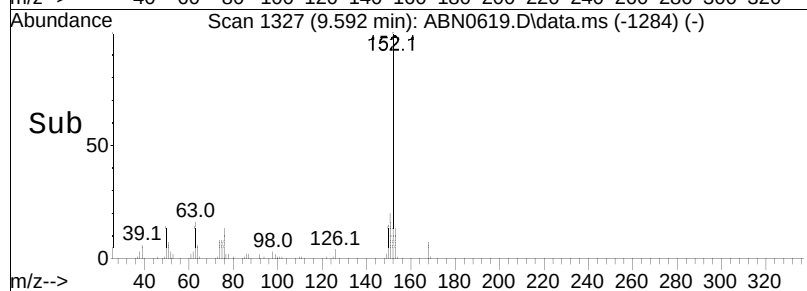
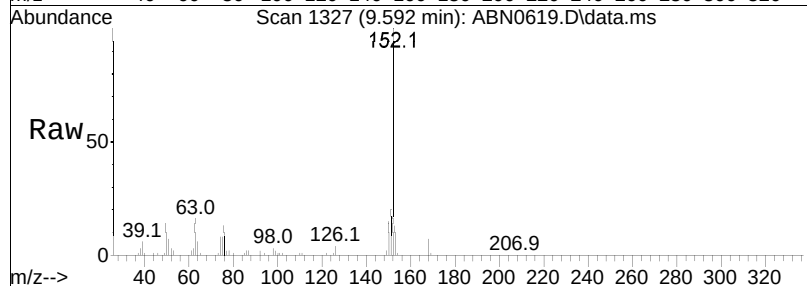
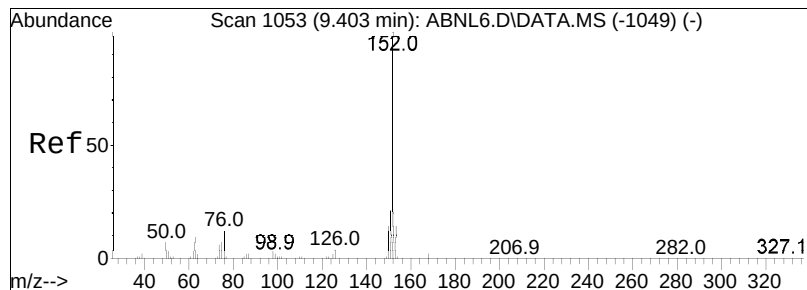
Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 6:58 am

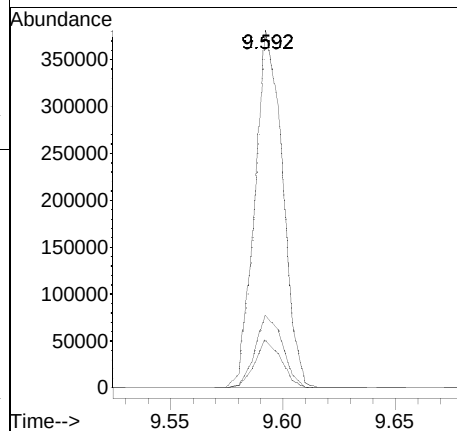
Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.2	3.5	5.3#
164	10.0	7.9	11.9

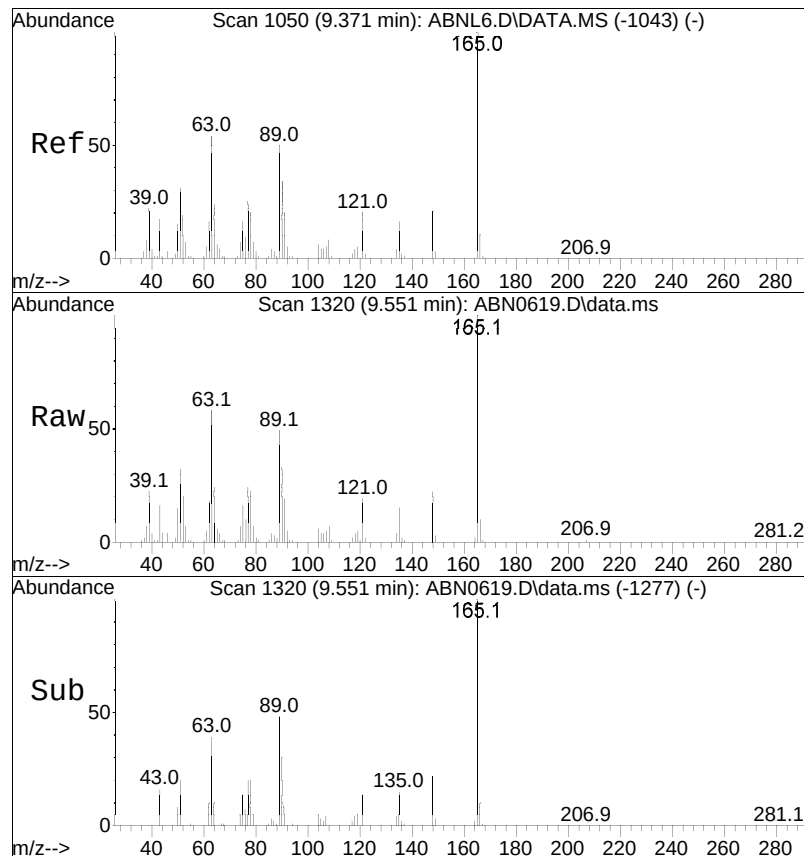




#52
 Acenaphthylene
 Concen: 4.62 ug/ml
 RT: 9.592 min Scan# 1327
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

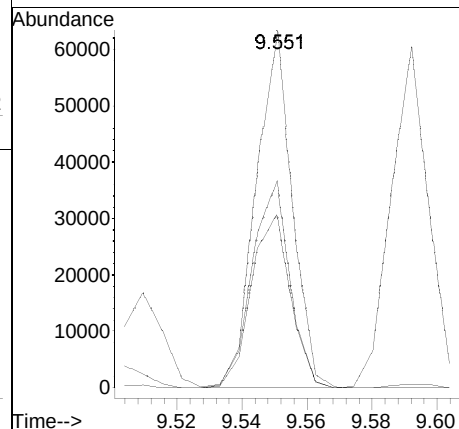
Tgt	Ion	Ratio	Resp	Lower	Upper
152	152	100	323491		
151	151	20.3		15.8	23.6
153	153	13.0		10.5	15.7

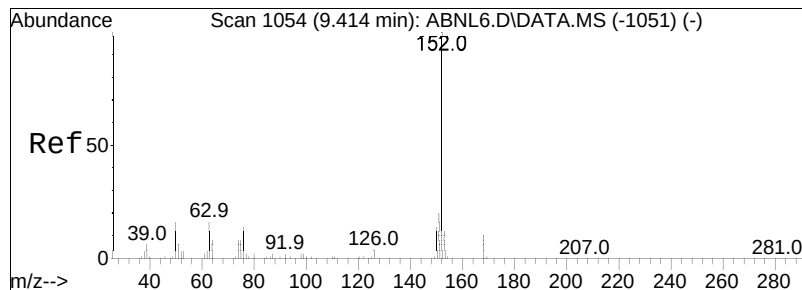




#53
 2,6-Dinitrotoluene
 Concen: 5.56 ug/ml
 RT: 9.551 min Scan# 1320
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

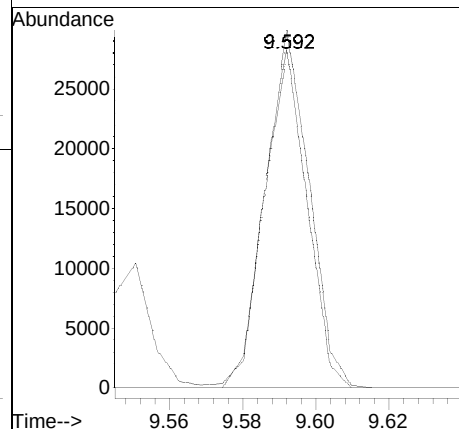
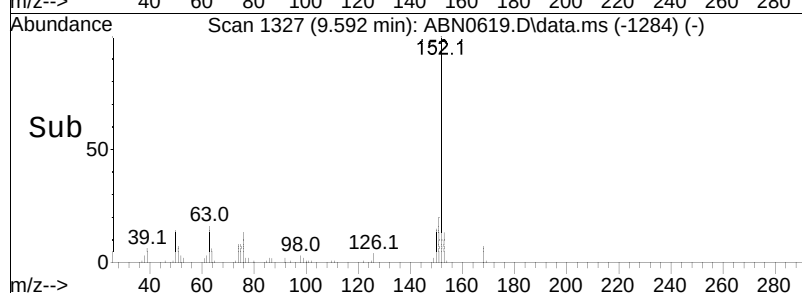
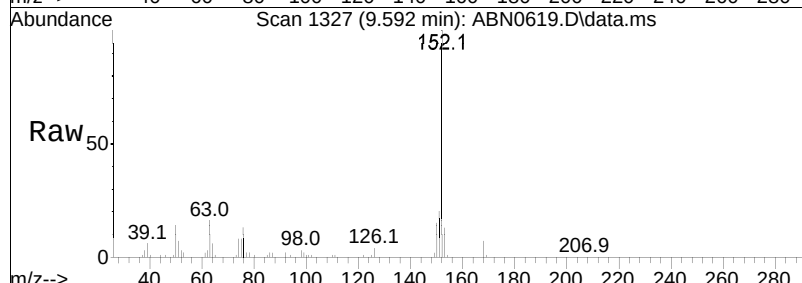
Tgt Ion:	165	Resp:	48851
Ion Ratio	Lower	Upper	
165	100		
89	52.8	54.2	81.2#
63	60.5	64.2	96.2#

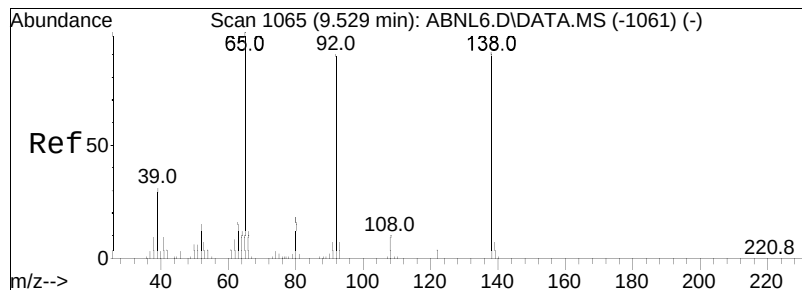




#54
 1,2-Dinitrobenzene
 Concen: 6.16 ug/ml M2
 RT: 9.592 min Scan# 1327
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

Tgt Ion	Ratio	Lower	Upper
168	100		
75	2.4	30.9	46.3#





#64

3-Nitroaniline

Concen: 5.63 ug/ml

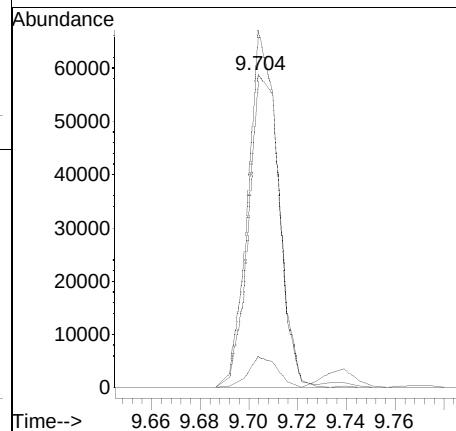
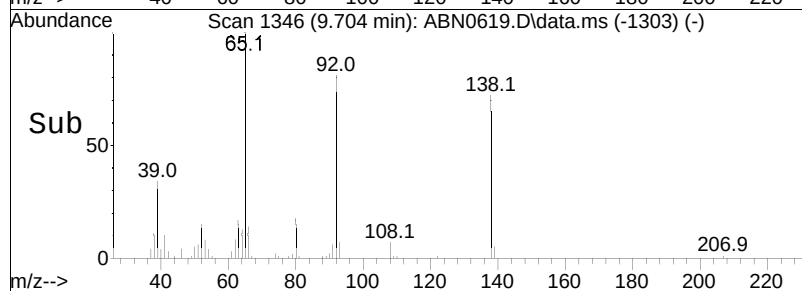
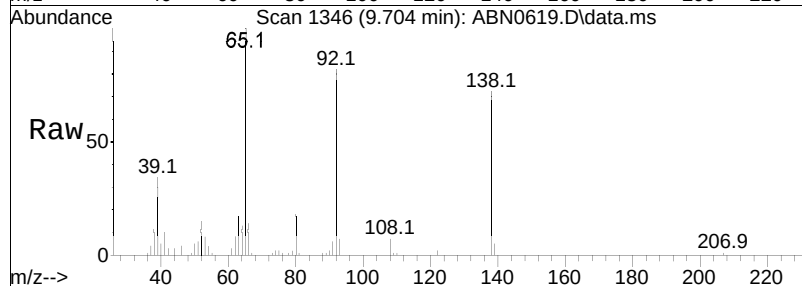
RT: 9.704 min Scan# 1346

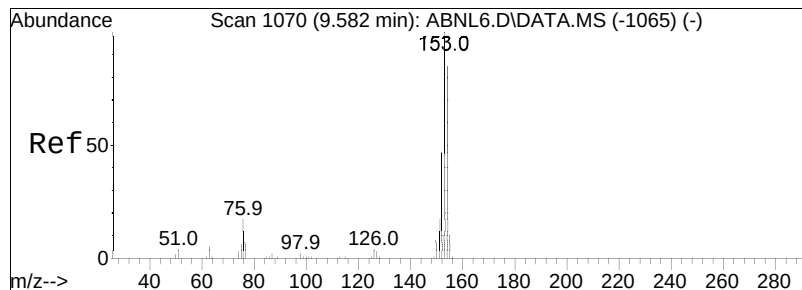
Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 6:58 am

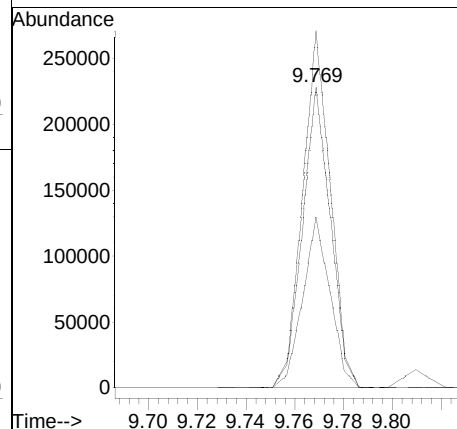
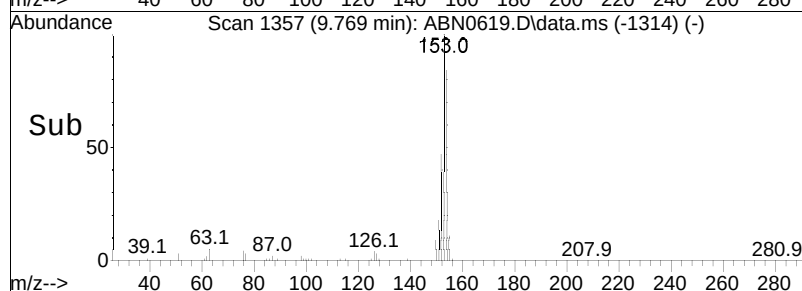
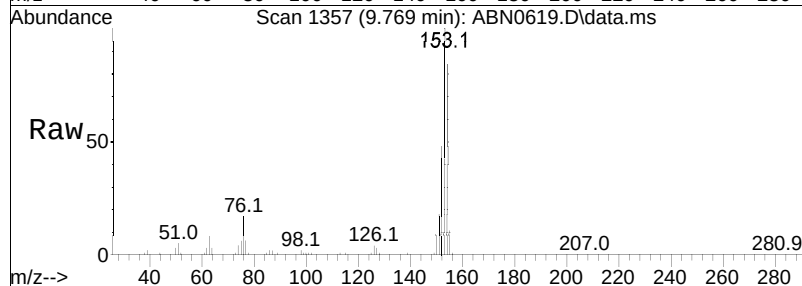
Tgt Ion	Ratio	Resp	Lower	Upper
138	100	52177		
92	109.8		93.4	140.2
108	9.2		9.5	14.3#

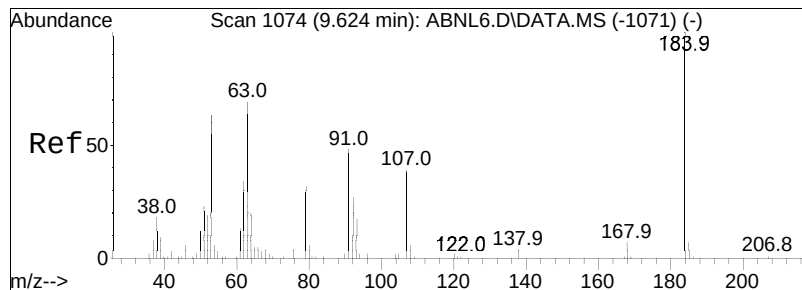




#65
 Acenaphthene
 Concen: 4.50 ug/ml
 RT: 9.769 min Scan# 1357
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

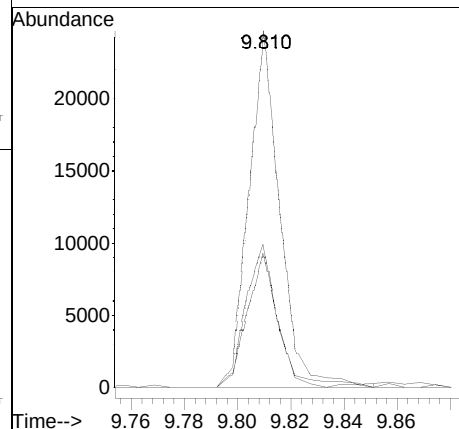
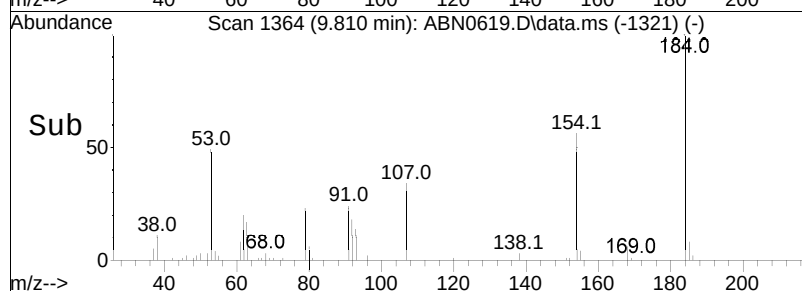
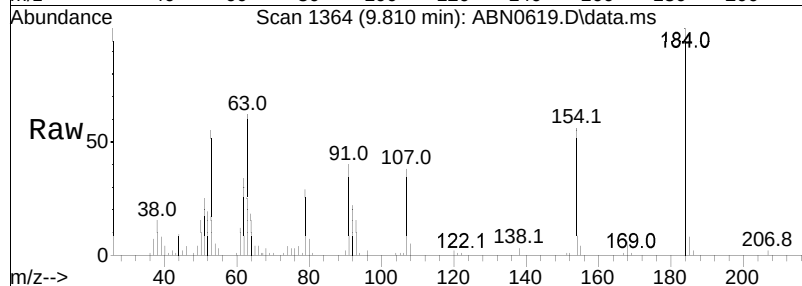
Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.6	85.3	127.9
152	55.9	41.4	62.0

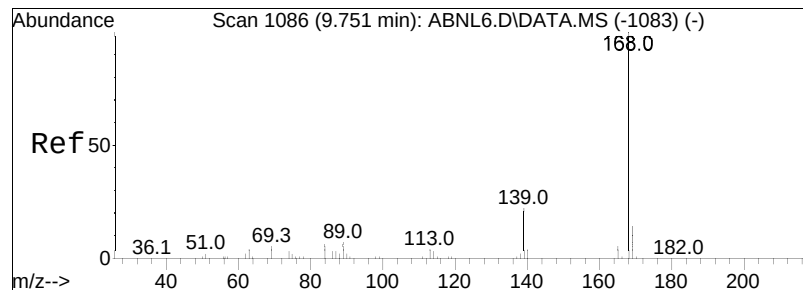




#66
 2,4-Dinitrophenol
 Concen: 4.19 ug/ml
 RT: 9.810 min Scan# 1364
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

Tgt Ion	Ratio	Lower	Upper
184	100		
107	36.7	37.7	56.5#
91	42.4	46.3	69.5#





#67

Dibenzofuran

Concen: 4.35 ug/ml

RT: 9.939 min Scan# 1386

Delta R.T. 0.000 min

Lab File: ABN0619.D

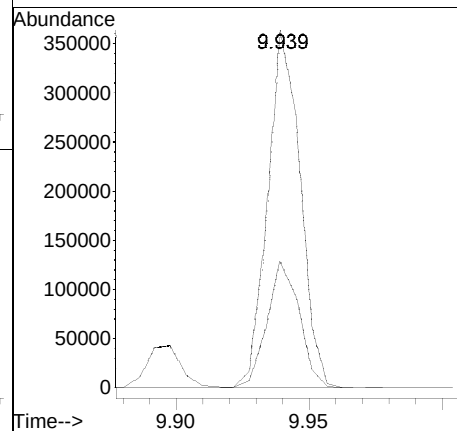
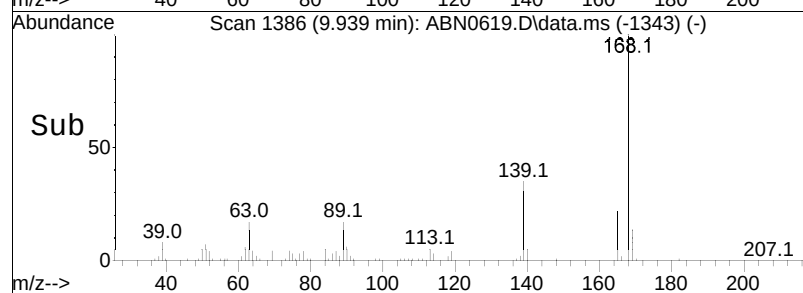
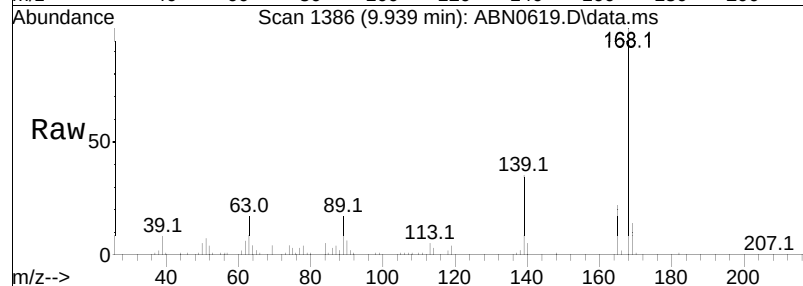
Acq: 19 Jun 2025 6:58 am

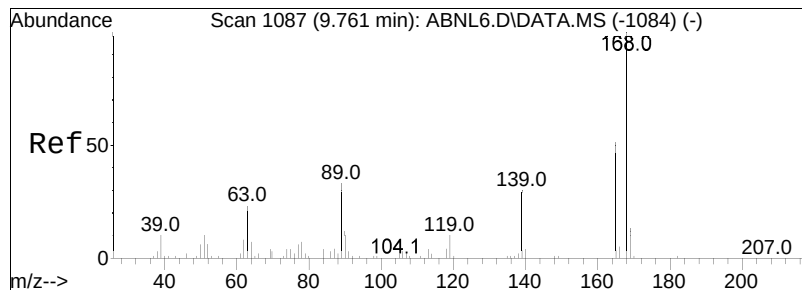
Tgt Ion:168 Resp: 305631

Ion Ratio Lower Upper

168 100

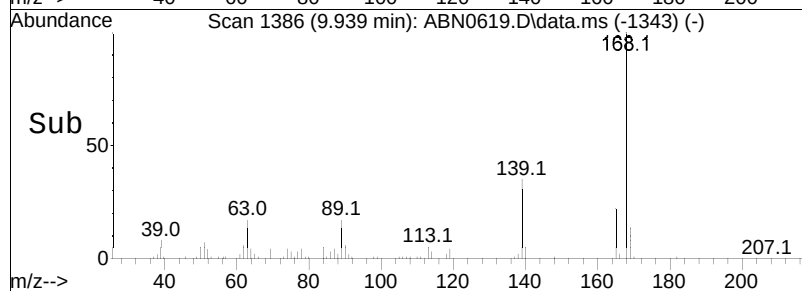
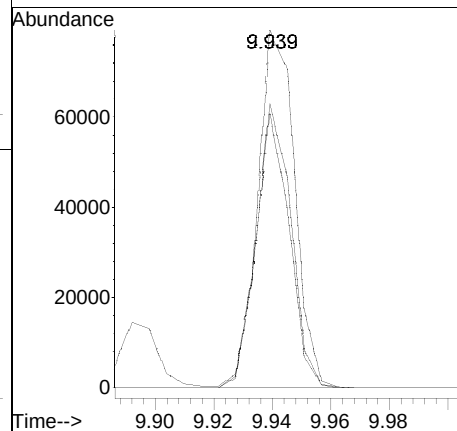
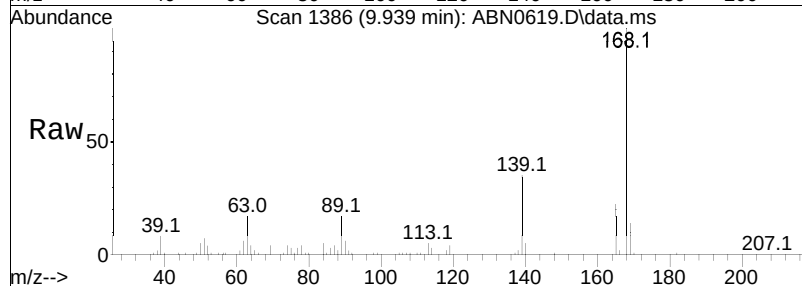
139 35.2 31.4 47.2

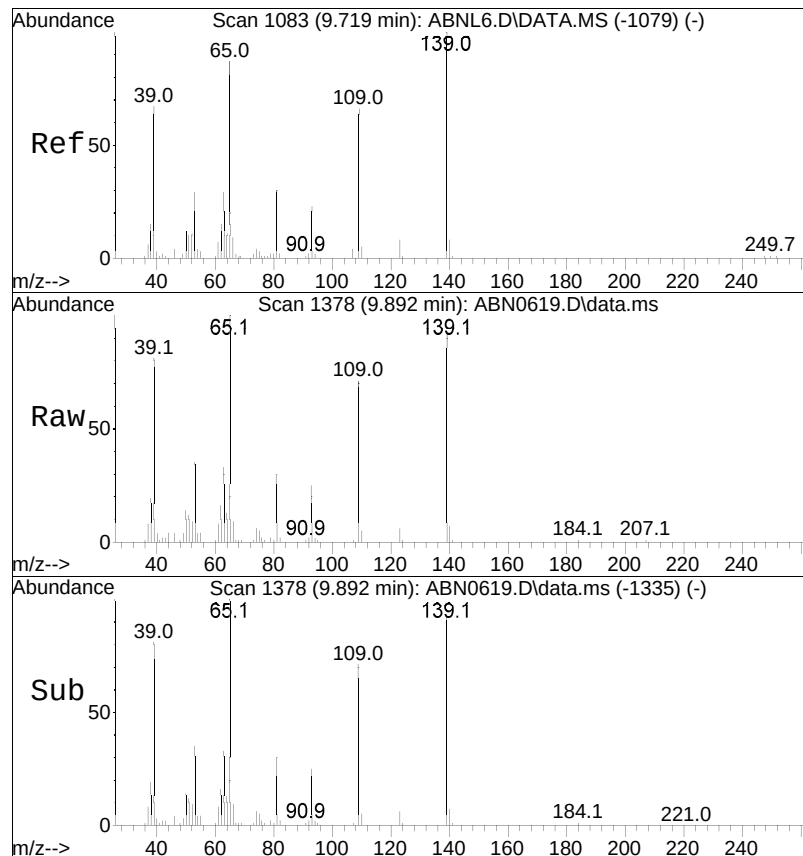




#68
 2,4-Dinitrotoluene
 Concen: 5.35 ug/ml
 RT: 9.939 min Scan# 1386
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

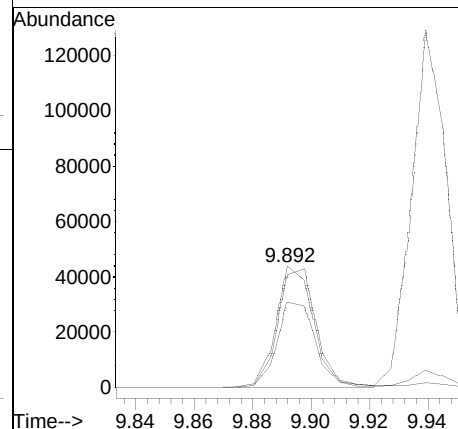
Tgt Ion	Ratio	Resp	Lower	Upper
165	100	68644		
89	74.6		72.0	108.0
63	70.3		52.7	79.1

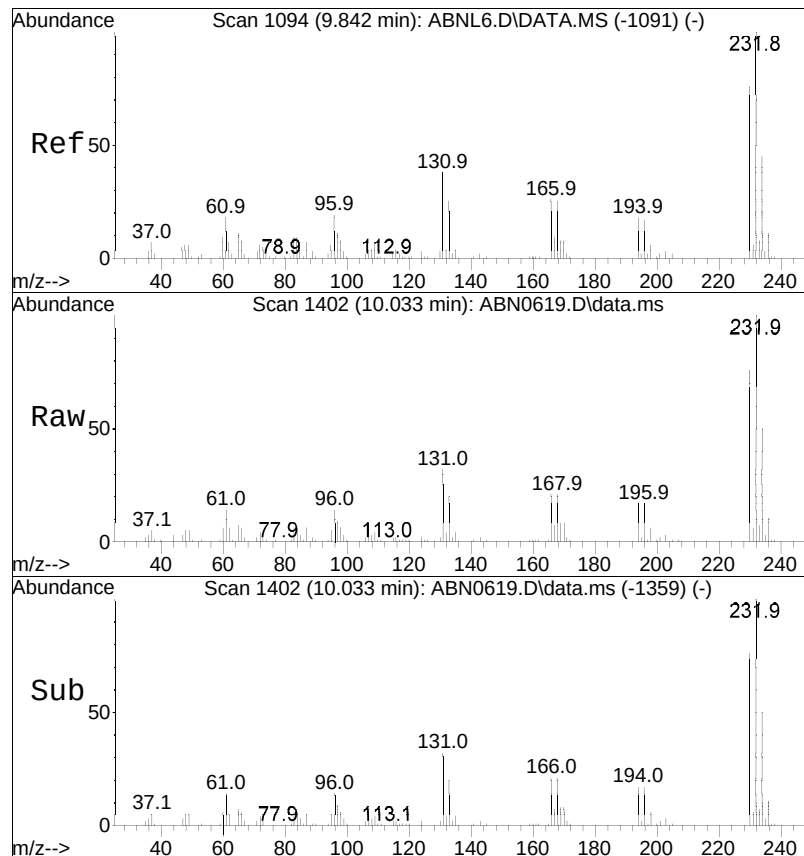




#69
 4-Nitrophenol
 Concen: 5.56 ug/ml
 RT: 9.892 min Scan# 1378
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

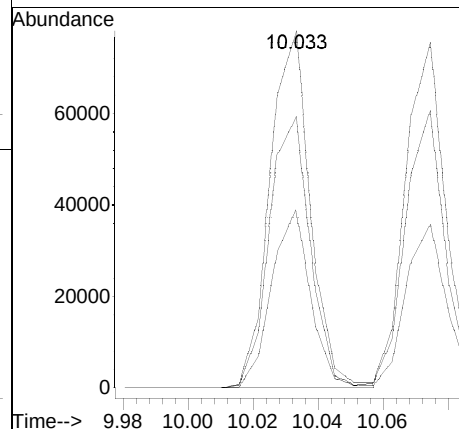
Tgt Ion:	65	Resp:	39296
Ion Ratio	Lower	Upper	
65	100		
109	72.1	47.4	71.2#
139	100.5	76.6	115.0

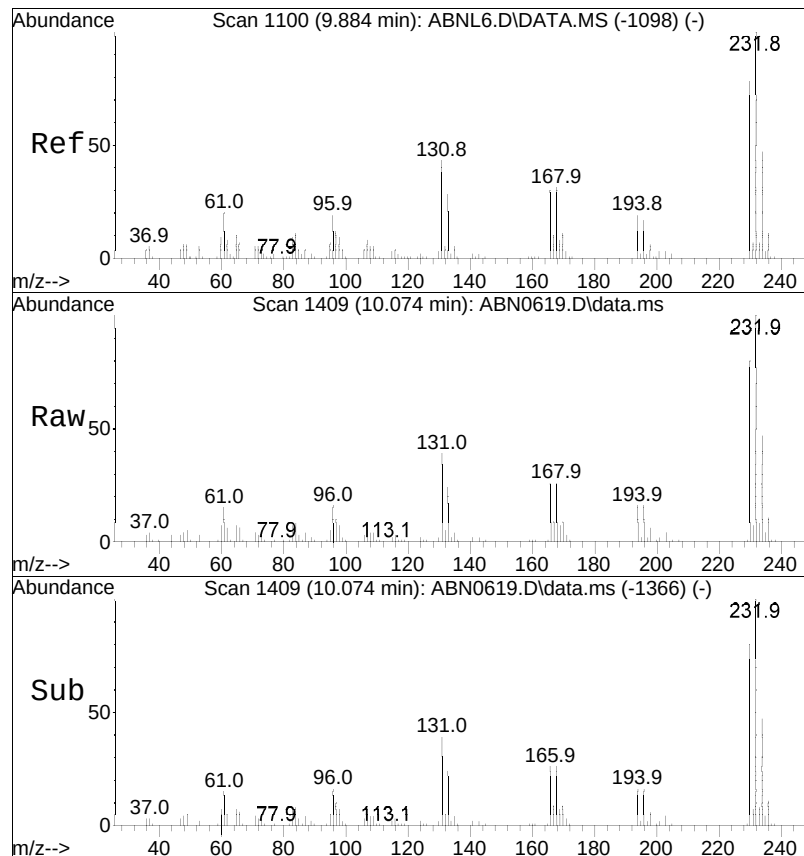




#70
 2,3,5,6-Tetrachlorophenol
 Concen: 5.03 ug/ml
 RT: 10.033 min Scan# 1402
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

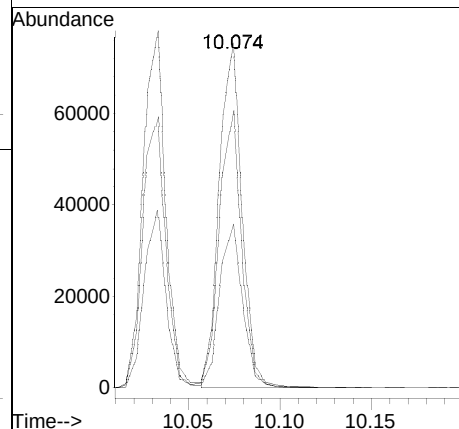
Tgt Ion:	232	Resp:	67488
Ion Ratio	Lower	Upper	
232	100		
230	76.9	64.2	96.4
234	48.4	38.1	57.1

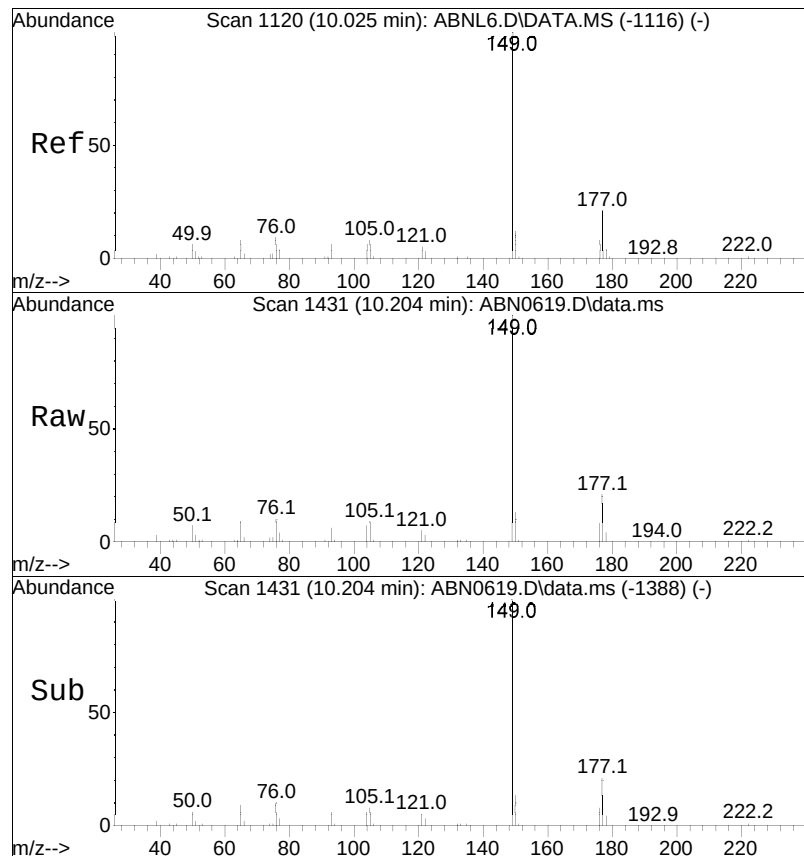




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 5.21 ug/ml
 RT: 10.074 min Scan# 1409
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

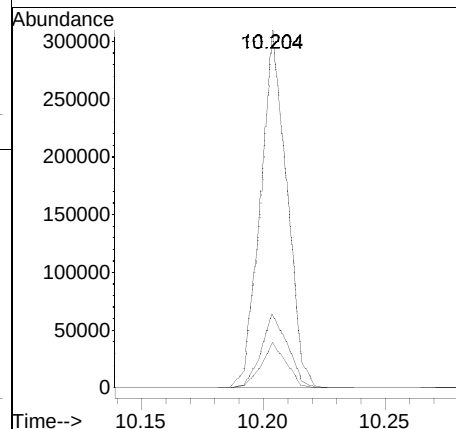
Tgt Ion:	232	Resp:	65867
Ion Ratio	Lower	Upper	
232	100		
230	78.3	61.8	92.8
234	47.9	36.2	54.2

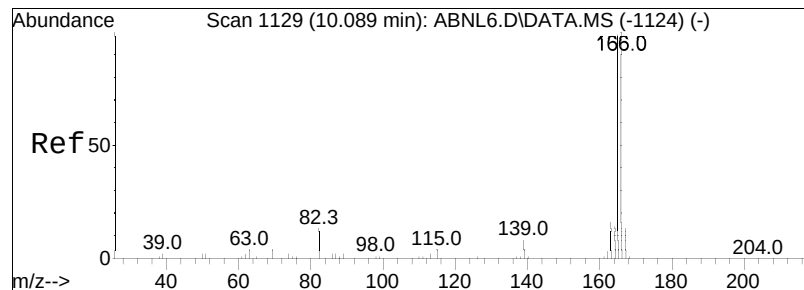




#72
 Diethyl phthalate
 Concen: 4.59 ug/ml
 RT: 10.204 min Scan# 1431
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

Tgt Ion	Ratio	Lower	Upper
149	100		
177	21.1	16.1	24.1
150	12.3	9.4	14.2





#73

Fluorene

Concen: 4.65 ug/ml

RT: 10.274 min Scan# 1443

Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 6:58 am

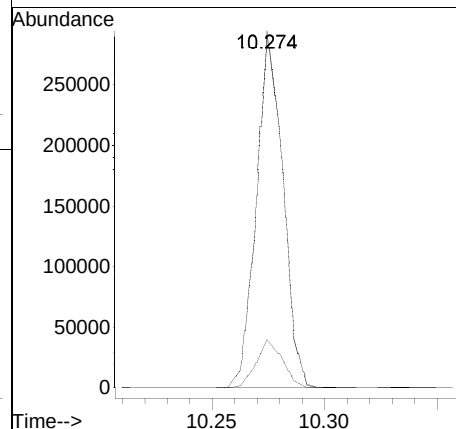
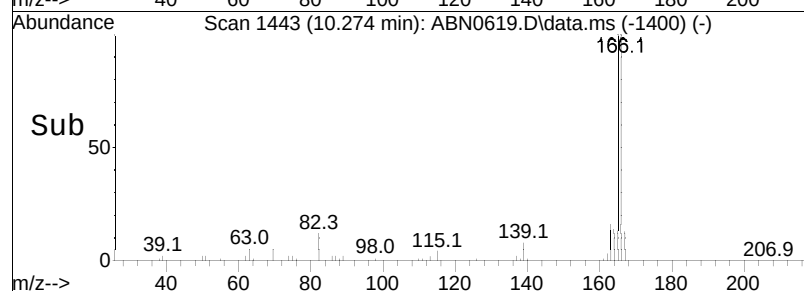
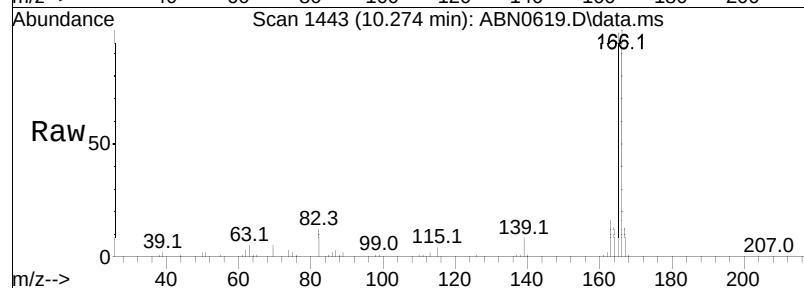
Tgt Ion:166 Resp: 240912

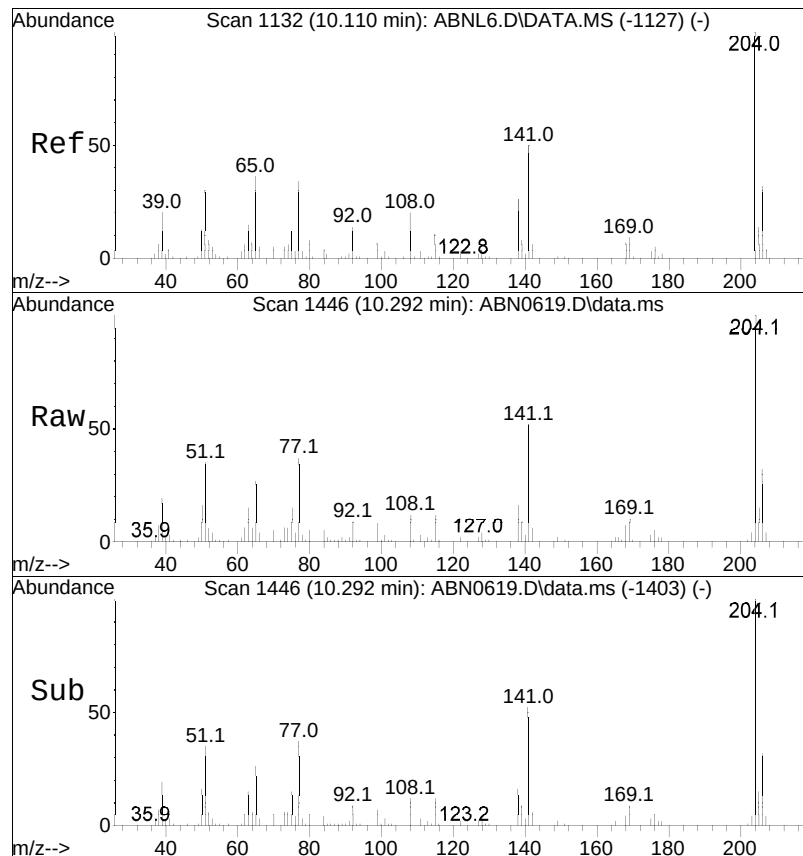
Ion Ratio Lower Upper

166 100

165 99.5 76.2 114.2

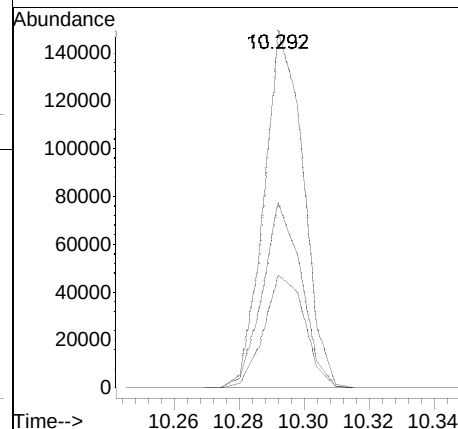
167 13.7 10.6 15.8

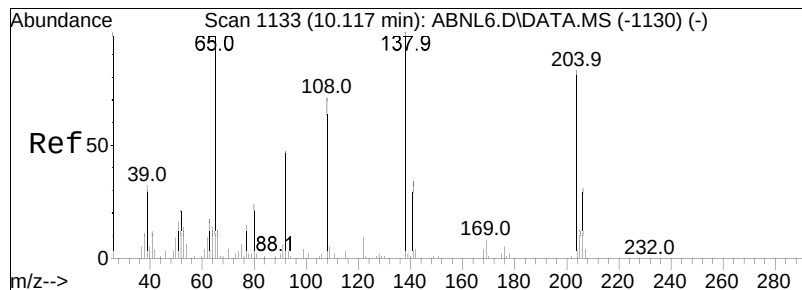




#74
 4-Chlorophenyl phenyl ether
 Concen: 4.60 ug/ml
 RT: 10.292 min Scan# 1446
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

Tgt	Ion:204	Resp:	124727
Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.8	38.6
141	51.3	53.6	80.4#





#75

4-Nitroaniline

Concen: 5.87 ug/ml

RT: 10.298 min Scan# 1447

Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 6:58 am

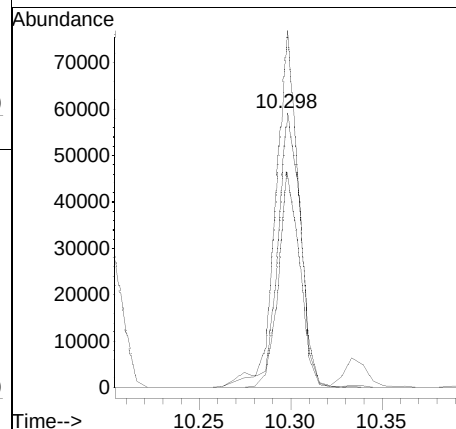
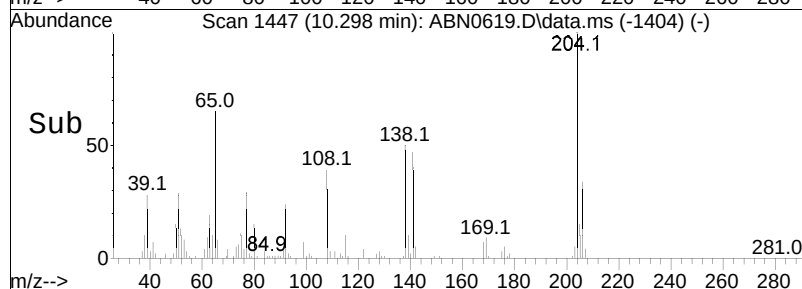
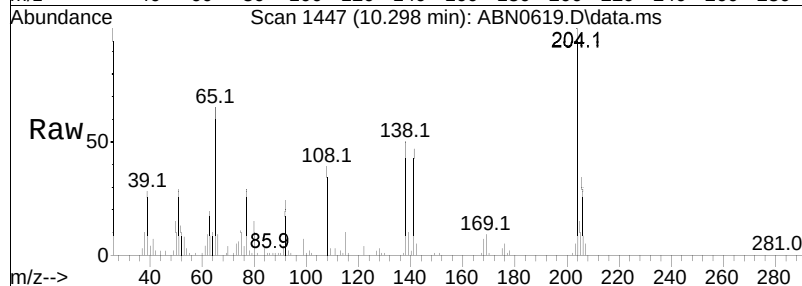
Tgt Ion:138 Resp: 52917

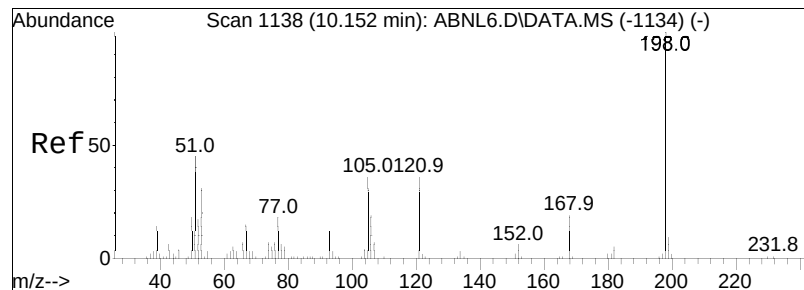
Ion Ratio Lower Upper

138 100

108 71.0 52.1 78.1

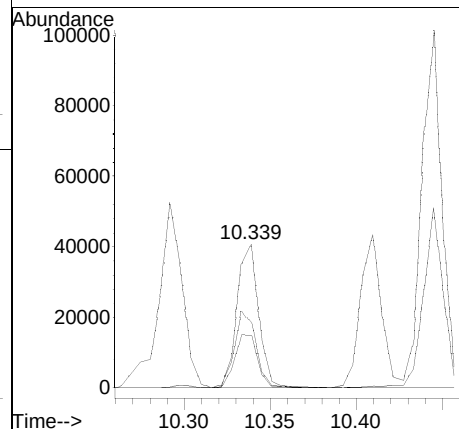
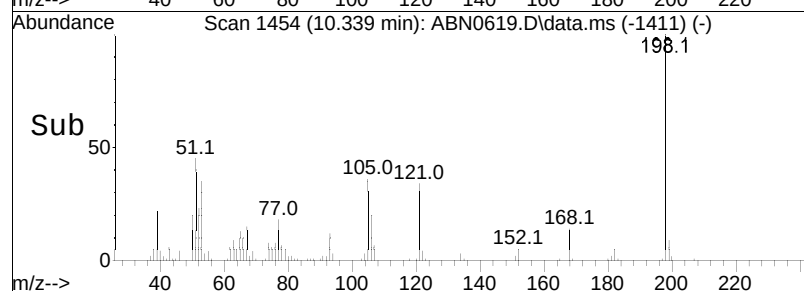
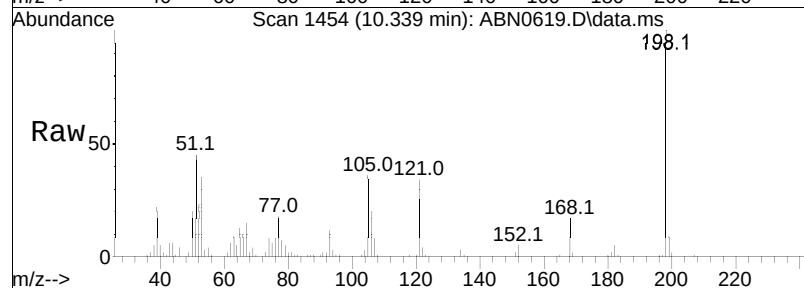
65 124.7 115.0 172.6

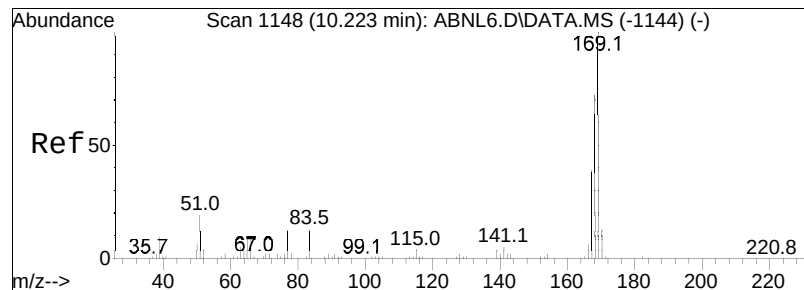




#76
 4,6-Dinitro-o-cresol
 Concen: 4.74 ug/ml
 RT: 10.339 min Scan# 1454
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

Tgt Ion	Ratio	Lower	Upper
198	100		
51	54.3	76.0	114.0#
105	39.4	45.6	68.4#





#77

NDPA/DPA

Concen: 4.62 ug/ml

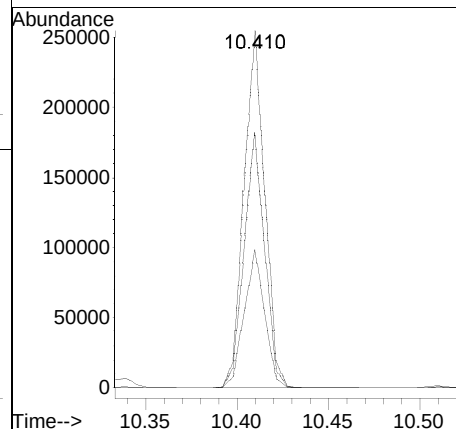
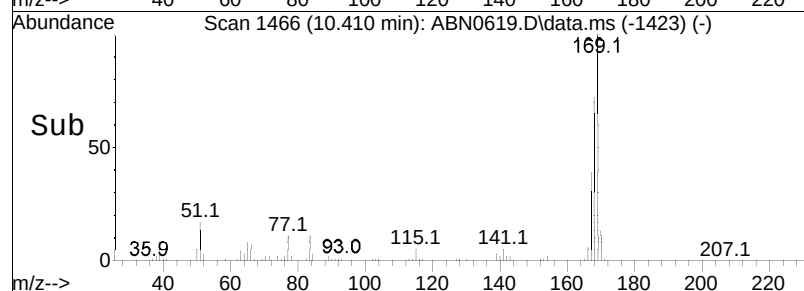
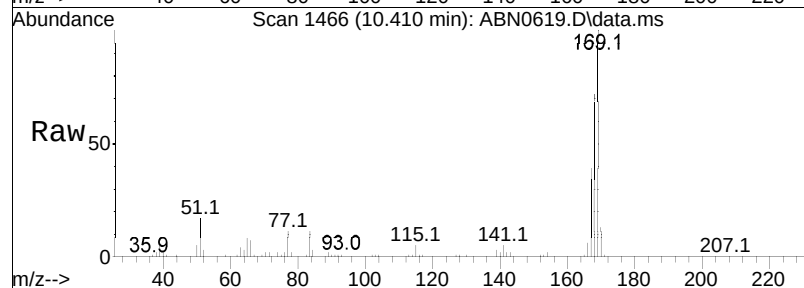
RT: 10.410 min Scan# 1466

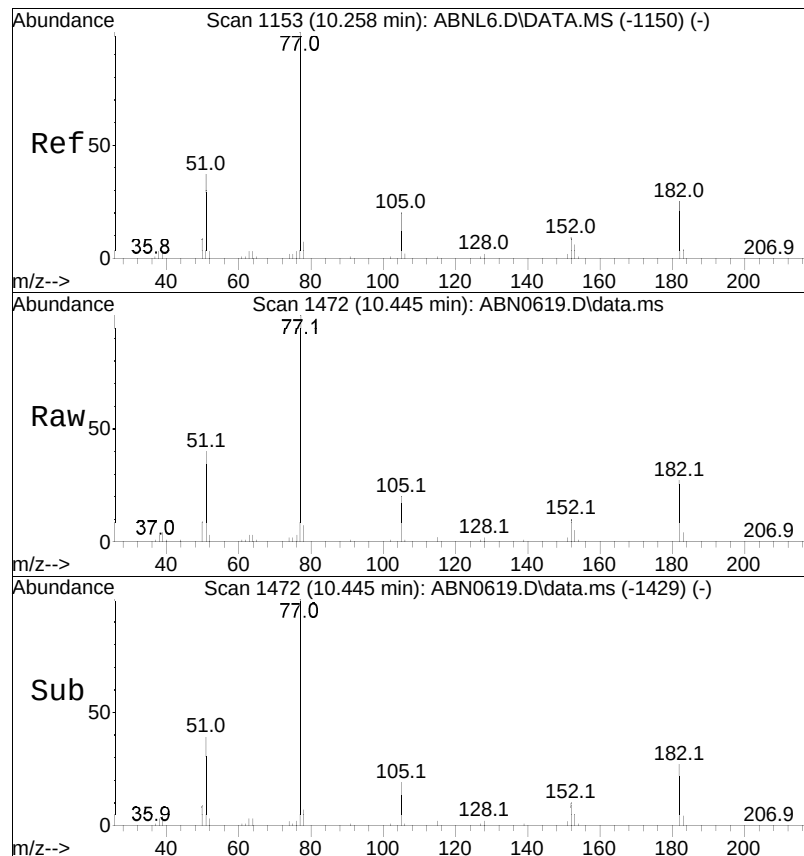
Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 6:58 am

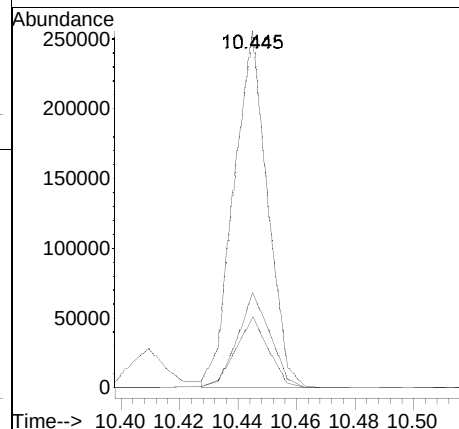
Tgt Ion:	169	Resp:	199361
Ion Ratio	Lower	Upper	
169	100		
168	70.9	54.0	81.0
167	38.3	28.6	42.8

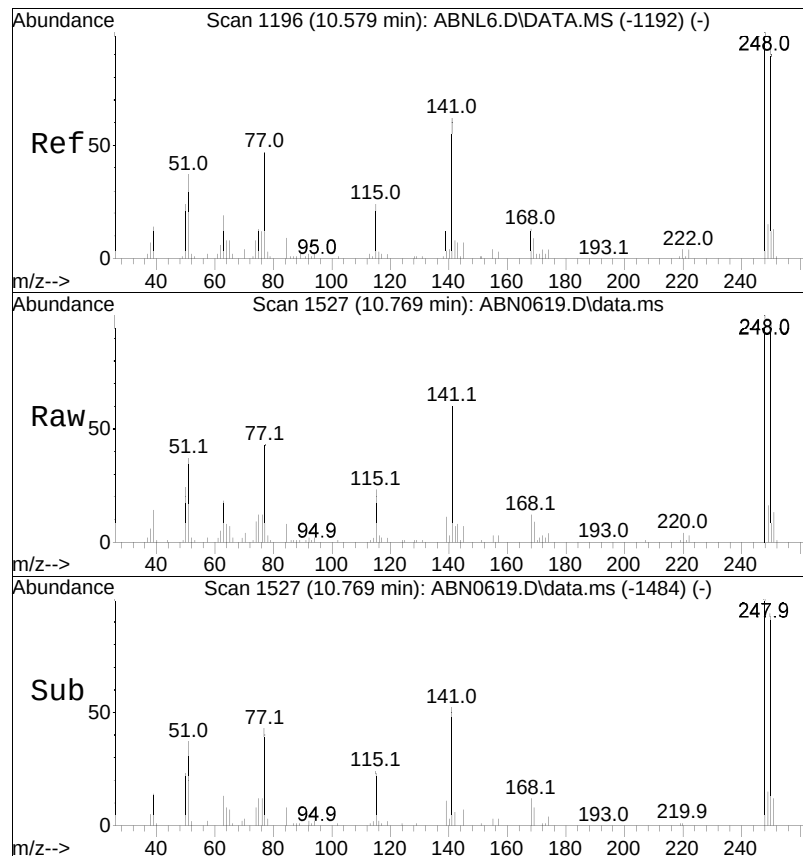




#78
 Azobenzene
 Concen: 4.91 ug/ml
 RT: 10.445 min Scan# 1472
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

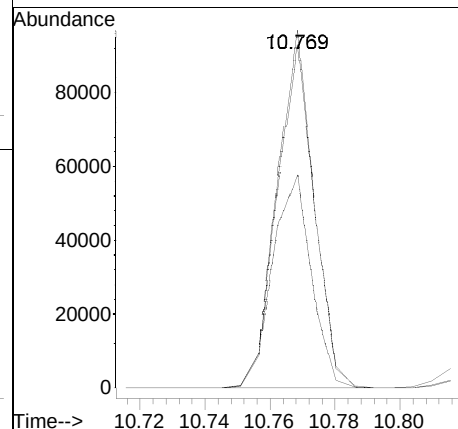
Tgt Ion	Ratio	Lower	Upper
77	100		
182	26.8	17.4	26.2#
105	20.3	15.4	23.2

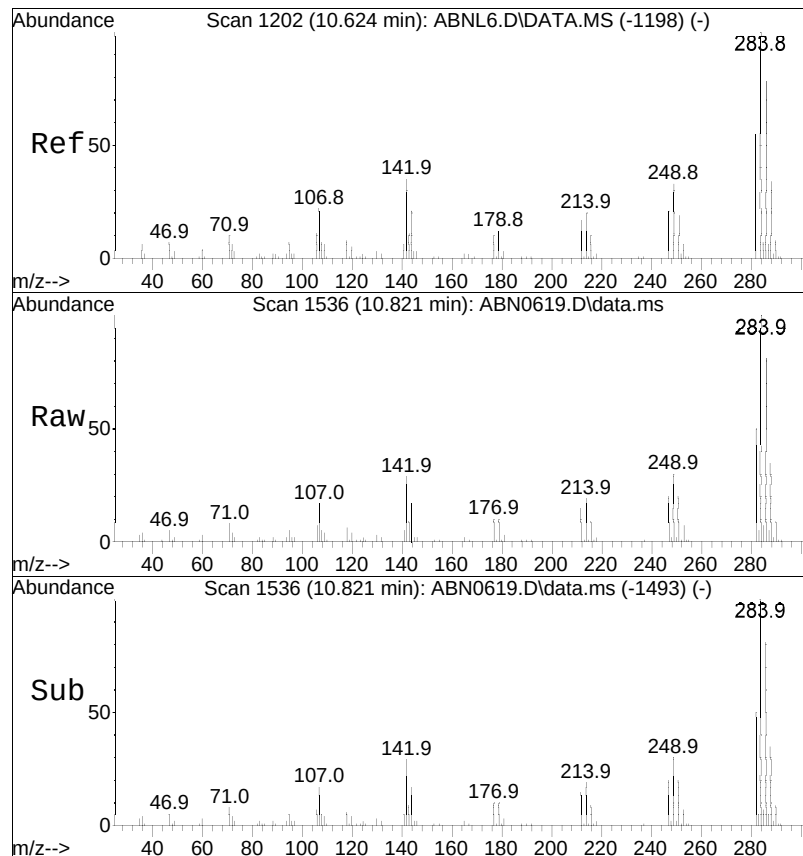




#80
 4-Bromophenyl phenyl ether
 Concen: 4.46 ug/ml
 RT: 10.769 min Scan# 1527
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

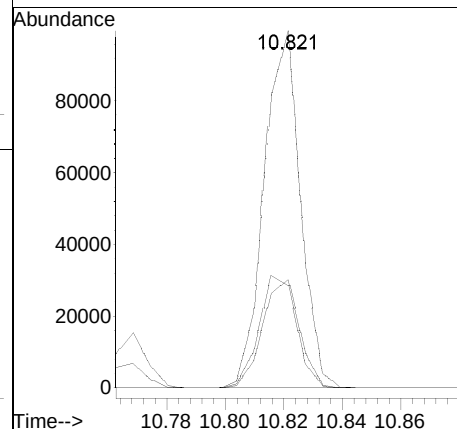
Tgt Ion:	248	Resp:	75780
Ion Ratio	Lower	Upper	
248	100		
141	62.9	76.6	114.8#
250	96.6	77.3	115.9

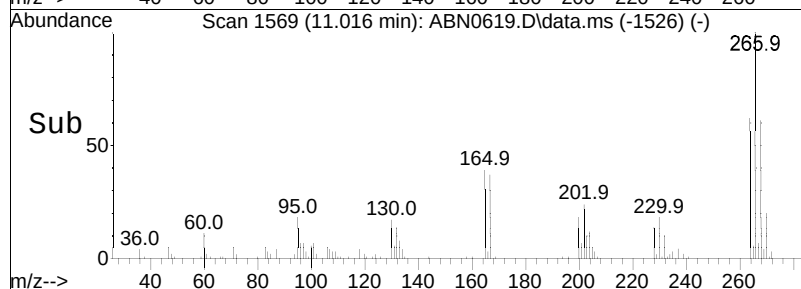
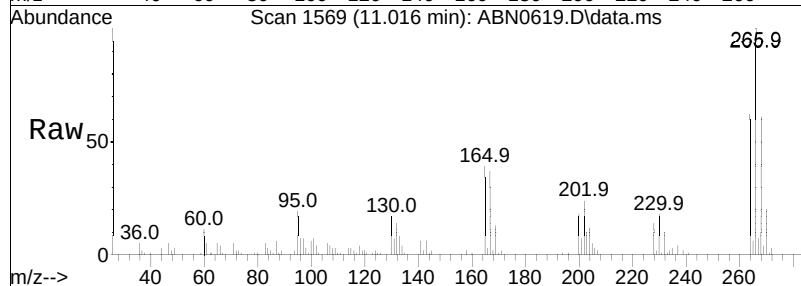
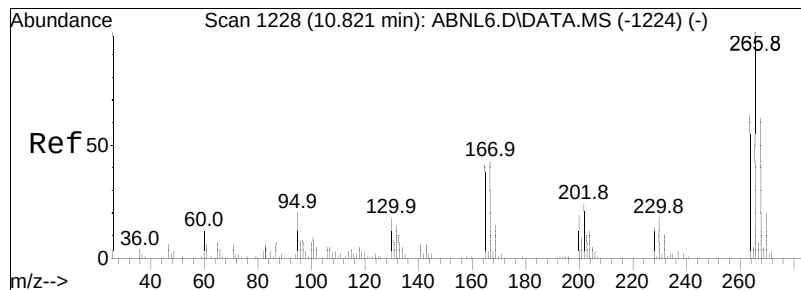




#81
 Hexachlorobenzene
 Concen: 4.29 ug/ml
 RT: 10.821 min Scan# 1536
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

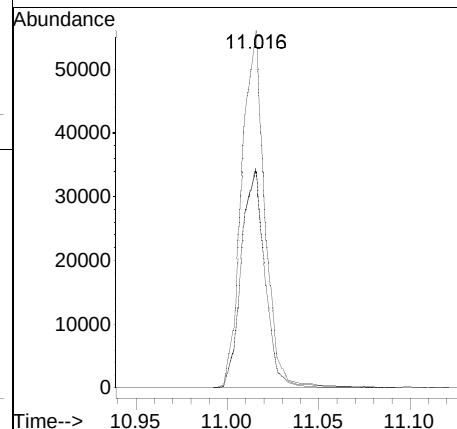
Tgt	Ion:284	Resp:	85544
Ion	Ratio	Lower	Upper
284	100		
142	32.6	41.9	62.9#
249	31.2	24.1	36.1

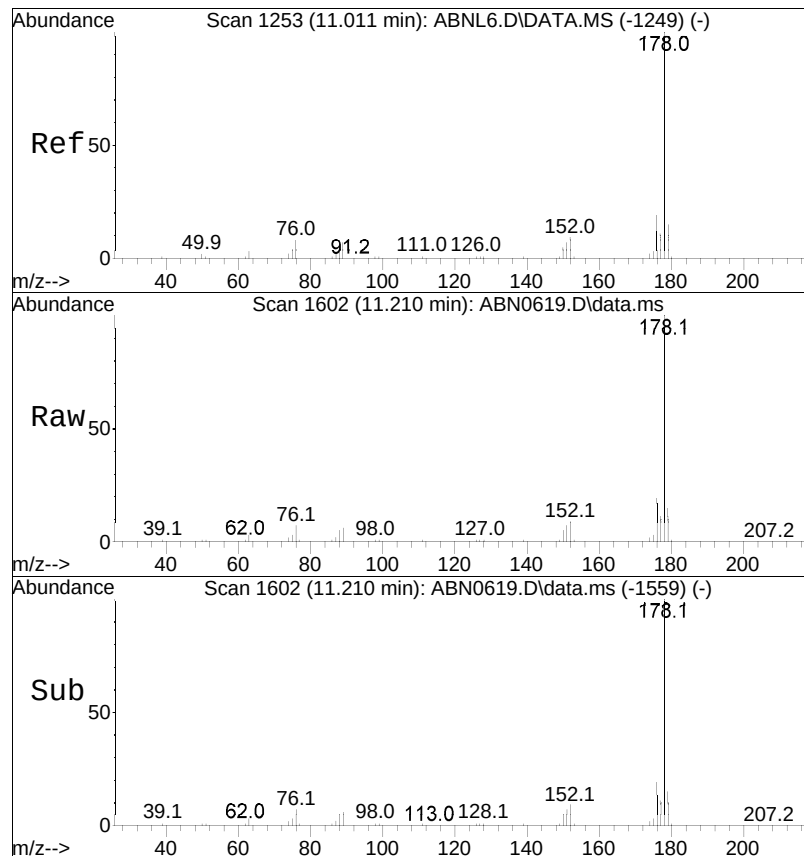




#82
 Pentachlorophenol
 Concen: 4.77 ug/ml
 RT: 11.016 min Scan# 1569
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

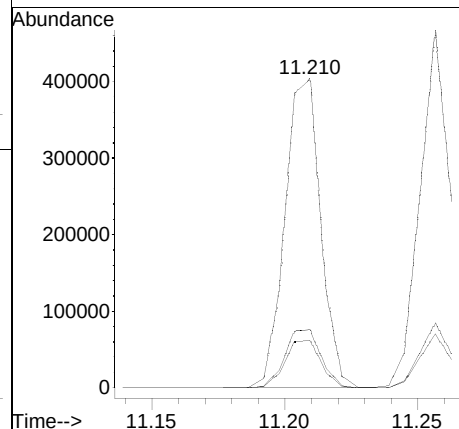
Tgt Ion	Ratio	Resp	Lower	Upper
266	100	49463		
264	62.4		49.7	74.5
268	63.3		50.5	75.7

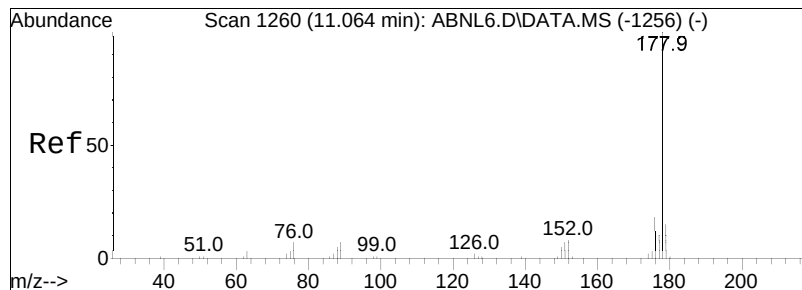




#89
 Phenanthrene
 Concen: 4.47 ug/ml
 RT: 11.210 min Scan# 1602
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

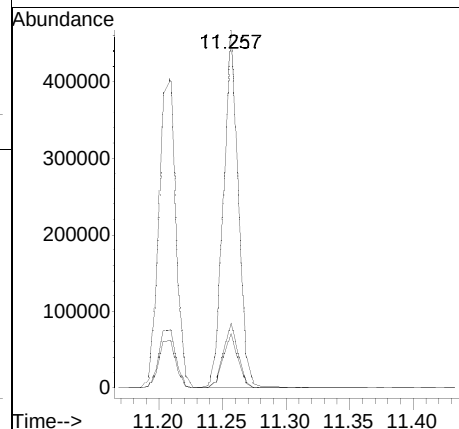
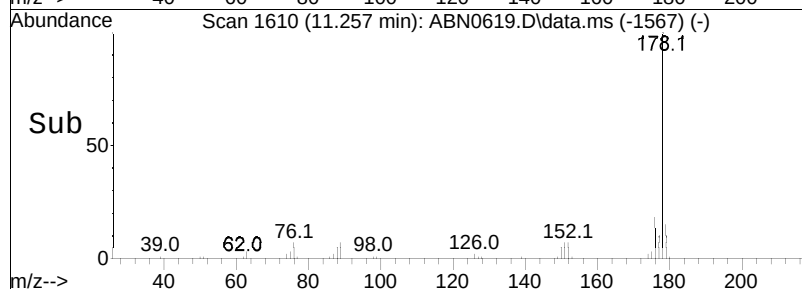
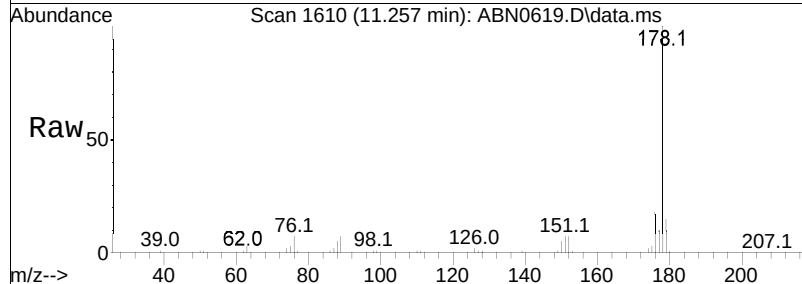
Tgt Ion:	178	Resp:	376566
Ion Ratio	Lower	Upper	
178	100		
179	15.4	12.2	18.2
176	19.0	15.4	23.2

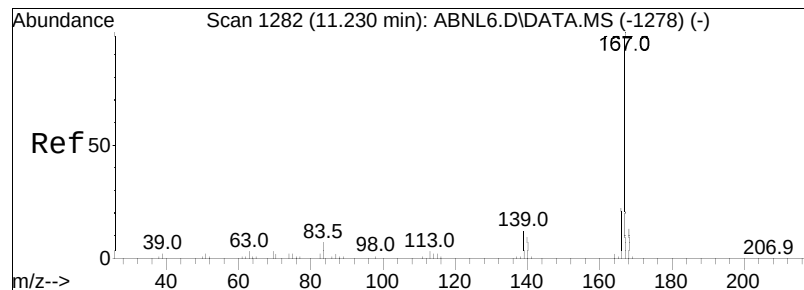




#90
 Anthracene
 Concen: 4.62 ug/ml
 RT: 11.257 min Scan# 1610
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

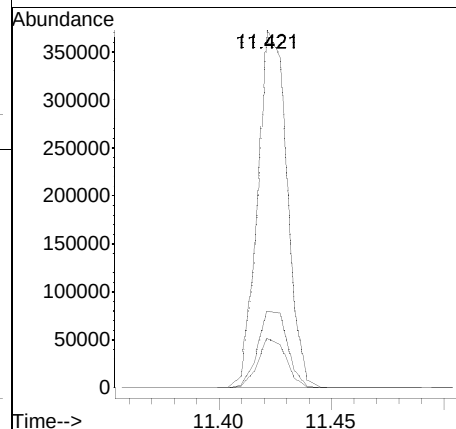
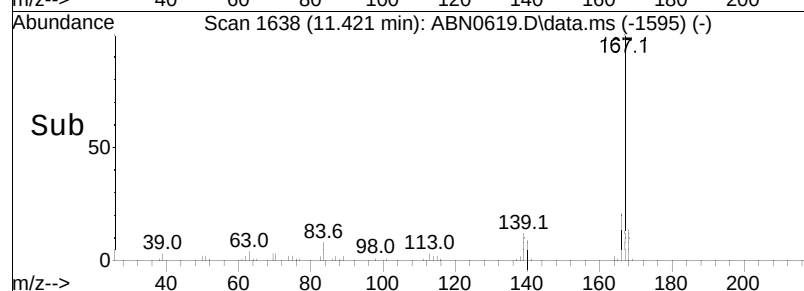
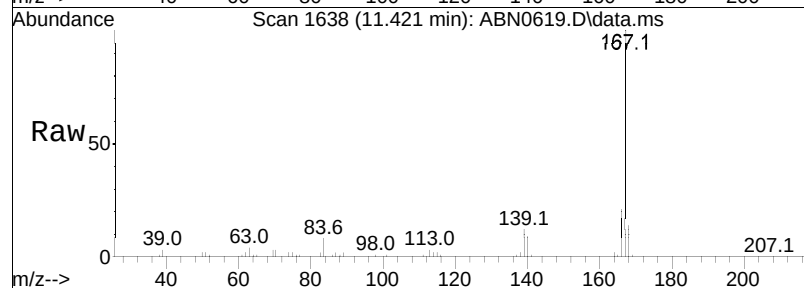
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	18.1	14.6	22.0

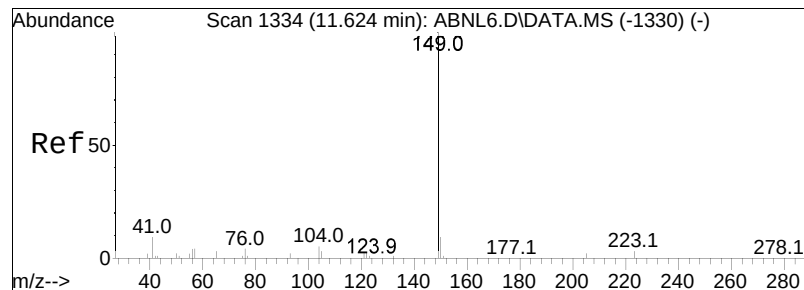




#91
 Carbazole
 Concen: 4.57 ug/ml
 RT: 11.421 min Scan# 1638
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

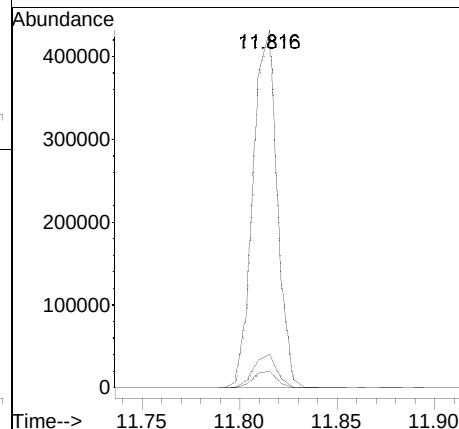
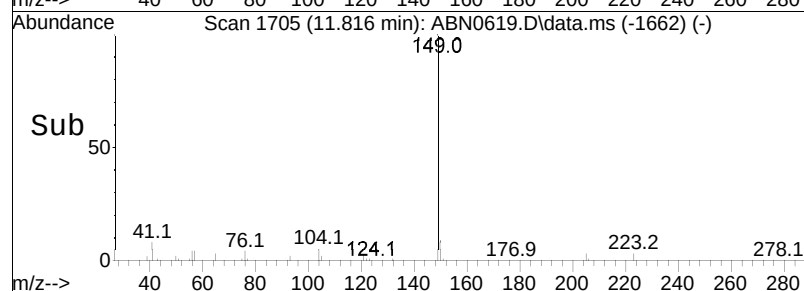
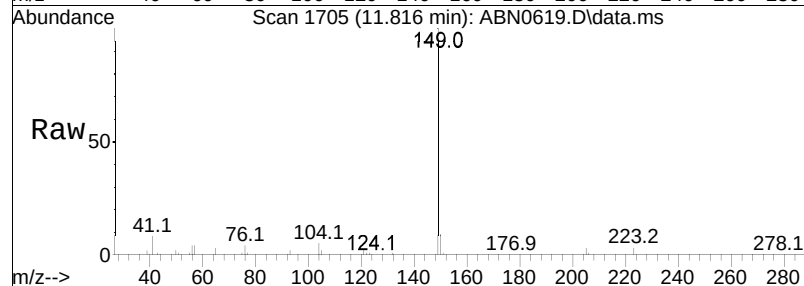
Tgt Ion	Ratio	Lower	Upper
167	100		
168	13.5	10.6	15.8
166	21.8	17.4	26.0

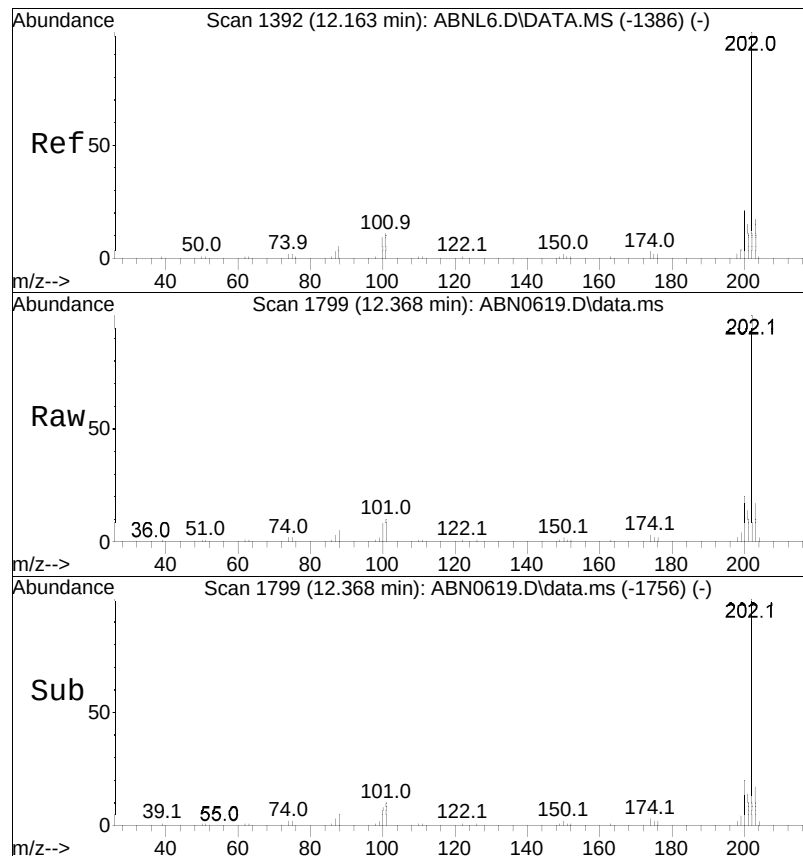




#92
 Di-n-butylphthalate
 Concen: 4.43 ug/ml
 RT: 11.816 min Scan# 1705
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

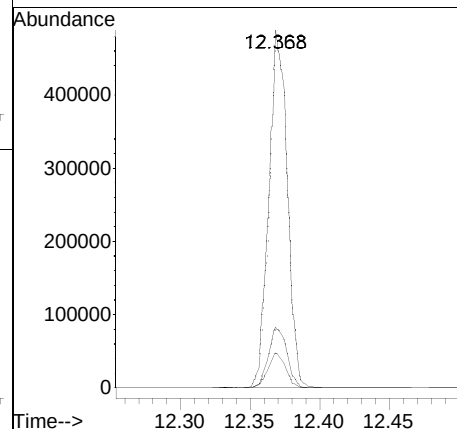
Tgt Ion:	149	Resp:	366738
Ion Ratio	Lower	Upper	
149	100		
150	9.1	7.0	10.6
104	4.7	4.5	6.7

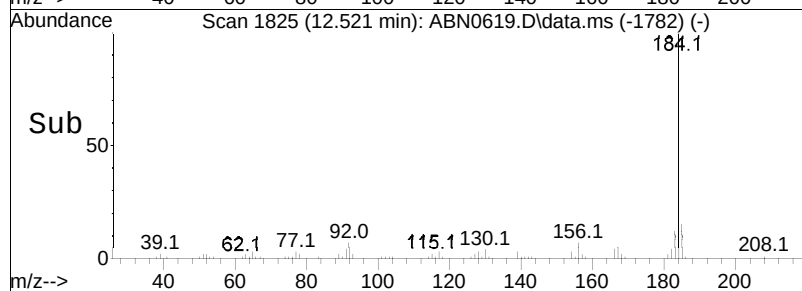
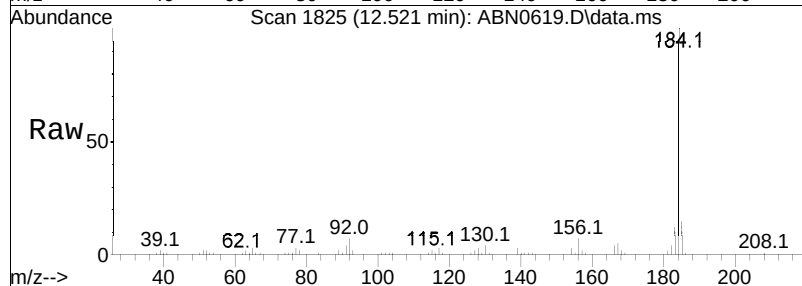
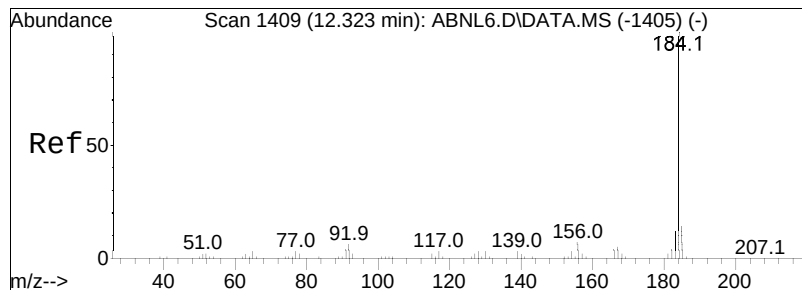




#93
 Fluoranthene
 Concen: 4.58 ug/ml
 RT: 12.368 min Scan# 1799
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

Tgt Ion:	202	Resp:	440469
Ion Ratio	Lower	Upper	
202	100		
101	9.5	13.5	20.3#
203	17.3	13.6	20.4





#94

Benzidine

Concen: 4.61 ug/ml

RT: 12.521 min Scan# 1825

Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 6:58 am

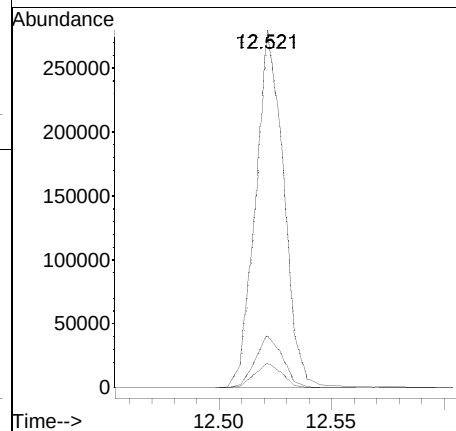
Tgt Ion:184 Resp: 240677

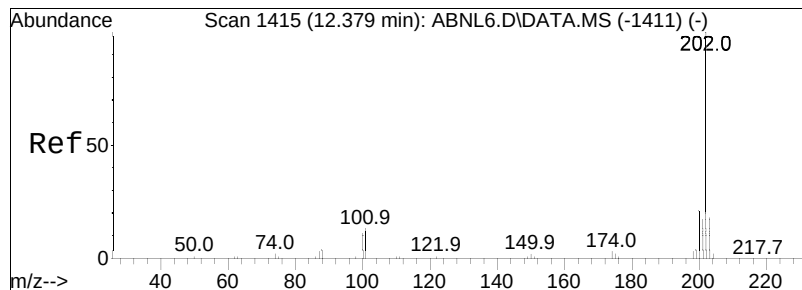
Ion Ratio Lower Upper

184 100

92 6.9 9.1 13.7#

185 14.4 11.1 16.7





#95

Pyrene

Concen: 4.65 ug/ml

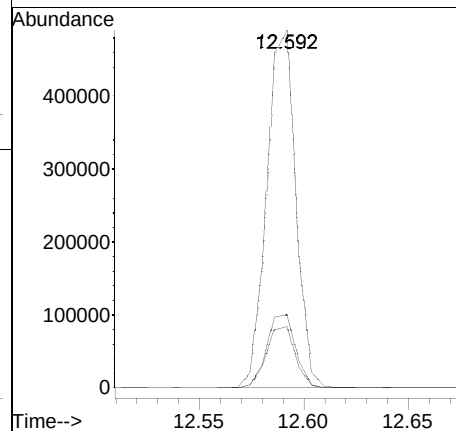
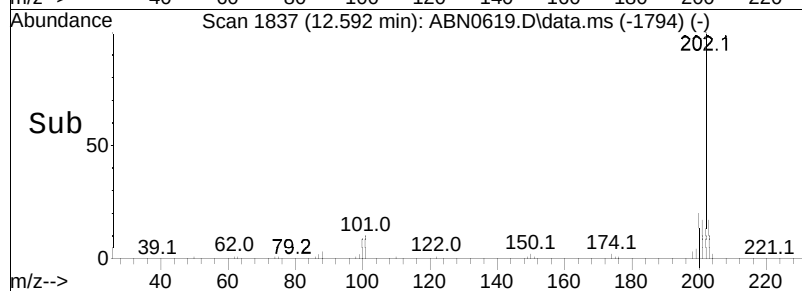
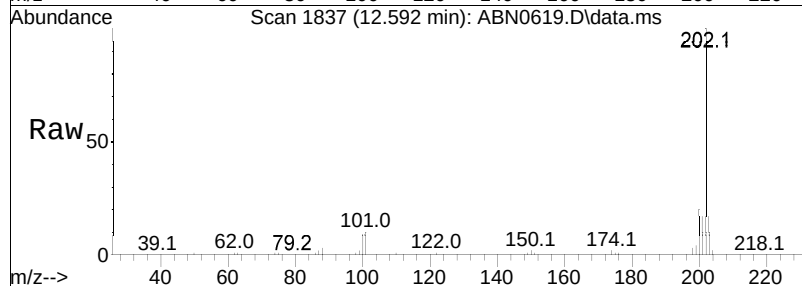
RT: 12.592 min Scan# 1837

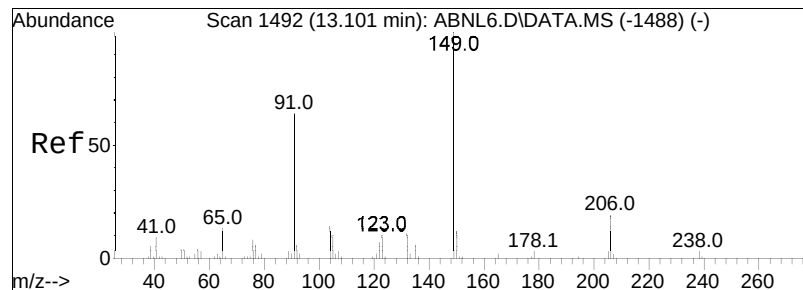
Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 6:58 am

Tgt	Ion:202	Resp:	468395
Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.7	25.1
203	17.3	14.2	21.4





#97

Butyl benzyl phthalate

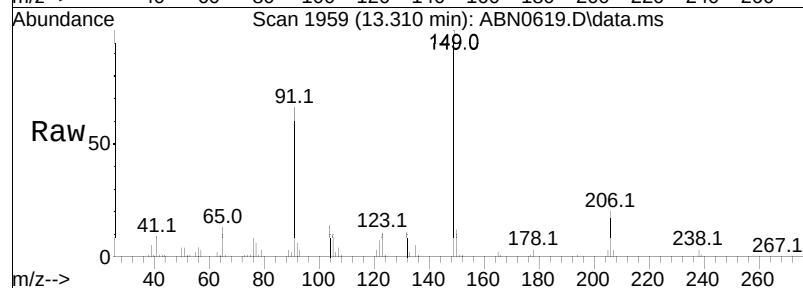
Concen: 4.03 ug/ml

RT: 13.310 min Scan# 1959

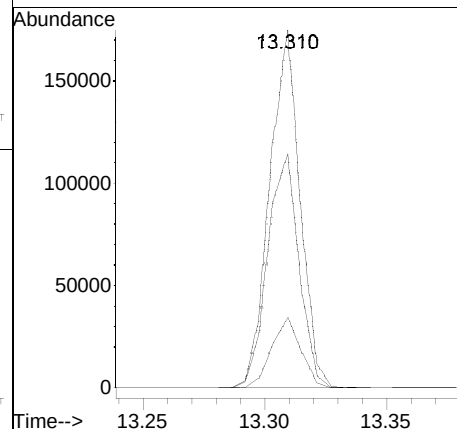
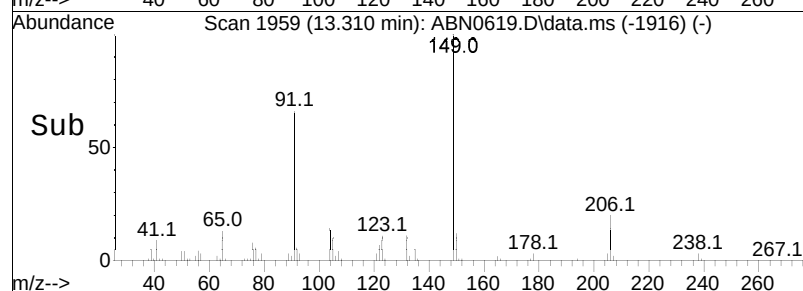
Delta R.T. 0.000 min

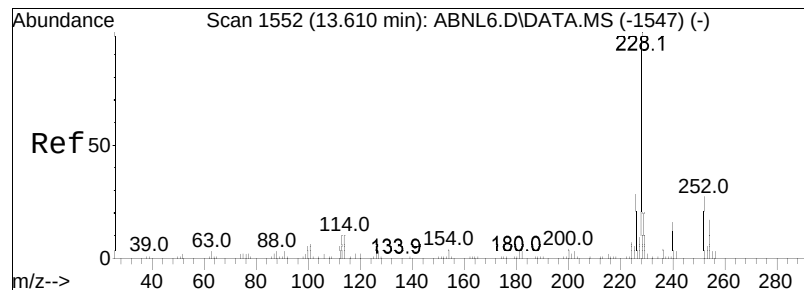
Lab File: ABN0619.D

Acq: 19 Jun 2025 6:58 am



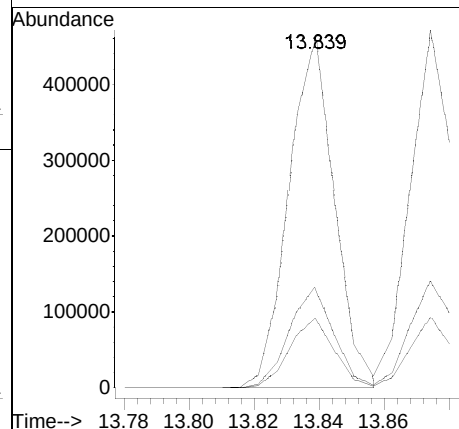
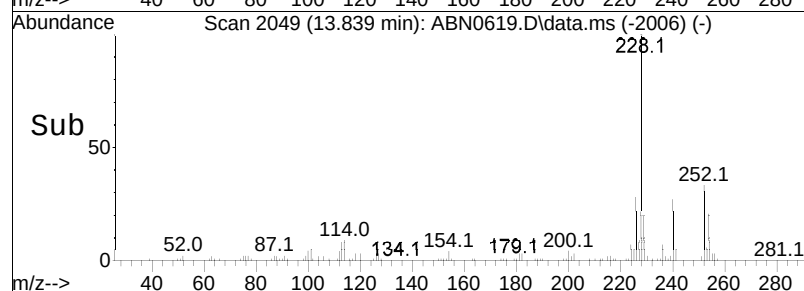
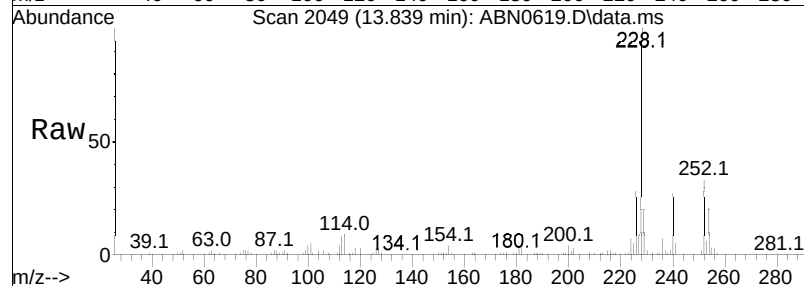
Tgt Ion:	149	Resp:	149724
Ion Ratio	Lower	Upper	
149	100		
91	67.5	63.3	94.9
206	19.3	13.9	20.9

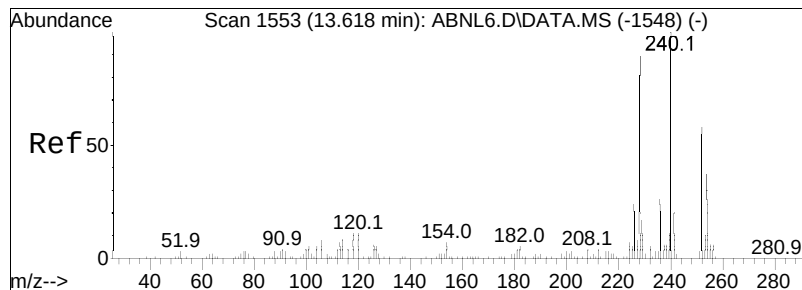




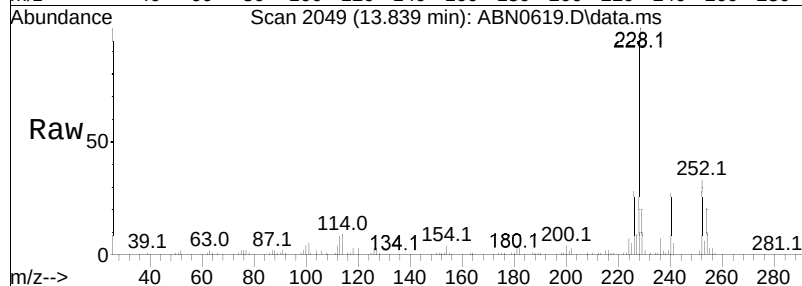
#105
 Benzo(a)anthracene
 Concen: 4.56 ug/ml
 RT: 13.839 min Scan# 2049
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.2	33.4
229	19.5	15.6	23.4

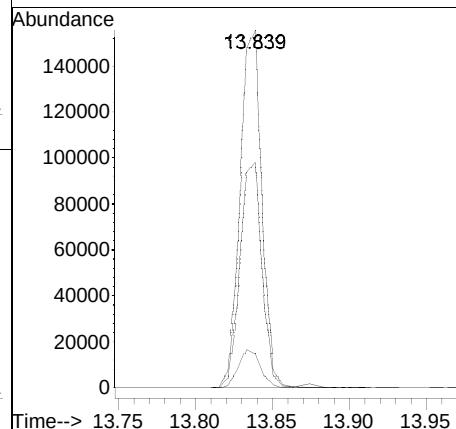
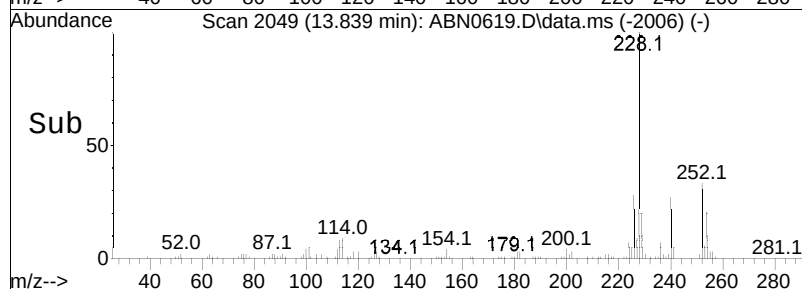


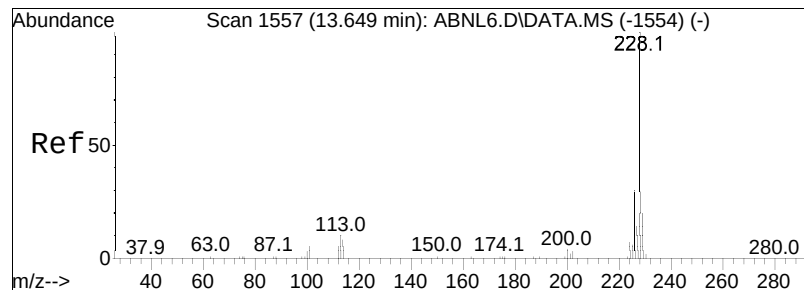


#106
 3,3'-Dichlorobenzidine
 Concen: 4.58 ug/ml
 RT: 13.839 min Scan# 2049
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am



Tgt Ion	Ratio	Lower	Upper
252	100		
126	11.1	14.5	21.7#
254	63.8	51.2	76.8





#107

Chrysene

Concen: 4.47 ug/ml

RT: 13.874 min Scan# 2055

Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 6:58 am

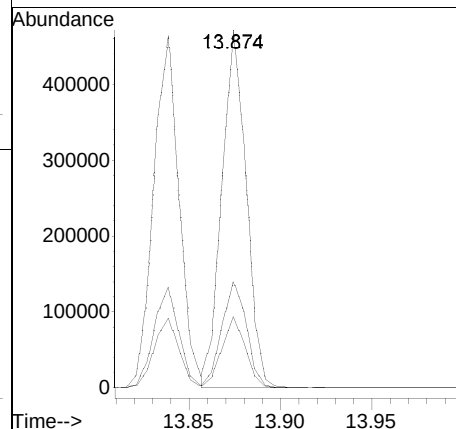
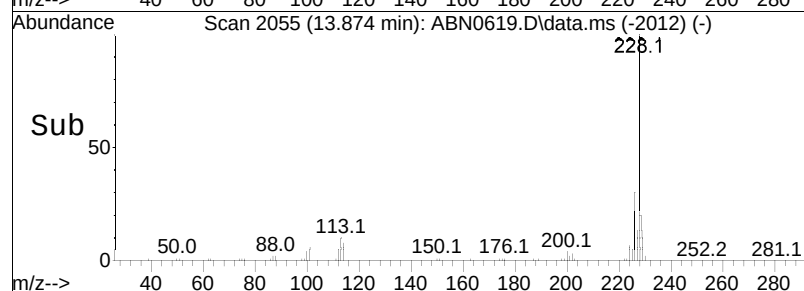
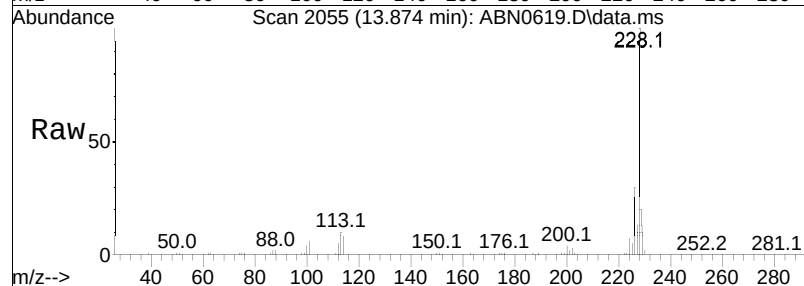
Tgt Ion: 228 Resp: 437478

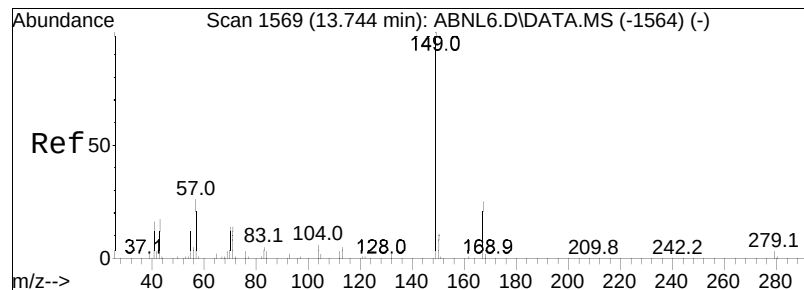
Ion Ratio Lower Upper

228 100

226 30.1 24.0 36.0

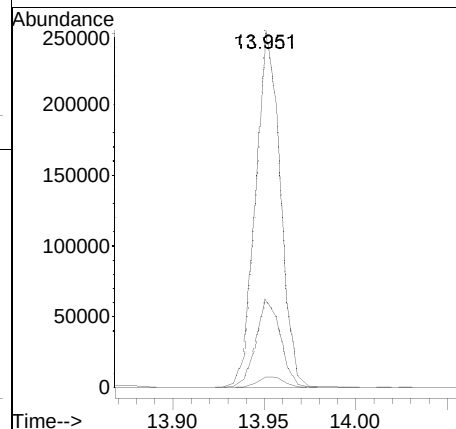
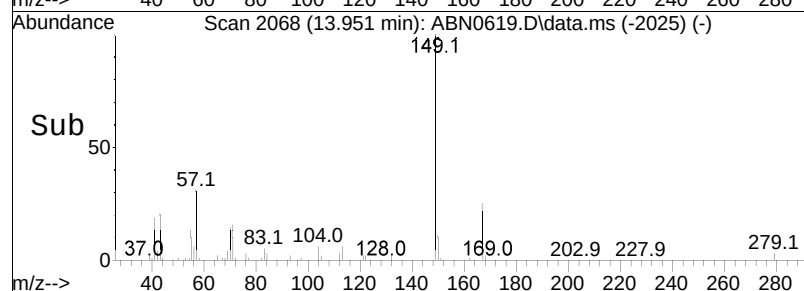
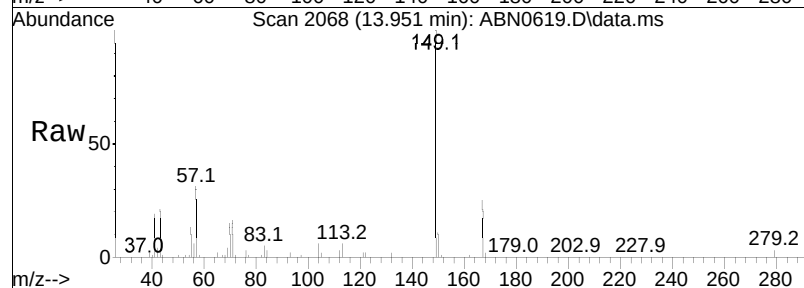
229 19.3 15.8 23.8

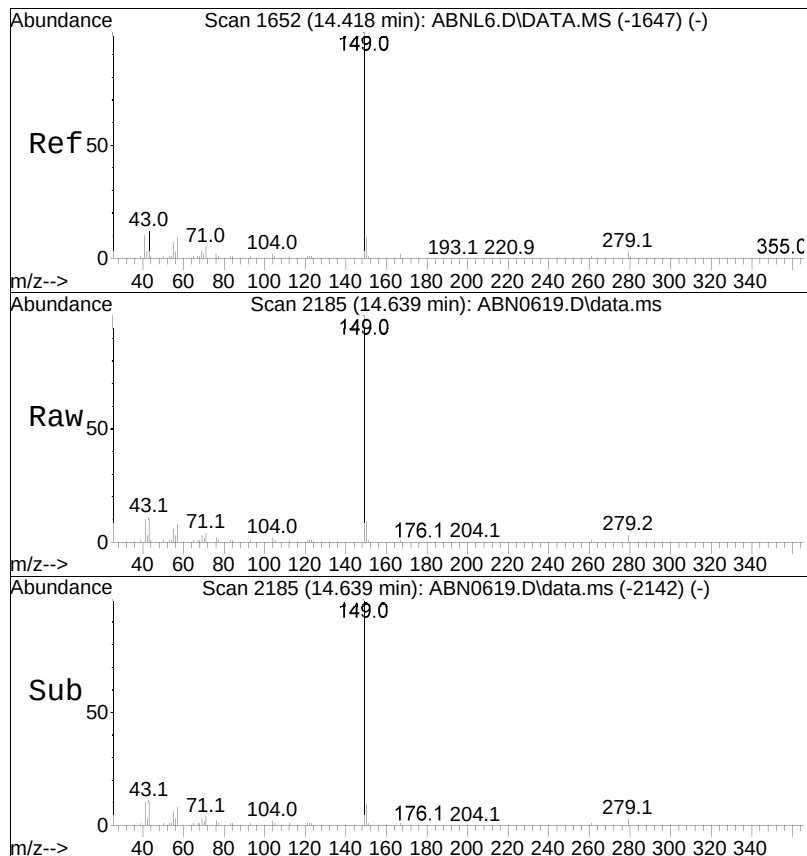




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 4.20 ug/ml
 RT: 13.951 min Scan# 2068
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

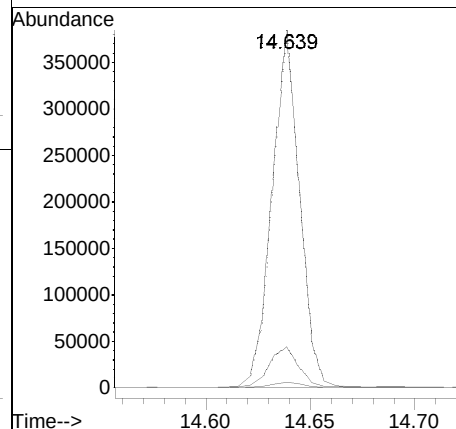
Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.9	22.1	33.1
279	3.0	3.0	4.4

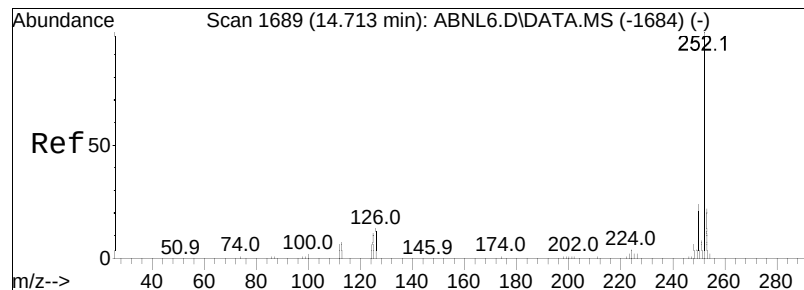




#109
 Di-n-octylphthalate
 Concen: 3.77 ug/ml
 RT: 14.639 min Scan# 2185
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

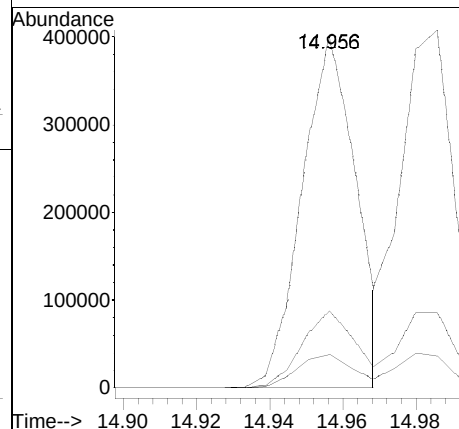
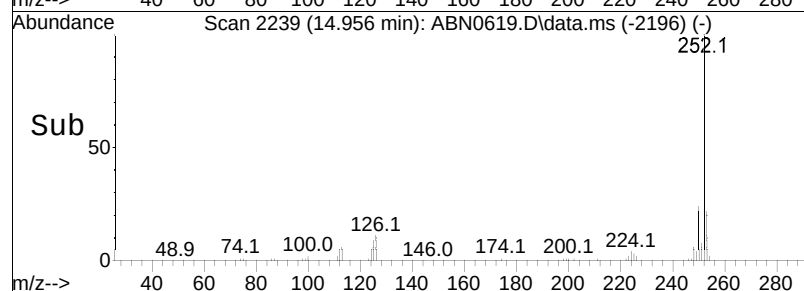
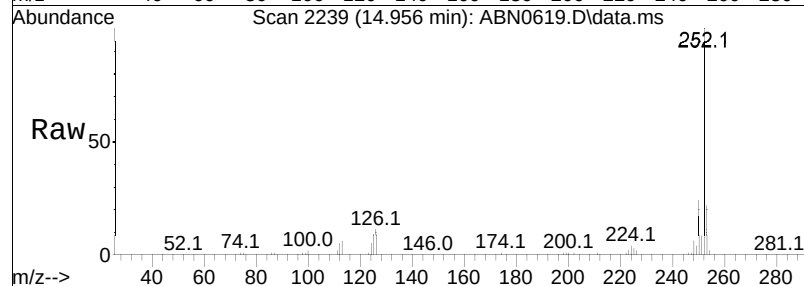
Tgt Ion	Ratio	Resp	Lower	Upper
149	100	347557		
43	12.5		18.8	28.2#
167	1.4		1.3	1.9

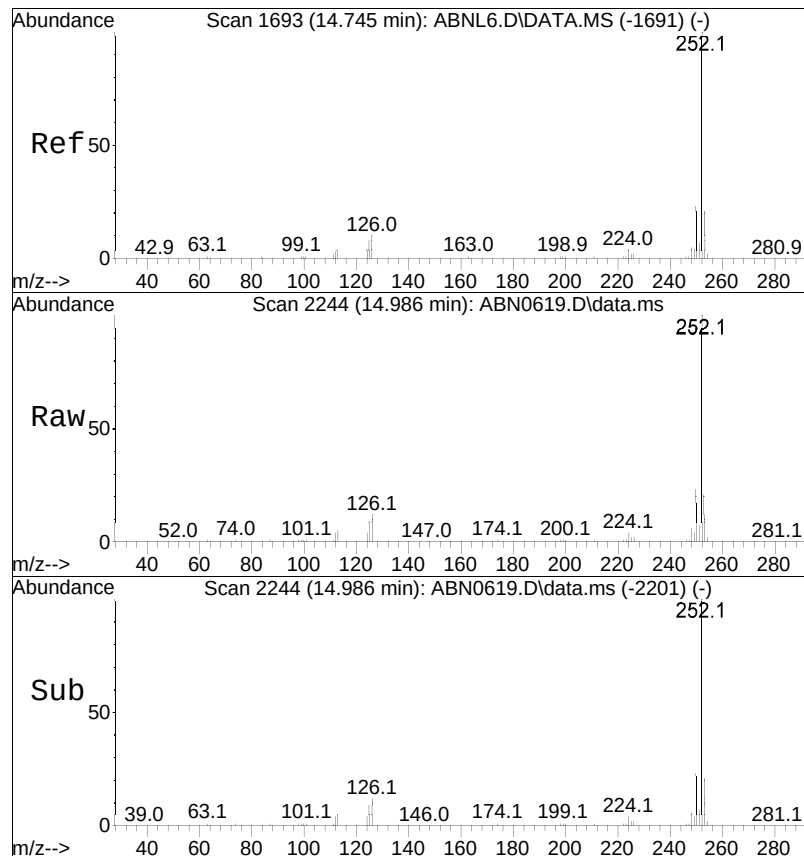




#110
Benzo(b)fluoranthene
Concen: 4.11 ug/ml
RT: 14.956 min Scan# 2239
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2025 6:58 am

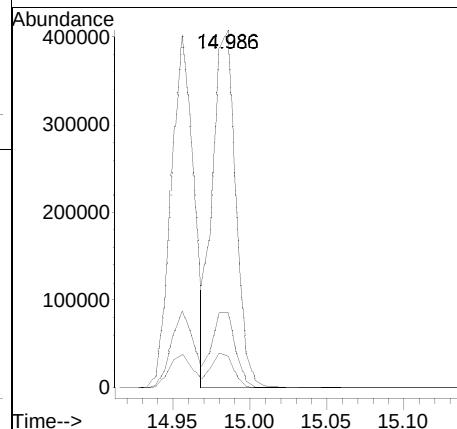
Tgt Ion	Ratio	Lower	Upper
252	100		
125	10.0	13.3	19.9#
253	21.8	17.1	25.7

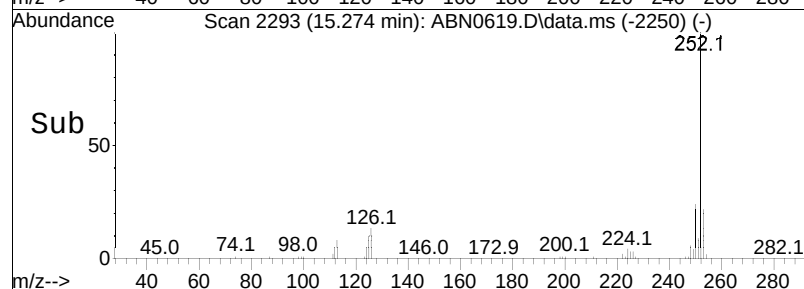
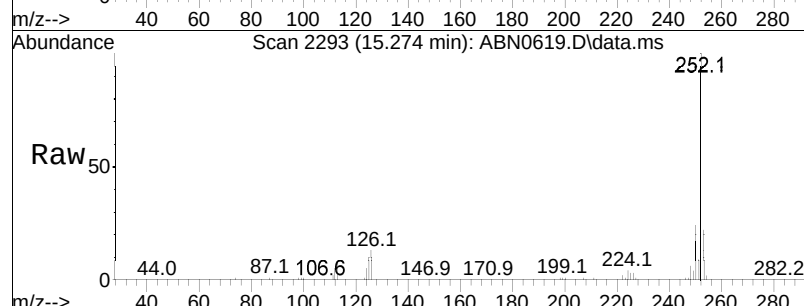
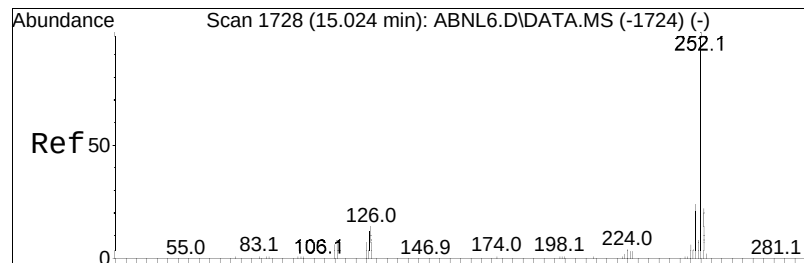




#111
 Benzo(k)fluoranthene
 Concen: 4.49 ug/ml
 RT: 14.986 min Scan# 2244
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

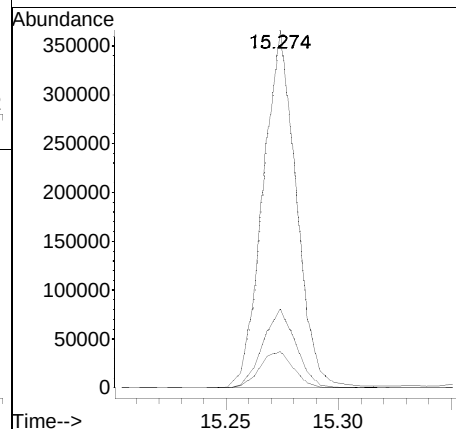
Tgt Ion:	252	Resp:	423918
Ion Ratio	Lower	Upper	
252	100		
125	9.5	13.0	19.6#
253	21.7	16.8	25.2

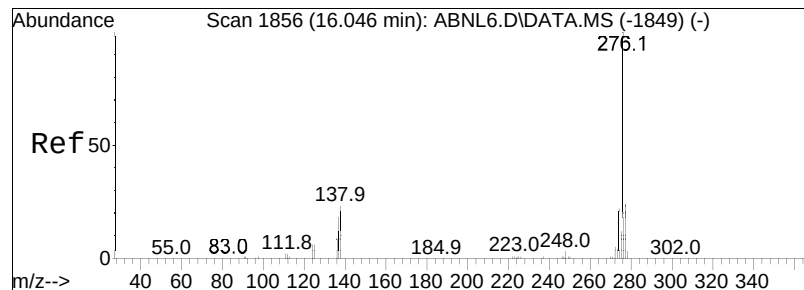




#112
 Benzo(a)pyrene
 Concen: 4.18 ug/ml
 RT: 15.274 min Scan# 2293
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

Tgt Ion	Ratio	Lower	Upper
252	100		
125	10.5	14.2	21.2#
253	22.2	16.9	25.3





#114

Indeno(1,2,3-cd)pyrene

Concen: 4.19 ug/mL M6

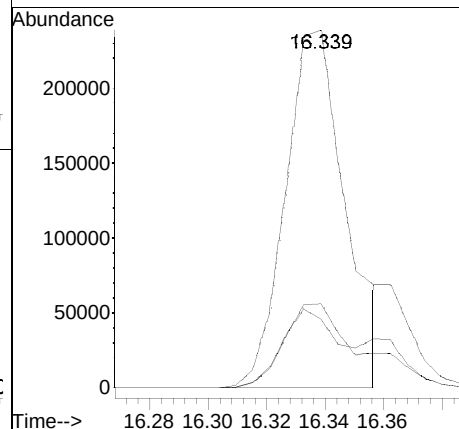
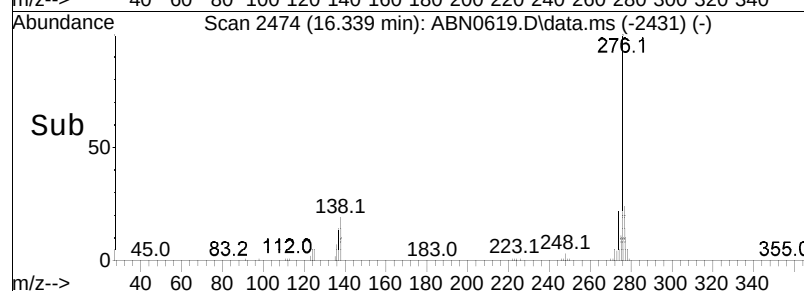
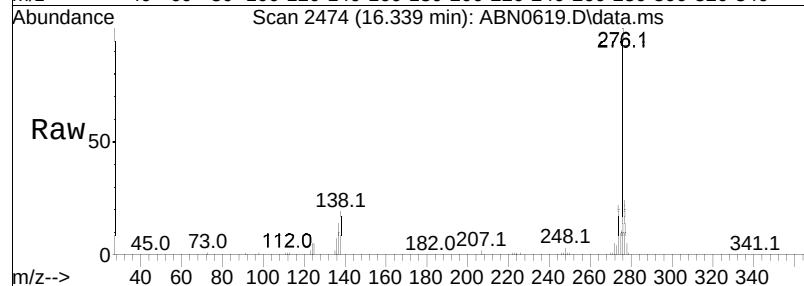
RT: 16.339 min Scan# 2474

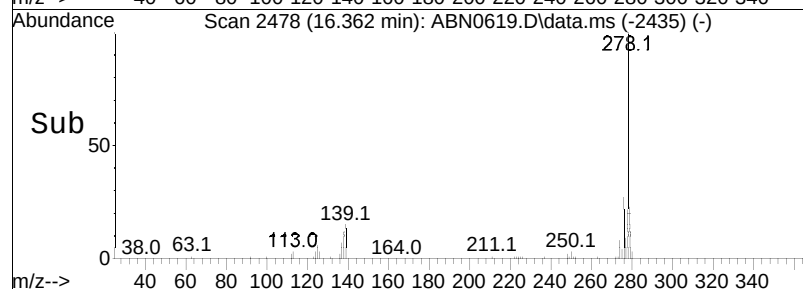
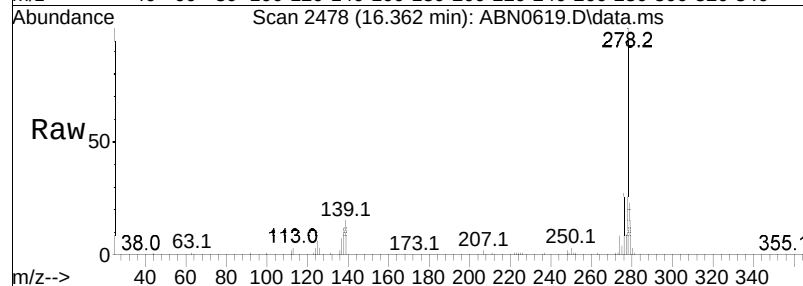
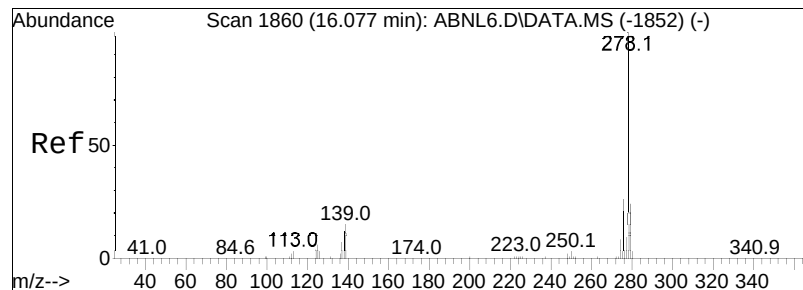
Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 6:58 am

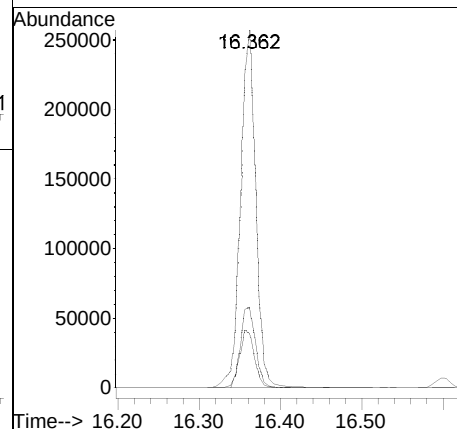
Tgt Ion:	276	Resp:	340554
Ion Ratio	Lower	Upper	
276	100		
138	21.5	25.1	37.7#
277	30.4	18.6	28.0#

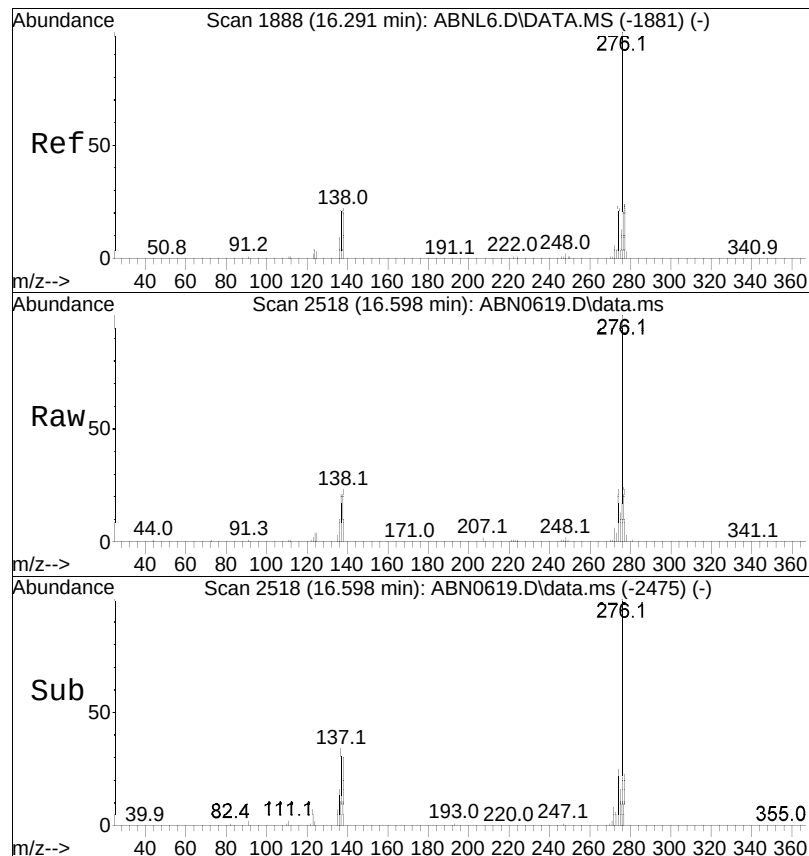




#115
 Dibenzo(a,h)anthracene
 Concen: 4.11 ug/ml
 RT: 16.362 min Scan# 2478
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

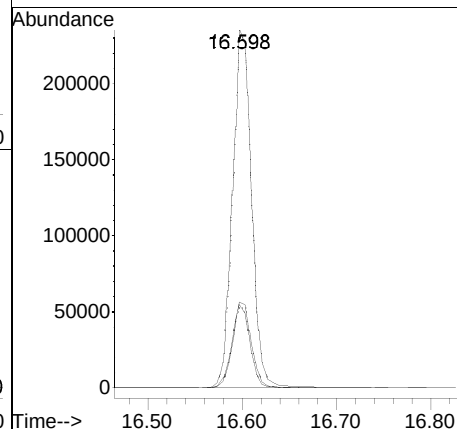
Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.8	20.8	31.2#
279	22.9	18.3	27.5





#116
 Benzo(ghi)perylene
 Concen: 4.07 ug/ml
 RT: 16.598 min Scan# 2518
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 6:58 am

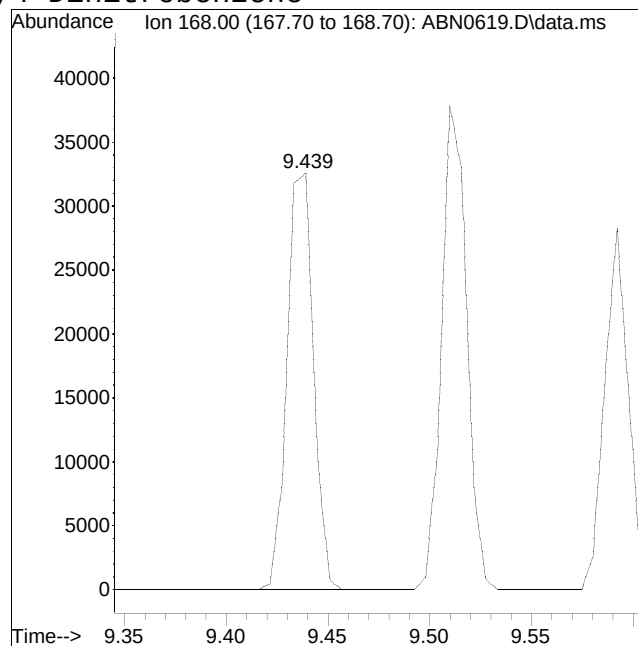
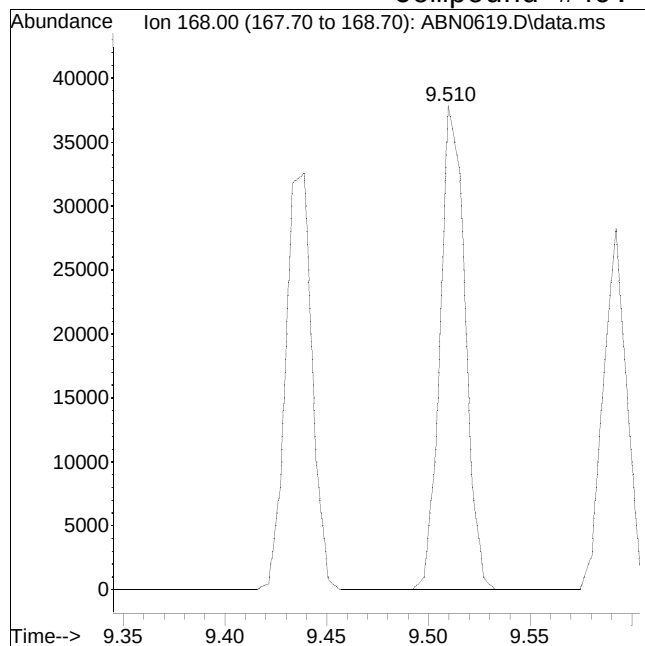
Tgt Ion:	276	Resp:	324131
Ion Ratio	100	Lower	Upper
138	22.7	29.2	43.8#
277	23.9	18.8	28.2



Manual Integration Report

Data Path : I:\8270\SV106\250619RVT\ QMethod : FS250311SV106.m
Data File : ABN0619.D Operator : SV106:smz
Date Inj'd : 6/19/2025 6:58 am Instrument : SV 106
Sample : wg2080865-3,32,,ABN 11297 Quant Date : 6/19/2025 8:15 am

Compound #49: 1,4-Dinitrobenzene



Original Peak Response = 32391

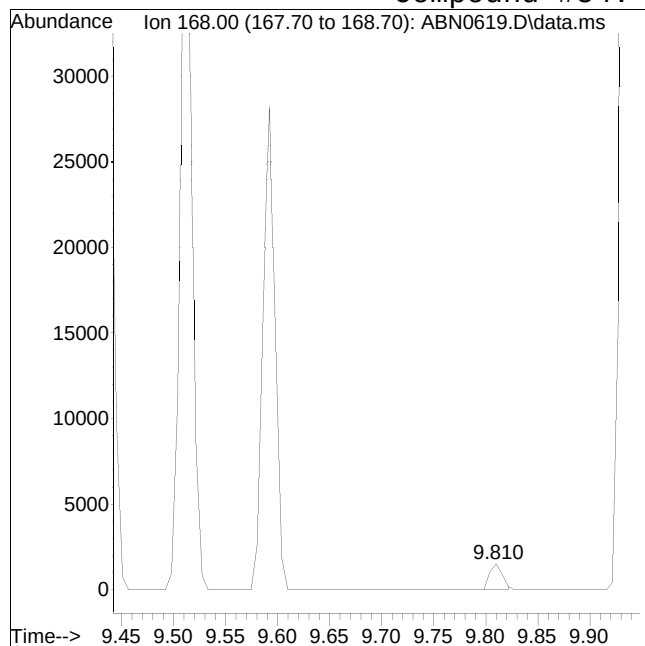
Manual Peak Response = 29503 M3

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.

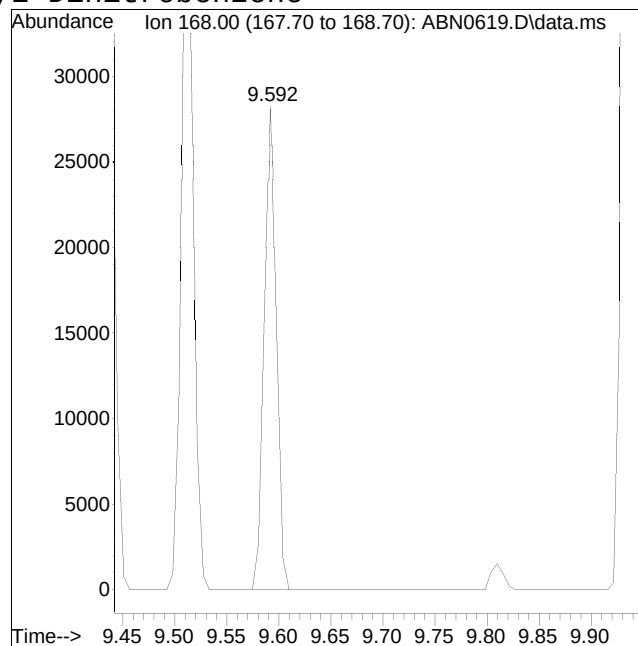
Manual Integration Report

Data Path : I:\8270\SV106\250619RVT\ QMethod : FS250311SV106.m
Data File : ABN0619.D Operator : SV106:smz
Date Inj'd : 6/19/2025 6:58 am Instrument : SV 106
Sample : wg2080865-3,32,,ABN 11297 Quant Date : 6/19/2025 8:15 am

Compound #54: 1,2-Dinitrobenzene



Original Peak Response = 1309



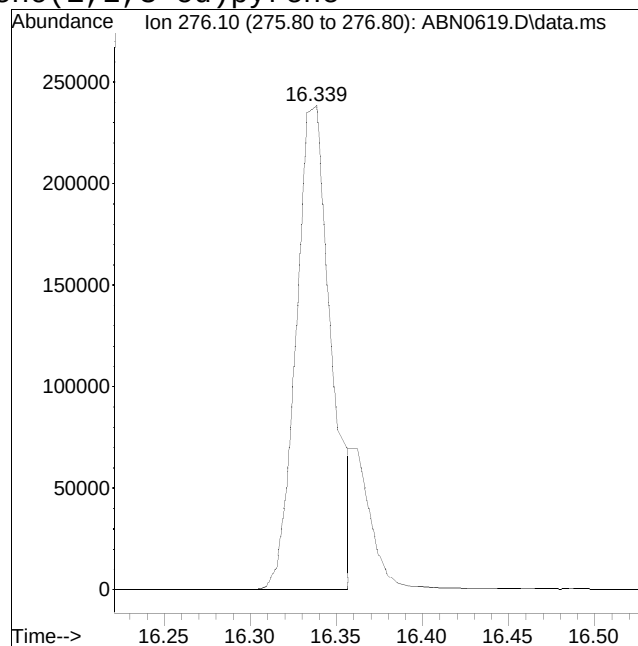
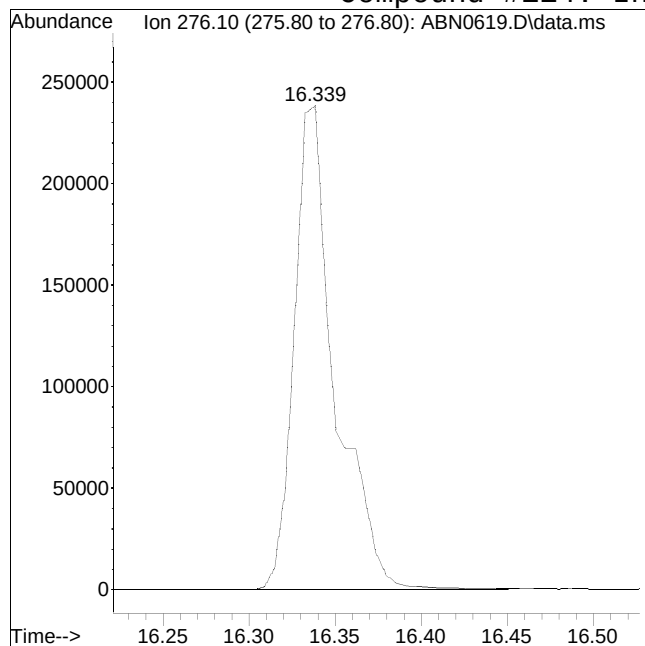
Manual Peak Response = 22648 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\250619RVT\ QMethod : FS250311SV106.m
Data File : ABN0619.D Operator : SV106:smz
Date Inj'd : 6/19/2025 6:58 am Instrument : SV 106
Sample : wg2080865-3,32,,ABN 11297 Quant Date : 6/19/2025 8:15 am

Compound #114: Indeno(1,2,3-cd)pyrene



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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250619RVT\
 Data File : AP90619.D
 Acq On : 19 Jun 2025 7:22 am
 Operator : SV106:smz
 Sample : wg2080865-4,32,,AP9 11482 HNY0523C
 Misc : wg2080865,,ical22075
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 19 08:15:25 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:09 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	107	0.00
28 T	Benzaldehyde	0.954	0.873	8.5	99	0.00
29 T	Acetophenone	1.646	1.520	7.7	98	0.00
30 T	m-Toluidine	1.514	1.415	6.5	97	0.00
31 T	2-Chloroaniline	1.481	1.515	-2.3	110	0.00
55 I	IS2_Naphthalene-d8	1.000	1.000	0.0	104	0.00
56 T	a-Terpineol	0.275	0.295	-7.3	113	0.00
57 T	3-Chloroaniline	0.139	0.136	2.2	101	0.00
58 T	2,6-Dichlorophenol	0.270	0.291	-7.8	115	0.00
59 T	1-chloro-2-nitrobenzene	0.108	0.130	-20.4	130	0.00
60 T	Caprolactam	0.165	0.163	1.2	115	0.00
61 T	1,2,4,5-Tetrachlorobenzene	0.401	0.399	0.5	109	0.00
62 T	Biphenyl	0.885	0.848	4.2	105	0.00
83 I	IS2_Acenaphthene-d10	1.000	1.000	0.0	108	0.00
84 T	Dichloran	* 5.000	5.991	-19.8	144	0.00
85 T	Pentachloronitrobenzene	0.144	0.167	-16.0	137	0.00
98 I	IS2_Phenanthrene-d10	1.000	1.000	0.0	111	0.00
99 T	Diphenamid	0.413	0.393	4.8	102	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\250619RVT\
 Data File : AP90619.D
 Acq On : 19 Jun 2025 7:22 am
 Operator : SV106:smz
 Sample : wg2080865-4,32,,AP9 11482 HNY0523C
 Misc : wg2080865,,ical22075
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 19 08:15:25 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:09 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...	6.557	152	60457	4.000	ug/ml	0.00
55) IS2_Naphthalene-d8	7.969	136	221512	4.000	ug/ml #	0.00
83) IS2_Acenaphthene-d10	9.739	164	141624	4.000	ug/ml	0.00
98) IS2_Phenanthrene-d10	11.186	188	294404	4.000	ug/ml	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	5.987	105	66008	4.579	ug/ml	95
29) Acetophenone	7.045	105	114874	4.619	ug/ml#	90
30) m-Toluidine	7.145	106	106938	4.672	ug/ml	94
31) 2-Chloroaniline	7.545	127	114466	5.115	ug/ml	94
56) a-Terpineol	8.039	59	81725	5.370	ug/ml	95
57) 3-Chloroaniline	8.051	65	37749	4.888	ug/ml	87
58) 2,6-Dichlorophenol	8.081	162	80501	5.383	ug/ml	90
59) 1-chloro-2-nitrobenzene	8.345	111	36049	6.028	ug/ml#	1
60) Caprolactam	8.387	55	45058	4.943	ug/ml#	93
61) 1,2,4,5-Tetrachloroben...	8.886	216	110346	4.963	ug/ml	98
62) Biphenyl	9.186	154	234905	4.791	ug/ml	99
84) Dichloran	10.875	206	25281	5.991	ug/ml#	64
85) Pentachloronitrobenzene	11.028	237	29611	5.813	ug/ml#	79
99) Diphenamid	12.092	167	144806	4.766	ug/ml#	76

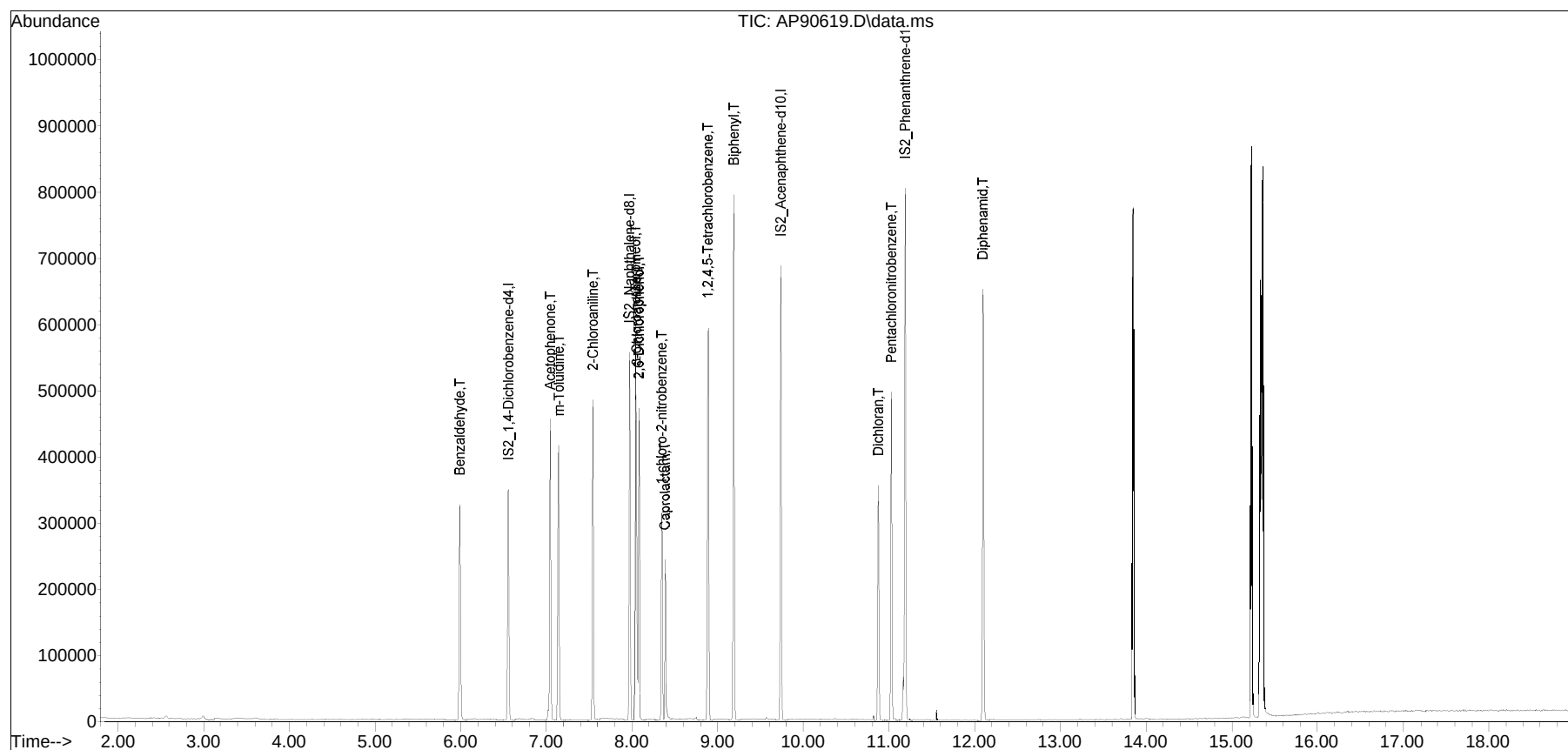
(#) = qualifier out of range (m) = manual integration (+) = signals summed

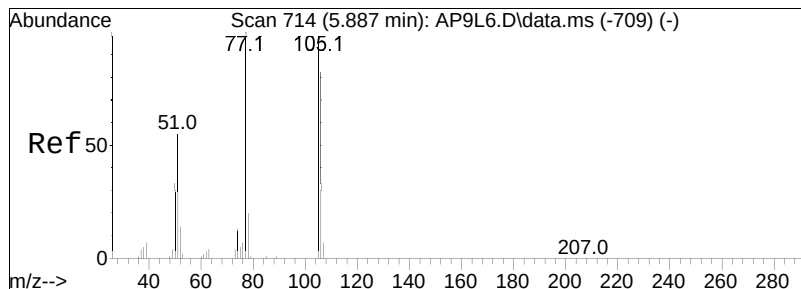
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : AP90619.D
 Acq On : 19 Jun 2025 7:22 am
 Operator : SV106:smz
 Sample : wg2080865-4,32,,AP9 11482 HNY0523C
 Misc : wg2080865,,ical22075
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 19 08:15:25 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:09 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist





#28

Benzaldehyde

Concen: 4.58 ug/ml

RT: 5.987 min Scan# 714

Delta R.T. 0.000 min

Lab File: AP90619.D

Acq: 19 Jun 2025 7:22 am

Tgt Ion:105 Resp: 66008

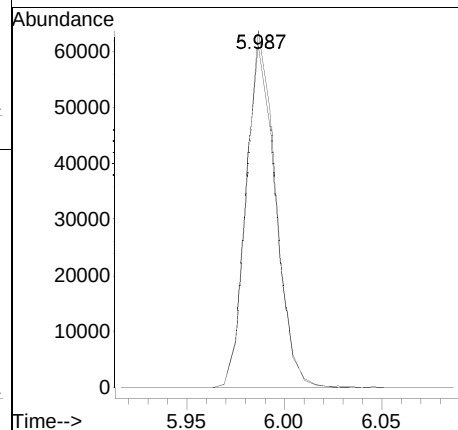
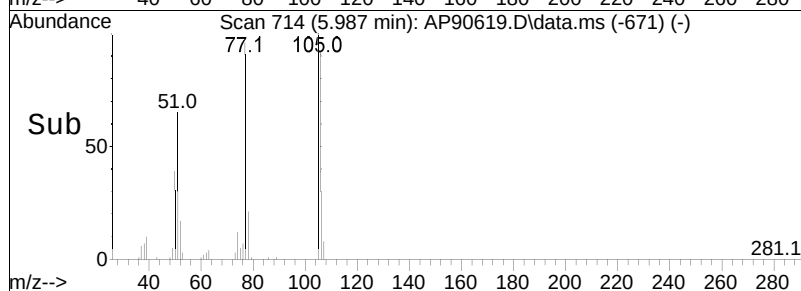
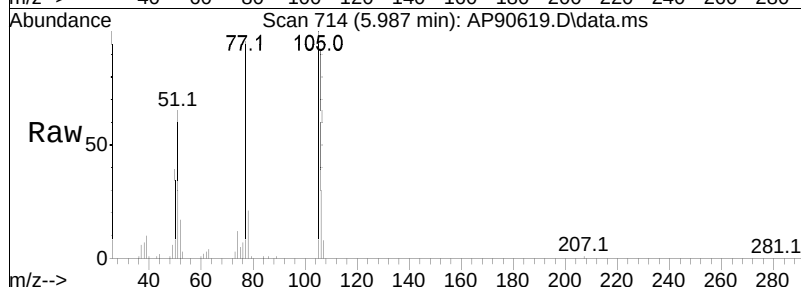
Ion Ratio Lower Upper

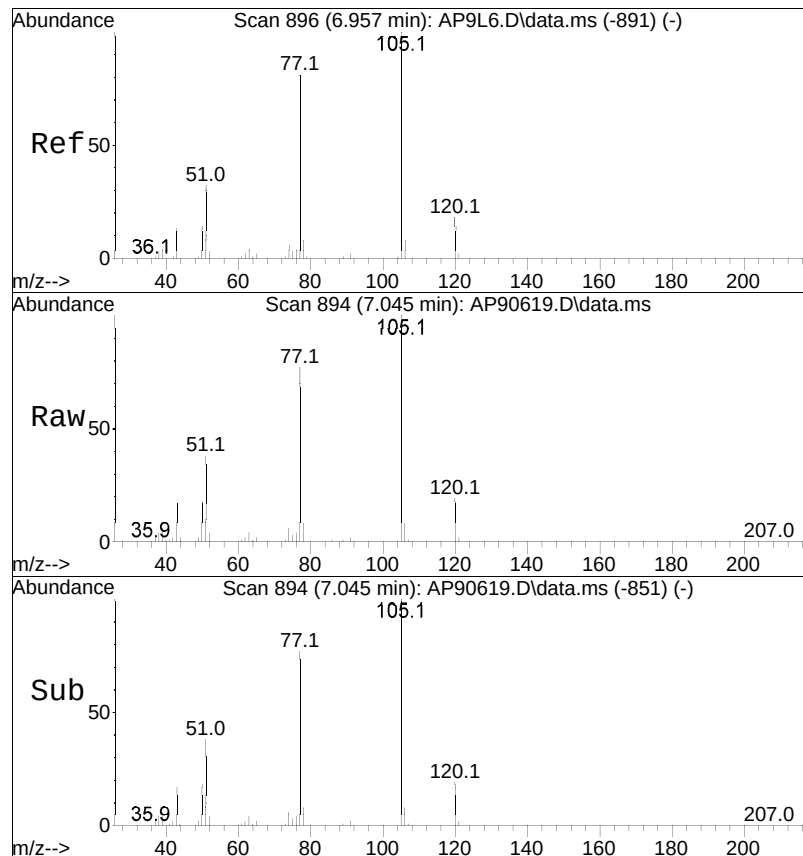
105 100

77 97.9

82.2

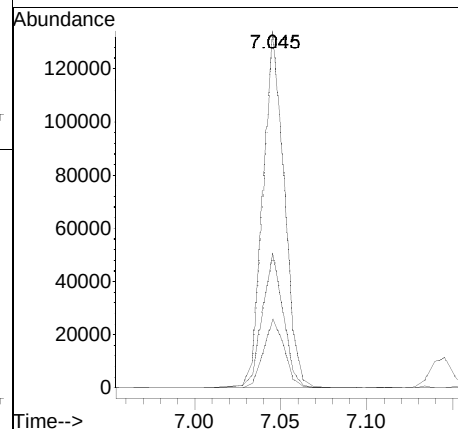
123.4

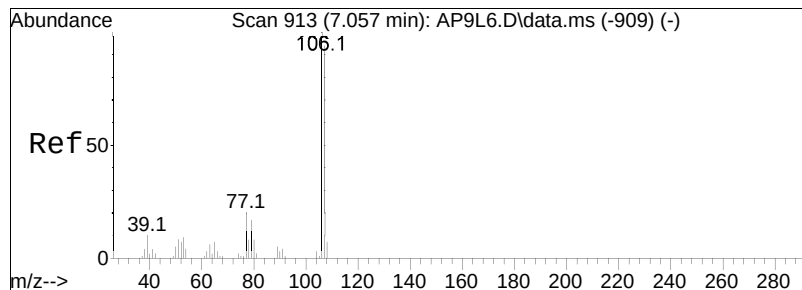




#29
 Acetophenone
 Concen: 4.62 ug/ml
 RT: 7.045 min Scan# 894
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 7:22 am

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	114874		
120	18.9		20.5	30.7#
51	38.0		34.9	52.3





#30

m-Toluidine

Concen: 4.67 ug/ml

RT: 7.145 min Scan# 911

Delta R.T. 0.000 min

Lab File: AP90619.D

Acq: 19 Jun 2025 7:22 am

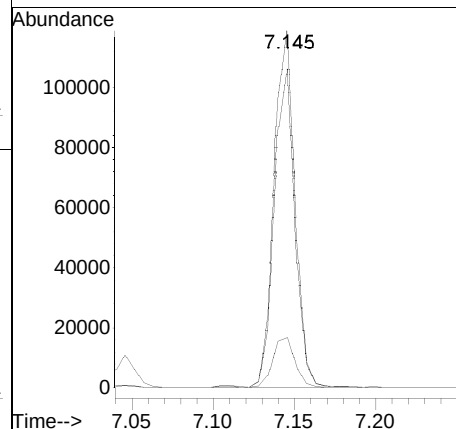
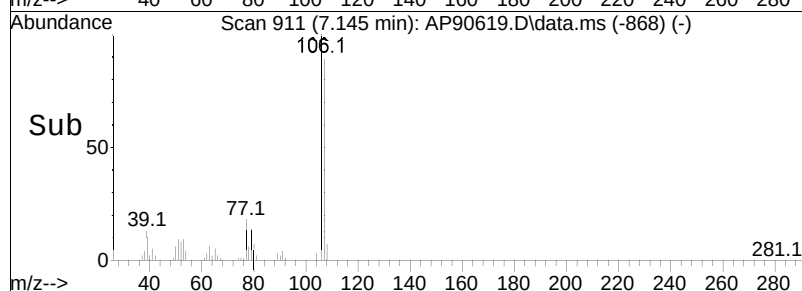
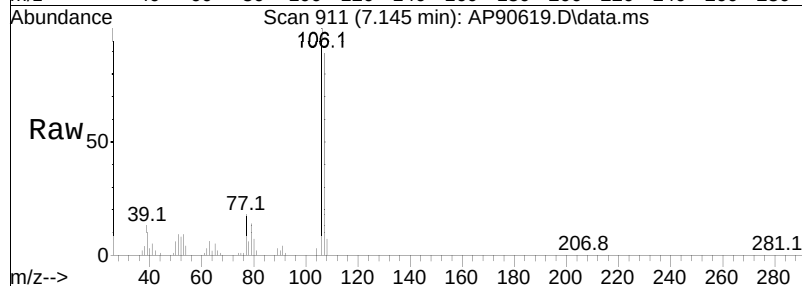
Tgt Ion:106 Resp: 106938

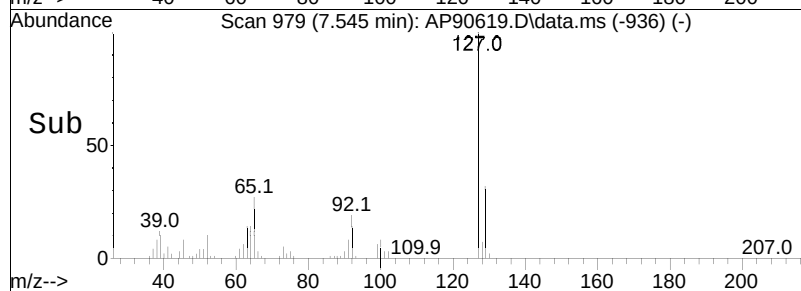
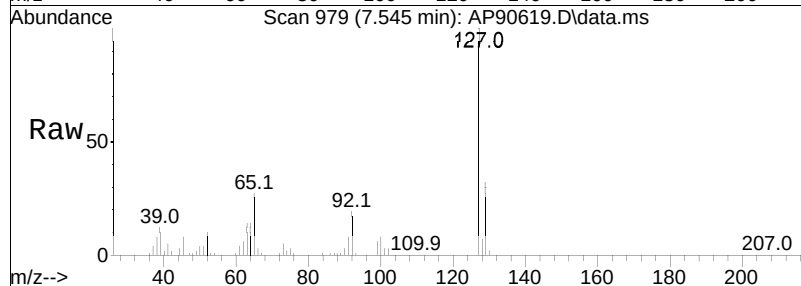
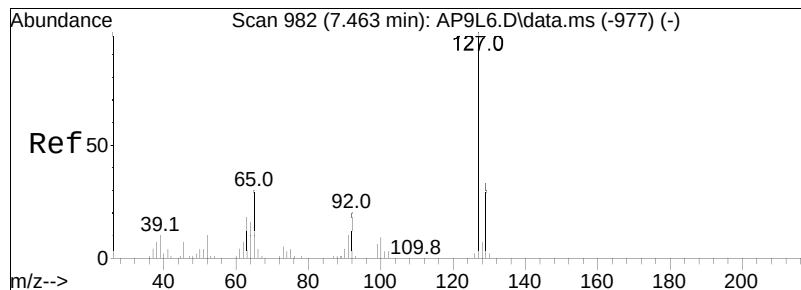
Ion Ratio Lower Upper

106 100

107 87.6 75.7 113.5

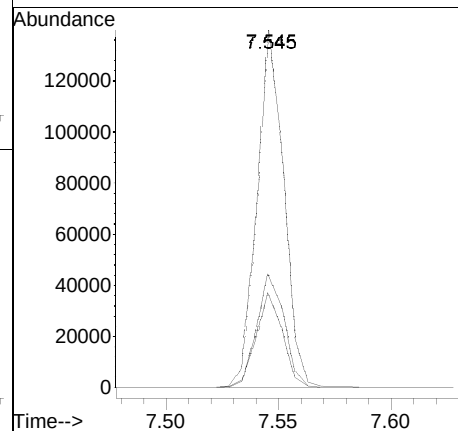
79 14.9 11.8 17.8

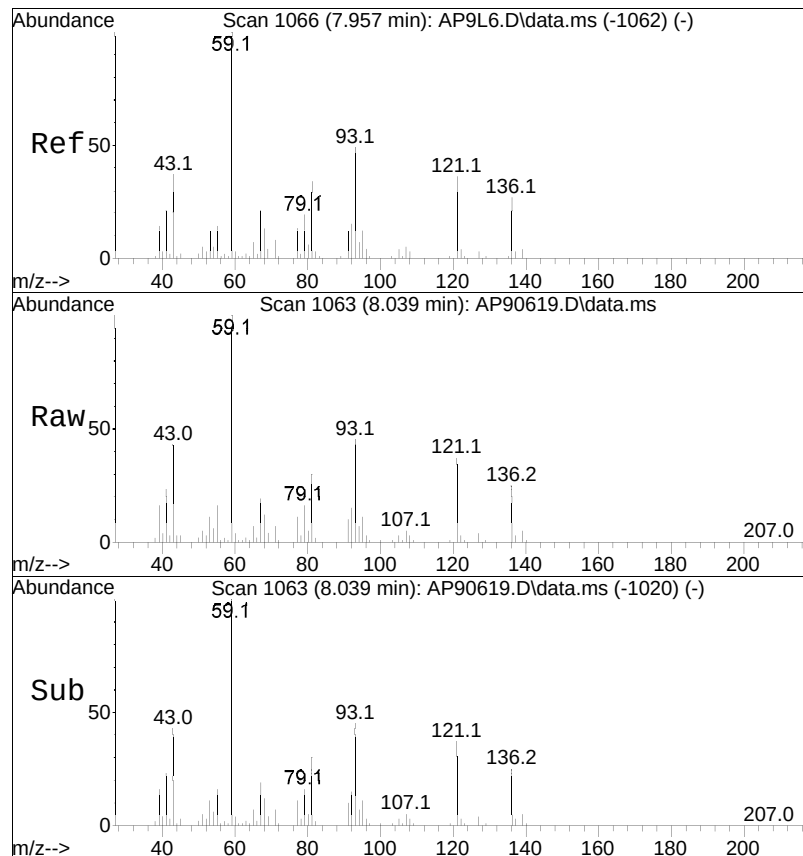




#31
 2-Chloroaniline
 Concen: 5.11 ug/ml
 RT: 7.545 min Scan# 979
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 7:22 am

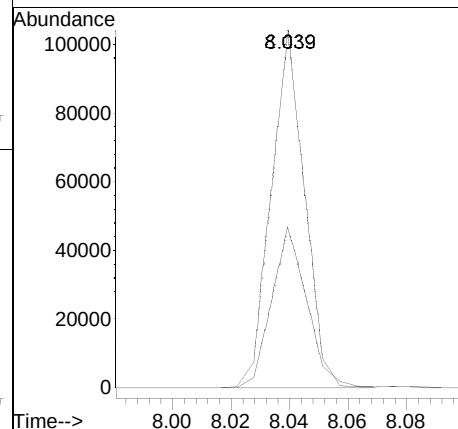
Tgt Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.9	38.9
65	26.4	26.3	39.5

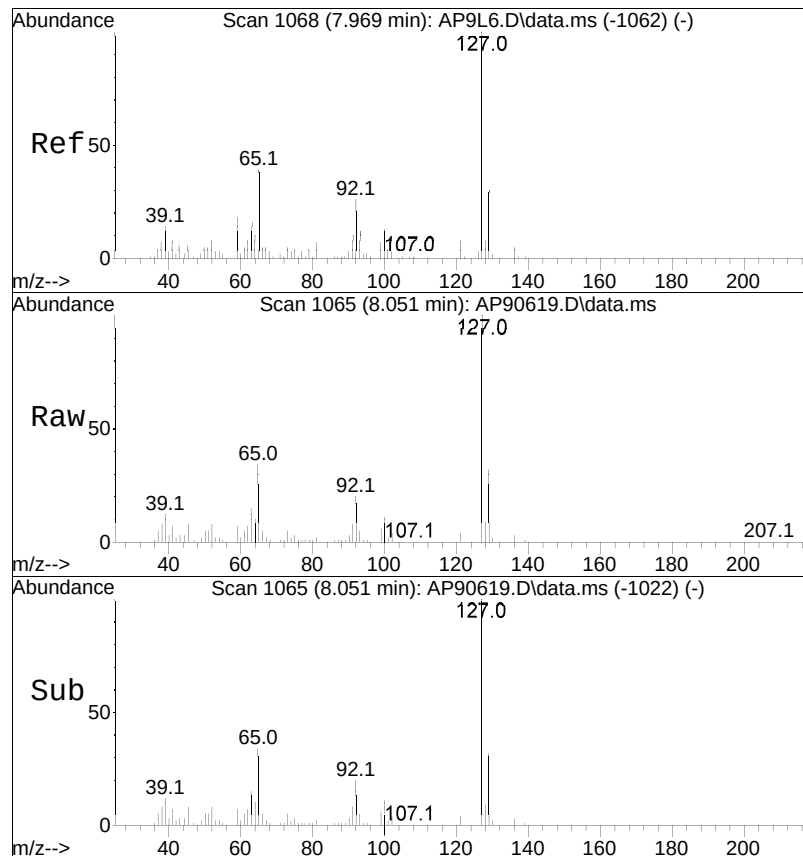




#56
a-Terpineol
Concen: 5.37 ug/ml
RT: 8.039 min Scan# 1063
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2025 7:22 am

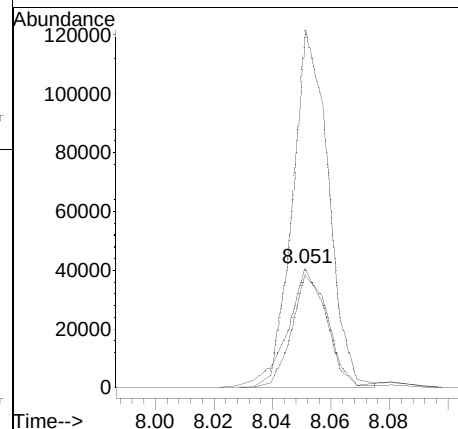
Tgt Ion	Ratio	Lower	Upper
59	100		
93	48.0	35.6	53.4

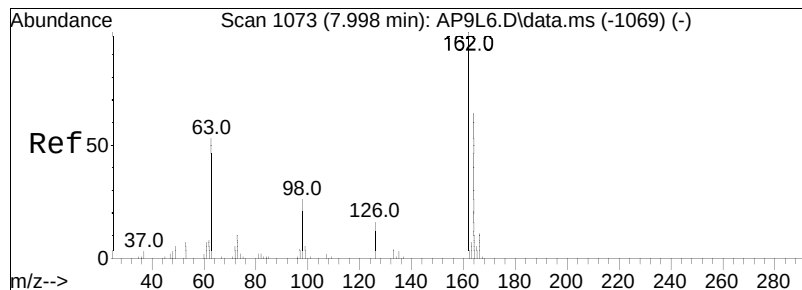




#57
 3-Chloroaniline
 Concen: 4.89 ug/ml
 RT: 8.051 min Scan# 1065
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 7:22 am

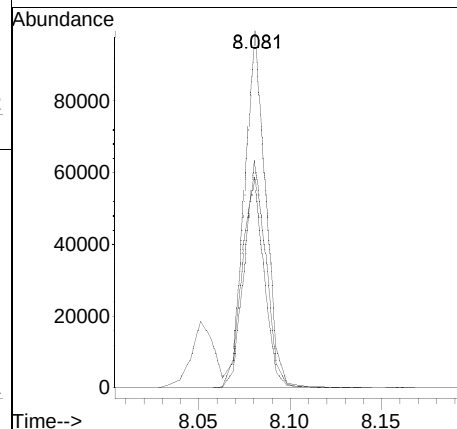
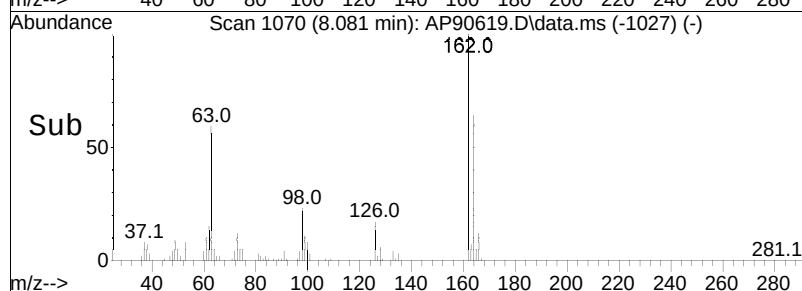
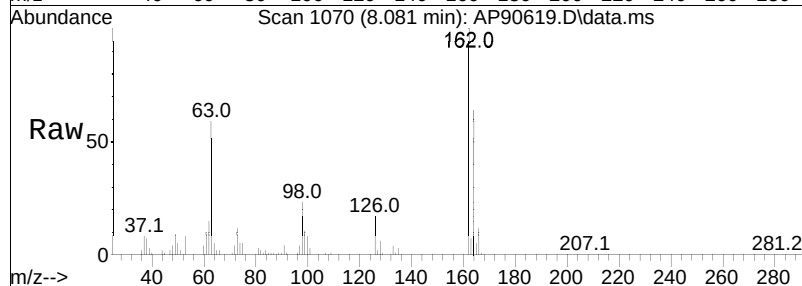
Tgt Ion:	65	Resp:	37749
Ion Ratio	Lower	Upper	
65	100		
127	274.9	243.2	364.8
129	89.3	78.8	118.2

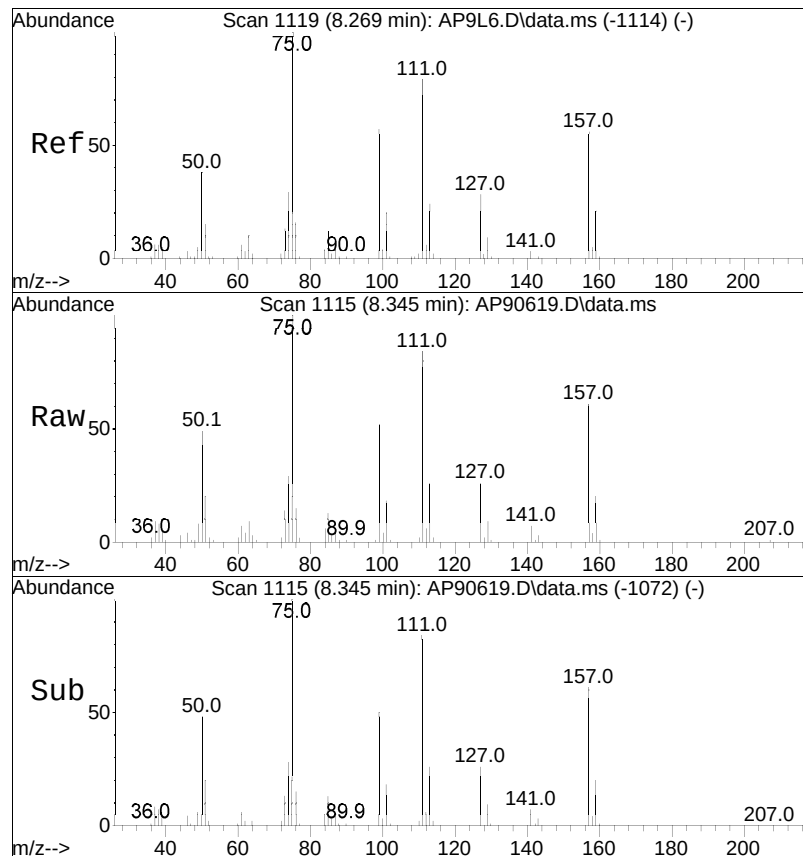




#58
 2,6-Dichlorophenol
 Concen: 5.38 ug/ml
 RT: 8.081 min Scan# 1070
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 7:22 am

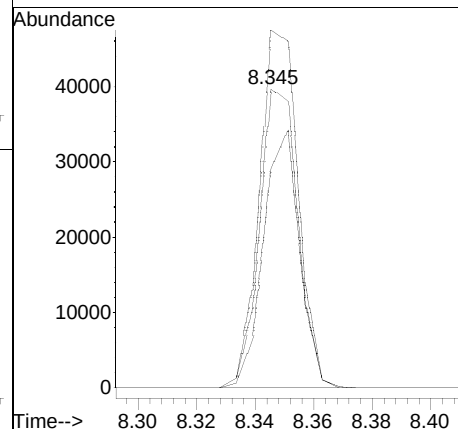
Tgt Ion	Ratio	Lower	Upper
162	100		
164	64.4	51.1	76.7
63	60.9	60.8	91.2

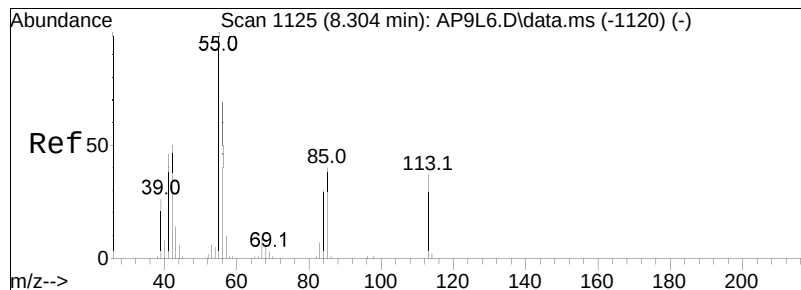




#59
 1-chloro-2-nitrobenzene
 Concen: 6.03 ug/ml
 RT: 8.345 min Scan# 1115
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 7:22 am

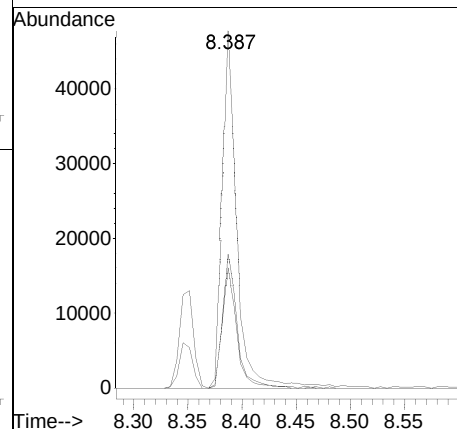
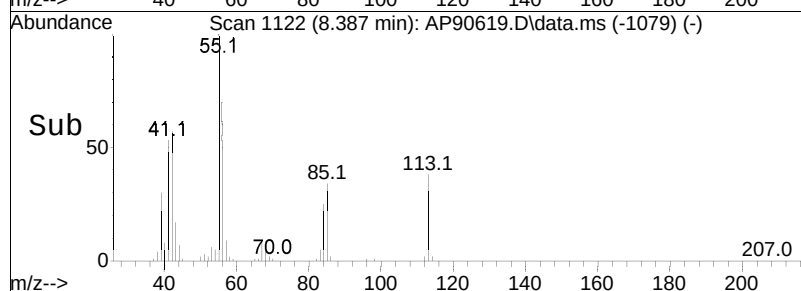
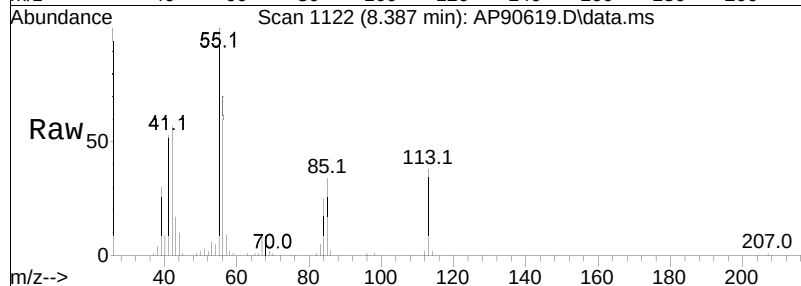
Tgt	Ion	Ratio	Resp	Lower	Upper
111	100		36049		
157	80.6	0.0	0.0#		
75	120.6	28.2	42.2#		

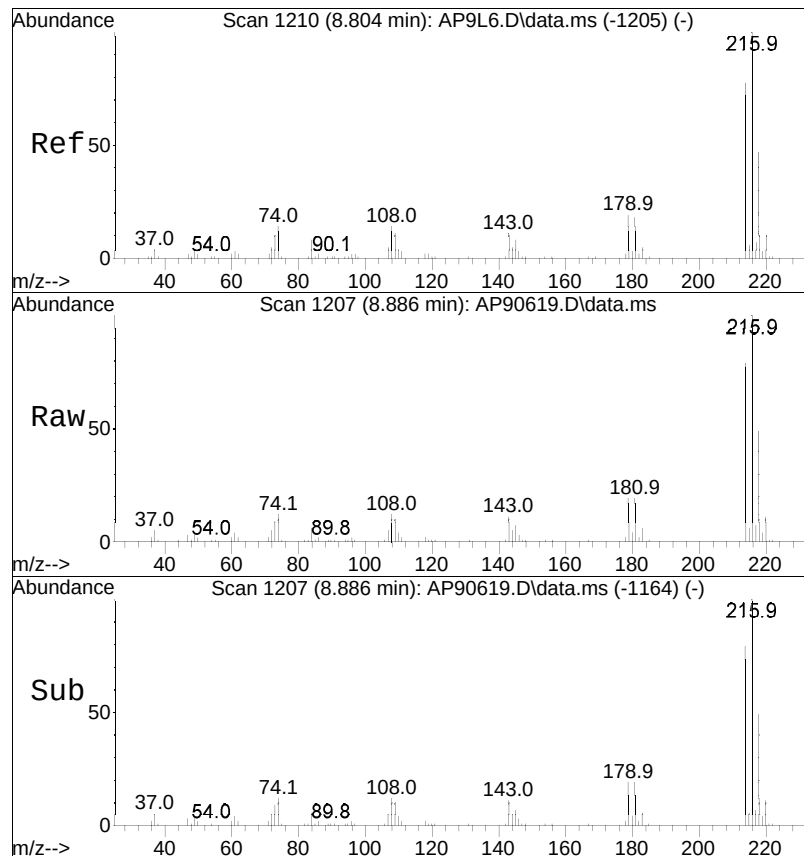




#60
 Caprolactam
 Concen: 4.94 ug/ml
 RT: 8.387 min Scan# 1122
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 7:22 am

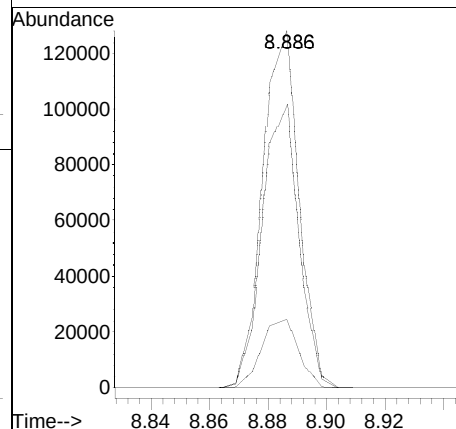
Tgt Ion	Ratio	Lower	Upper
55	100		
85	33.0	19.8	29.6#
113	37.2	29.6	44.4

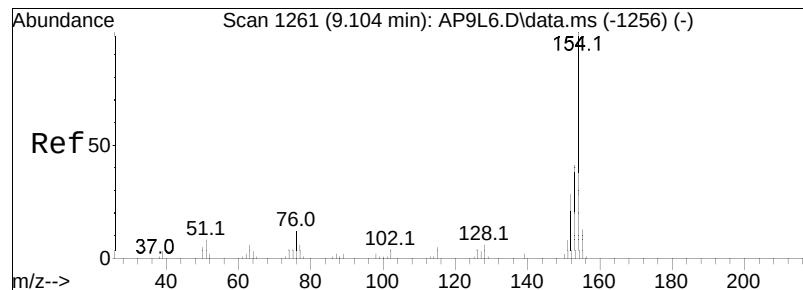




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 4.96 ug/ml
 RT: 8.886 min Scan# 1207
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 7:22 am

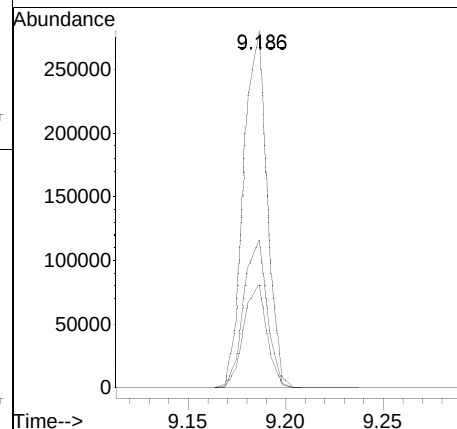
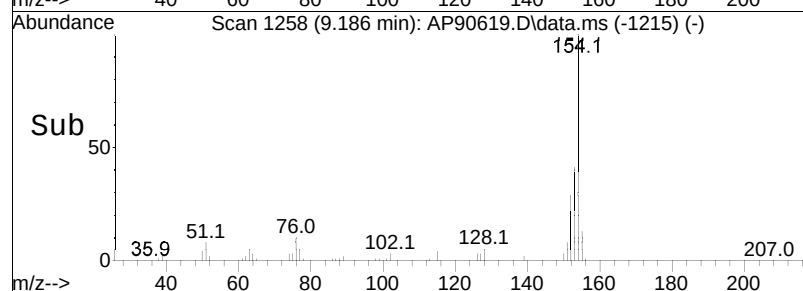
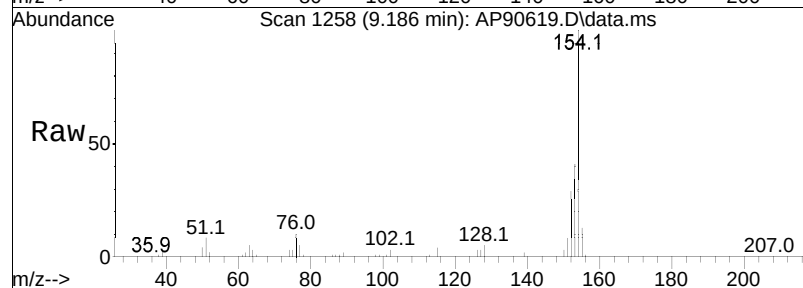
Tgt Ion:	216	Resp:	110346
Ion Ratio	Lower	Upper	
216	100		
214	79.8	63.7	95.5
179	19.9	19.0	28.6

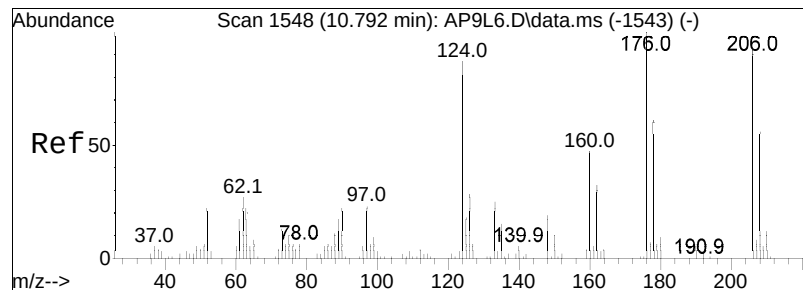




#62
 Biphenyl
 Concen: 4.79 ug/ml
 RT: 9.186 min Scan# 1258
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 7:22 am

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.3	32.3	48.5
152	28.6	22.5	33.7





#84

Dichloran

Concen: 5.99 ug/ml

RT: 10.875 min Scan# 1545

Delta R.T. 0.000 min

Lab File: AP90619.D

Acq: 19 Jun 2025 7:22 am

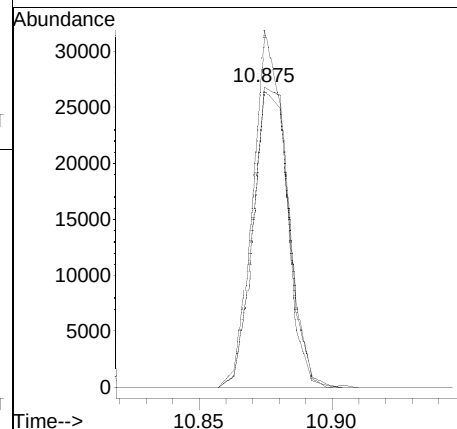
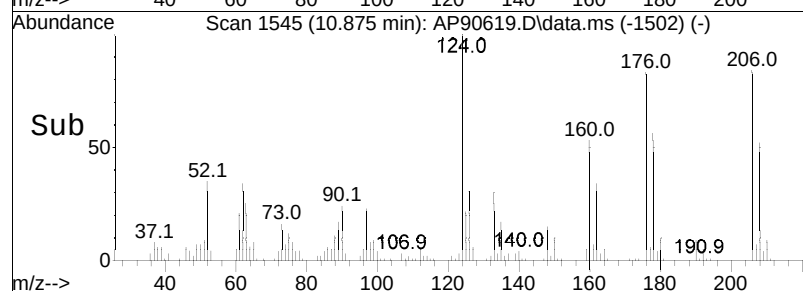
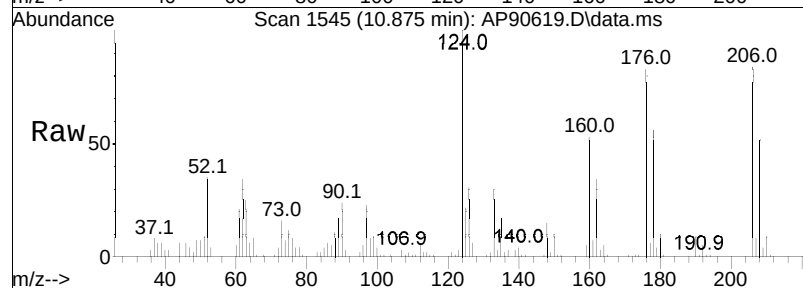
Tgt Ion: 206 Resp: 25281

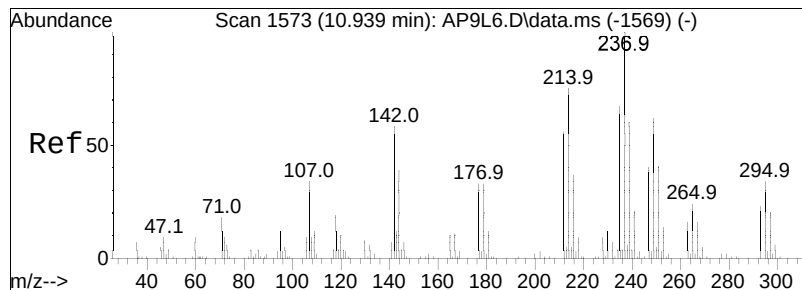
Ion Ratio Lower Upper

206 100

176 97.3 104.6 157.0#

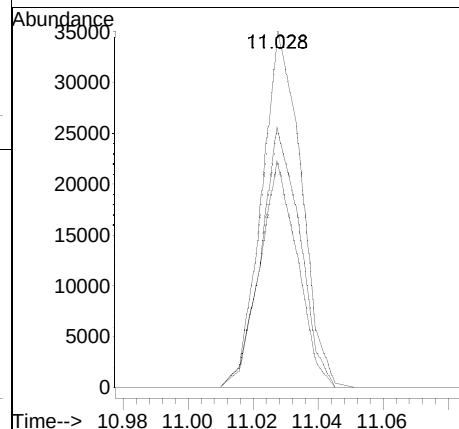
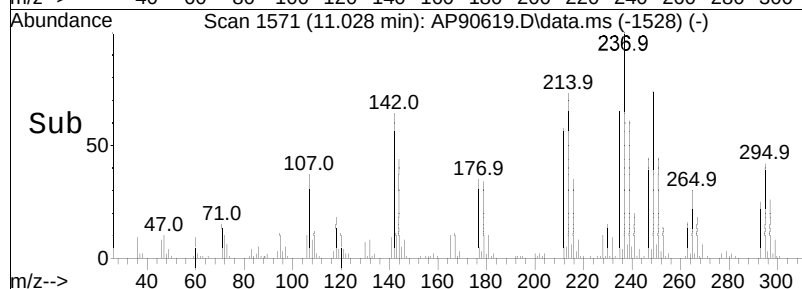
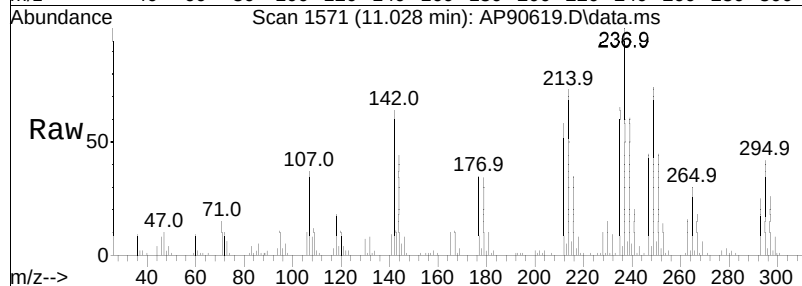
124 105.9 130.5 195.7#

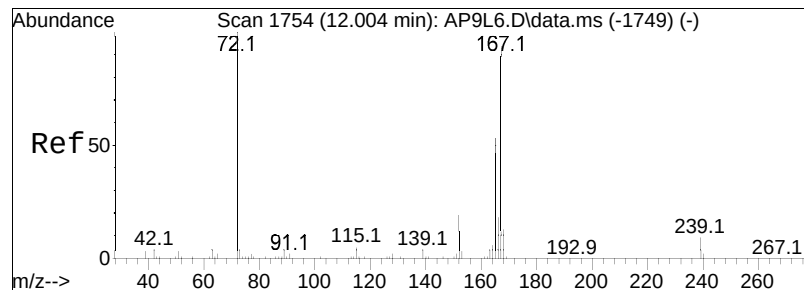




#85
 Pentachloronitrobenzene
 Concen: 5.81 ug/ml
 RT: 11.028 min Scan# 1571
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 7:22 am

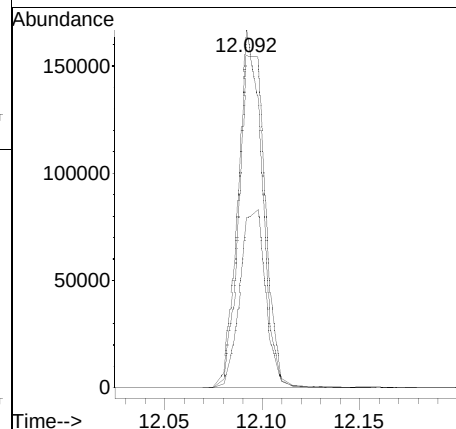
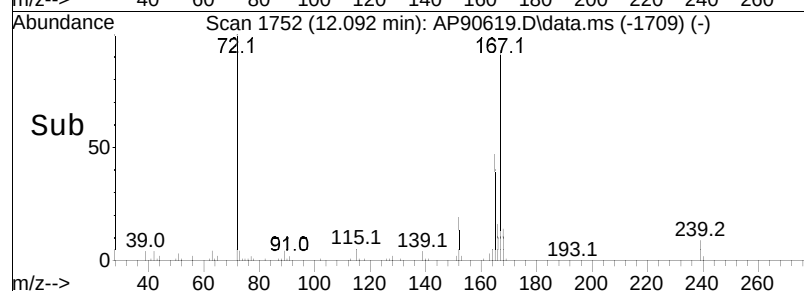
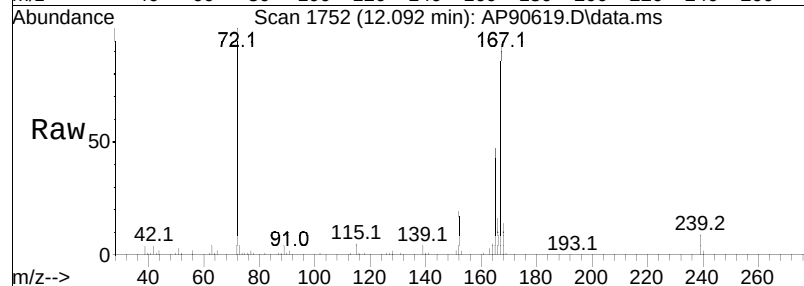
Tgt Ion	Ratio	Lower	Upper
237	100		
142	61.1	77.0	115.4#
214	71.1	58.2	87.4





#99
 Diphenamid
 Concen: 4.77 ug/ml
 RT: 12.092 min Scan# 1752
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 7:22 am

Tgt Ion	Ratio	Lower	Upper
167	100		
72	98.3	109.7	164.5#
165	52.9	41.8	62.6



Manual Integration Report

Data Path : I:\8270\SV106\250619RVT\ QMethod : FS250311SV106.m
Data File : AP90619.D Operator : SV106:smz
Date Inj'd : 6/19/2025 7:22 am Instrument : SV 106
Sample : wg2080865-4,32,,AP9 11482 Quant Date : 6/19/2025 8:16 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250619RVT\
 Data File : ADP0619.D
 Acq On : 19 Jun 2025 7:45 am
 Operator : SV106:smz
 Sample : wg2080865-5,32,,ADP 11661 dv0617A
 Misc : wg2080865,,ical22075
 ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 19 08:16:03 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:48 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	90	0.00
33 t	1,4-Dioxane	0.548	0.461	15.9	89	0.00
34 T	n-Decane	1.700	1.755	-3.2	101	0.00
86 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	90	0.00
87 T	Atrazine	0.366	0.399	-9.0	108	0.00
100 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	93	0.00
101 T	n-Octadecane	0.458	0.502	-9.6	106	0.00
102 T	Parathion	* 5.000	6.655	-33.1#	131	0.00
103 T	3,3'-Dimethylbenzidine	* 5.000	3.761	24.8#	73	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\250619RVT\
 Data File : ADP0619.D
 Acq On : 19 Jun 2025 7:45 am
 Operator : SV106:smz
 Sample : wg2080865-5,32,,ADP 11661 dv0617A
 Misc : wg2080865,,ical22075
 ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 19 08:16:03 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:48 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...	6.551	152	52647	4.000	ug/ml	0.00
86) IS3_Acenaphthene-d10	9.739	164	115193	4.000	ug/ml	0.00
100) IS3_Phenanthrene-d10	11.186	188	248688	4.000	ug/ml	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.934	88	30361	4.210	ug/ml#	56
34) n-Decane	6.445	57	115525	5.164	ug/ml#	33
87) Atrazine	10.951	200	57503	5.463	ug/ml	96
101) n-Octadecane	11.157	57	156130	5.484	ug/ml#	1
102) Parathion	11.974	109	24840	6.655	ug/ml#	93
103) 3,3'-Dimethylbenzidine	13.274	212	145718	3.761	ug/ml	99

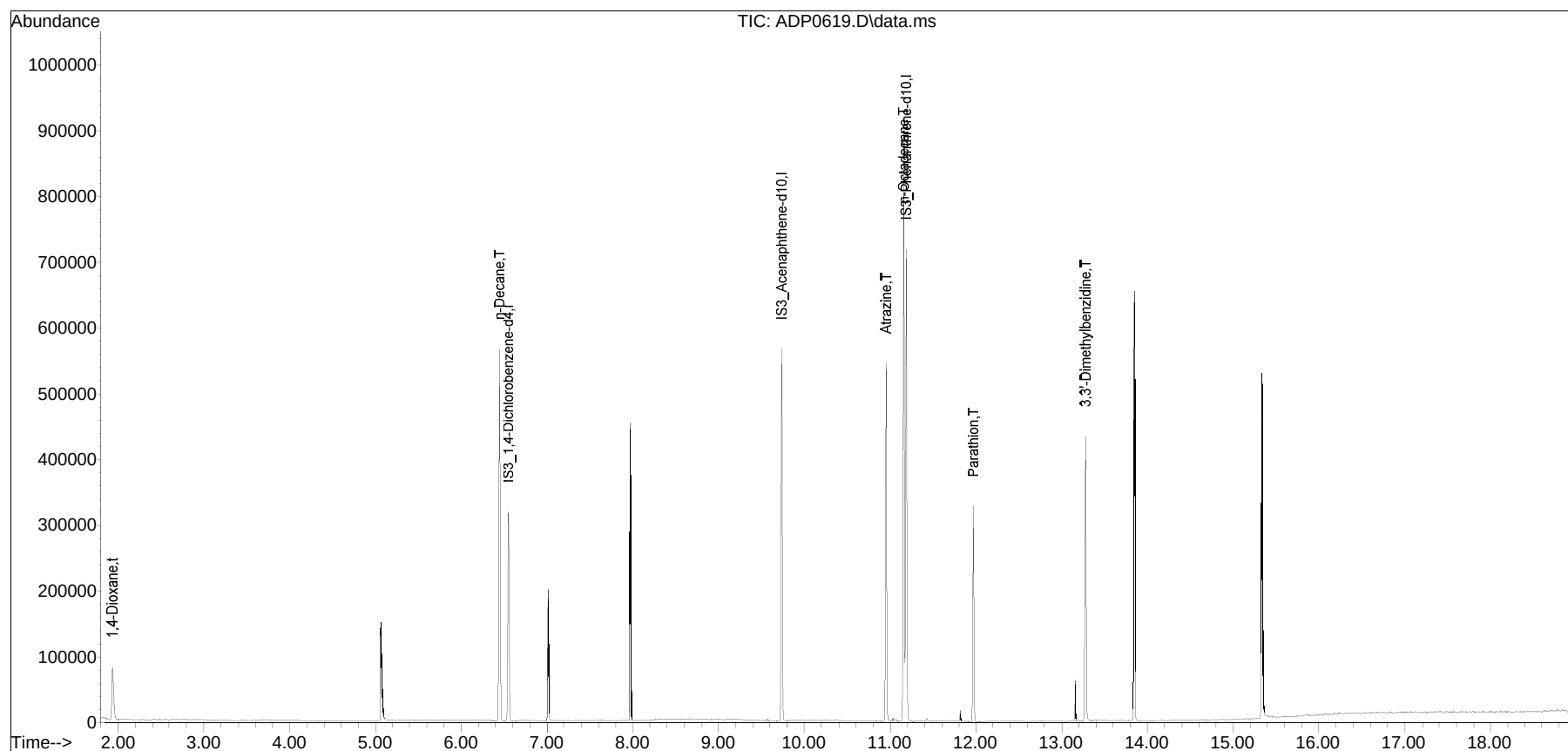
(#) = qualifier out of range (m) = manual integration (+) = signals summed

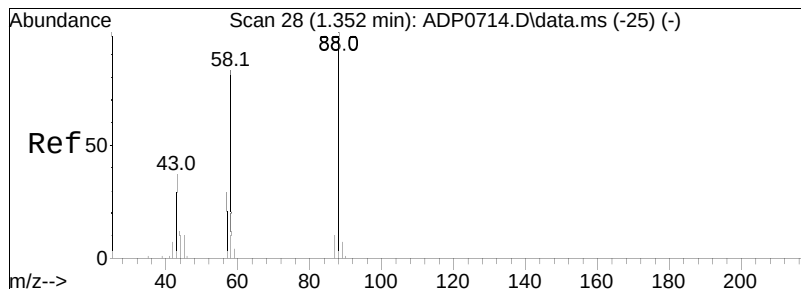
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : ADP0619.D
 Acq On : 19 Jun 2025 7:45 am
 Operator : SV106:smz
 Sample : wg2080865-5,32,,ADP 11661 dv0617A
 Misc : wg2080865,,ical22075
 ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 19 08:16:03 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:48 2025
 Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist





#33

1,4-Dioxane

Concen: 4.21 ug/ml

RT: 1.934 min Scan# 25

Delta R.T. 0.000 min

Lab File: ADP0619.D

Acq: 19 Jun 2025 7:45 am

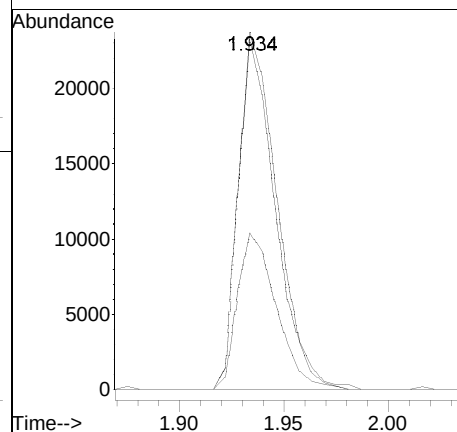
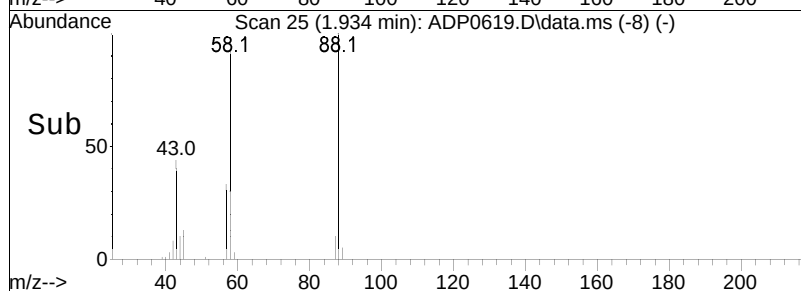
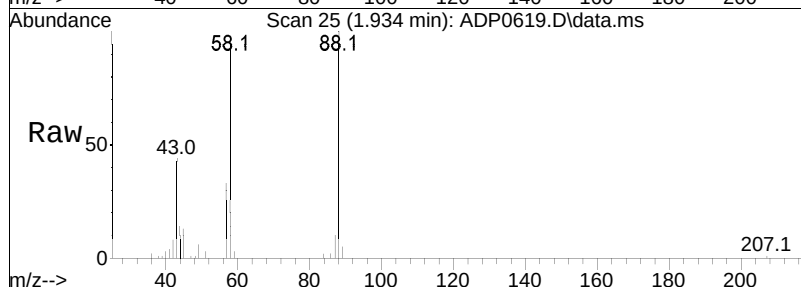
Tgt Ion: 88 Resp: 30361

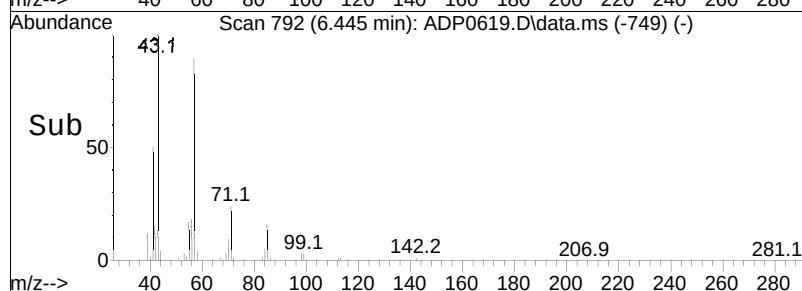
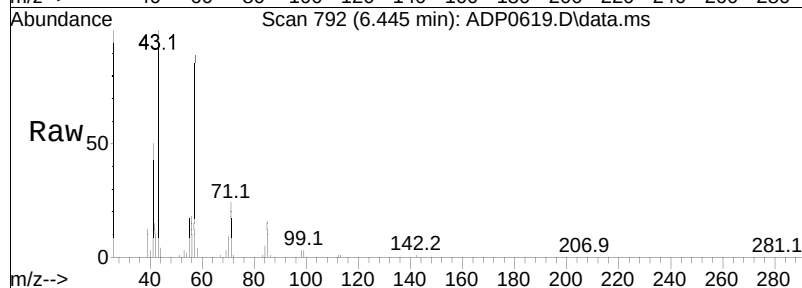
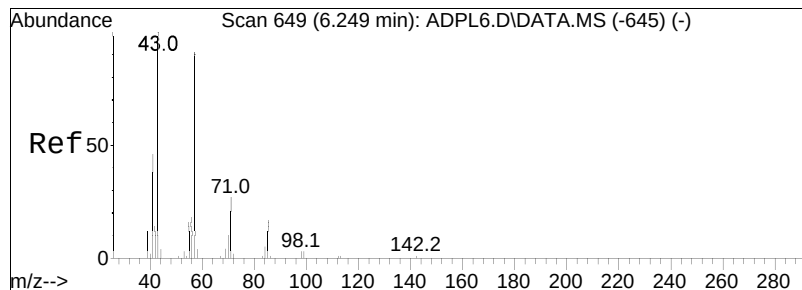
Ion Ratio Lower Upper

88 100

58 93.3 44.8 67.2#

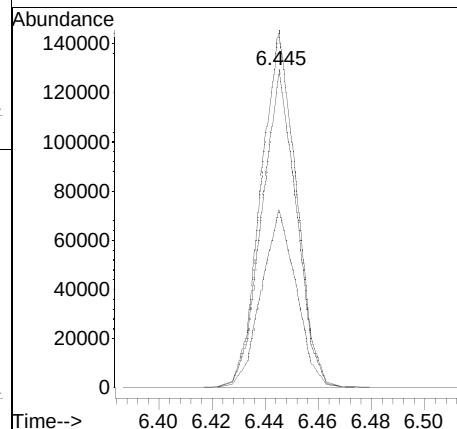
43 44.2 22.4 33.6#

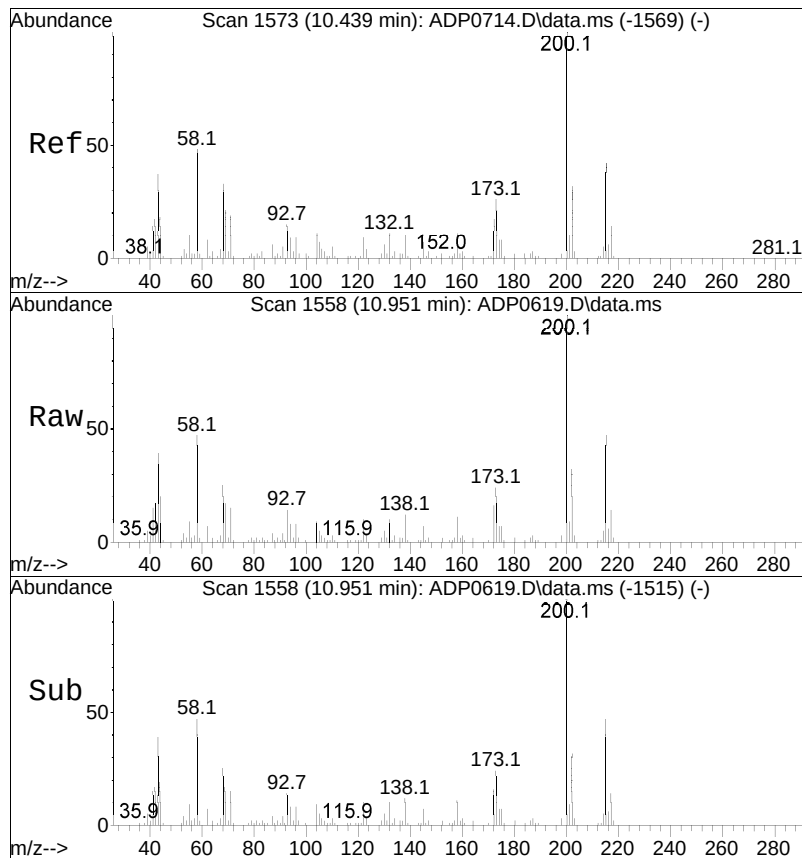




#34
n-Decane
Concen: 5.16 ug/ml
RT: 6.445 min Scan# 792
Delta R.T. 0.000 min
Lab File: ADP0619.D
Acq: 19 Jun 2025 7:45 am

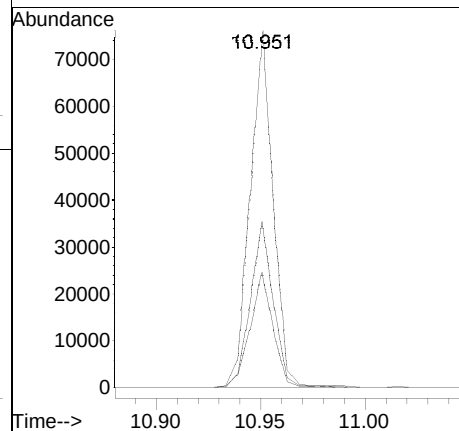
Tgt Ion	Ratio	Lower	Upper
57	100		
43	114.8	0.2	0.2#
41	56.5	0.2	0.2#

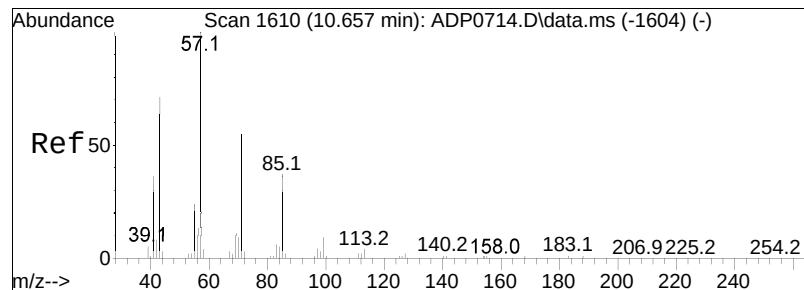




#87
 Atrazine
 Concen: 5.46 ug/ml
 RT: 10.951 min Scan# 1558
 Delta R.T. 0.000 min
 Lab File: ADP0619.D
 Acq: 19 Jun 2025 7:45 am

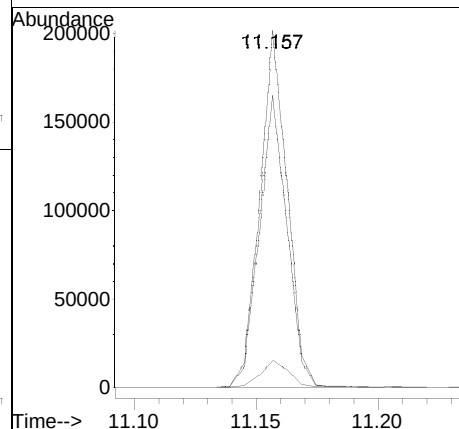
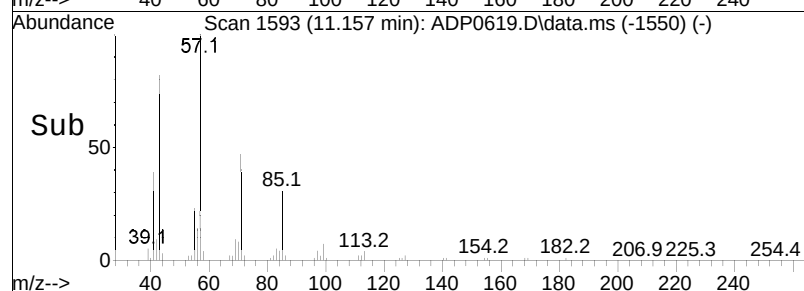
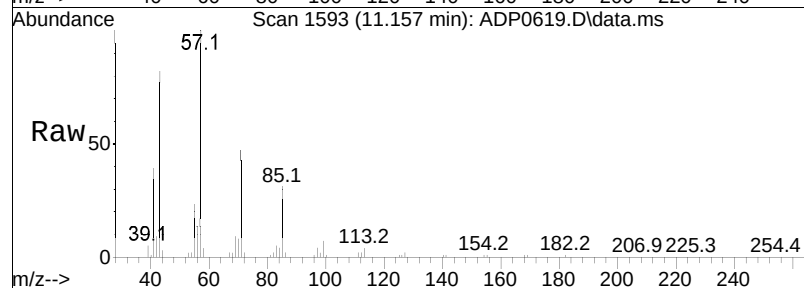
Tgt	Ion:200	Resp:	57503
Ion	Ratio	Lower	Upper
200	100		
202	32.6	25.8	38.6
215	46.4	40.2	60.4

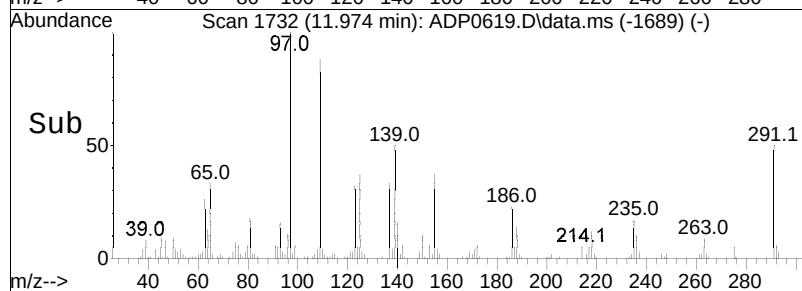
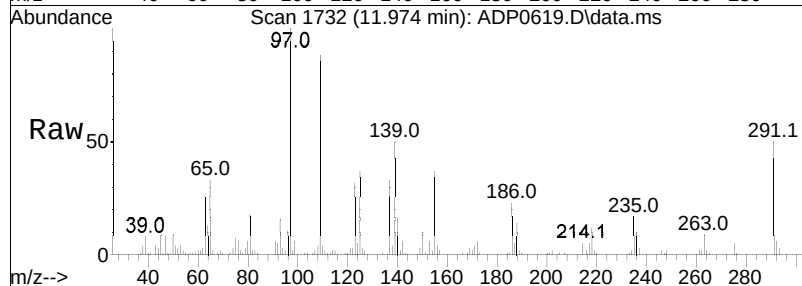
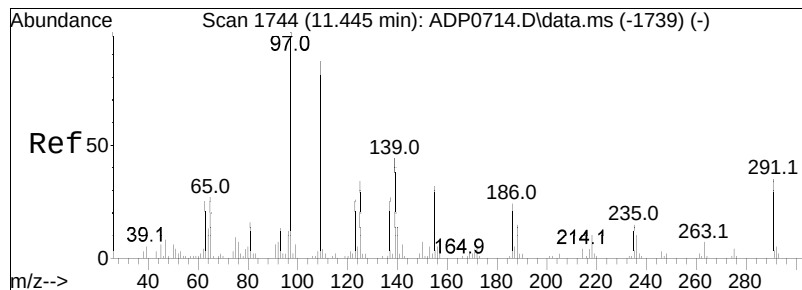




#101
 n-Octadecane
 Concen: 5.48 ug/ml
 RT: 11.157 min Scan# 1593
 Delta R.T. 0.000 min
 Lab File: ADP0619.D
 Acq: 19 Jun 2025 7:45 am

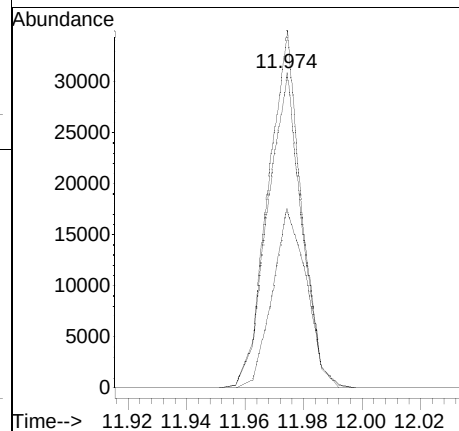
Tgt Ion	Ratio	Lower	Upper
57	100		
43	82.6	9.0	13.6#
70	8.2	0.2	0.2#

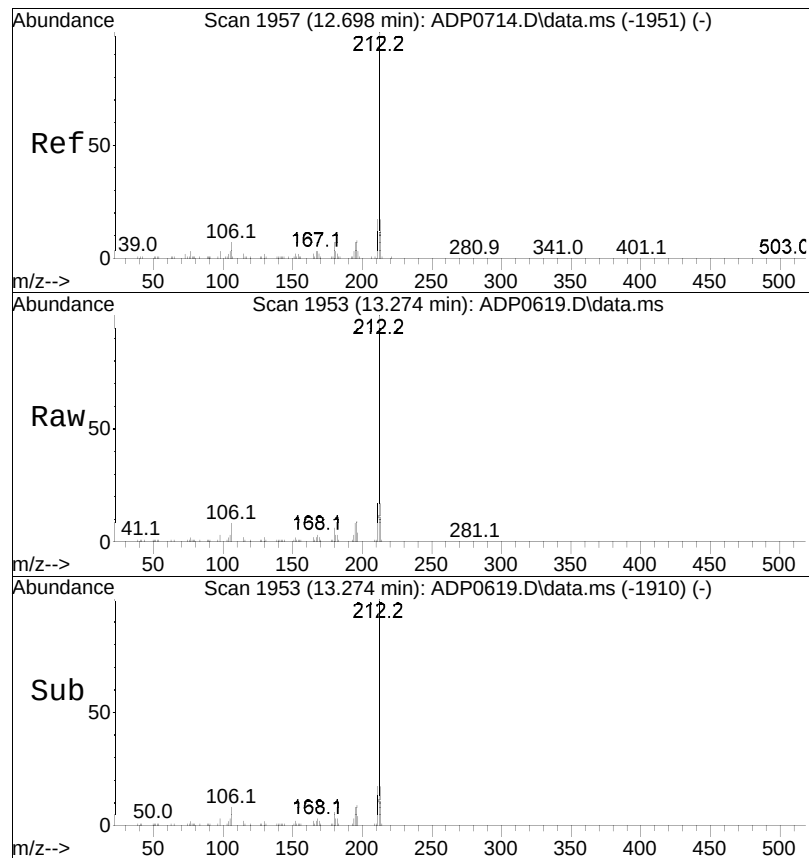




#102
 Parathion
 Concen: 6.65 ug/ml
 RT: 11.974 min Scan# 1732
 Delta R.T. 0.000 min
 Lab File: ADP0619.D
 Acq: 19 Jun 2025 7:45 am

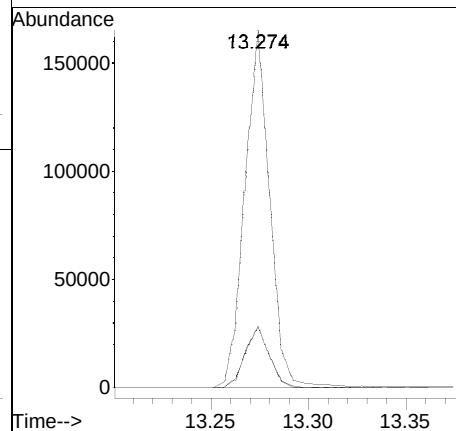
Tgt Ion	Ratio	Lower	Upper
109	100		
97	110.4	87.4	131.2
291	56.8	34.2	51.2#





#103
 3,3'-Dimethylbenzidine
 Concen: 3.76 ug/ml
 RT: 13.274 min Scan# 1953
 Delta R.T. 0.000 min
 Lab File: ADP0619.D
 Acq: 19 Jun 2025 7:45 am

Tgt Ion	Ratio	Resp	Lower	Upper
212	100	145718		
211	17.0		12.9	19.3
213	16.6		13.2	19.8



Manual Integration Report

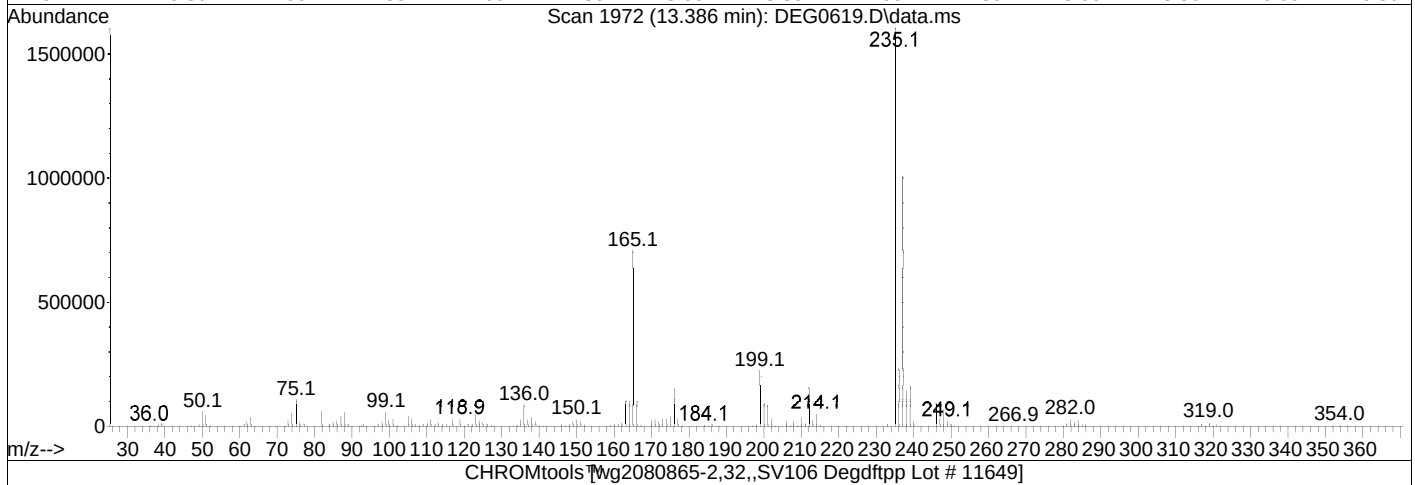
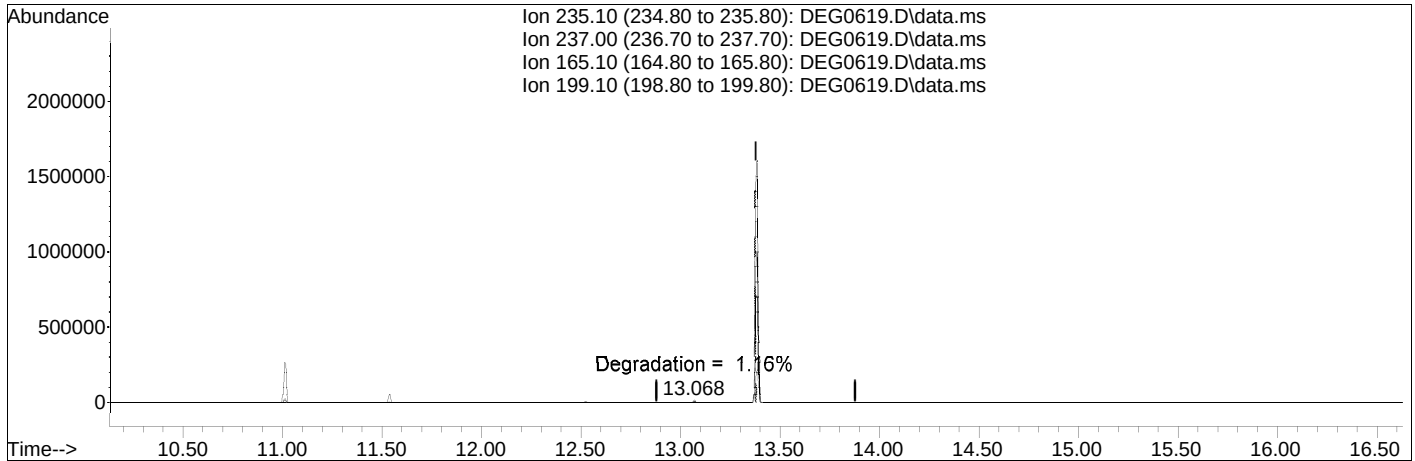
Data Path : I:\8270\SV106\250619RVT\ QMethod : FS250311SV106.m
Data File : ADP0619.D Operator : SV106:smz
Date Inj'd : 6/19/2025 7:45 am Instrument : SV 106
Sample : wg2080865-5,32,,ADP 11661 Quant Date : 6/19/2025 8:16 am

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

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250619RVT\
Data File : DEG0619.D
Acq On : 19 Jun 2025 6:35 am
Operator : SV106:smz
Sample : wg2080865-2,32,,SV106 Degdftpp Lot # 11649
Misc : wg2080865,,ical22075
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 19 07:01:33 2025
Quant Method : I:\8270\SV106\250619RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 15 18:58:13 2025
Response via : Initial Calibration



CHROMtools [wg2080865-2,32,,SV106 Degdftpp Lot # 11649]

(6) DDT (T)

13.386min (+ 0.006) 245.81

response 1498409

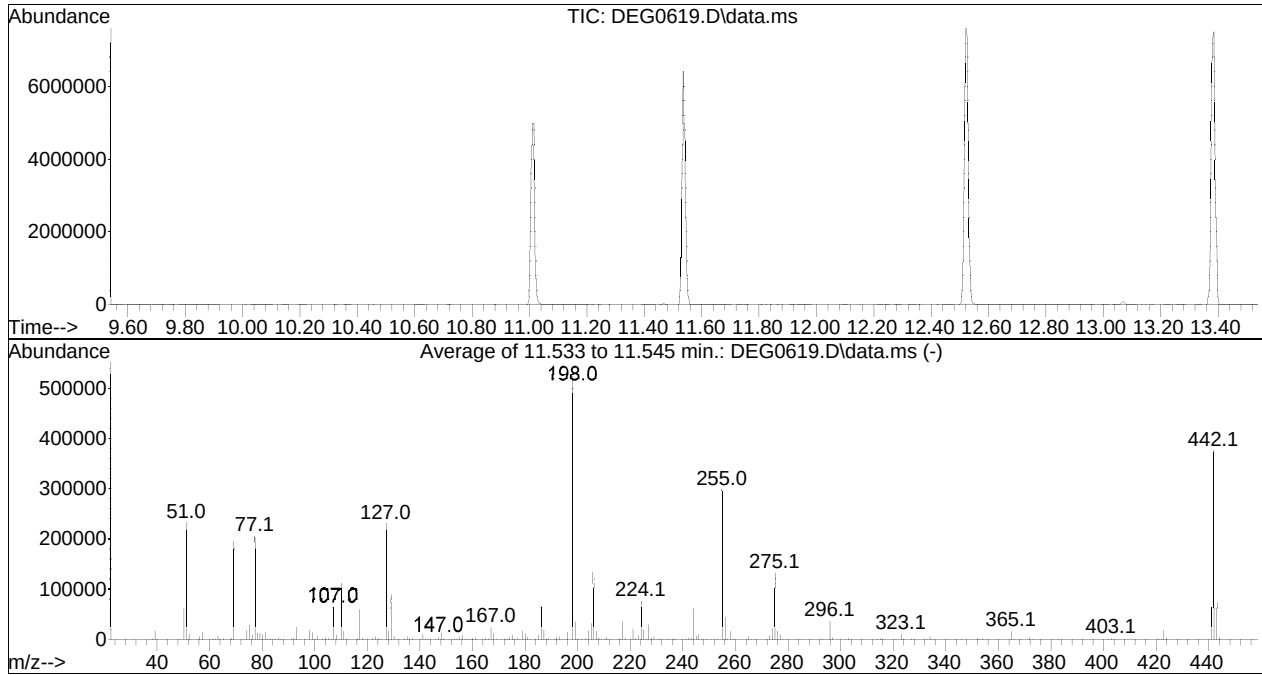
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	62.44
165.10	44.50	46.88
199.10	14.80	14.39

DFTPP

Data Path : I:\8270\SV106\250619RVT\
 Data File : DEG0619.D
 Acq On : 19 Jun 2025 6:35 am
 Operator : SV106:smz
 Sample : wg2080865-1,32,,SV106 Degdftpp Lot # 11649
 Misc : wg2080865,,ical22075
 ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Jun 19 11:08:26 2025



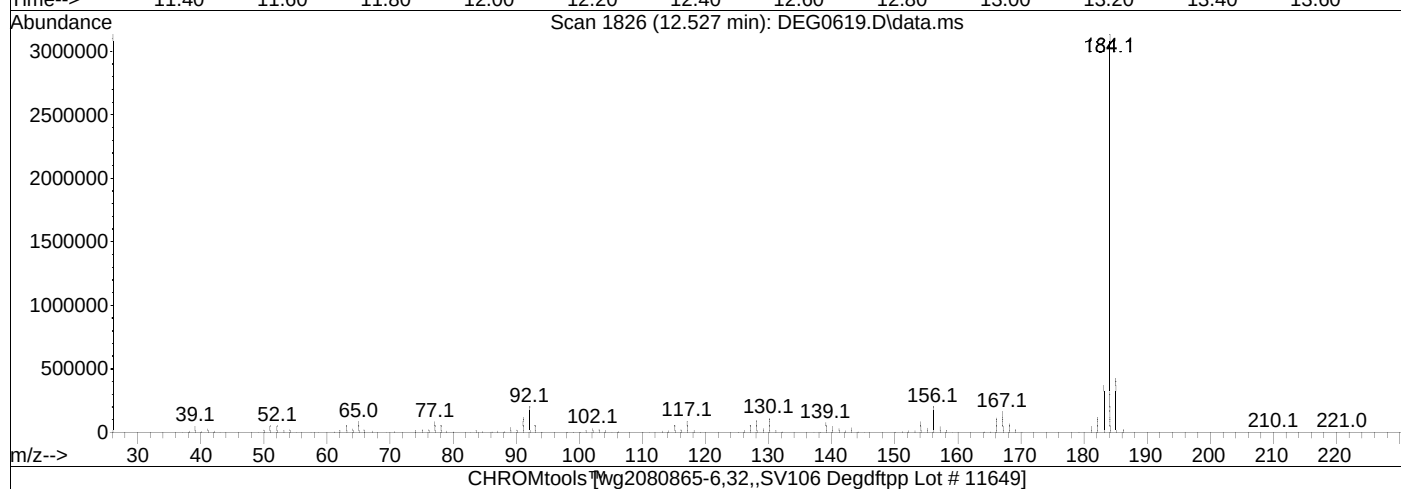
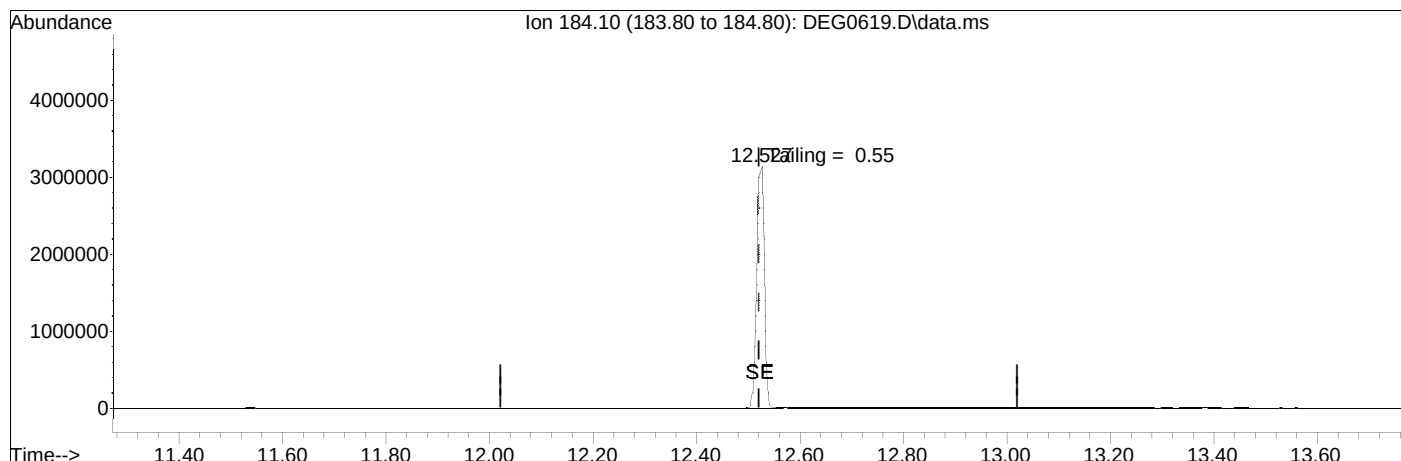
Spectrum Information: Average of 11.533 to 11.545 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.3	232627	PASS
68	69	0.00	2	1.8	3539	PASS
69	69	100	100	100.0	195504	PASS
70	69	0.00	2	0.5	971	PASS
127	198	10	80	43.8	230229	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	525141	PASS
199	198	5	9	6.6	34899	PASS
275	198	10	60	25.0	131544	PASS
365	198	1	100	3.1	16336	PASS
441	442	0.01	24	17.0	63629	PASS
442	198	50	100	71.4	375147	PASS
443	442	15	24	19.3	72235	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250619RVT\
 Data File : DEG0619.D
 Acq On : 19 Jun 2025 6:35 am
 Operator : SV106:smz
 Sample : wg2080865-6,32,,SV106 Degdftpp Lot # 11649
 Misc : wg2080865,,ical22075
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 19 07:01:33 2025
 Quant Method : I:\8270\SV106\250619RVT\DftppSV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sun Jun 15 18:58:13 2025
 Response via : Initial Calibration



CHROMtools [wg2080865-6,32,,SV106 Degdftpp Lot # 11649]

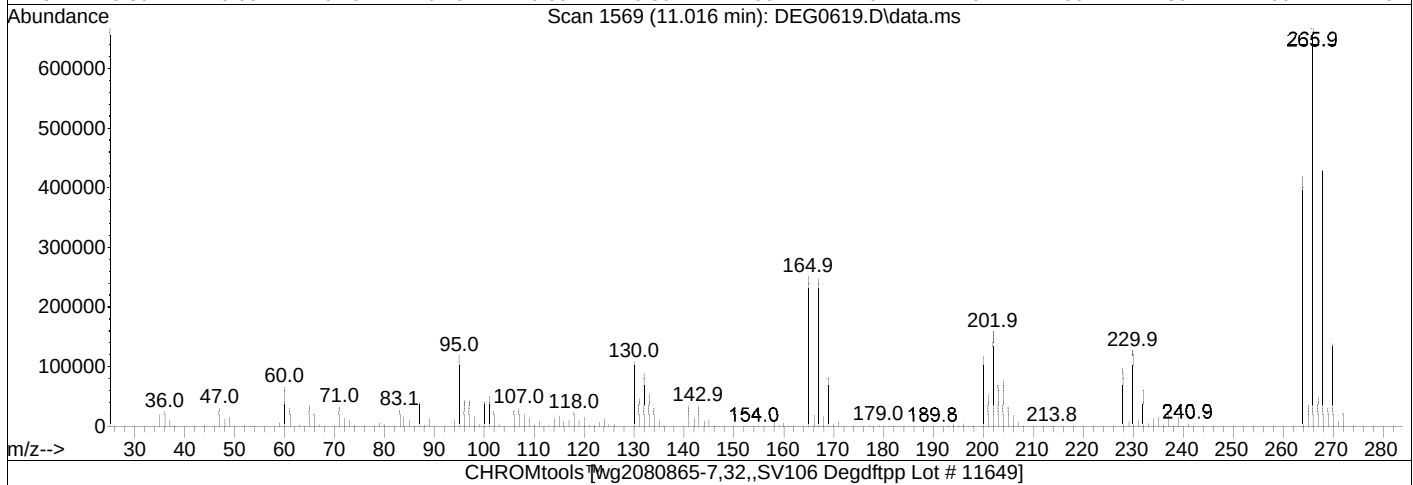
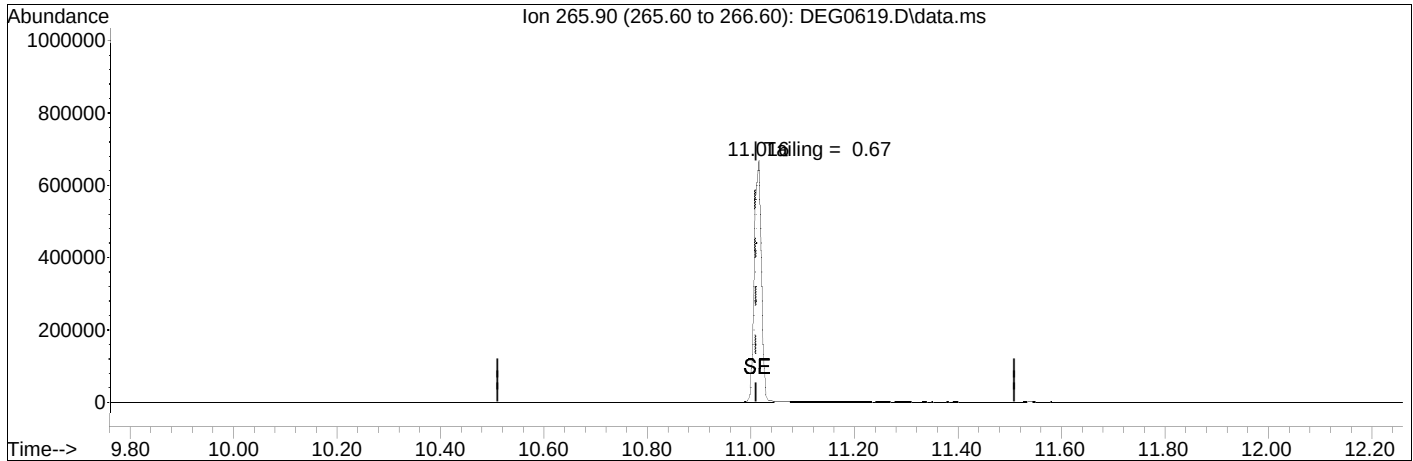
(3) Benzidine (T)
 12.527min (+ 0.006) 295.88
 response 3012096

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\250619RVT\
Data File : DEG0619.D
Acq On : 19 Jun 2025 6:35 am
Operator : SV106:smz
Sample : wg2080865-7,32,,SV106 Degdftpp Lot # 11649
Misc : wg2080865,,ical22075
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 19 07:01:33 2025
Quant Method : I:\8270\SV106\250619RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 15 18:58:13 2025
Response via : Initial Calibration



(1) Pentachlorophenol (T)

11.016min (+ 0.006) 275.19

response 578007

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
 Project Name : CORAM MATERIALS
 Instrument ID : SV106
 Lab File ID : ABN0619
 Sample No : WG2080865-3
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 06:58
 Init. Calib. Date(s) : 03/11/25 03/12/25
 Init. Calib. Times : 16:50 06:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	112	0
n-Nitrosodimethylamine	0.718	0.859	-	-19.6	20	137	0
Pyridine	1.251	1.004	-	19.7	20	98	0
2-Fluorophenol	1.128	1.182	-	-4.8	20	120	0
Aniline	1.738	1.62	-	6.8	20	100	0
2-Chlorophenol	1.218	1.205	-	1.1	20	113	0
Phenol-d6	1.323	1.241	-	6.2	20	107	0
Phenol	1.459	1.396	-	4.3	20	110	0
Bis(2-chloroethyl)ether	1.159	1.099	-	5.2	20	109	0
1,3-Dichlorobenzene	1.54	1.429	-	7.2	20	109	0
1,4-Dichlorobenzene	1.574	1.468	-	6.7	20	107	0
1,2-Dichlorobenzene	1.49	1.416	-	5	20	112	0
Benzyl alcohol	0.91	0.903	-	0.8	20	112	0
Bis(2-chloroisopropyl)ethe	2.704	2.369	-	12.4	20	102	0
2-Methylphenol	1.283	1.006	-	21.6*	20	92	0
Hexachloroethane	0.546	0.509	-	6.8	20	106	0
n-Nitrosodi-n-propylamine	0.855	0.796	-	6.9	20	106	0
3-Methylphenol/4-Methylphe	1.11	1.07	-	3.6	20	108	0
Nitrobenzene-d5	1.096	1.2	-	-9.5	20	122	0
Nitrobenzene	1.118	1.206	-	-7.9	20	119	0
Isophorone	2.296	2.069	-	9.9	20	102	0
2-Nitrophenol	0.509	0.604	-	-18.7	20	132	0
2,4-Dimethylphenol	1.198	1.147	-	4.3	20	105	0
Bis(2-chloroethoxy)methane	1.639	1.406	-	14.2	20	108	0
2,4-Dichlorophenol	1.137	1.134	-	0.3	20	110	0
1,2,4-Trichlorobenzene	1.457	1.329	-	8.8	20	108	0
IS1_Naphthalene-d8	1	1	-	0	20	114	0
Naphthalene	1.066	0.98	-	8.1	20	109	0
Benzoic Acid	5	4.587	-	8.3	20	141	0
4-Chloroaniline	0.132	0.125	-	5.3	20	107	0
Hexachlorobutadiene	0.244	0.226	-	7.4	20	107	0
p-Chloro-m-cresol	0.325	0.262	-	19.4	20	96	0
2-Methylnaphthalene	0.638	0.607	-	4.9	20	111	0
1-Methylnaphthalene	0.245	0.221	-	9.8	20	108	0
Hexachlorocyclopentadiene	0.3	0.285	-	5	20	109	0
2,4,6-Trichlorophenol	0.251	0.244	-	2.8	20	110	0
2,4,5-Trichlorophenol	0.255	0.267	-	-4.7	20	115	0
2-Fluorobiphenyl	0.923	0.835	-	9.5	20	107	0
2-Chloronaphthalene	0.756	0.703	-	7	20	109	0
2-Nitroaniline	0.166	0.188	-	-13.3	20	123	0
1,4-Dinitrobenzene	5	14.88	-	-197.6*	20	762	0
1,3-Dinitrobenzene	0.104	0.111	-	-6.7	20	127	0
Dimethyl phthalate	0.908	0.823	-	9.4	20	104	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV106
 Lab File ID : ABN0619
 Sample No : WG2080865-3
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 06:58
 Init. Calib. Date(s) : 03/11/25 03/12/25
 Init. Calib. Times : 16:50 06:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.201	1.11	-	7.6	20	108	0
2,6-Dinitrotoluene	0.151	0.168	-	-11.3	20	108	0
1,2-Dinitrobenzene	0.063	0.078	-	-23.8*	20	127	0
IS1_Acenaphthene-d10	1	1	-	0	20	111	0
3-Nitroaniline	0.252	0.284	-	-12.7	20	119	0
Acenaphthene	1.101	0.991	-	10	20	107	0
2,4-Dinitrophenol	5	4.188	-	16.2	20	103	0
Dibenzofuran	1.914	1.664	-	13.1	20	109	0
2,4-Dinitrotoluene	5	5.346	-	-6.9	20	125	0
4-Nitrophenol	0.192	0.214	-	-11.5	20	120	0
2,3,5,6-Tetrachlorophenol	0.365	0.367	-	-0.5	20	115	0
2,3,4,6-Tetrachlorophenol	0.344	0.359	-	-4.4	20	114	0
Diethyl phthalate	1.359	1.247	-	8.2	20	103	0
Fluorene	1.41	1.312	-	7	20	108	0
4-Chlorophenyl phenyl ethe	0.738	0.679	-	8	20	110	0
4-Nitroaniline	0.246	0.288	-	-17.1	20	123	0
4,6-Dinitro-o-cresol	5	4.739	-	5.2	20	124	0
NDPA/DPA	1.176	1.086	-	7.7	20	106	0
Azobenzene	1.121	1.102	-	1.7	20	110	0
2,4,6-Tribromophenol	0.206	0.197	-	4.4	20	102	0
4-Bromophenyl phenyl ether	0.463	0.413	-	10.8	20	104	0
Hexachlorobenzene	0.543	0.466	-	14.2	20	103	0
Pentachlorophenol	0.282	0.269	-	4.6	20	107	0
IS1_Phenanthrene-d10	1	1	-	0	20	114	0
Phenanthrene	1.135	1.015	-	10.6	20	108	0
Anthracene	1.107	1.023	-	7.6	20	107	0
Carbazole	0.989	0.903	-	8.7	20	103	0
Di-n-butylphthalate	1.116	0.989	-	11.4	20	101	0
Fluoranthene	1.298	1.187	-	8.6	20	108	0
Benzidine	0.704	0.649	-	7.8	20	100	0
Pyrene	1.359	1.263	-	7.1	20	108	0
4-Terphenyl-d14	1.038	0.907	-	12.6	20	103	0
Butyl benzyl phthalate	5	4.033	-	19.3	20	104	0
IS1_Chrysene-d12	1	1	-	0	20	110	0
Benzo(a)anthracene	1.278	1.166	-	8.8	20	105	0
3,3'-Dichlorobenzidine	0.429	0.393	-	8.4	20	95	0
Chrysene	1.267	1.132	-	10.7	20	105	0
Bis(2-ethylhexyl)phthalate	5	4.203	-	15.9	20	102	0
Di-n-octylphthalate	5	3.774	-	24.5*	20	95	0
Benzo(b)fluoranthene	1.314	1.079	-	17.9	20	89	0
Benzo(k)fluoranthene	1.222	1.097	-	10.2	20	102	0
Benzo(a)pyrene	1.157	0.966	-	16.5	20	90	0
IS1_Perylene-d12	1	1	-	0	20	101	0

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : SV106
Lab File ID : ABN0619
Sample No : WG2080865-3
Channel :

Lab Number : L2537655
Project Number : 2232.0006Y005
Calibration Date : 06/19/25 06:58
Init. Calib. Date(s) : 03/11/25 03/12/25
Init. Calib. Times : 16:50 06:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.068	0.896	-	16.1	20	80	0
Dibenzo(a,h)anthracene	1.063	0.873	-	17.9	20	81	0
Benzo(ghi)perylene	1.047	0.853	-	18.5	20	81	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV106
 Lab File ID : AP90619
 Sample No : WG2080865-4
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 07:22
 Init. Calib. Date(s) : 03/11/25 03/12/25
 Init. Calib. Times : 16:50 06:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
Benzaldehyde	0.954	0.873	-	8.5	20	99	0
Acetophenone	1.646	1.52	-	7.7	20	98	0
m-Toluidine	1.514	1.415	-	6.5	20	97	0
2-Chloroaniline	1.481	1.515	-	-2.3	20	110	0
IS2_Naphthalene-d8	1	1	-	0	20	104	0
a-Terpineol	0.275	0.295	-	-7.3	20	113	0
3-Chloroaniline	0.139	0.136	-	2.2	20	101	0
2,6-Dichlorophenol	0.27	0.291	-	-7.8	20	115	0
1-chloro-2-nitrobenzene	0.108	0.13	-	-20.4*	20	130	0
Caprolactam	0.165	0.163	-	1.2	20	115	0
1,2,4,5-Tetrachlorobenzene	0.401	0.399	-	0.5	20	109	0
Biphenyl	0.885	0.848	-	4.2	20	105	0
IS2_Acenaphthene-d10	1	1	-	0	20	108	0
Dichloran	5	5.991	-	-19.8	20	144	0
Pentachloronitrobenzene	0.144	0.167	-	-16	20	137	0
IS2_Phenanthrene-d10	1	1	-	0	20	111	0
Diphenamid	0.413	0.393	-	4.8	20	102	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV106
 Lab File ID : ADP0619
 Sample No : WG2080865-5
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 07:45
 Init. Calib. Date(s) : 03/11/25 03/12/25
 Init. Calib. Times : 16:50 06:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	90	0
1,4-Dioxane	0.548	0.461	-	15.9	20	89	0
n-Decane	1.7	1.755	-	-3.2	20	101	0
IS3_Acenaphthene-d10	1	1	-	0	20	90	0
Atrazine	0.366	0.399	-	-9	20	108	0
IS3_Phenanthrene-d10	1	1	-	0	20	93	0
n-Octadecane	0.458	0.502	-	-9.6	20	106	0
Parathion	5	6.655	-	-33.1*	20	131	0
3,3'-Dimethylbenzidine	5	3.761	-	24.8*	20	73	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Lab File ID : ABN0619
 Sample No : WG2080969-3
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 10:48
 Init. Calib. Date(s) : 04/16/25 04/17/25
 Init. Calib. Times : 17:27 04:21

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
n-Nitrosodimethylamine	0.686	0.6	-	12.5	20	93	0
Pyridine	1.201	0.785	-	34.6*	20	71	0
2-Fluorophenol	1.027	0.846	-	17.6	20	86	0
Aniline	1.681	1.534	-	8.7	20	89	0
2-Chlorophenol	1.137	1.032	-	9.2	20	95	0
Phenol-d6	1.267	1.197	-	5.5	20	96	0
Phenol	1.542	1.455	-	5.6	20	97	0
Bis(2-chloroethyl)ether	0.996	0.903	-	9.3	20	97	0
1,3-Dichlorobenzene	1.509	1.399	-	7.3	20	101	0
1,4-Dichlorobenzene	1.555	1.389	-	10.7	20	98	0
1,2-Dichlorobenzene	1.445	1.335	-	7.6	20	100	0
Benzyl alcohol	1.005	0.897	-	10.7	20	95	0
Bis(2-chloroisopropyl)ethe	2.14	1.84	-	14	20	92	0
2-Methylphenol	1.014	0.954	-	5.9	20	97	0
Hexachloroethane	0.534	0.508	-	4.9	20	99	0
n-Nitrosodi-n-propylamine	0.907	0.808	-	10.9	20	92	0
3-Methylphenol/4-Methylphe	1.086	1.033	-	4.9	20	98	0
Nitrobenzene-d5	1.358	1.264	-	6.9	20	96	0
Nitrobenzene	1.329	1.238	-	6.8	20	97	0
Isophorone	2.441	2.122	-	13.1	20	92	0
2-Nitrophenol	0.587	0.576	-	1.9	20	96	0
2,4-Dimethylphenol	1.169	1.107	-	5.3	20	99	0
Bis(2-chloroethoxy)methane	1.438	1.279	-	11.1	20	95	0
2,4-Dichlorophenol	1.213	1.223	-	-0.8	20	105	0
1,2,4-Trichlorobenzene	1.517	1.49	-	1.8	20	103	0
IS1_Naphthalene-d8	1	1	-	0	20	103	0
Naphthalene	1.025	0.892	-	13	20	96	0
Benzoic Acid	5	4.605	-	7.9	20	100	0
4-Chloroaniline	0.14	0.128	-	8.6	20	98	0
Hexachlorobutadiene	0.253	0.272	-	-7.5	20	115	0
p-Chloro-m-cresol	0.285	0.283	-	0.7	20	104	0
2-Methylnaphthalene	0.666	0.629	-	5.6	20	98	0
1-Methylnaphthalene	0.226	0.222	-	1.8	20	103	0
Hexachlorocyclopentadiene	0.341	0.328	-	3.8	20	103	0
2,4,6-Trichlorophenol	0.295	0.312	-	-5.8	20	109	0
2,4,5-Trichlorophenol	0.328	0.353	-	-7.6	20	114	0
2-Fluorobiphenyl	1.042	0.977	-	6.2	20	104	0
2-Chloronaphthalene	0.839	0.81	-	3.5	20	104	0
2-Nitroaniline	0.214	0.211	-	1.4	20	102	0
1,4-Dinitrobenzene	0.11	0.113	-	-2.7	20	105	0
1,3-Dinitrobenzene	0.135	0.134	-	0.7	20	100	0
Dimethyl phthalate	1.012	0.975	-	3.7	20	103	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Lab File ID : ABN0619
 Sample No : WG2080969-3
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 10:48
 Init. Calib. Date(s) : 04/16/25 04/17/25
 Init. Calib. Times : 17:27 04:21

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.327	1.254	-	5.5	20	98	0
2,6-Dinitrotoluene	0.202	0.211	-	-4.5	20	103	0
1,2-Dinitrobenzene	0.084	0.085	-	-1.2	20	107	0
IS1_Acenaphthene-d10	1	1	-	0	20	110	0
3-Nitroaniline	0.272	0.268	-	1.5	20	102	0
Acenaphthene	1.046	0.921	-	12	20	102	0
2,4-Dinitrophenol	5	4.432	-	11.4	20	103	0
Dibenzofuran	1.874	1.651	-	11.9	20	104	0
2,4-Dinitrotoluene	0.4	0.385	-	3.8	20	103	0
4-Nitrophenol	0.247	0.253	-	-2.4	20	111	0
2,3,5,6-Tetrachlorophenol	0.404	0.445	-	-10.1	20	121	0
2,3,4,6-Tetrachlorophenol	0.397	0.426	-	-7.3	20	119	0
Diethyl phthalate	1.403	1.18	-	15.9	20	98	0
Fluorene	1.46	1.286	-	11.9	20	103	0
4-Chlorophenyl phenyl ethe	0.756	0.698	-	7.7	20	114	0
4-Nitroaniline	0.286	0.27	-	5.6	20	96	0
4,6-Dinitro-o-cresol	0.248	0.254	-	-2.4	20	109	0
NDPA/DPA	1.275	1.15	-	9.8	20	104	0
Azobenzene	1.299	1.098	-	15.5	20	97	0
2,4,6-Tribromophenol	0.235	0.246	-	-4.7	20	113	0
4-Bromophenyl phenyl ether	0.478	0.439	-	8.2	20	107	0
Hexachlorobenzene	0.558	0.532	-	4.7	20	117	0
Pentachlorophenol	0.331	0.388	-	-17.2	20	133	0
IS1_Phenanthrene-d10	1	1	-	0	20	119	0
Phenanthrene	1.15	0.977	-	15	20	106	0
Anthracene	1.127	0.971	-	13.8	20	105	0
Carbazole	1.06	0.915	-	13.7	20	104	0
Di-n-butylphthalate	1.1	0.89	-	19.1	20	97	0
Fluoranthene	1.355	1.242	-	8.3	20	111	0
Benzidine	0.817	0.77	-	5.8	20	111	0
Pyrene	1.466	1.325	-	9.6	20	110	0
4-Terphenyl-d14	1.069	0.952	-	10.9	20	110	0
Butyl benzyl phthalate	0.478	0.415	-	13.2	20	100	0
IS1_Chrysene-d12	1	1	-	0	20	128	0
Benzo(a)anthracene	1.313	1.134	-	13.6	20	113	0
3,3'-Dichlorobenzidine	0.464	0.419	-	9.7	20	113	0
Chrysene	1.293	1.097	-	15.2	20	117	0
Bis(2-ethylhexyl)phthalate	0.661	0.533	-	19.4	20	97	0
Di-n-octylphthalate	1.074	0.923	-	14.1	20	102	0
Benzo(b)fluoranthene	1.332	1.212	-	9	20	116	0
Benzo(k)fluoranthene	1.355	1.232	-	9.1	20	117	0
Benzo(a)pyrene	1.271	1.147	-	9.8	20	115	0
IS1_Perylene-d12	1	1	-	0	20	126	0

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : DAKOTA
Lab File ID : ABN0619
Sample No : WG2080969-3
Channel :

Lab Number : L2537655
Project Number : 2232.0006Y005
Calibration Date : 06/19/25 10:48
Init. Calib. Date(s) : 04/16/25 04/17/25
Init. Calib. Times : 17:27 04:21

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.242	1.14	-	8.2	20	114	0
Dibenzo(a,h)anthracene	1.197	1.099	-	8.2	20	119	0
Benzo(ghi)perylene	1.198	1.098	-	8.3	20	121	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Lab File ID : AP90619
 Sample No : WG2080969-4
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 11:11
 Init. Calib. Date(s) : 04/16/25 04/17/25
 Init. Calib. Times : 17:27 04:21

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
Benzaldehyde	0.839	0.769	-	8.3	20	94	0
Acetophenone	1.481	1.4	-	5.5	20	98	0
m-Toluidine	1.49	1.361	-	8.7	20	98	0
2-Chloroaniline	1.308	1.277	-	2.4	20	101	0
IS2_Naphthalene-d8	1	1	-	0	20	112	0
a-Terpineol	0.29	0.266	-	8.3	20	96	0
3-Chloroaniline	0.149	0.136	-	8.7	20	100	0
2,6-Dichlorophenol	0.329	0.355	-	-7.9	20	114	0
1-chloro-2-nitrobenzene	0.139	0.13	-	6.5	20	100	0
Caprolactam	0.169	0.158	-	6.5	20	109	0
1,2,4,5-Tetrachlorobenzene	0.444	0.465	-	-4.7	20	119	0
Biphenyl	0.95	0.917	-	3.5	20	105	0
IS2_Acenaphthene-d10	1	1	-	0	20	120	0
Dichloran	0.205	0.183	-	10.7	20	116	0
Pentachloronitrobenzene	0.184	0.187	-	-1.6	20	114	0
IS2_Phenanthrene-d10	1	1	-	0	20	132	0
Diphenamid	0.466	0.411	-	11.8	20	108	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Lab File ID : ADP0619
 Sample No : WG2080969-5
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 11:33
 Init. Calib. Date(s) : 04/16/25 04/17/25
 Init. Calib. Times : 17:27 04:21

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	0.431	0.413	-	4.2	20	92	0
n-Decane	1.345	1.328	-	1.3	20	93	0
IS3_Acenaphthene-d10	1	1	-	0	20	92	0
Atrazine	0.423	0.463	-	-9.5	20	107	0
IS3_Phenanthrene-d10	1	1	-	0	20	101	0
n-Octadecane	0.392	0.345	-	12	20	90	0
Parathion	5	4.42	-	11.6	20	100	0
3,3'-Dimethylbenzidine	5	3.678	-	26.4*	20	82	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : ABN0619.D
 Acq On : 19 Jun 2025 10:48 am
 Operator : Dakota:slr
 Sample : WG2080969-3,32,,ABN 11297 HNY0523C
 Misc : WG2080969,,ical22203
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 20 13:33:22 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:09:43 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	103	0.00
2 t	n-Nitrosodimethylamine	0.686	0.600	12.5	93	0.00
3 t	Pyridine	1.201	0.785	34.6#	71	0.00
4 S	2-Fluorophenol	1.027	0.846	17.6	86	0.00
5 T	Aniline	1.681	1.534	8.7	89	0.00
6 t	2-Chlorophenol	1.137	1.032	9.2	95	0.00
7 S	Phenol-d6	1.267	1.197	5.5	96	0.00
8 T	Phenol	1.542	1.455	5.6	97	0.00
9 T	Bis(2-chloroethyl)ether	0.996	0.903	9.3	97	0.00
10 T	1,3-Dichlorobenzene	1.509	1.399	7.3	101	0.00
11 T	1,4-Dichlorobenzene	1.555	1.389	10.7	98	0.00
12 T	1,2-Dichlorobenzene	1.445	1.335	7.6	100	0.00
13 t	Benzyl alcohol	1.005	0.897	10.7	95	0.00
14 T	Bis(2-chloroisopropyl)ether	2.140	1.840	14.0	92	0.00
15 T	2-Methylphenol	1.014	0.954	5.9	97	0.00
16 T	Hexachloroethane	0.534	0.508	4.9	99	0.00
17 T	n-Nitrosodi-n-propylamine	0.907	0.808	10.9	92	0.00
18 T	3-Methylphenol/4-Methylphen	1.086	1.033	4.9	98	0.00
19 S	Nitrobenzene-d5	1.358	1.264	6.9	96	0.00
20 T	Nitrobenzene	1.329	1.238	6.8	97	0.00
21 T	Isophorone	2.441	2.122	13.1	92	0.00
22 T	2-Nitrophenol	0.587	0.576	1.9	96	0.00
23 T	2,4-Dimethylphenol	1.169	1.107	5.3	99	0.00
24 T	Bis(2-chloroethoxy)methane	1.438	1.279	11.1	95	0.00
25 T	2,4-Dichlorophenol	1.213	1.223	-0.8	105	0.00
26 T	1,2,4-Trichlorobenzene	1.517	1.490	1.8	103	0.00
37 I	IS1_Naphthalene-d8	1.000	1.000	0.0	103	0.00
38 T	Naphthalene	1.025	0.892	13.0	96	0.00
39 T	Benzoic Acid	* 5.000	4.605	7.9	100	0.00
40 T	4-Chloroaniline	0.140	0.128	8.6	98	0.00
41 T	Hexachlorobutadiene	0.253	0.272	-7.5	115	0.00
42 T	p-Chloro-m-cresol	0.285	0.283	0.7	104	0.00
43 T	2-Methylnaphthalene	0.666	0.629	5.6	98	0.00
44 T	1-Methylnaphthalene	0.226	0.222	1.8	103	0.00
45 T	Hexachlorocyclopentadiene	0.341	0.328	3.8	103	0.00
46 T	2,4,6-Trichlorophenol	0.295	0.312	-5.8	109	0.00
47 T	2,4,5-Trichlorophenol	0.328	0.353	-7.6	114	0.00
48 S	2-Fluorobiphenyl	1.042	0.977	6.2	104	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : ABN0619.D
 Acq On : 19 Jun 2025 10:48 am
 Operator : Dakota:slr
 Sample : WG2080969-3,32,,ABN 11297 HNY0523C
 Misc : WG2080969,,ical22203
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 20 13:33:22 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:09:43 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)
49 T	2-Chloronaphthalene	0.839	0.810	3.5	104	0.00
50 T	2-Nitroaniline	0.214	0.211	1.4	102	0.00
51 T	1,4-Dinitrobenzene	0.110	0.113	-2.7	105	0.00
52 T	1,3-Dinitrobenzene	0.135	0.134	0.7	100	0.00
53 T	Dimethyl phthalate	1.012	0.975	3.7	103	0.00
54 T	Acenaphthylene	1.327	1.254	5.5	98	0.00
55 T	2,6-Dinitrotoluene	0.202	0.211	-4.5	103	0.00
56 T	1,2-Dinitrobenzene	0.084	0.085	-1.2	107	0.00
65 I	IS1_Acenaphthene-d10	1.000	1.000	0.0	110	0.00
66 T	3-Nitroaniline	0.272	0.268	1.5	102	0.00
67 T	Acenaphthene	1.046	0.921	12.0	102	0.00
68 T	2,4-Dinitrophenol	* 5.000	4.432	11.4	103	0.00
69 T	Dibenzofuran	1.874	1.651	11.9	104	0.00
70 T	2,4-Dinitrotoluene	0.400	0.385	3.8	103	0.00
71 T	4-Nitrophenol	0.247	0.253	-2.4	111	0.00
72 T	2,3,5,6-Tetrachlorophenol	0.404	0.445	-10.1	121	0.00
73 T	2,3,4,6-Tetrachlorophenol	0.397	0.426	-7.3	119	0.00
74 T	Diethyl phthalate	1.403	1.180	15.9	98	0.00
75 T	Fluorene	1.460	1.286	11.9	103	0.00
76 T	4-Chlorophenyl phenyl ether	0.756	0.698	7.7	114	0.00
77 T	4-Nitroaniline	0.286	0.270	5.6	96	0.00
78 T	4,6-Dinitro-o-cresol	0.248	0.254	-2.4	109	0.00
79 T	NDPA/DPA	1.275	1.150	9.8	104	0.00
80 T	Azobenzene	1.299	1.098	15.5	97	0.00
81 S	2,4,6-Tribromophenol	0.235	0.246	-4.7	113	0.00
82 T	4-Bromophenyl phenyl ether	0.478	0.439	8.2	107	0.00
83 T	Hexachlorobenzene	0.558	0.532	4.7	117	0.00
84 T	Pentachlorophenol	0.331	0.388	-17.2	133	0.00
90 I	IS1_Phenanthrene-d10	1.000	1.000	0.0	119	0.00
91 T	Phenanthrene	1.150	0.977	15.0	106	0.00
92 T	Anthracene	1.127	0.971	13.8	105	0.00
93 T	Carbazole	1.060	0.915	13.7	104	0.00
94 T	Di-n-butylphthalate	1.100	0.890	19.1	97	0.00
95 T	Fluoranthene	1.355	1.242	8.3	111	0.00
96 T	Benzidine	0.817	0.770	5.8	111	0.00
97 T	Pyrene	1.466	1.325	9.6	110	0.00
98 S	4-Terphenyl-d14	1.069	0.952	10.9	110	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : ABN0619.D
 Acq On : 19 Jun 2025 10:48 am
 Operator : Dakota:slr
 Sample : WG2080969-3,32,,ABN 11297 HNY0523C
 Misc : WG2080969,,ical22203
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 20 13:33:22 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:09:43 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)
99 T	Butyl benzyl phthalate	0.478	0.415	13.2	100	0.00
106 I	IS1_Chrysene-d12	1.000	1.000	0.0	128	0.00
107 T	Benzo(a)anthracene	1.313	1.134	13.6	113	0.00
108 T	3,3'-Dichlorobenzidine	0.464	0.419	9.7	113	0.00
109 T	Chrysene	1.293	1.097	15.2	117	0.00
110 T	Bis(2-ethylhexyl)phthalate	0.661	0.533	19.4	97	0.00
111 T	Di-n-octylphthalate	1.074	0.923	14.1	102	0.00
112 T	Benzo(b)fluoranthene	1.332	1.212	9.0	116	0.00
113 T	Benzo(k)fluoranthene	1.355	1.232	9.1	117	0.00
114 T	Benzo(a)pyrene	1.271	1.147	9.8	115	0.00
115 I	IS1_Perylene-d12	1.000	1.000	0.0	126	0.00
116 T	Indeno(1,2,3-cd)pyrene	1.242	1.140	8.2	114	0.00
117 T	Dibenzo(a,h)anthracene	1.197	1.099	8.2	119	0.00
118 T	Benzo(ghi)perylene	1.198	1.098	8.3	121	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\Dakota\250619RVTa\
 Data File : ABN0619.D
 Acq On : 19 Jun 2025 10:48 am
 Operator : Dakota:slr
 Sample : WG2080969-3,32,,ABN 11297 HNY0523C
 Misc : WG2080969,,ical22203
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 20 13:33:22 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:09:43 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...	4.654	152	40269	4.000	ug/ml	0.00
37) IS1_Naphthalene-d8	5.888	136	141165	4.000	ug/ml	# 0.00
65) IS1_Acenaphthene-d10	7.585	164	108362	4.000	ug/ml	0.00
90) IS1_Phenanthrene-d10	9.015	188	250799	4.000	ug/ml	0.00
106) IS1_Chrysene-d12	11.632	240	307987	4.000	ug/ml	# 0.00
115) IS1_Perylene-d12	13.087	264	355260	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	42584	4.119	ug/ml	0.00
Spiked Amount	2.000	Range 15 - 110	Recovery	=	205.95%#	
7) Phenol-d6	4.337	99	60273	4.727	ug/ml	0.00
Spiked Amount	2.000	Range 15 - 110	Recovery	=	236.35%#	
19) Nitrobenzene-d5	5.192	82	63623	4.655	ug/ml	0.00
Spiked Amount	1.000	Range 30 - 130	Recovery	=	465.50%#	
48) 2-Fluorobiphenyl	6.954	172	172317	4.686	ug/ml	0.00
Spiked Amount	1.000	Range 30 - 130	Recovery	=	468.60%#	
81) 2,4,6-Tribromophenol	8.347	330	33274	5.216	ug/ml	0.00
Spiked Amount	2.000	Range 15 - 110	Recovery	=	260.80%#	
98) 4-Terphenyl-d14	10.585	244	298325	4.450	ug/ml	0.00
Spiked Amount	1.000	Range 30 - 130	Recovery	=	445.00%#	
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	1.984	74	30198	4.376	ug/ml#	94
3) Pyridine	2.034	79	39519M6	3.269	ug/ml	
5) Aniline	4.337	93	77206	4.563	ug/ml#	33
6) 2-Chlorophenol	4.449	128	51933	4.538	ug/ml	94
8) Phenol	4.347	94	73233	4.716	ug/ml#	41
9) Bis(2-chloroethyl)ether	4.418	93	45454	4.534	ug/ml	93
10) 1,3-Dichlorobenzene	4.598	146	70413	4.636	ug/ml	95
11) 1,4-Dichlorobenzene	4.670	146	69893	4.464	ug/ml	92
12) 1,2-Dichlorobenzene	4.816	146	67203	4.620	ug/ml	94
13) Benzyl alcohol	4.807	79	45140	4.463	ug/ml	95
14) Bis(2-chloroisopropyl)...	4.953	45	92623	4.299	ug/ml#	70
15) 2-Methylphenol	4.937	108	48013	4.705	ug/ml	99
16) Hexachloroethane	5.145	117	25575	4.757	ug/ml#	42
17) n-Nitrosodi-n-propylamine	5.074	70	40683	4.454	ug/ml#	85
18) 3-Methylphenol/4-Methy...	5.089	108	52006	4.757	ug/ml	97
20) Nitrobenzene	5.211	77	62292	4.655	ug/ml	91
21) Isophorone	5.453	82	106824	4.347	ug/ml#	93
22) 2-Nitrophenol	5.528	139	28986	4.908	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : ABN0619.D
 Acq On : 19 Jun 2025 10:48 am
 Operator : Dakota:slr
 Sample : WG2080969-3,32,,ABN 11297 HNY0523C
 Misc : WG2080969,,ical22203
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 20 13:33:22 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:09:43 2025
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23)	2,4-Dimethylphenol	5.602	107	55709	4.734	ug/ml	96
24)	Bis(2-chloroethoxy)met...	5.689	93	64403	4.448	ug/ml	97
25)	2,4-Dichlorophenol	5.764	162	61585	5.045	ug/ml#	90
26)	1,2,4-Trichlorobenzene	5.842	180	74996	4.911	ug/ml#	95
38)	Naphthalene	5.907	128	157348	4.351	ug/ml	99
39)	Benzoic Acid	5.668	105	29585	4.605	ug/ml	88
40)	4-Chloroaniline	5.975	65	22603	4.572	ug/ml	98
41)	Hexachlorobutadiene	6.056	225	47933	5.377	ug/ml	95
42)	p-Chloro-m-cresol	6.473	107	49913	4.969	ug/ml	90
43)	2-Methylnaphthalene	6.584	142	110995	4.722	ug/ml	98
44)	1-Methylnaphthalene	6.678	115	39195	4.907	ug/ml	97
45)	Hexachlorocyclopentadiene	6.755	237	57892	4.809	ug/ml	100
46)	2,4,6-Trichlorophenol	6.870	196	55001	5.279	ug/ml	98
47)	2,4,5-Trichlorophenol	6.902	196	62346	5.393	ug/ml	98
49)	2-Chloronaphthalene	7.051	162	142979	4.829	ug/ml#	89
50)	2-Nitroaniline	7.159	138	37187	4.921	ug/ml	92
51)	1,4-Dinitrobenzene	7.290	168	19883	5.103	ug/ml	82
52)	1,3-Dinitrobenzene	7.368	168	23629	4.971	ug/ml#	1
53)	Dimethyl phthalate	7.362	163	171997	4.818	ug/ml#	98
54)	Acenaphthylene	7.445	152	221273	4.724	ug/ml	100
55)	2,6-Dinitrotoluene	7.402	165	37202	5.207	ug/ml#	75
56)	1,2-Dinitrobenzene	7.442	168	15013	5.062	ug/ml#	1
66)	3-Nitroaniline	7.557	138	36341	4.927	ug/ml#	90
67)	Acenaphthene	7.616	154	124733	4.400	ug/ml	88
68)	2,4-Dinitrophenol	7.657	184	22465	4.432	ug/ml#	79
69)	Dibenzofuran	7.787	168	223689	4.406	ug/ml#	86
70)	2,4-Dinitrotoluene	7.787	165	52204	4.813	ug/ml	91
71)	4-Nitrophenol	7.747	65	34308	5.127	ug/ml#	93
72)	2,3,5,6-Tetrachlorophenol	7.877	232	60329	5.506	ug/ml	96
73)	2,3,4,6-Tetrachlorophenol	7.918	232	57757	5.366	ug/ml	96
74)	Diethyl phthalate	8.051	149	159849	4.206	ug/ml	96
75)	Fluorene	8.117	166	174198	4.404	ug/ml	92
76)	4-Chlorophenyl phenyl ...	8.135	204	94508	4.613	ug/ml#	79
77)	4-Nitroaniline	8.145	138	36582	4.722	ug/ml#	89
78)	4,6-Dinitro-o-cresol	8.179	198	34450	5.134	ug/ml#	56
79)	NDPA/DPA	8.250	169	155838	4.510	ug/ml	95
80)	Azobenzene	8.285	77	148748	4.228	ug/ml	94
82)	4-Bromophenyl phenyl e...	8.605	248	59515	4.598	ug/ml#	74
83)	Hexachlorobenzene	8.651	284	72096	4.773	ug/ml#	77
84)	Pentachlorophenol	8.847	266	52572	5.870	ug/ml	96
91)	Phenanthrene	9.037	178	306381	4.249	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : ABN0619.D
 Acq On : 19 Jun 2025 10:48 am
 Operator : Dakota:slr
 Sample : WG2080969-3,32,,ABN 11297 HNY0523C
 Misc : WG2080969,,ical22203
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 20 13:33:22 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:09:43 2025
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

92)	Anthracene	9.086	178	304284	4.308	ug/ml	99
93)	Carbazole	9.251	167	286831	4.315	ug/ml	99
94)	Di-n-butylphthalate	9.640	149	278921	4.043	ug/ml#	98
95)	Fluoranthene	10.184	202	389435	4.583	ug/ml#	89
96)	Benazidine	10.336	184	241421	4.711	ug/ml#	92
97)	Pyrene	10.398	202	415433	4.521	ug/ml	100
99)	Butyl benzyl phthalate	11.110	149	130070	4.344	ug/ml	86
107)	Benzo(a)anthracene	11.623	228	436515	4.317	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.623	252	161116	4.507	ug/ml#	95
109)	Chrysene	11.660	228	422456	4.244	ug/ml	100
110)	Bis(2-ethylhexyl)phtha...	11.744	149	205276	4.032	ug/ml#	93
111)	Di-n-octylphthalate	12.418	149	355359	4.297	ug/ml#	76
112)	Benzo(b)fluoranthene	12.720	252	466618	4.549	ug/ml#	92
113)	Benzo(k)fluoranthene	12.748	252	474471	4.548	ug/ml#	91
114)	Benzo(a)pyrene	13.031	252	441763	4.514	ug/ml#	91
116)	Indeno(1,2,3-cd)pyrene	14.050	276	506377	4.589	ug/mL#	84
117)	Dibenzo(a,h)anthracene	14.075	278	488027	4.590	ug/ml#	87
118)	Benzo(ghi)perylene	14.296	276	487550	4.584	ug/ml#	82

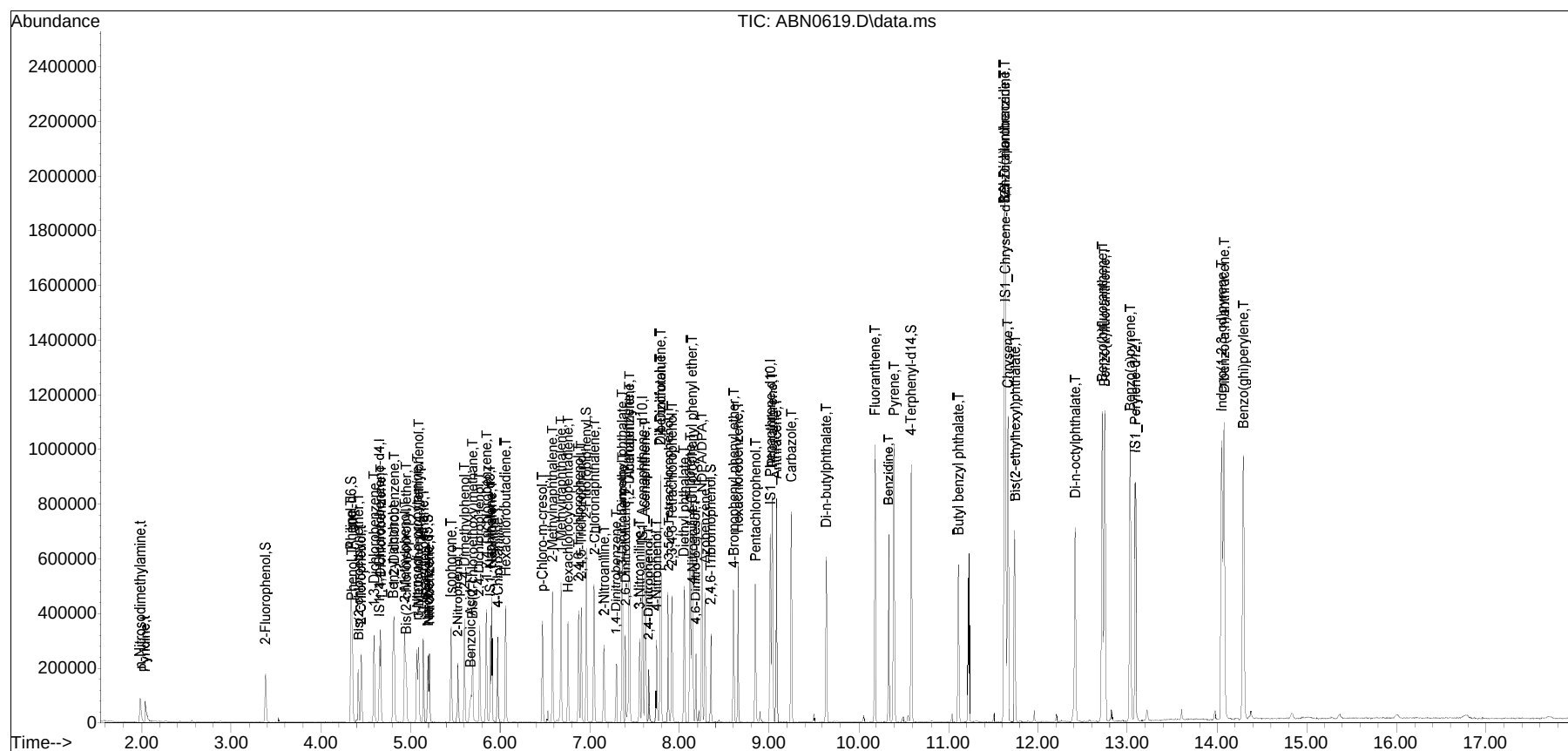
(#) = qualifier out of range (m) = manual integration (+) = signals summed

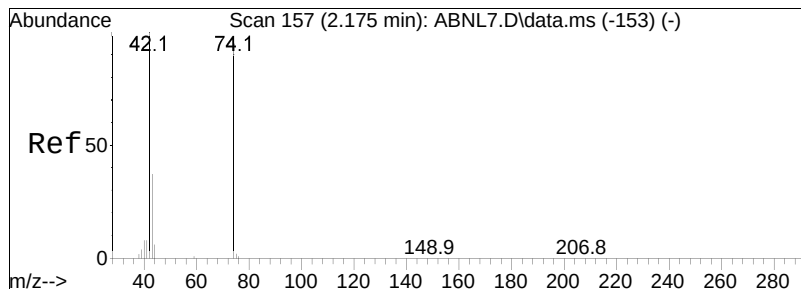
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
Data File : ABN0619.D
Acq On : 19 Jun 2025 10:48 am
Operator : Dakota:slr
Sample : WG2080969-3,32,,ABN 11297 HNY0523C
Misc : WG2080969,,ical22203
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 20 13:33:22 2025
Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 19 11:09:43 2025
Response via : Initial Calibration

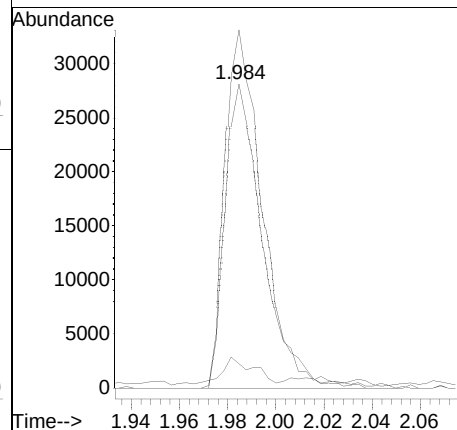
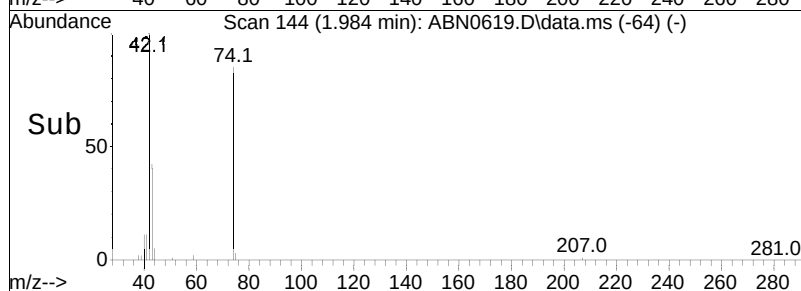
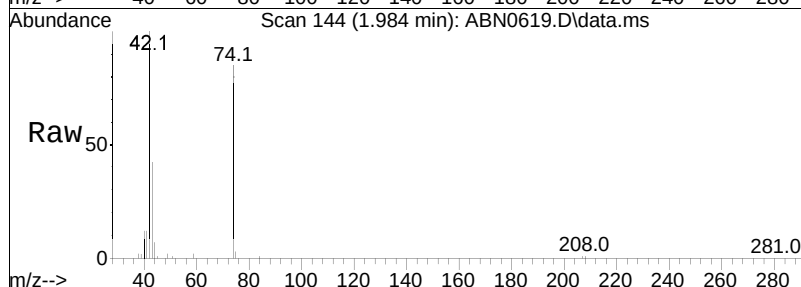
Sub List : ABNical - ABN ical sublist

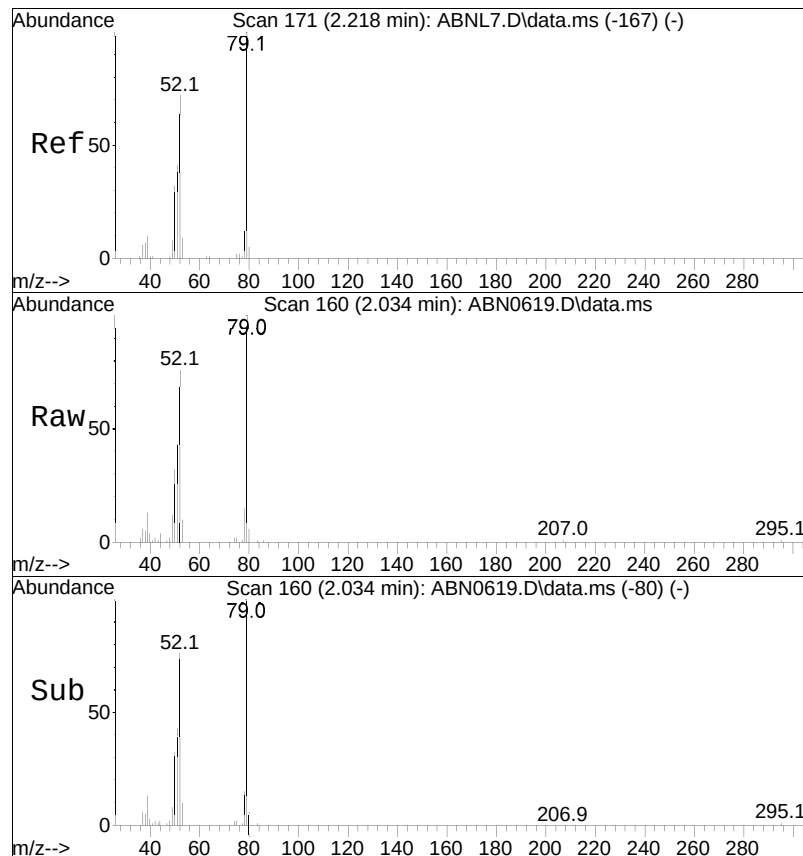




#2
 n-Nitrosodimethylamine
 Concen: 4.38 ug/ml
 RT: 1.984 min Scan# 144
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

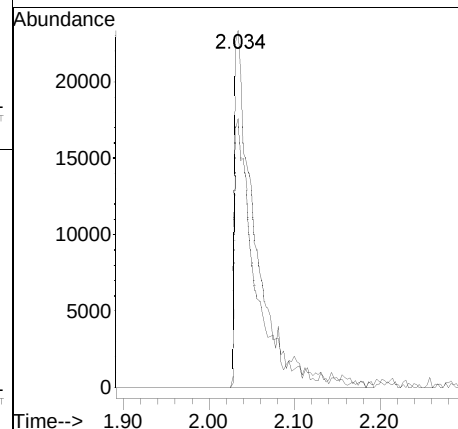
Tgt Ion: 74 Resp: 30198
 Ion Ratio Lower Upper
 74 100
 42 118.5 100.0 150.0
 44 6.7 6.7 10.1#

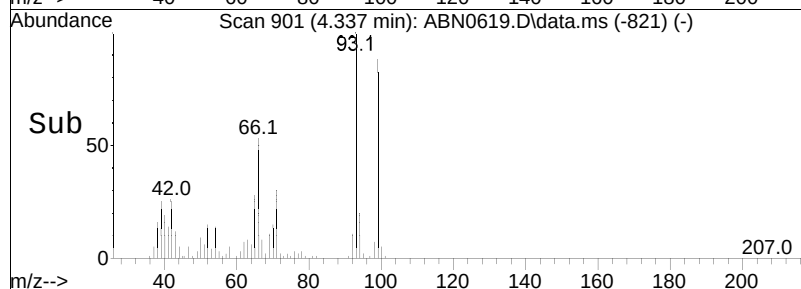
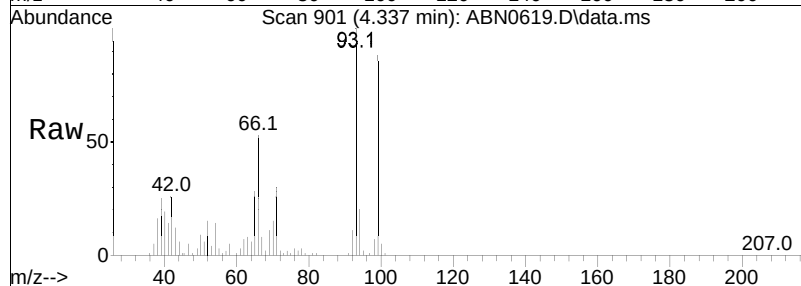
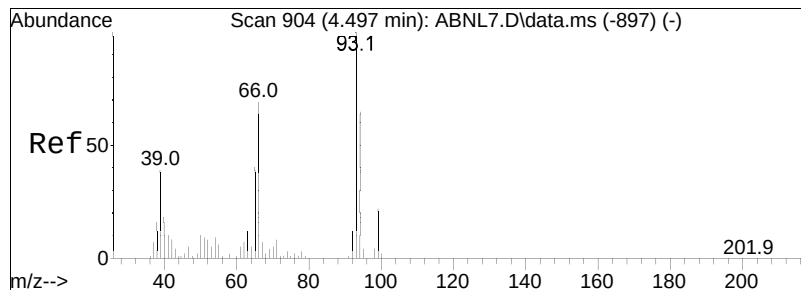




#3
 Pyridine
 Concen: 3.27 ug/ml M6
 RT: 2.034 min Scan# 160
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

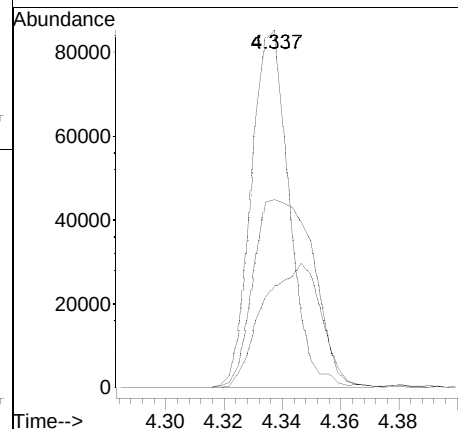
Tgt Ion	Ratio	Lower	Upper
79	100		
52	67.5	93.1	139.7#

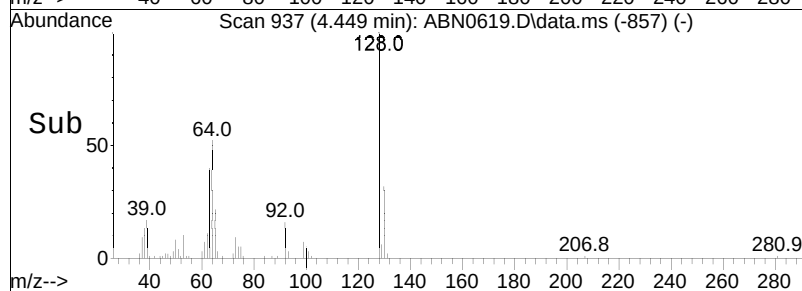
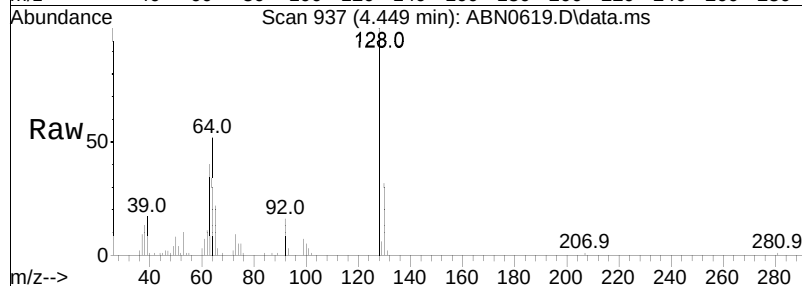
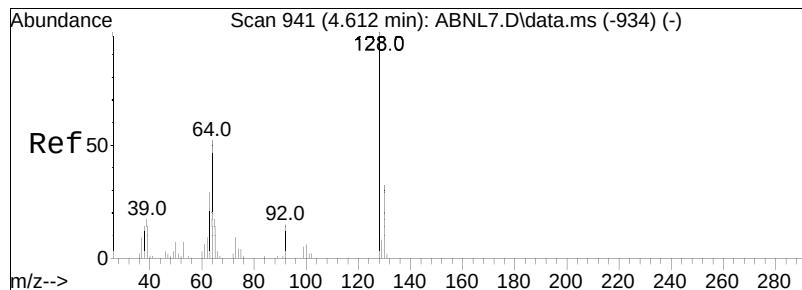




#5
 Aniline
 Concen: 4.56 ug/ml
 RT: 4.337 min Scan# 901
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

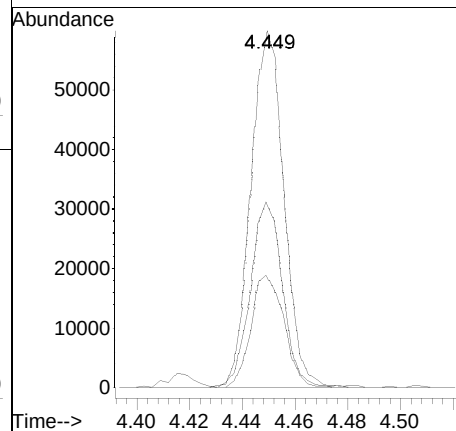
Tgt Ion	Ratio	Lower	Upper
93	100		
66	83.5	32.6	49.0#
65	52.8	17.6	26.4#

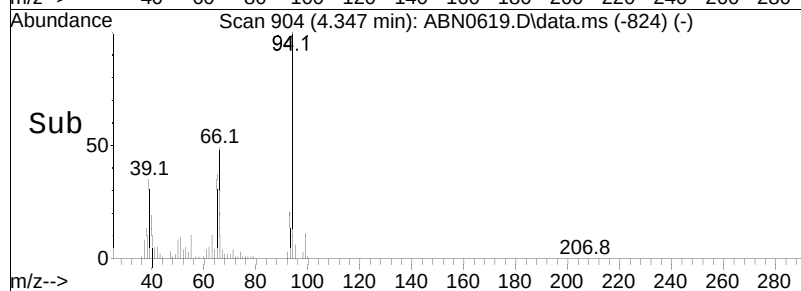
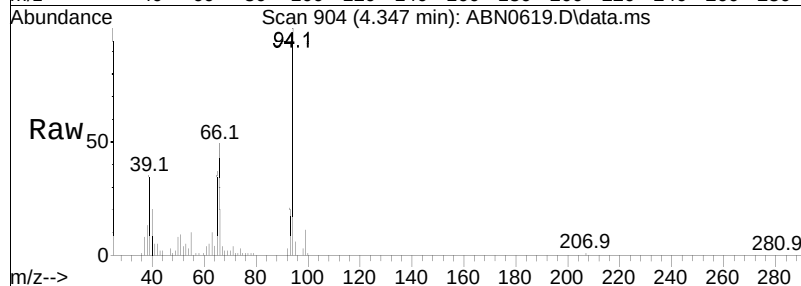
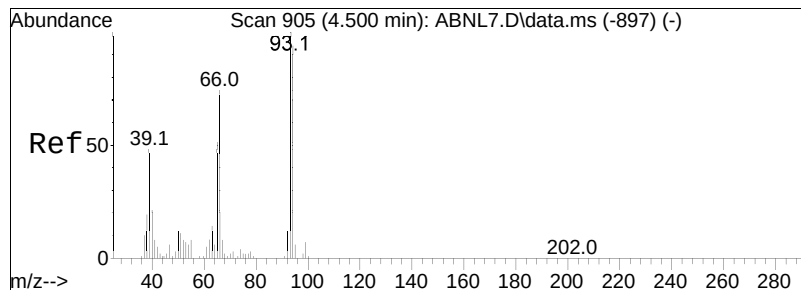




#6
 2-Chlorophenol
 Concen: 4.54 ug/ml
 RT: 4.449 min Scan# 937
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

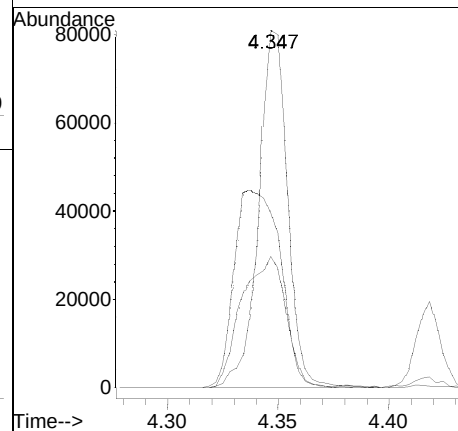
Tgt Ion	Ratio	Lower	Upper
128	100		
64	50.2	45.1	67.7
130	31.7	26.2	39.4

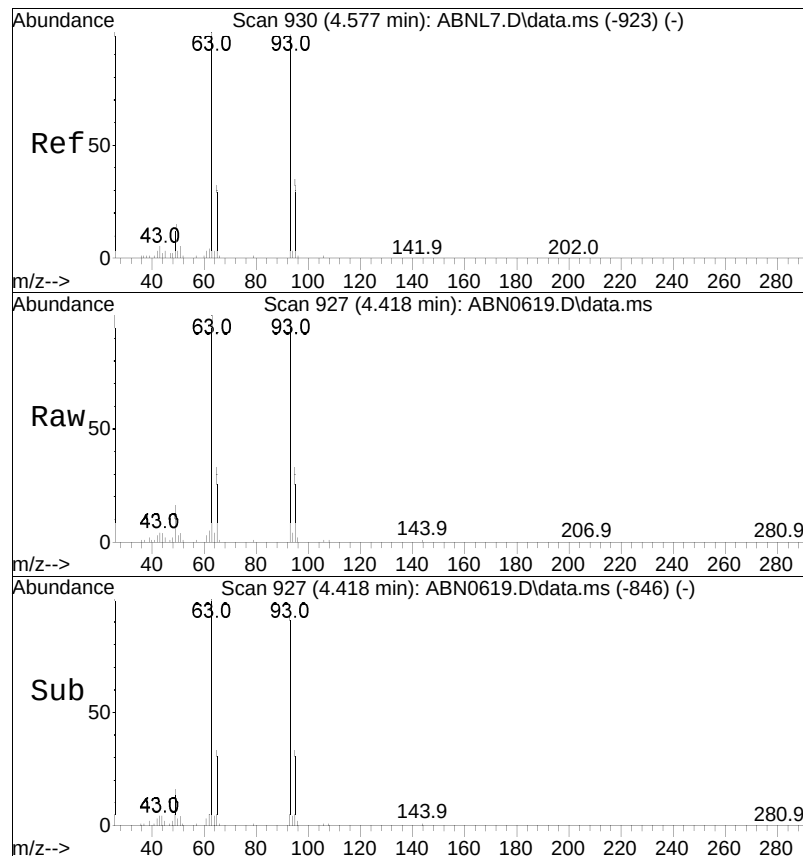




#8
 Phenol
 Concen: 4.72 ug/ml
 RT: 4.347 min Scan# 904
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

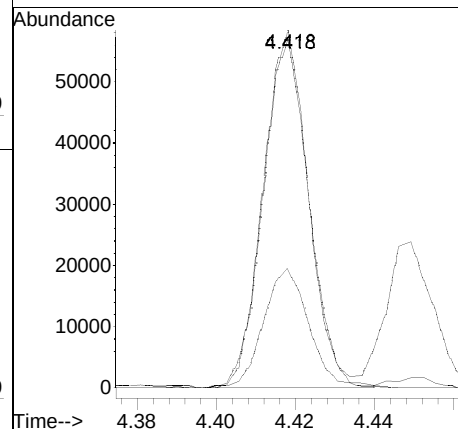
Tgt Ion:	94	Resp:	73233
Ion Ratio	Lower	Upper	
94	100		
65	55.7	26.0	39.0#
66	88.0	33.8	50.8#

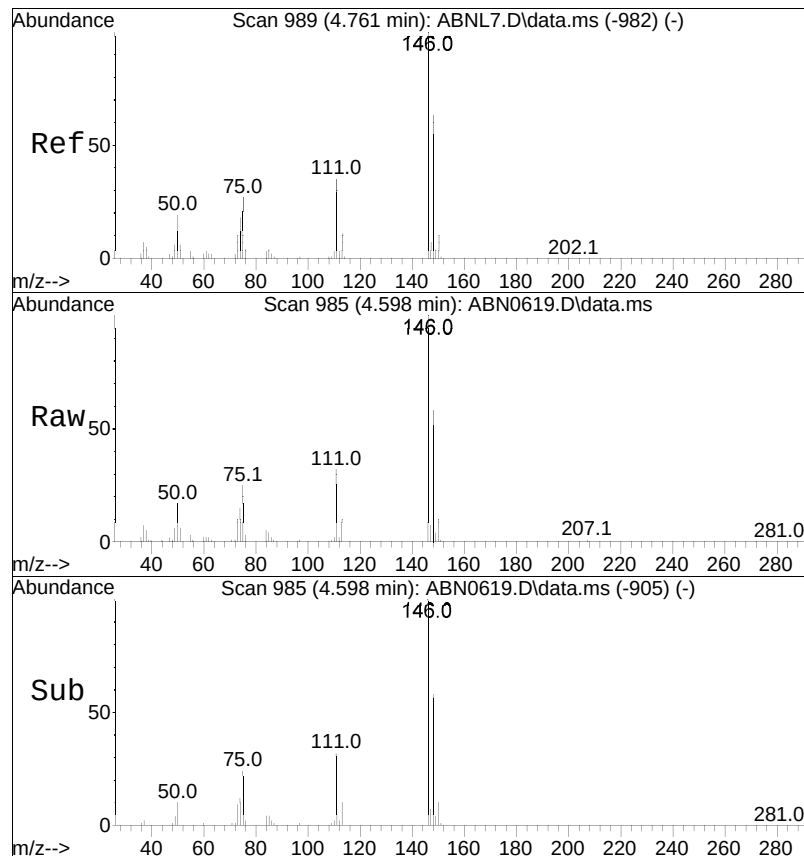




#9
 Bis(2-chloroethyl)ether
 Concen: 4.53 ug/ml
 RT: 4.418 min Scan# 927
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

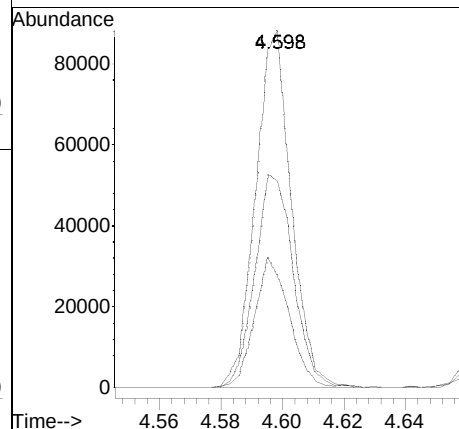
Tgt	Ion	Ratio	Lower	Upper
93	100			
63	100.8	74.6	111.8	
95	33.9	25.9	38.9	

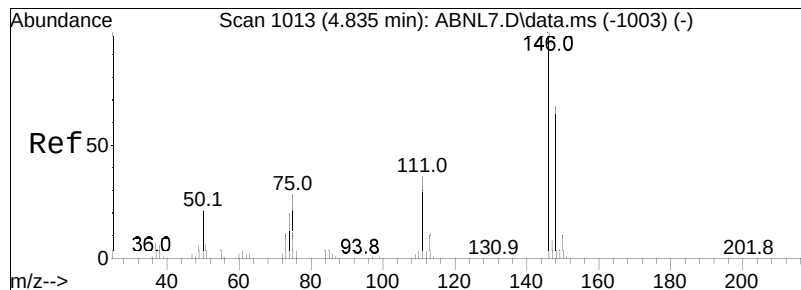




#10
 1,3-Dichlorobenzene
 Concen: 4.64 ug/ml
 RT: 4.598 min Scan# 985
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

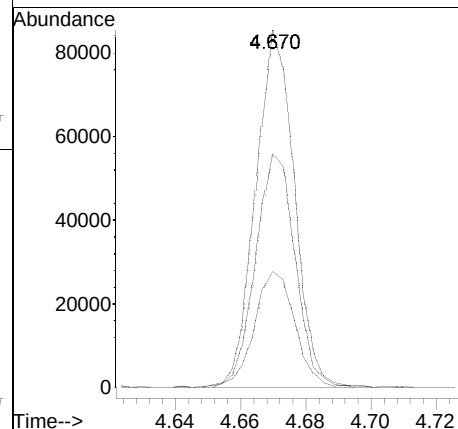
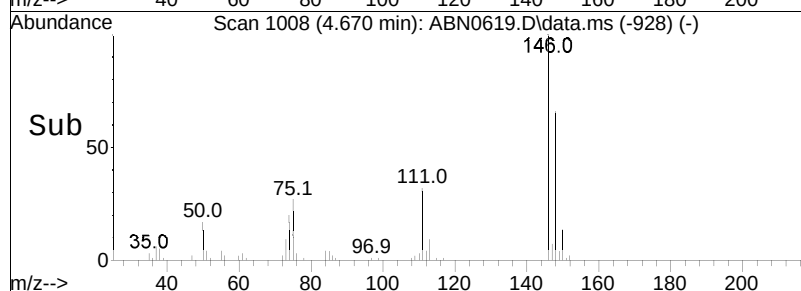
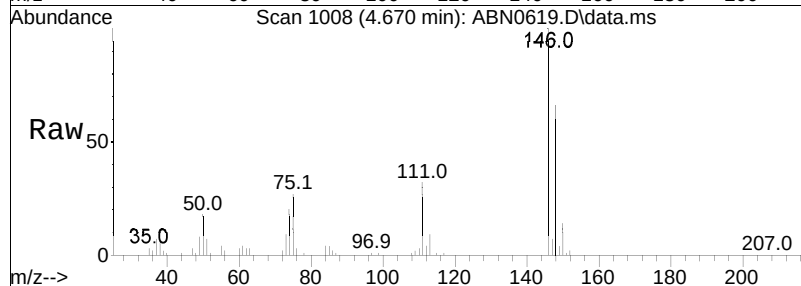
Tgt	Ion:146	Resp:	70413
Ion	Ratio	Lower	Upper
146	100		
111	35.7	34.3	51.5
148	64.1	50.8	76.2

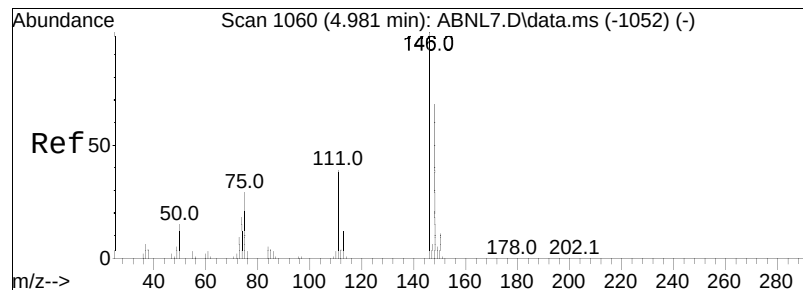




#11
 1,4-Dichlorobenzene
 Concen: 4.46 ug/ml
 RT: 4.670 min Scan# 1008
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

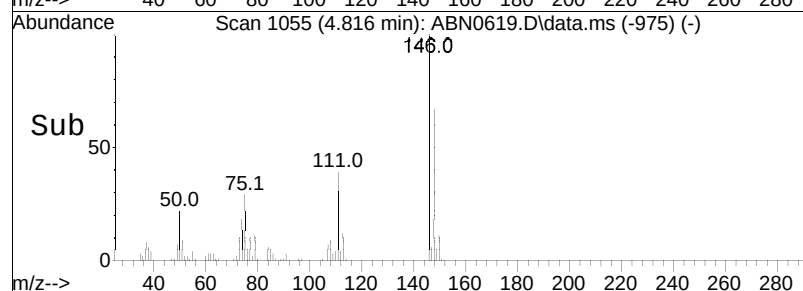
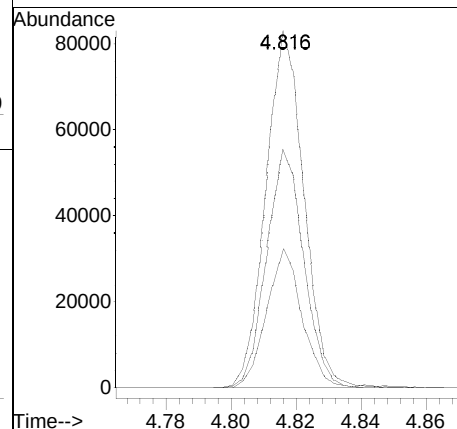
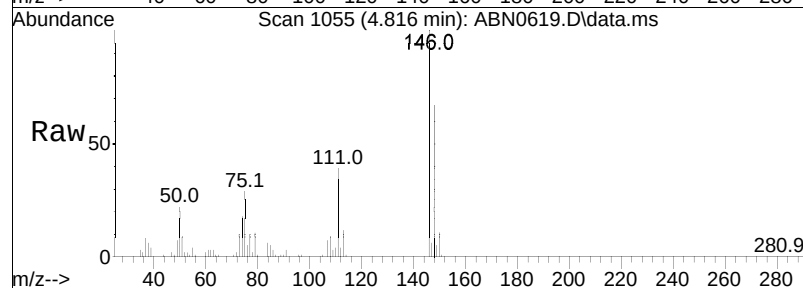
Tgt Ion	Ratio	Lower	Upper
146	100		
148	67.1	50.7	76.1
111	34.3	33.4	50.0

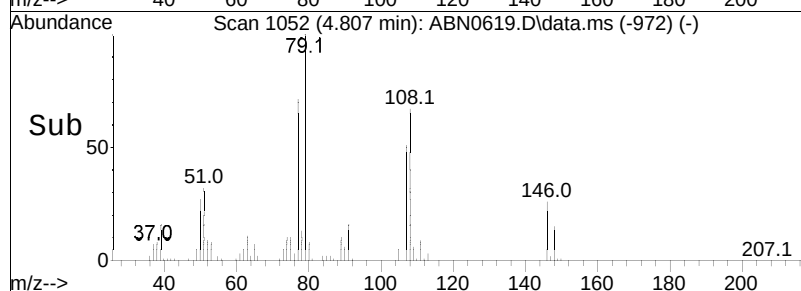
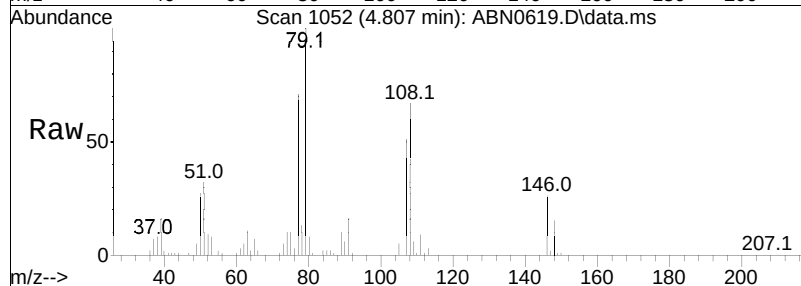
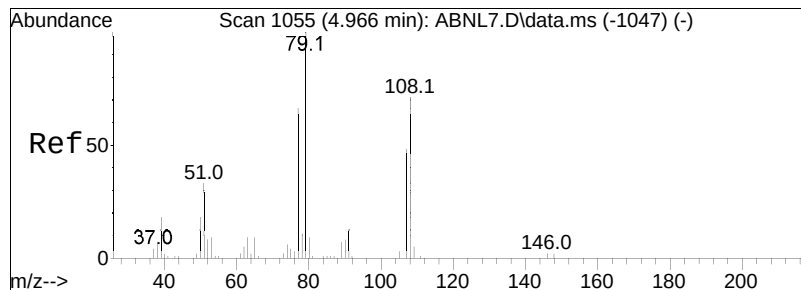




#12
 1,2-Dichlorobenzene
 Concen: 4.62 ug/ml
 RT: 4.816 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.5	34.6	52.0
148	65.2	50.2	75.4





#13

Benzyl alcohol

Concen: 4.46 ug/ml

RT: 4.807 min Scan# 1052

Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 10:48 am

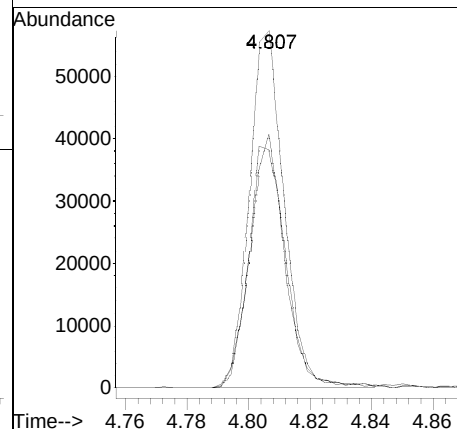
Tgt Ion: 79 Resp: 45140

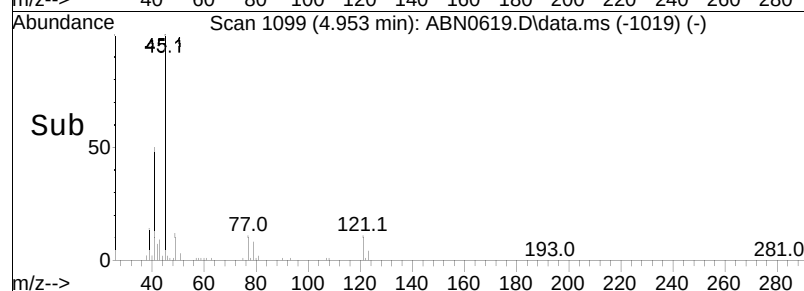
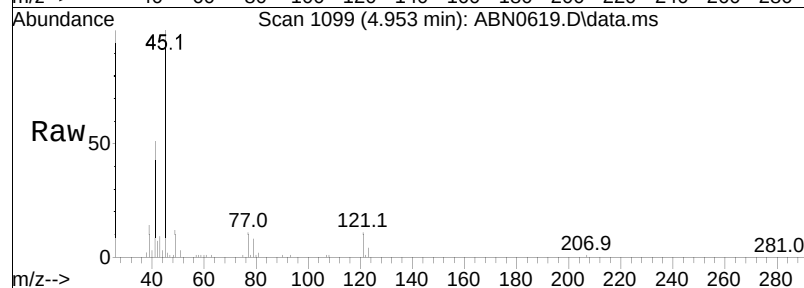
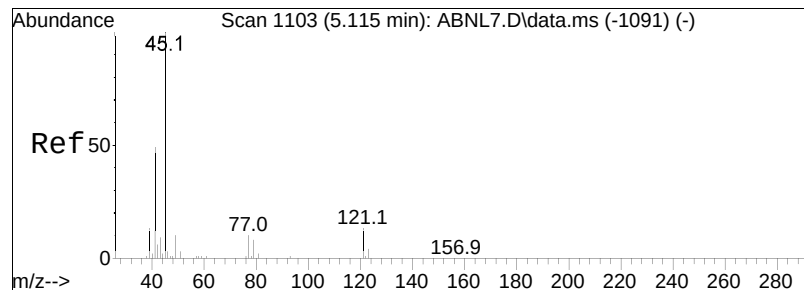
Ion Ratio Lower Upper

79 100

77 70.3 54.9 82.3

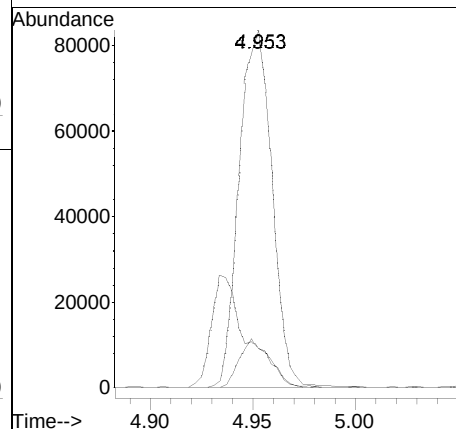
108 72.7 63.1 94.7

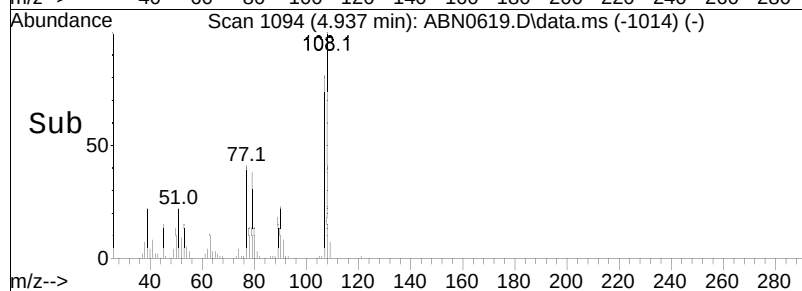
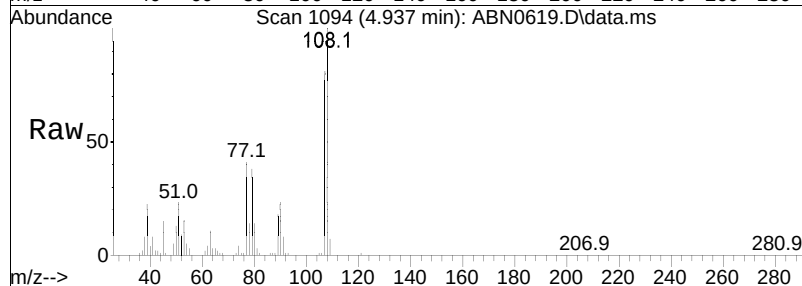
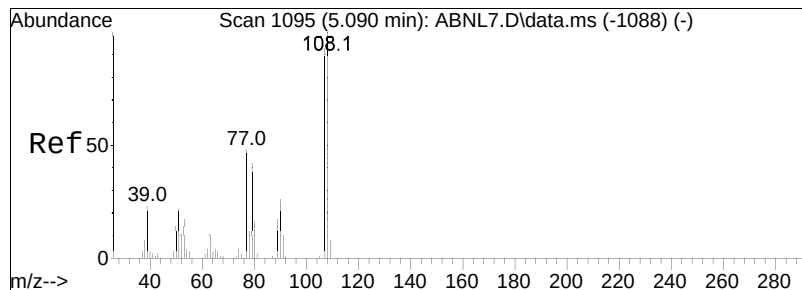




#14
 Bis(2-chloroisopropyl)ether
 Concen: 4.30 ug/ml
 RT: 4.953 min Scan# 1099
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

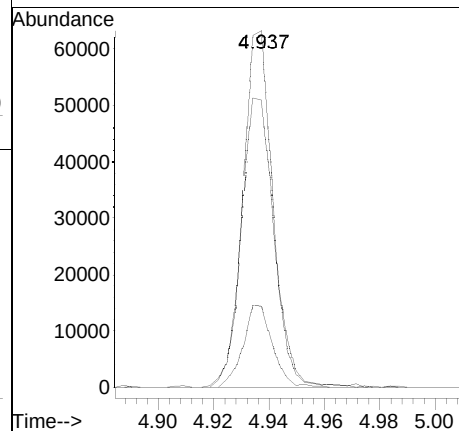
Tgt Ion:	45	121	77	Ratio	Lower	Upper
Resp:	92623					
Ion Ratio	100	12.7	34.3			
		9.8	6.1			
		14.6	9.1#			

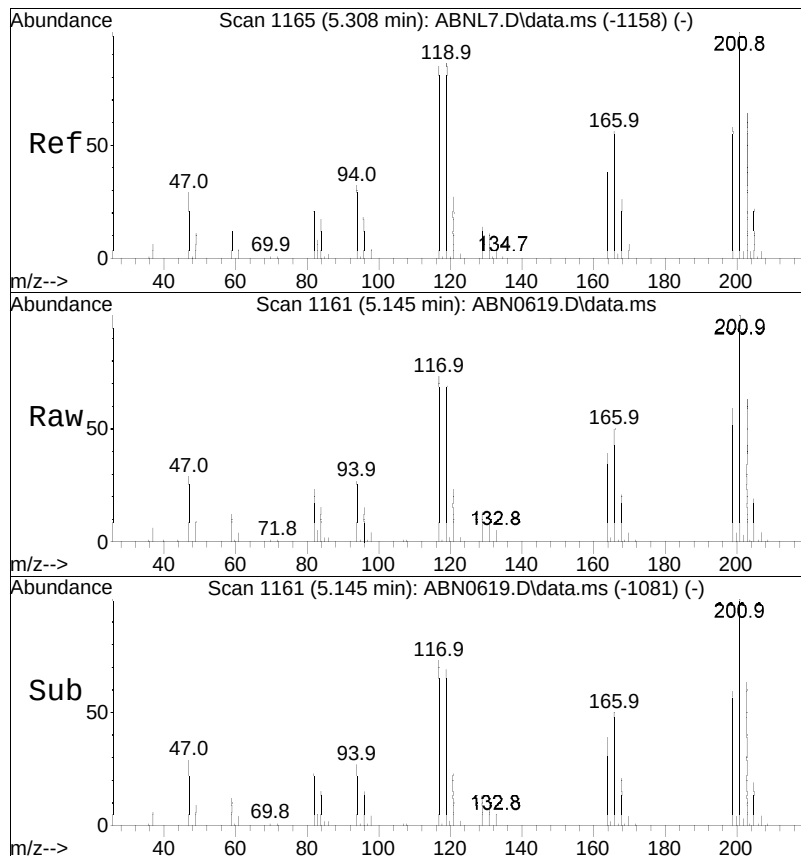




#15
 2-Methylphenol
 Concen: 4.70 ug/ml
 RT: 4.937 min Scan# 1094
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

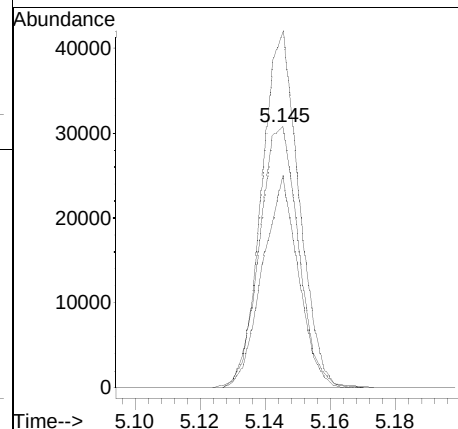
Tgt Ion	Ratio	Lower	Upper
108	100		
107	87.2	70.7	106.1
90	22.5	18.7	28.1

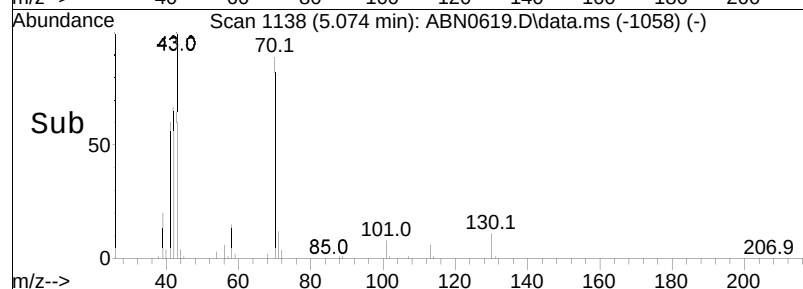
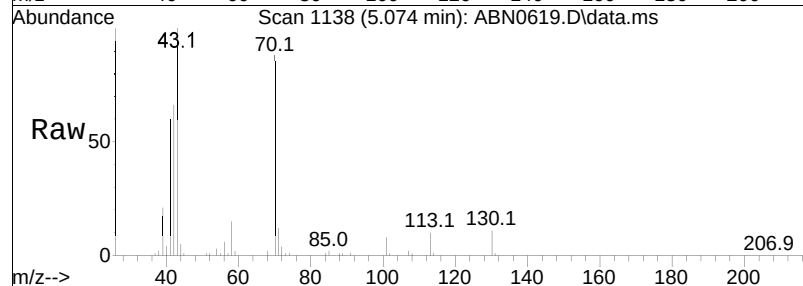
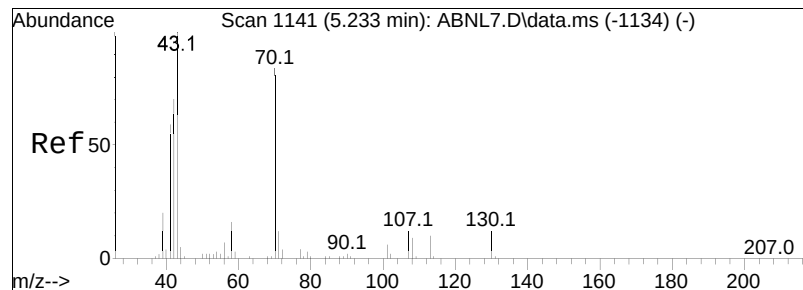




#16
 Hexachloroethane
 Concen: 4.76 ug/ml
 RT: 5.145 min Scan# 1161
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

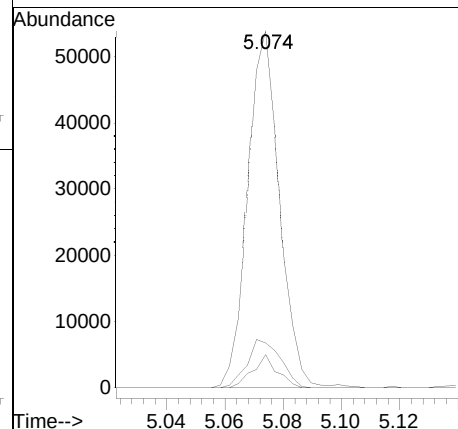
Tgt Ion:	117	Resp:	25575
Ion Ratio	Lower	Upper	
117	100		
201	130.3	58.6	87.8#
199	74.8	36.9	55.3#

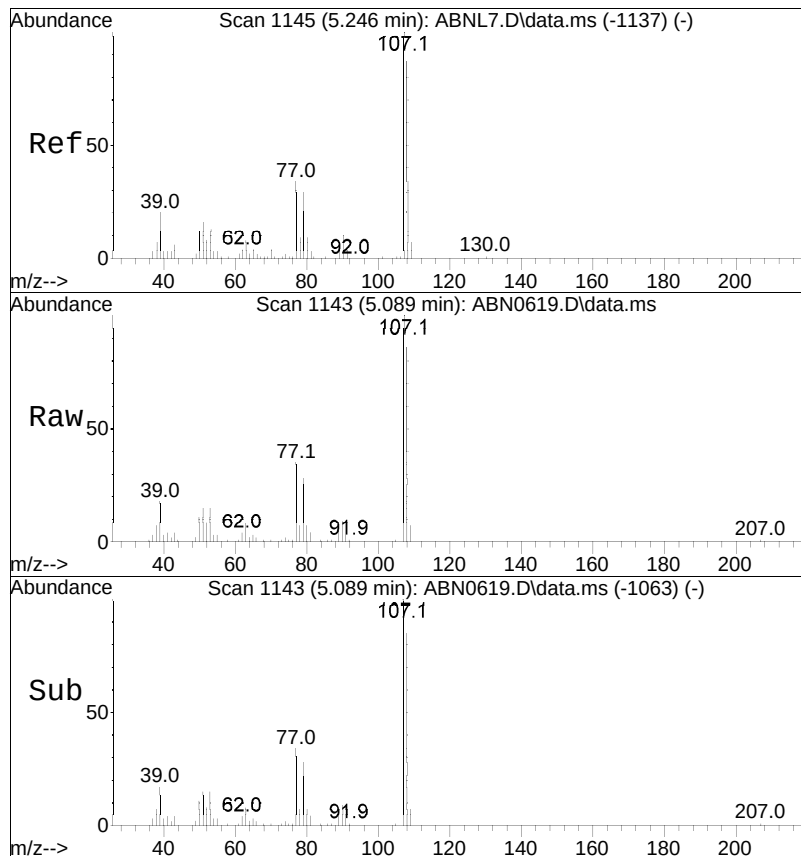




#17
 n-Nitrosodi-n-propylamine
 Concen: 4.45 ug/ml
 RT: 5.074 min Scan# 1138
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

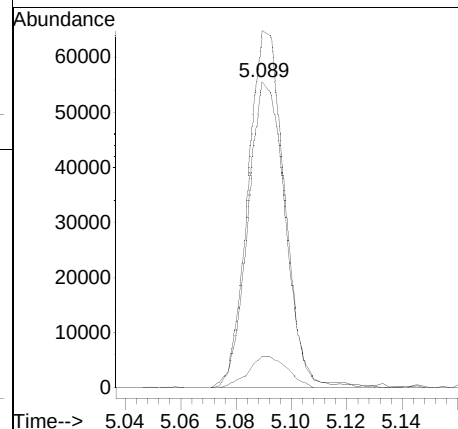
Tgt Ion	Ratio	Lower	Upper
70	100		
130	14.0	18.2	27.4#
101	7.1	7.8	11.8#

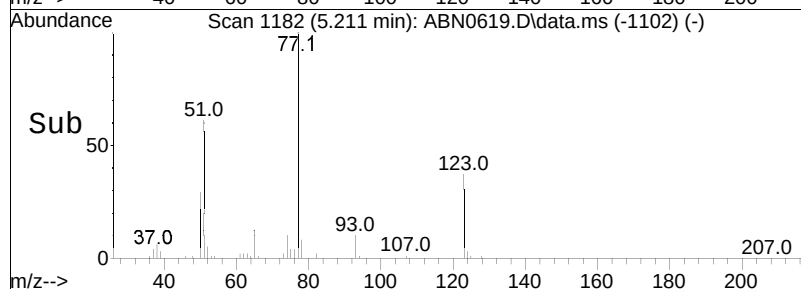
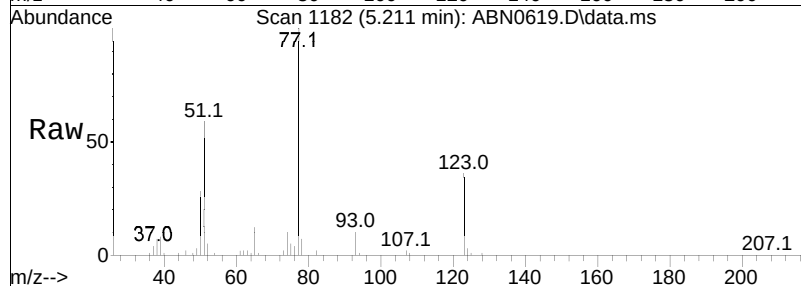
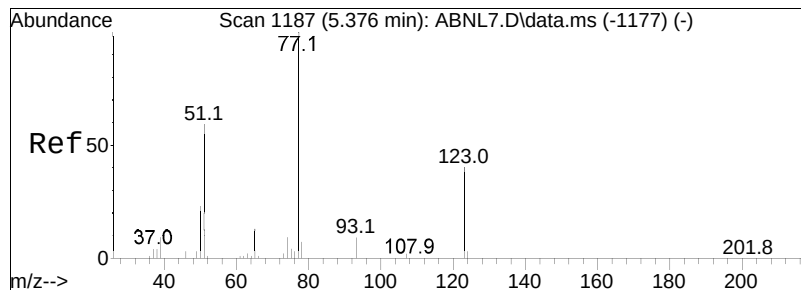




#18
 3-Methylphenol/4-Methylphenol
 Concen: 4.76 ug/ml
 RT: 5.089 min Scan# 1143
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

Tgt Ion:	108	Resp:	52006
Ion Ratio	Lower	Upper	
108	100		
107	114.3	88.6	132.8
90	10.9	8.8	13.2





#20

Nitrobenzene

Concen: 4.66 ug/ml

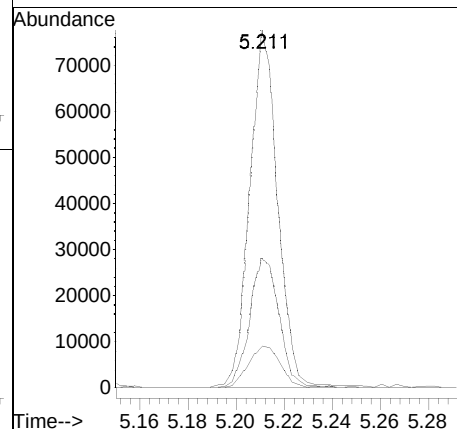
RT: 5.211 min Scan# 1182

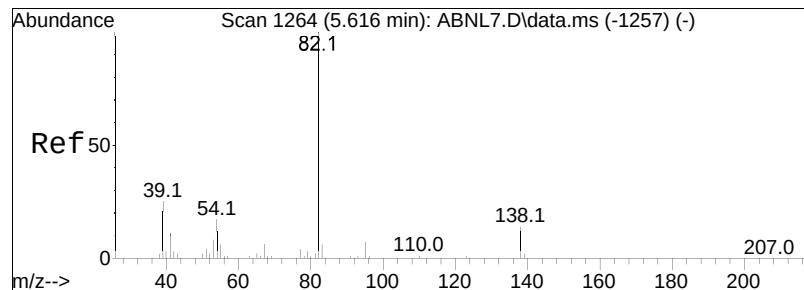
Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 10:48 am

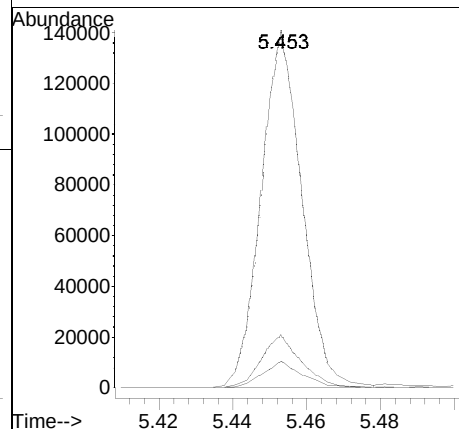
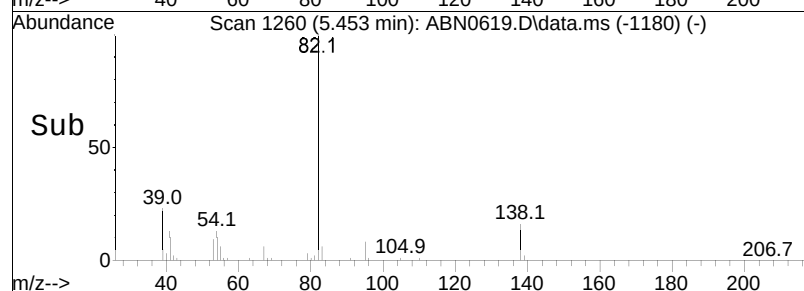
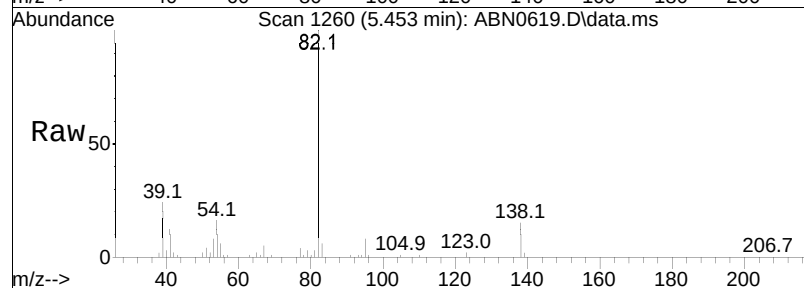
Tgt Ion:	77	Resp:	62292
Ion Ratio	Lower	Upper	
77	100		
123	38.2	36.3	54.5
65	13.5	11.6	17.4

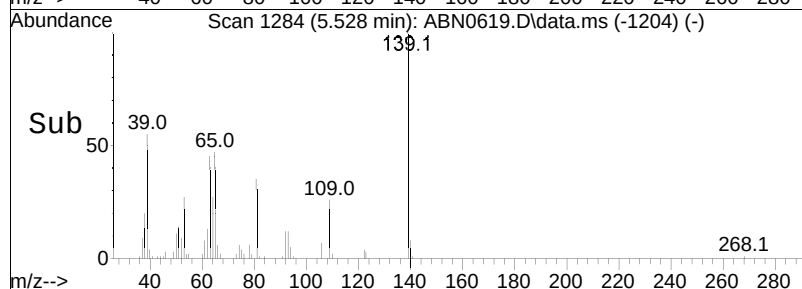
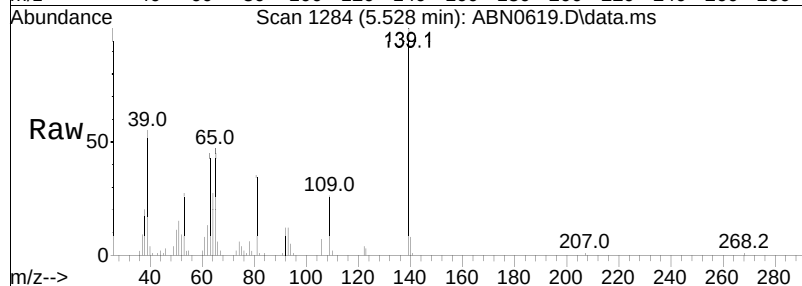
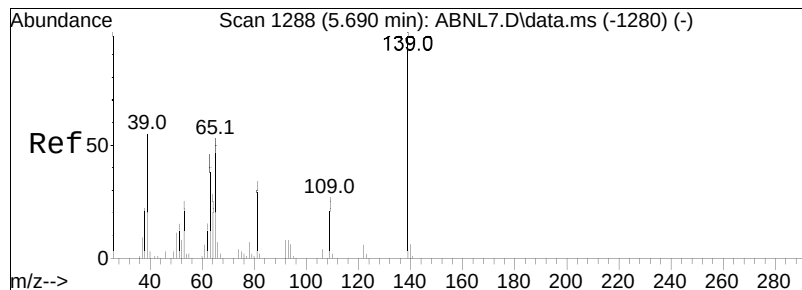




#21
 Isophorone
 Concen: 4.35 ug/ml
 RT: 5.453 min Scan# 1260
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

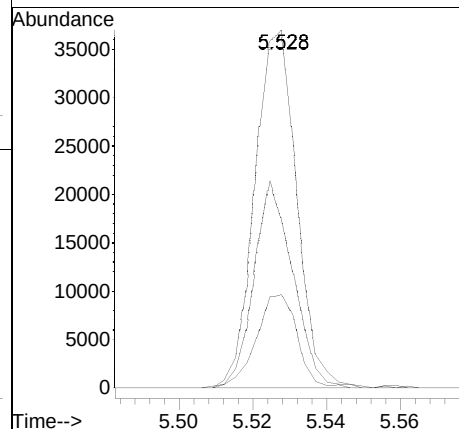
Tgt Ion:	82	Resp:	106824
Ion Ratio	Lower	Upper	
82	100		
138	14.4	14.7	22.1#
95	7.1	5.2	7.8

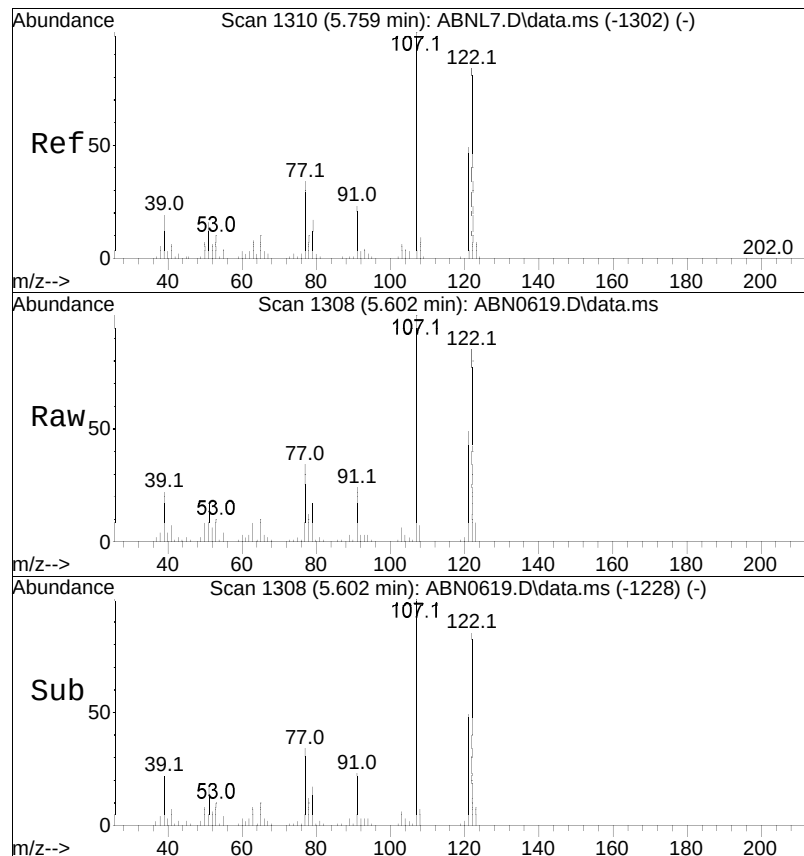




#22
 2-Nitrophenol
 Concen: 4.91 ug/ml
 RT: 5.528 min Scan# 1284
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

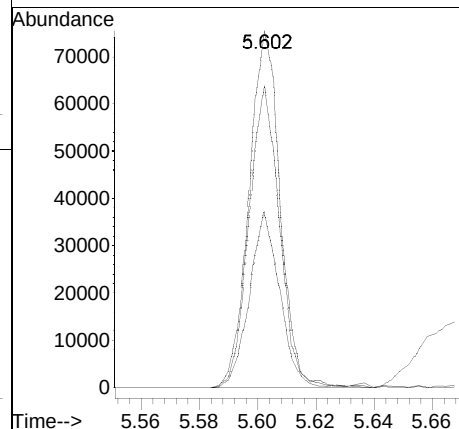
Tgt Ion	Ratio	Lower	Upper
139	100		
109	25.6	19.4	29.0
65	54.1	46.1	69.1

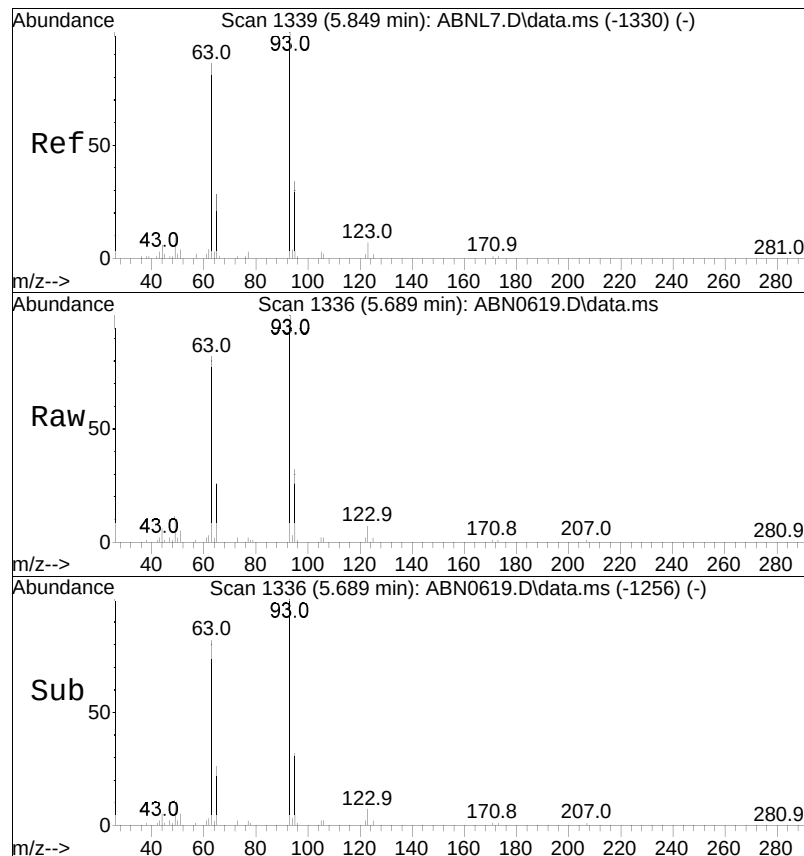




#23
 2,4-Dimethylphenol
 Concen: 4.73 ug/ml
 RT: 5.602 min Scan# 1308
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

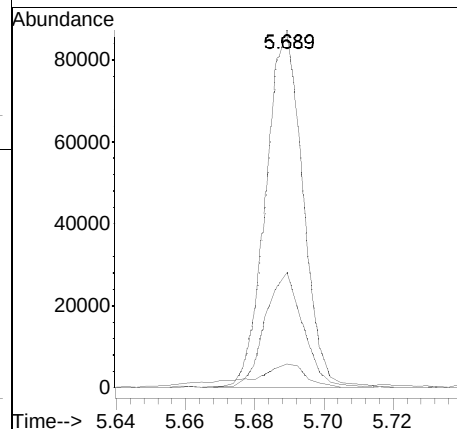
Tgt Ion	Ratio	Lower	Upper
107	100		
121	48.0	40.0	60.0
122	82.9	70.2	105.4

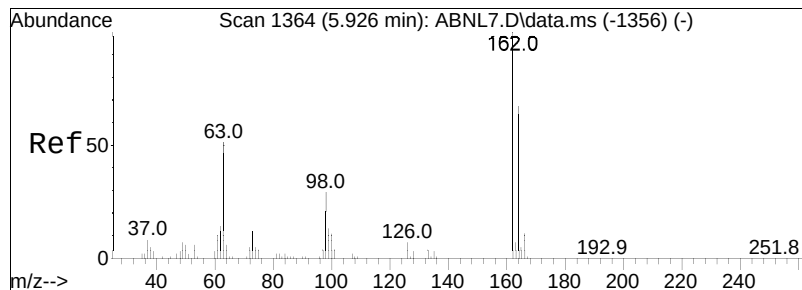




#24
 Bis(2-chloroethoxy)methane
 Concen: 4.45 ug/ml
 RT: 5.689 min Scan# 1336
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

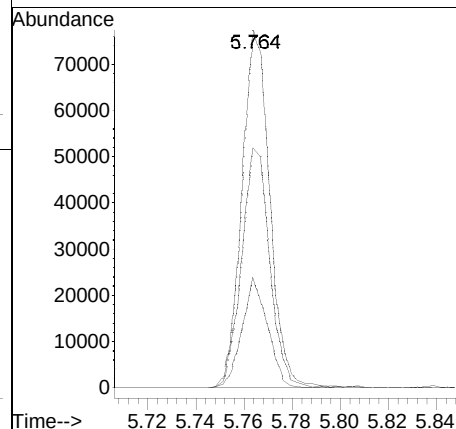
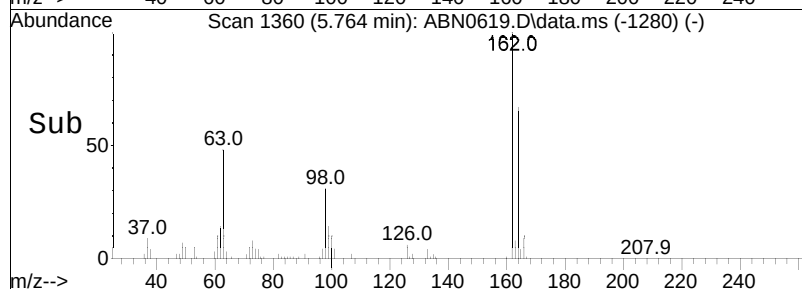
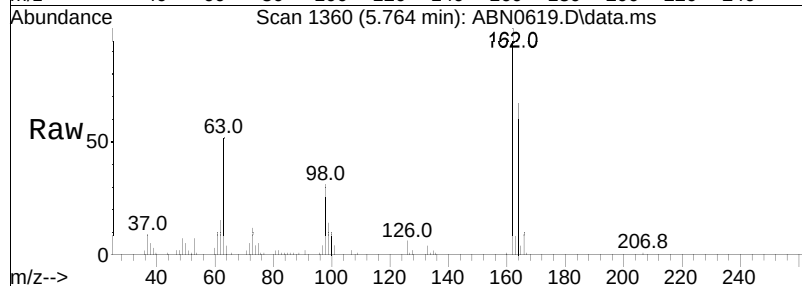
Tgt Ion:	93	Resp:	64403
Ion Ratio	Lower	Upper	
93	100		
95	33.2	25.8	38.8
123	10.3	10.1	15.1

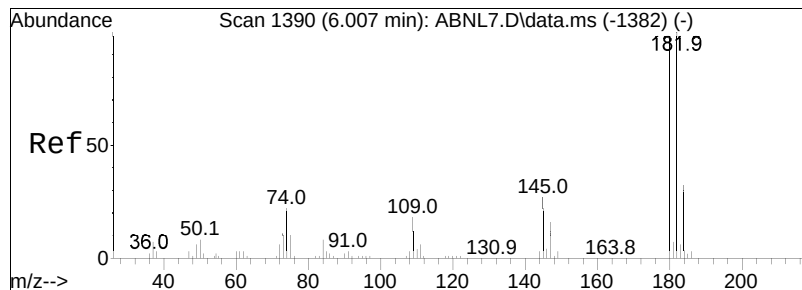




#25
 2,4-Dichlorophenol
 Concen: 5.04 ug/ml
 RT: 5.764 min Scan# 1360
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

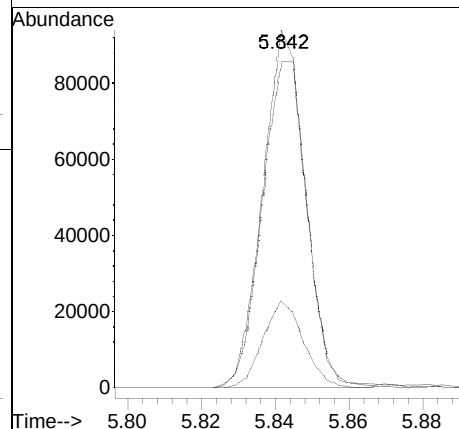
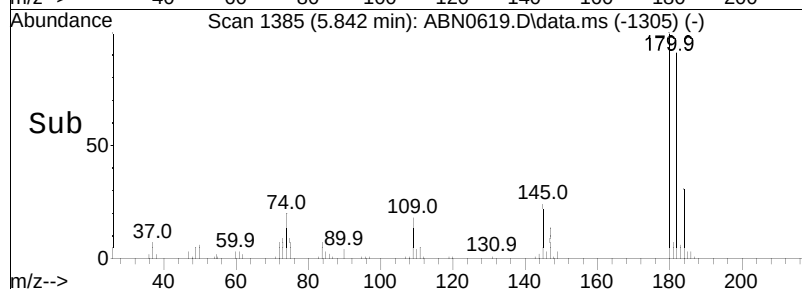
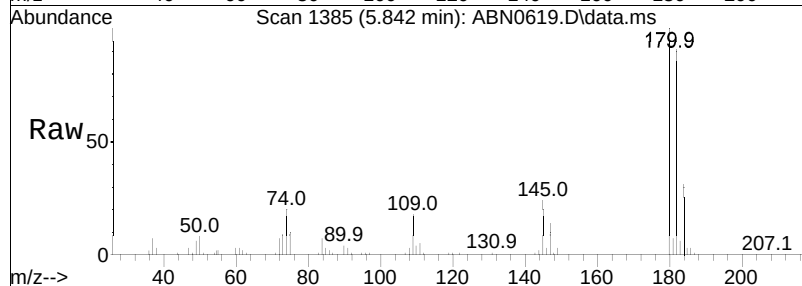
Tgt Ion	Ratio	Lower	Upper
162	100		
164	67.5	51.0	76.4
98	28.4	32.2	48.2#

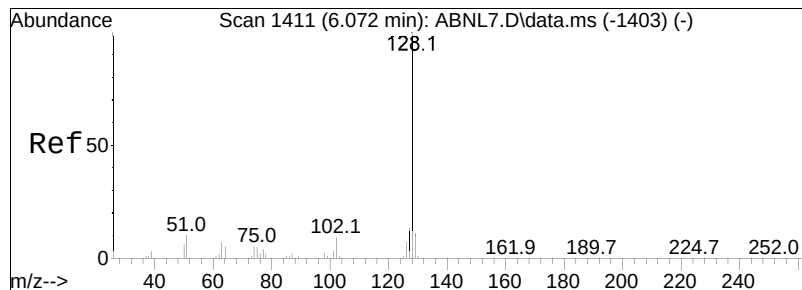




#26
 1,2,4-Trichlorobenzene
 Concen: 4.91 ug/ml
 RT: 5.842 min Scan# 1385
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

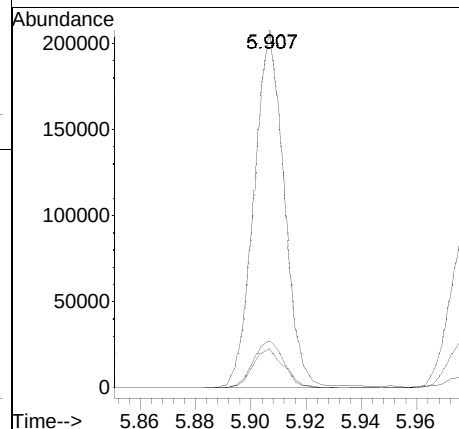
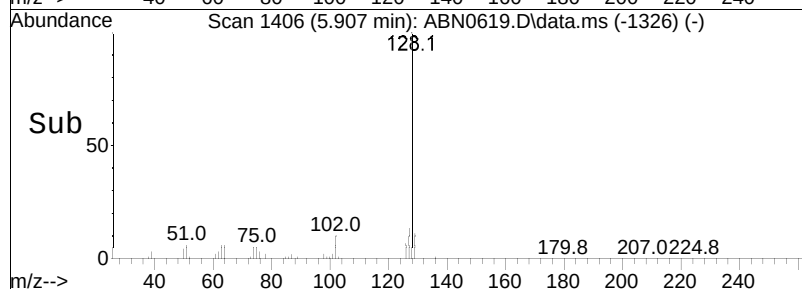
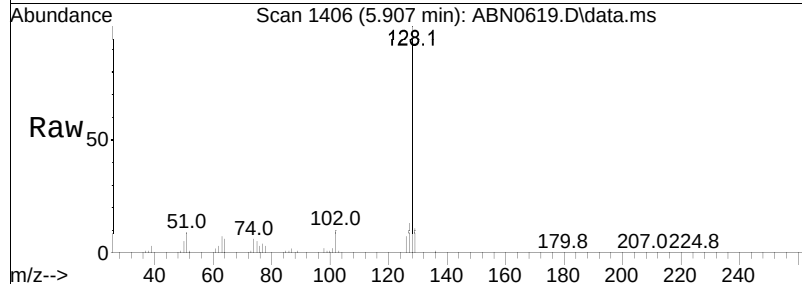
Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.0	114.0
145	23.1	25.7	38.5#

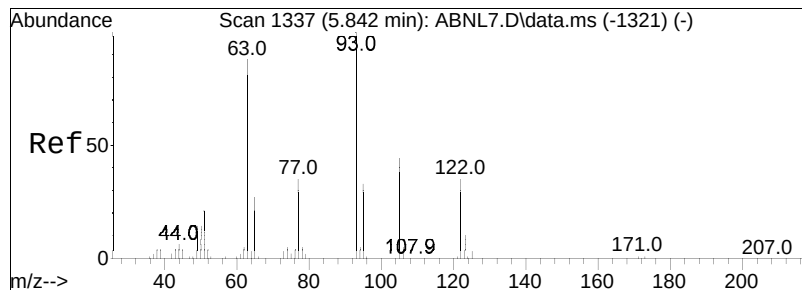




#38
 Naphthalene
 Concen: 4.35 ug/ml
 RT: 5.907 min Scan# 1406
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.7	13.1
127	13.6	10.3	15.5





#39

Benzoic Acid

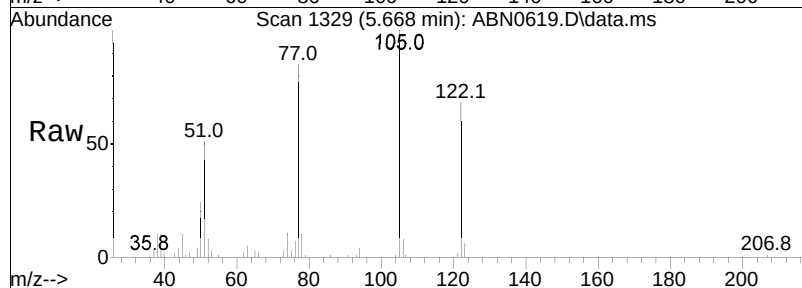
Concen: 4.61 ug/ml

RT: 5.668 min Scan# 1329

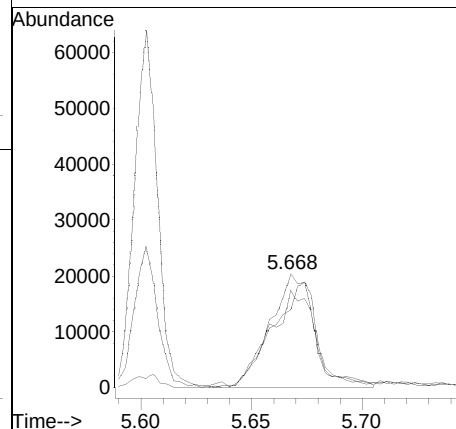
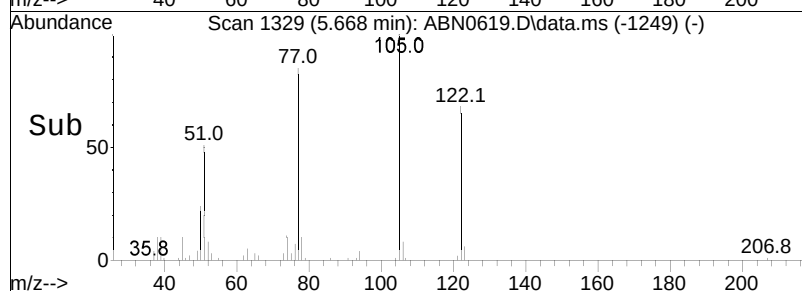
Delta R.T. 0.000 min

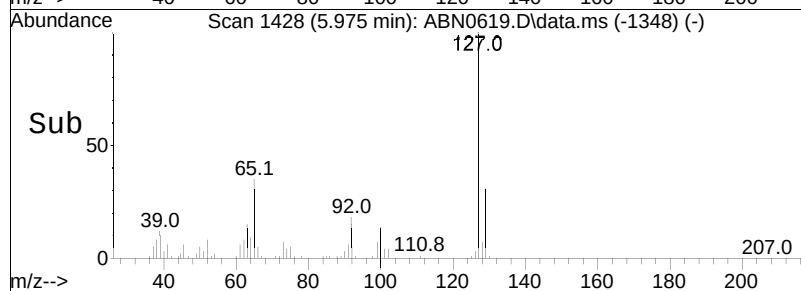
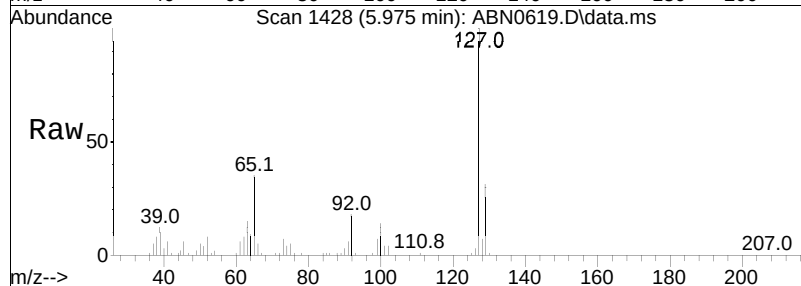
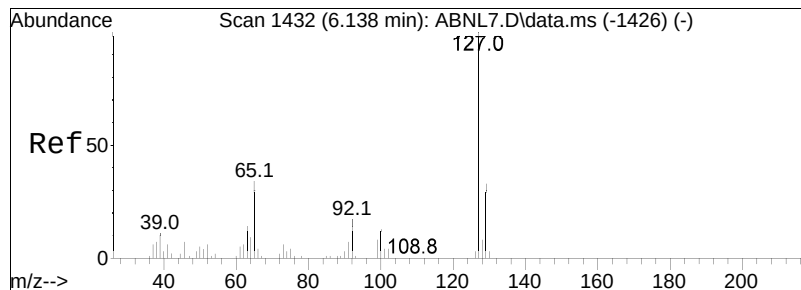
Lab File: ABN0619.D

Acq: 19 Jun 2025 10:48 am



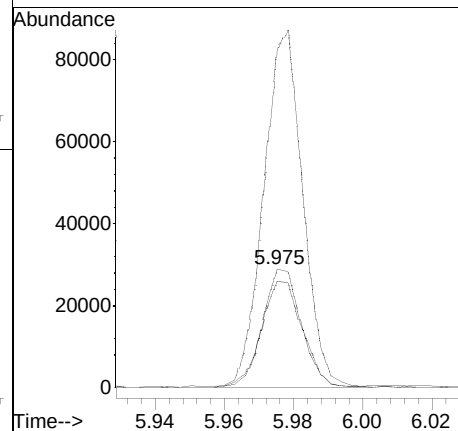
Tgt Ion:	105	Resp:	29585
Ion Ratio	Lower	Upper	
105	100		
122	83.7	59.9	89.9
77	86.5	60.1	90.1

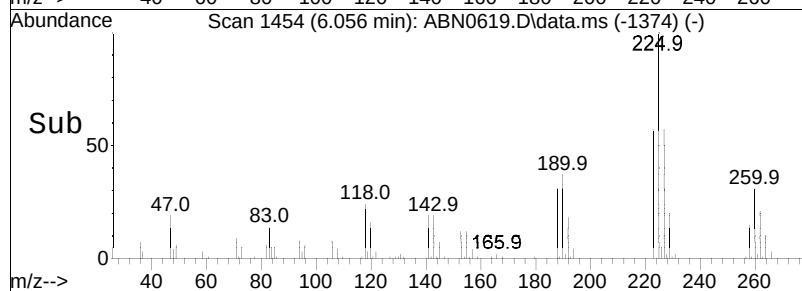
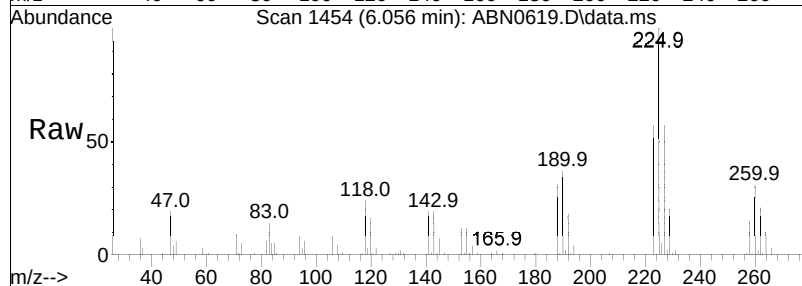
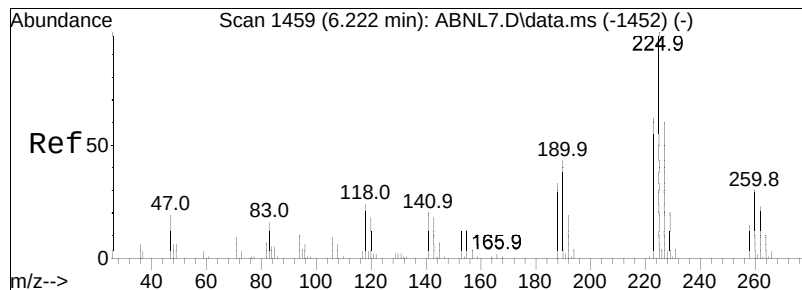




#40
 4-Chloroaniline
 Concen: 4.57 ug/ml
 RT: 5.975 min Scan# 1428
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

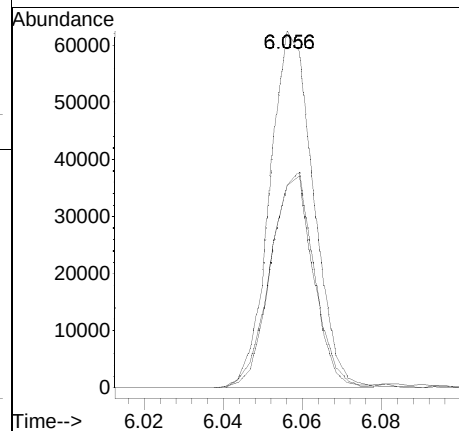
Tgt Ion	Ratio	Lower	Upper
65	100		
127	300.1	237.6	356.4
129	93.5	76.3	114.5

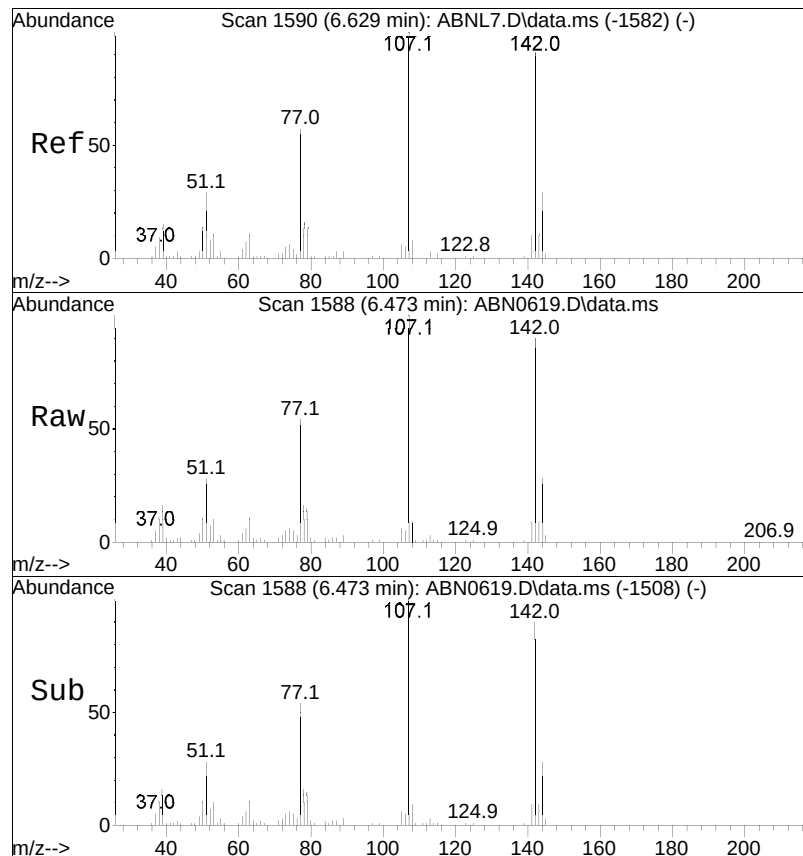




#41
 Hexachlorobutadiene
 Concen: 5.38 ug/ml
 RT: 6.056 min Scan# 1454
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

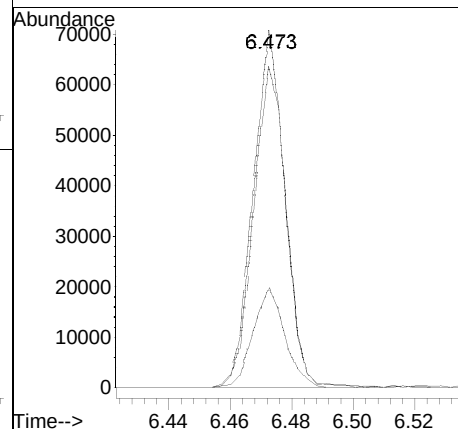
Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.2	50.3	75.5
227	60.7	52.2	78.2

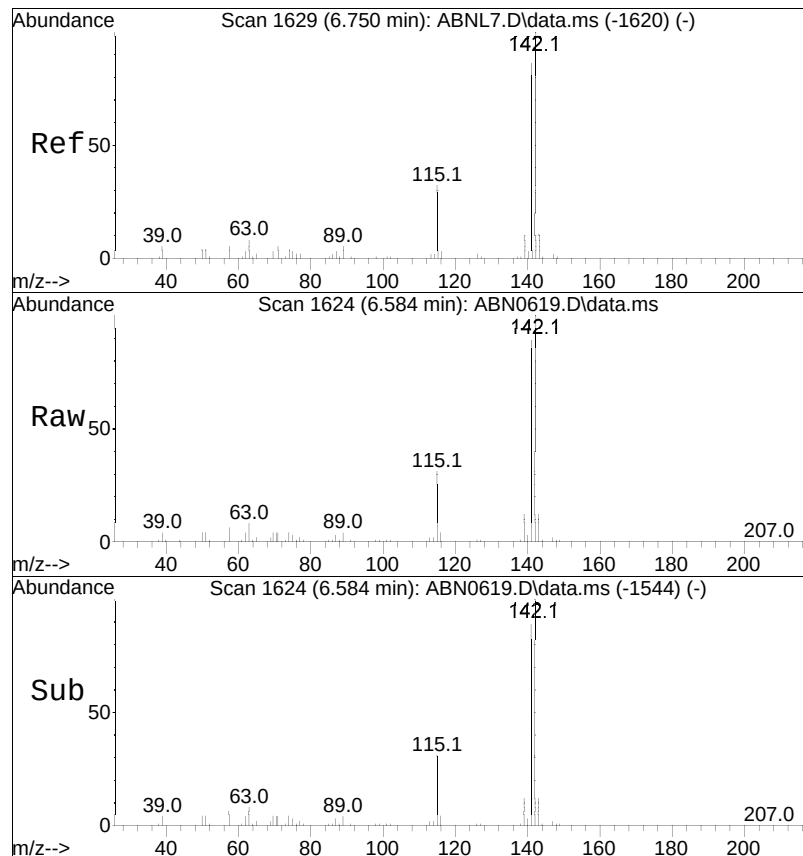




#42
 p-Chloro-m-cresol
 Concen: 4.97 ug/ml
 RT: 6.473 min Scan# 1588
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

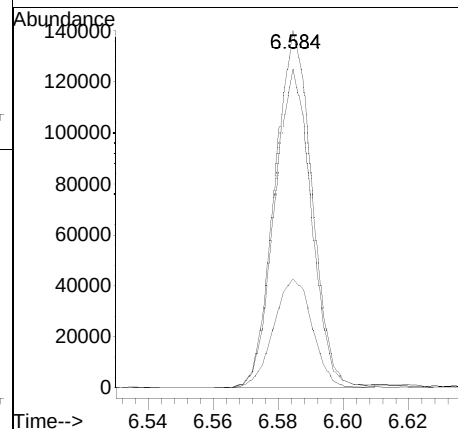
Tgt Ion:	107	Resp:	49913
Ion Ratio	Lower	Upper	
107	100		
144	28.3	20.9	31.3
142	93.6	66.1	99.1

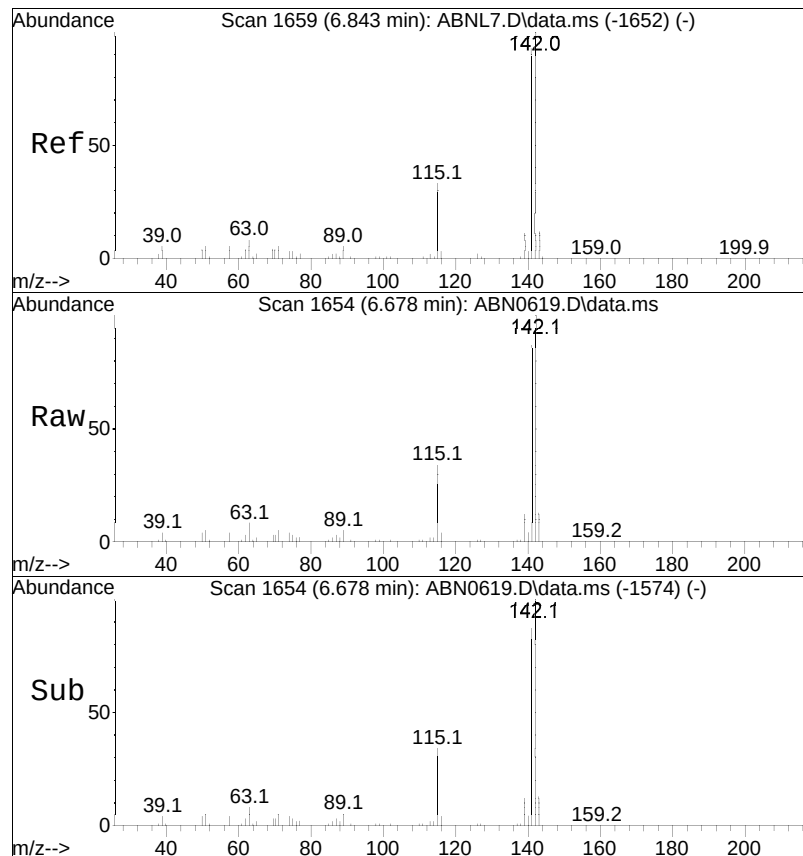




#43
 2-Methylnaphthalene
 Concen: 4.72 ug/ml
 RT: 6.584 min Scan# 1624
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

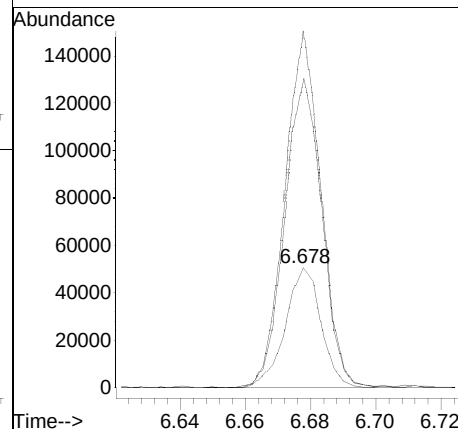
Tgt Ion	Ratio	Resp	Lower	Upper
142	100	110995		
141	89.2		69.6	104.4
115	31.9		26.6	40.0

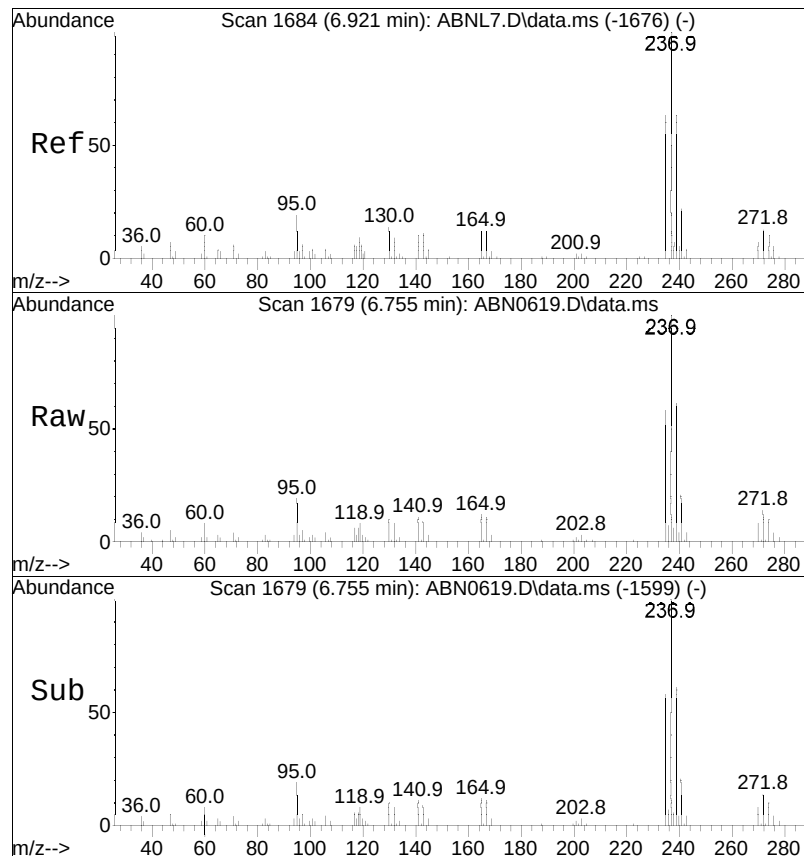




#44
 1-Methylnaphthalene
 Concen: 4.91 ug/ml
 RT: 6.678 min Scan# 1654
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

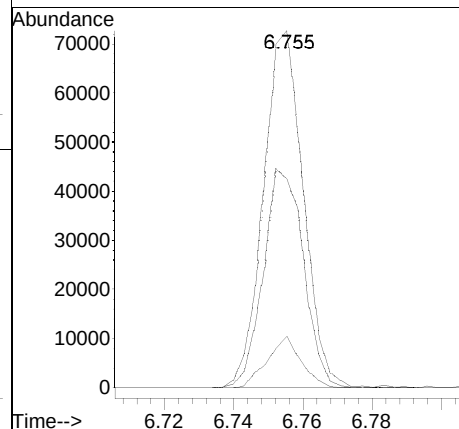
Tgt Ion	Ratio	Lower	Upper
115	100		
141	261.5	207.8	311.6
142	293.2	226.8	340.2

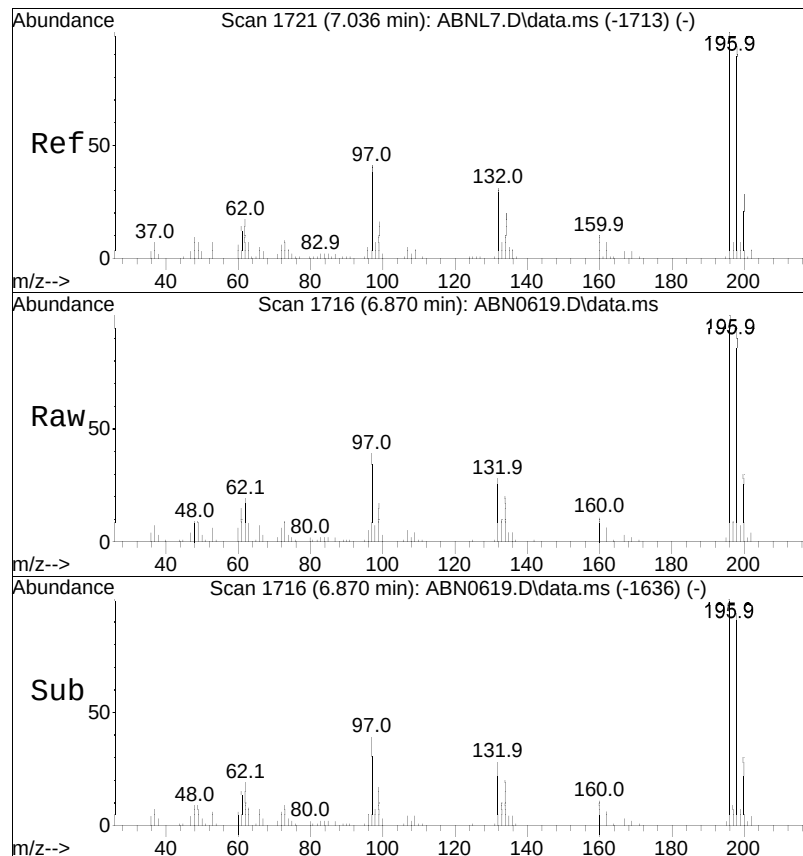




#45
 Hexachlorocyclopentadiene
 Concen: 4.81 ug/ml
 RT: 6.755 min Scan# 1679
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

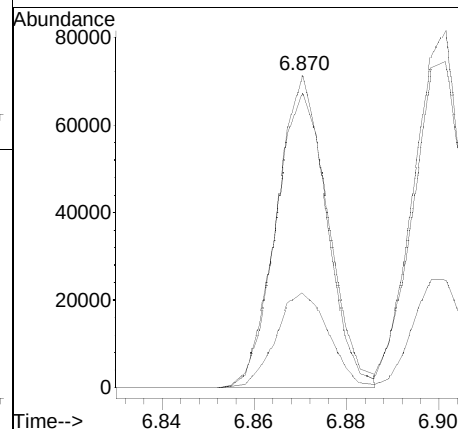
Tgt Ion:	237	Resp:	57892
Ion Ratio	Lower	Upper	
237	100		
235	61.8	49.7	74.5
272	12.5	9.8	14.6

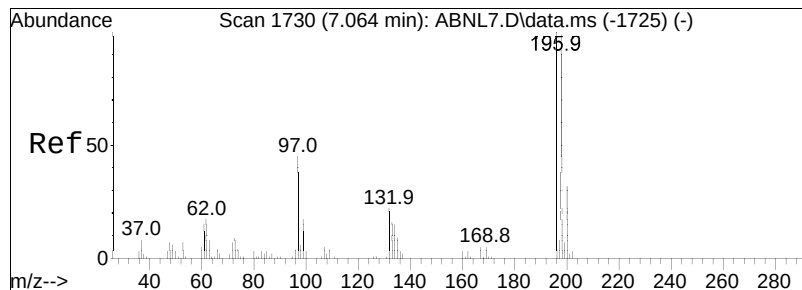




#46
 2,4,6-Trichlorophenol
 Concen: 5.28 ug/ml
 RT: 6.870 min Scan# 1716
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

Tgt Ion:	196	Resp:	55001
Ion Ratio	Lower	Upper	
196	100		
198	95.2	77.5	116.3
200	31.4	23.8	35.6





#47

2,4,5-Trichlorophenol

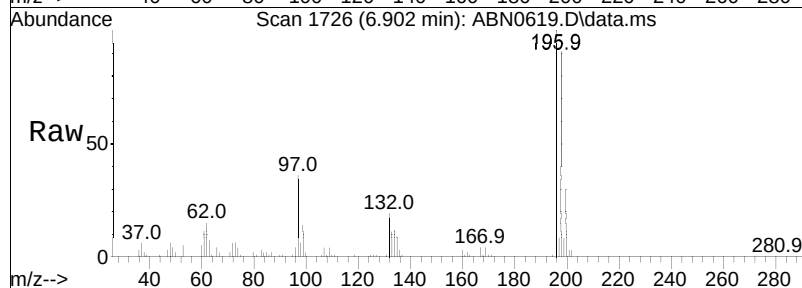
Concen: 5.39 ug/ml

RT: 6.902 min Scan# 1726

Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 10:48 am



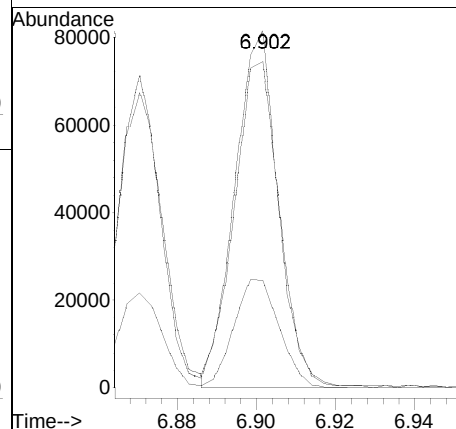
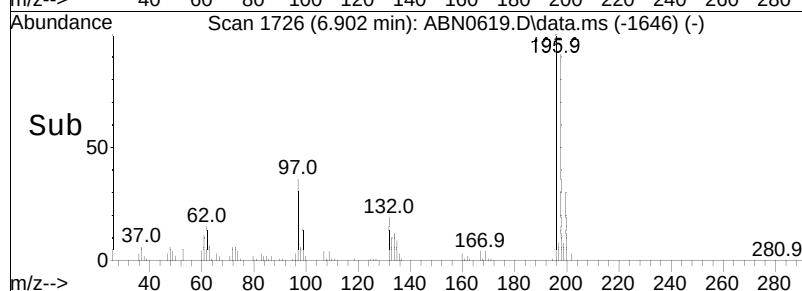
Tgt Ion:196 Resp: 62346

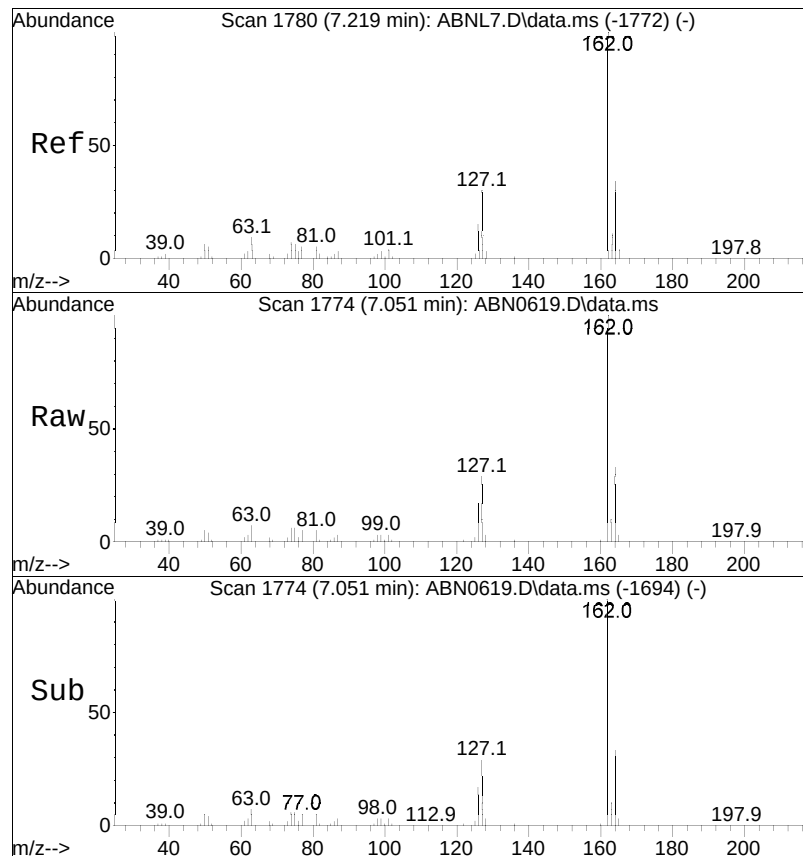
Ion Ratio Lower Upper

196 100

200 31.9 25.4 38.0

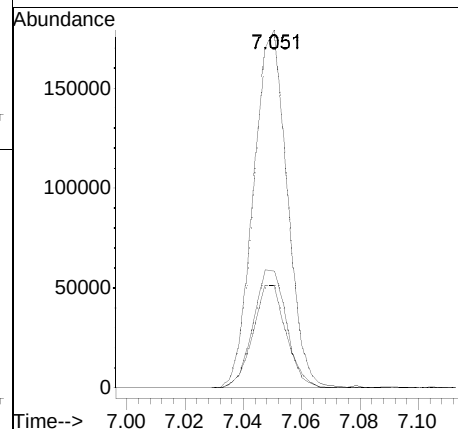
198 94.4 78.0 117.0

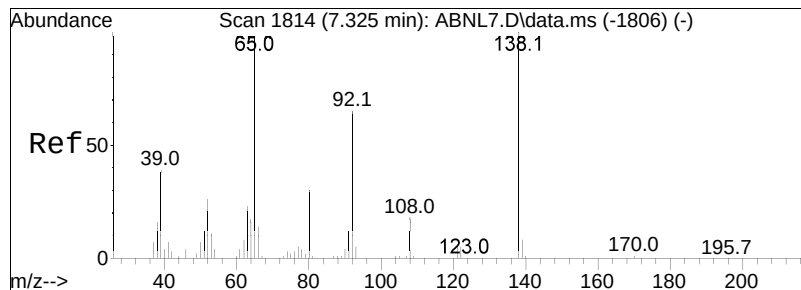




#49
 2-Chloronaphthalene
 Concen: 4.83 ug/ml
 RT: 7.051 min Scan# 1774
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

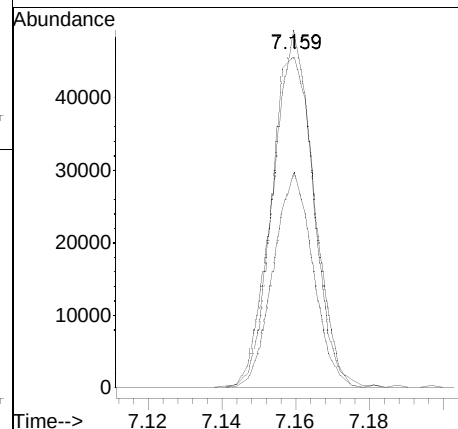
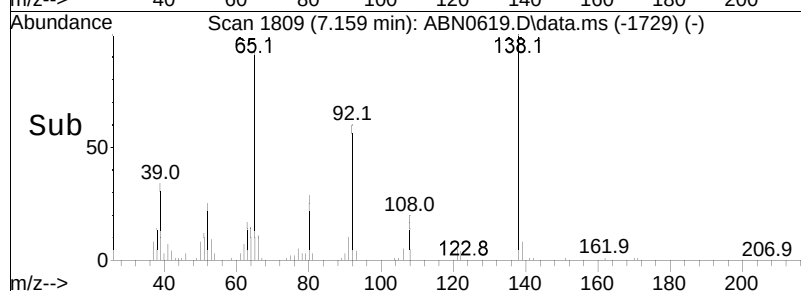
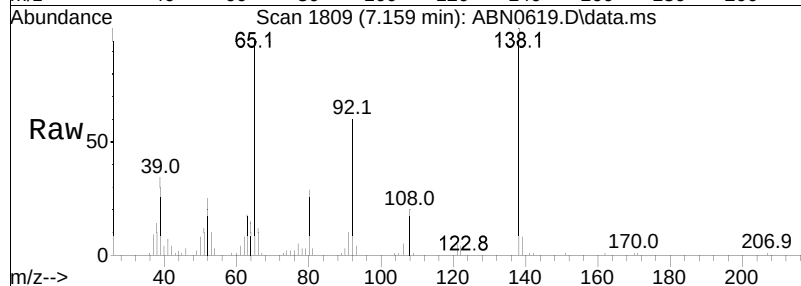
Tgt Ion	Ratio	Resp	Lower	Upper
162	100	142979		
127	28.5		32.2	48.4#
164	32.9		25.7	38.5

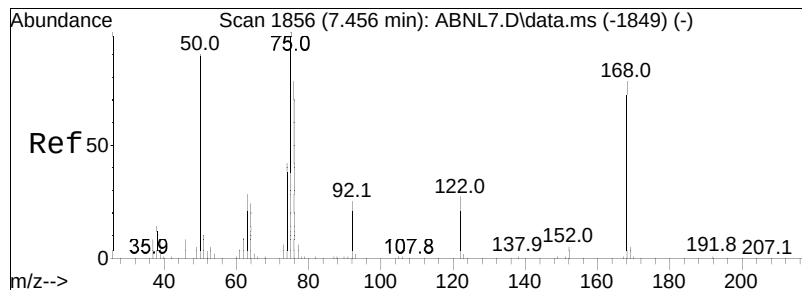




#50
 2-Nitroaniline
 Concen: 4.92 ug/ml
 RT: 7.159 min Scan# 1809
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

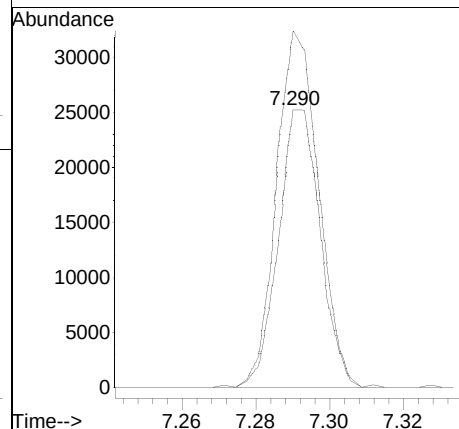
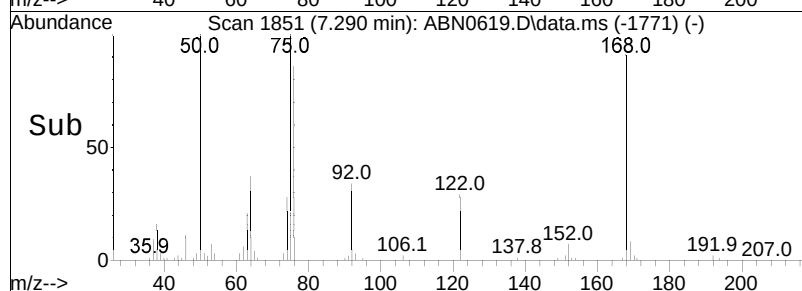
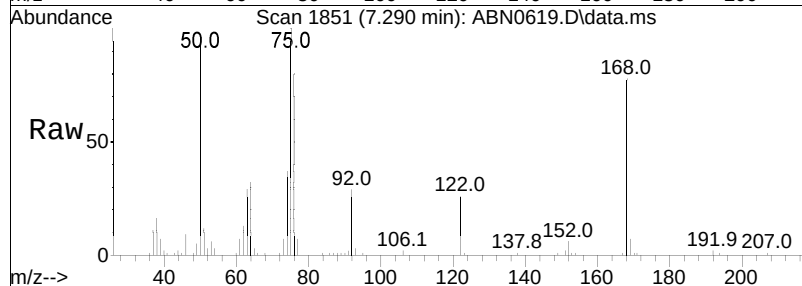
Tgt	Ion:138	Resp:	37187
Ion	Ratio	Lower	Upper
138	100		
92	59.6	53.5	80.3
65	100.6	86.3	129.5

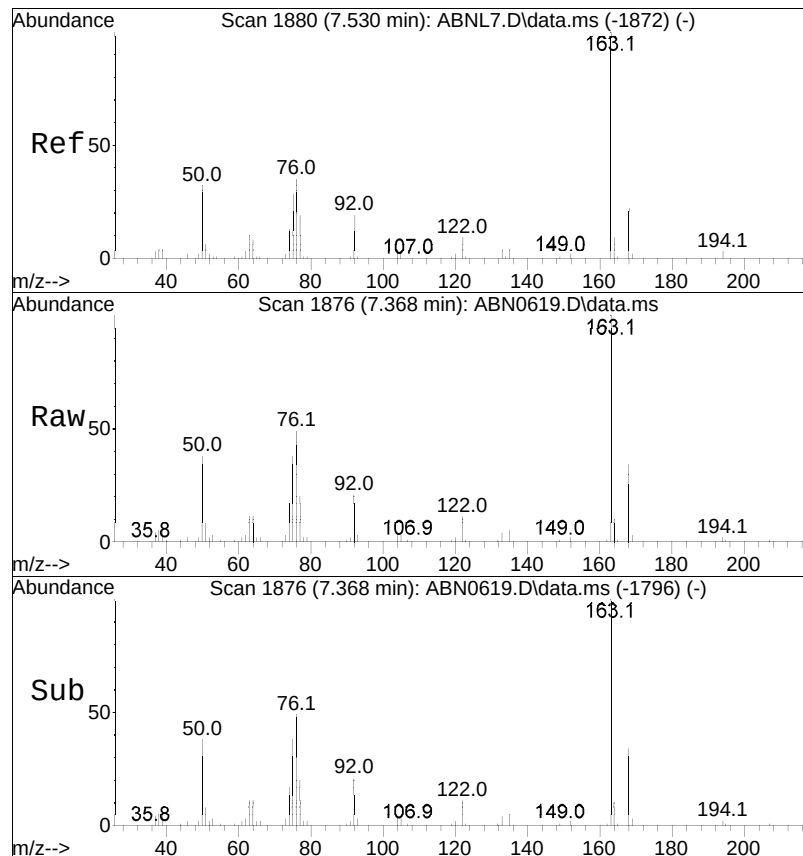




#51
 1,4-Dinitrobenzene
 Concen: 5.10 ug/ml
 RT: 7.290 min Scan# 1851
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

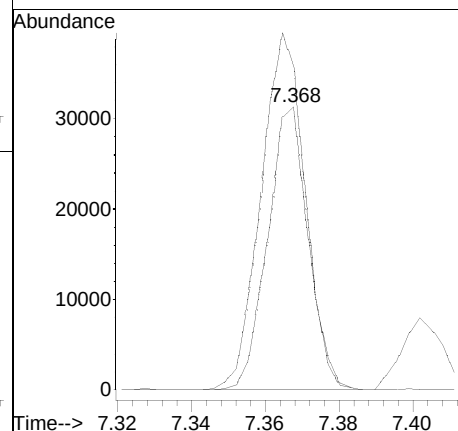
Tgt Ion	Ratio	Lower	Upper
168	100		
75	129.3	121.8	182.8

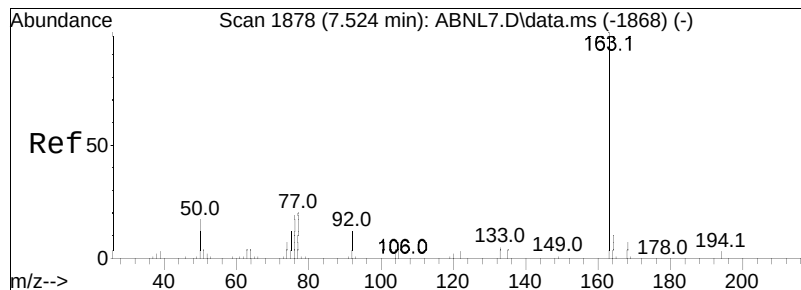




#52
 1,3-Dinitrobenzene
 Concen: 4.97 ug/ml
 RT: 7.368 min Scan# 1876
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

Tgt Ion	Ratio	Lower	Upper
168	100		
75	138.3	22.7	34.1#





#53

Dimethyl phthalate

Concen: 4.82 ug/ml

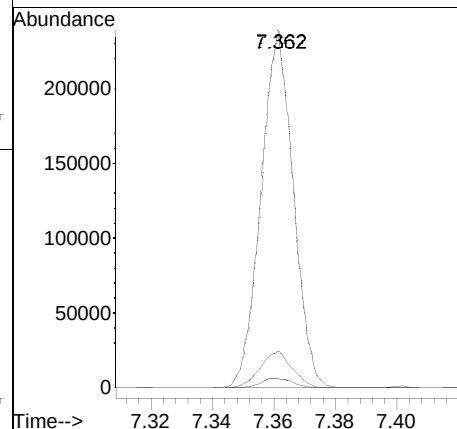
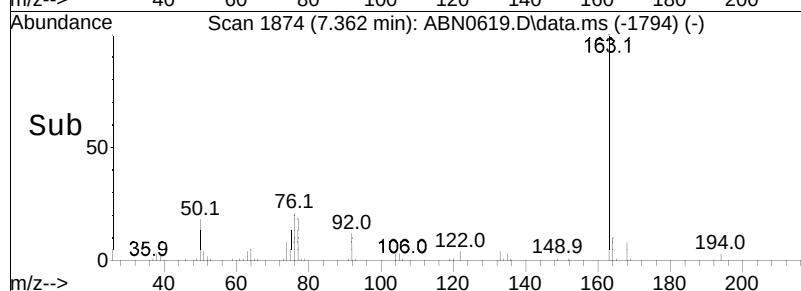
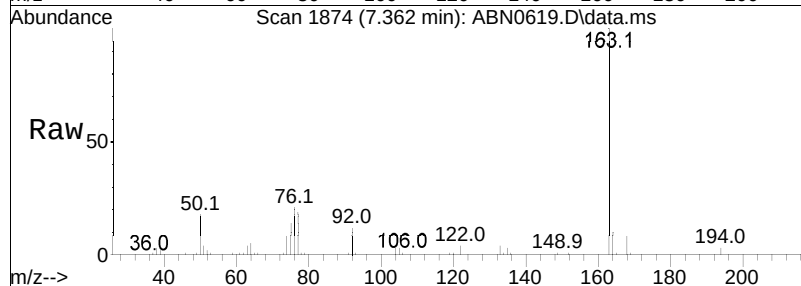
RT: 7.362 min Scan# 1874

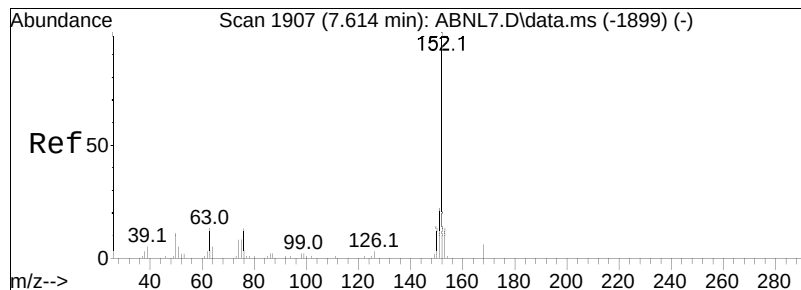
Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 10:48 am

Tgt	Ion:163	Resp:	171997
Ion	Ratio	Lower	Upper
163	100		
194	2.7	3.5	5.3#
164	10.3	7.9	11.9





#54

Acenaphthylene

Concen: 4.72 ug/ml

RT: 7.445 min Scan# 1901

Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 10:48 am

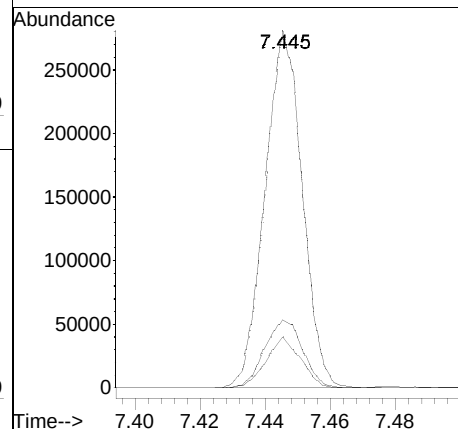
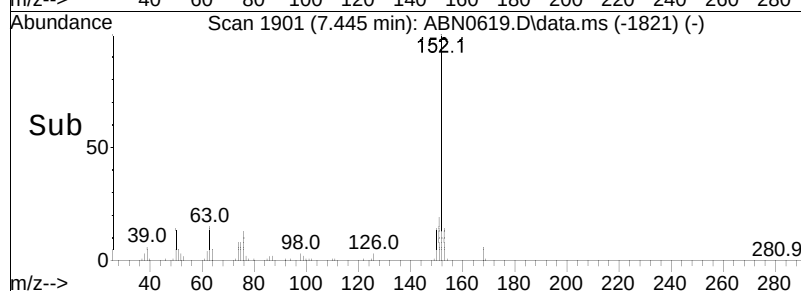
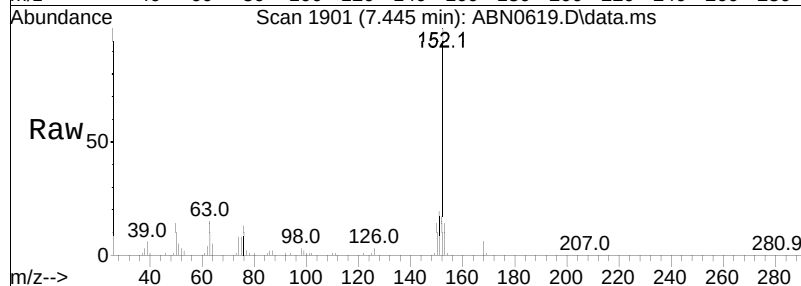
Tgt Ion:152 Resp: 221273

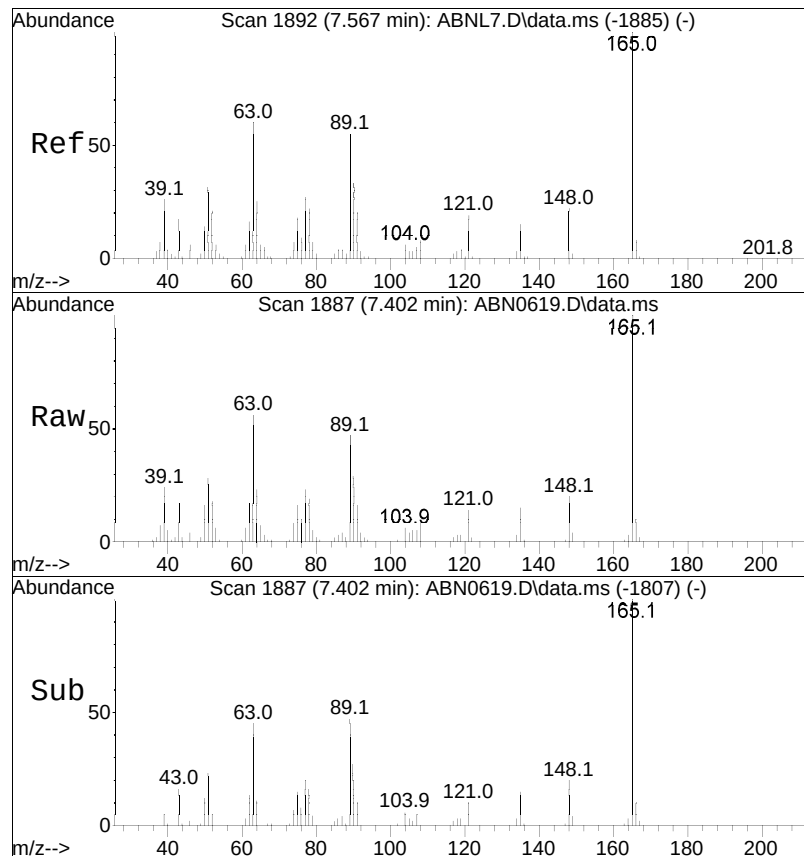
Ion Ratio Lower Upper

152 100

151 19.7 15.8 23.6

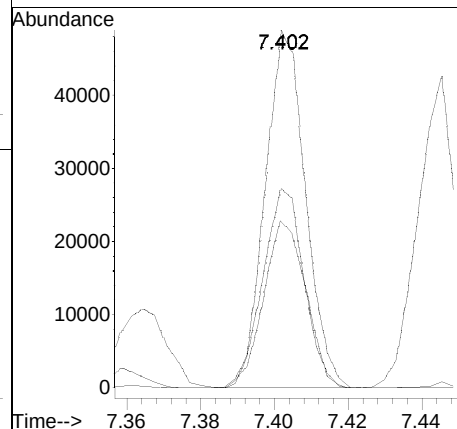
153 13.3 10.5 15.7

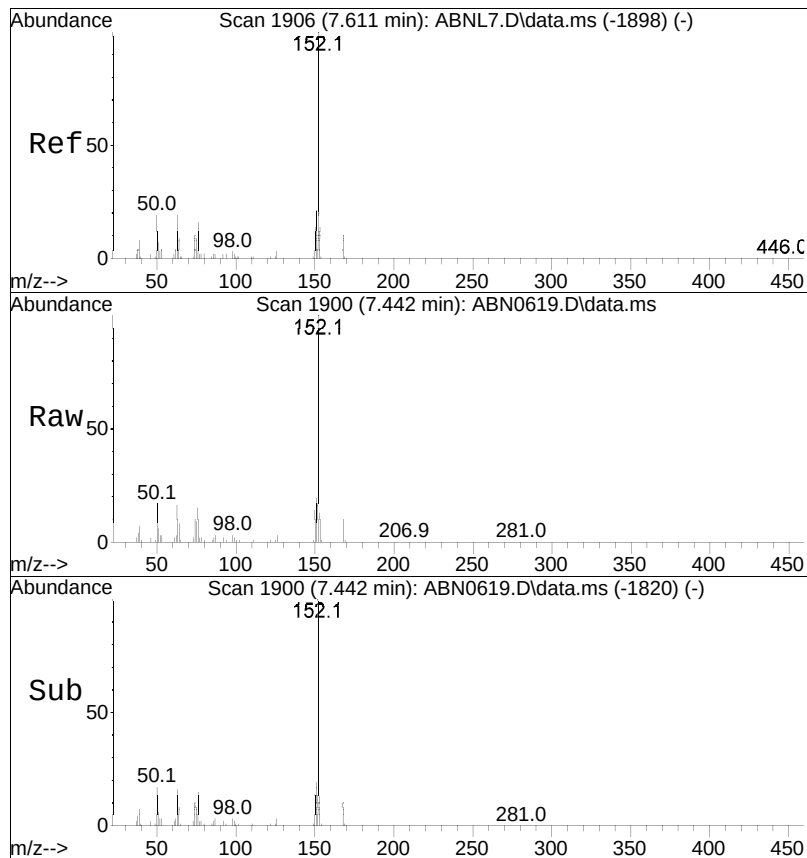




#55
 2,6-Dinitrotoluene
 Concen: 5.21 ug/ml
 RT: 7.402 min Scan# 1887
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

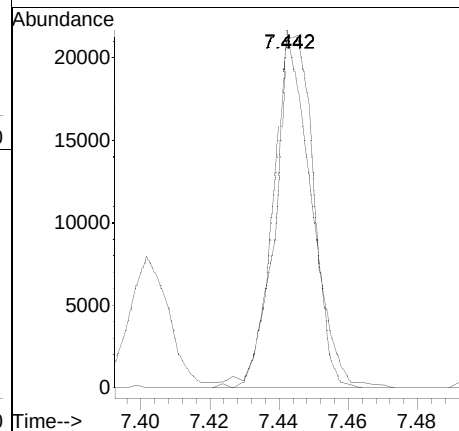
Tgt Ion:	165	Resp:	37202
Ion Ratio	Lower	Upper	
165	100		
89	48.2	54.2	81.2#
63	56.9	64.2	96.2#

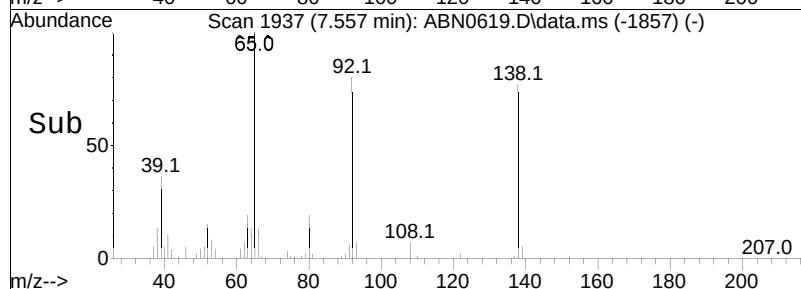
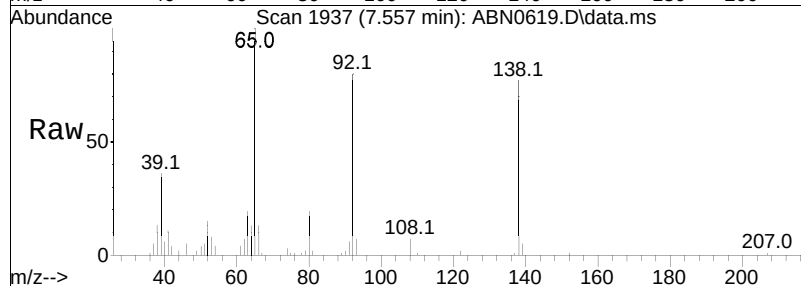
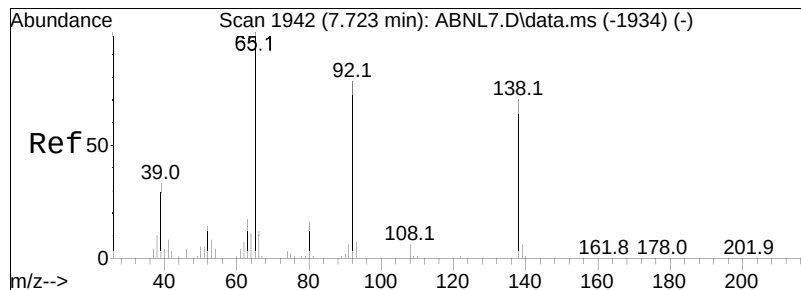




#56
 1,2-Dinitrobenzene
 Concen: 5.06 ug/ml
 RT: 7.442 min Scan# 1900
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

Tgt Ion	Ratio	Lower	Upper
168	100		
75	118.1	30.9	46.3#





#66

3-Nitroaniline

Concen: 4.93 ug/ml

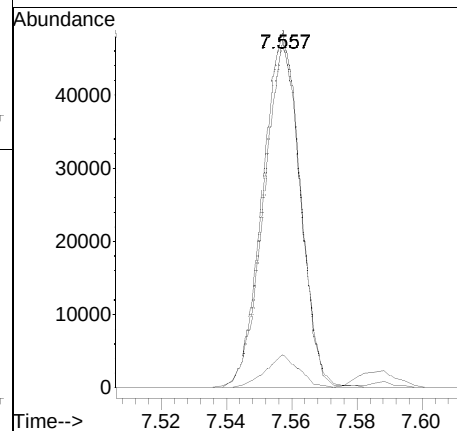
RT: 7.557 min Scan# 1937

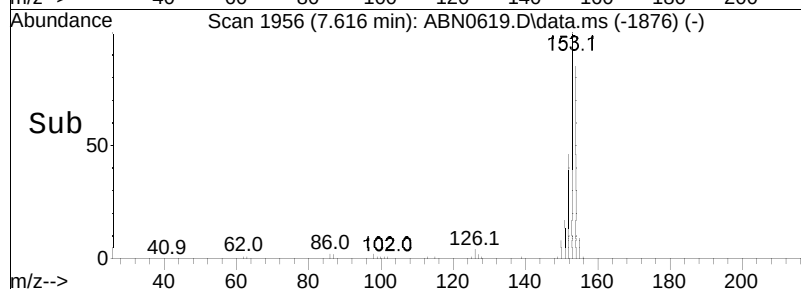
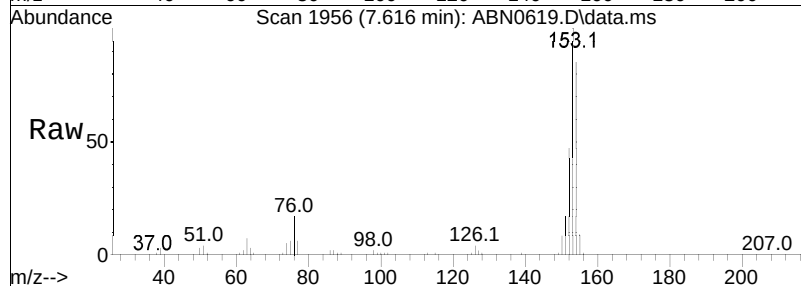
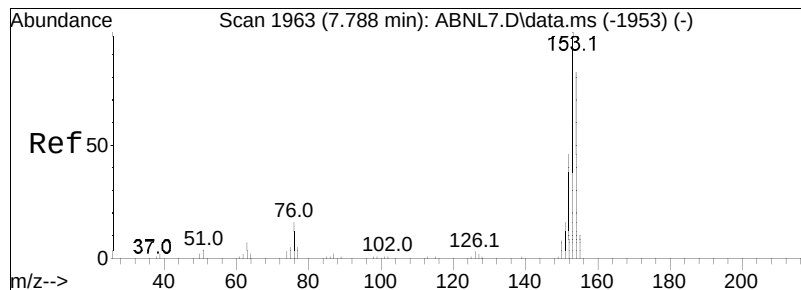
Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 10:48 am

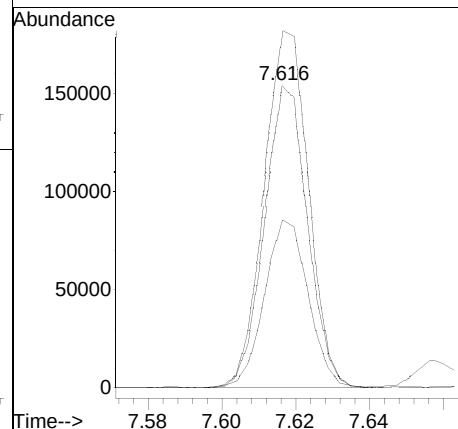
Tgt Ion	Ratio	Resp	Lower	Upper
138	100	36341		
92	106.1		93.4	140.2
108	8.6		9.5	14.3#

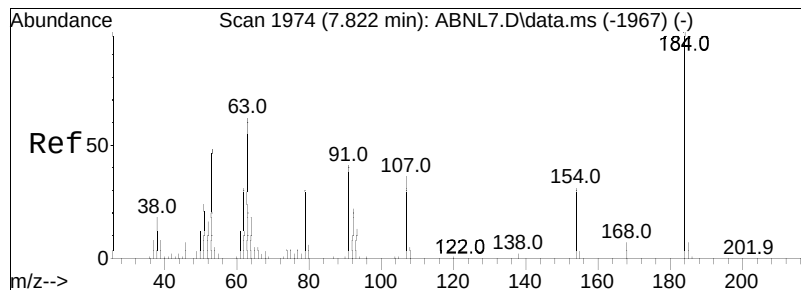




#67
 Acenaphthene
 Concen: 4.40 ug/ml
 RT: 7.616 min Scan# 1956
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

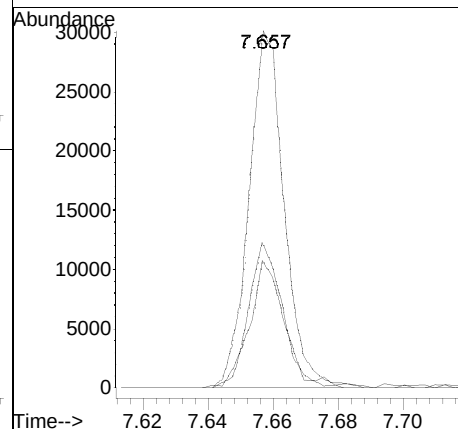
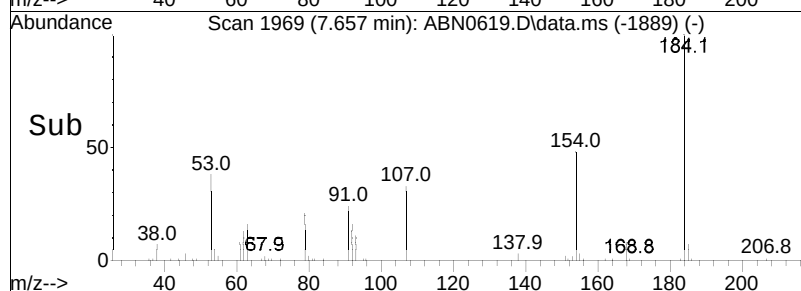
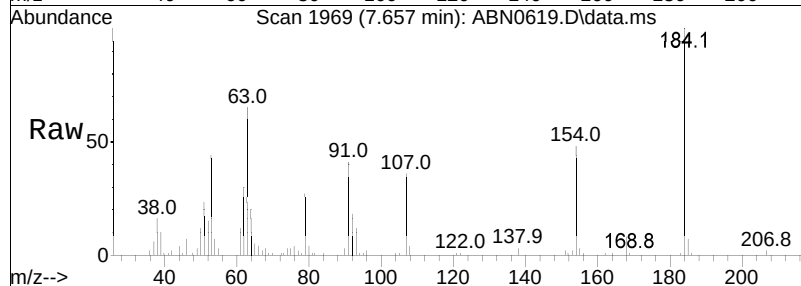
Tgt Ion	Ratio	Lower	Upper
154	100		
153	121.9	85.3	127.9
152	56.9	41.4	62.0

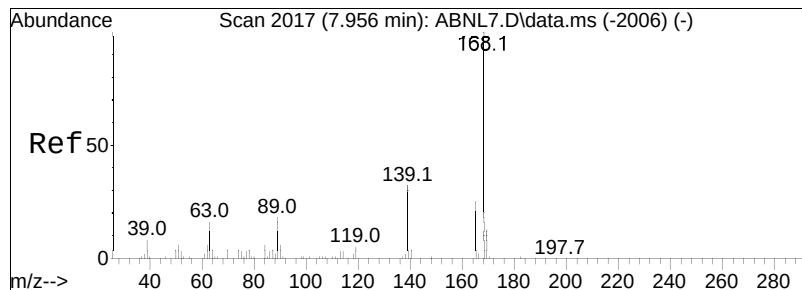




#68
 2,4-Dinitrophenol
 Concen: 4.43 ug/ml
 RT: 7.657 min Scan# 1969
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

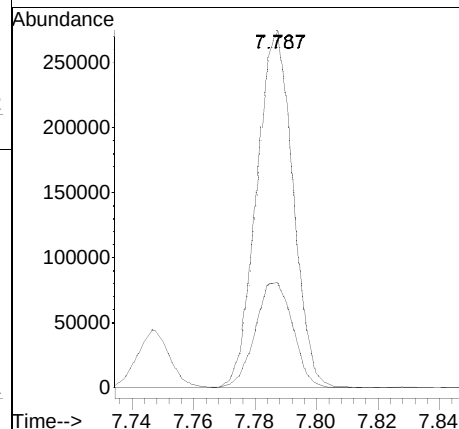
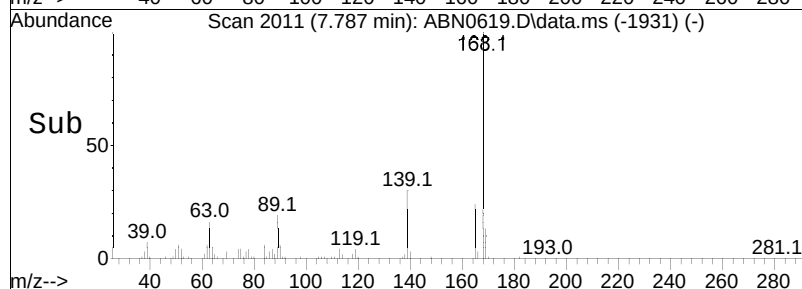
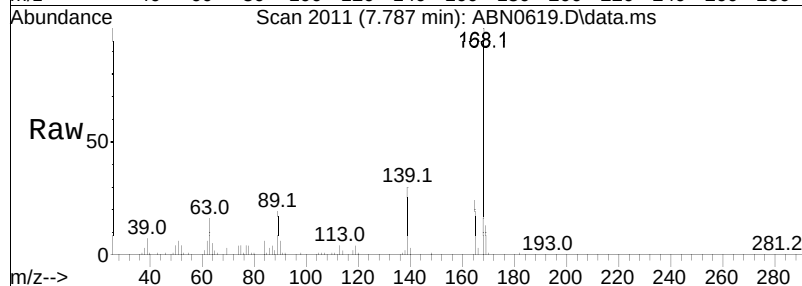
Tgt Ion	Ratio	Lower	Upper
184	100		
107	35.0	37.7	56.5#
91	39.9	46.3	69.5#

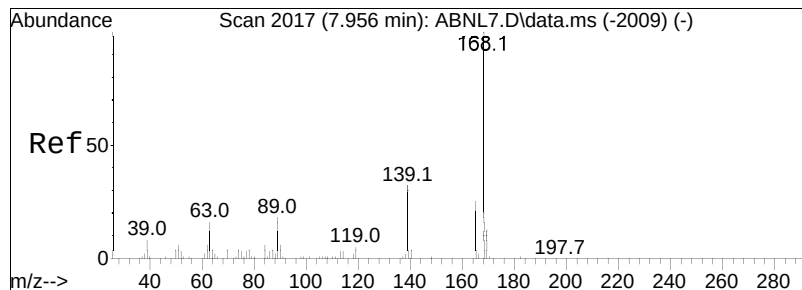




#69
Dibenzofuran
Concen: 4.41 ug/ml
RT: 7.787 min Scan# 2011
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2025 10:48 am

Tgt Ion	Ratio	Lower	Upper
168	100		
139	30.7	31.4	47.2#





#70

2,4-Dinitrotoluene

Concen: 4.81 ug/ml

RT: 7.787 min Scan# 2011

Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 10:48 am

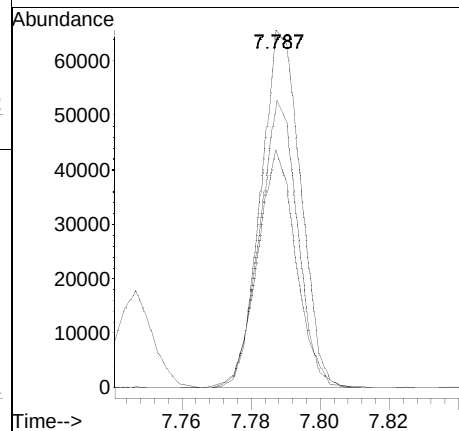
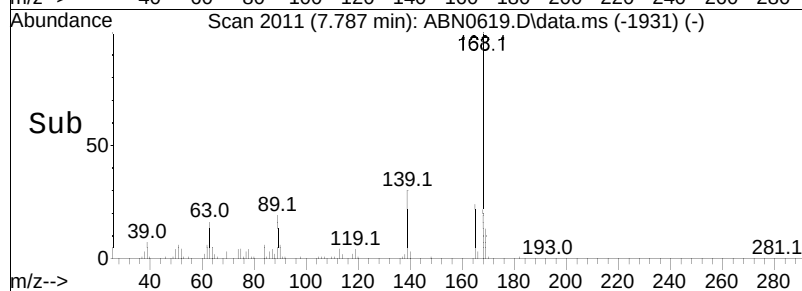
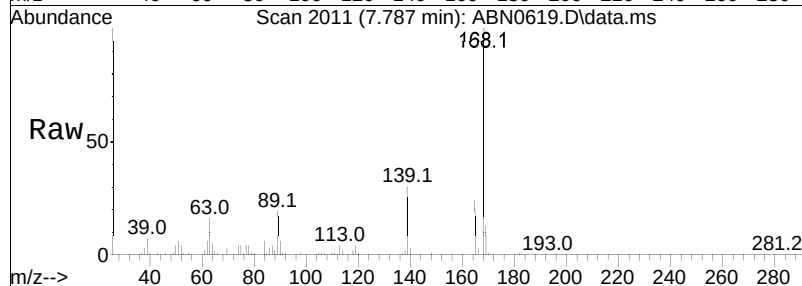
Tgt Ion:165 Resp: 52204

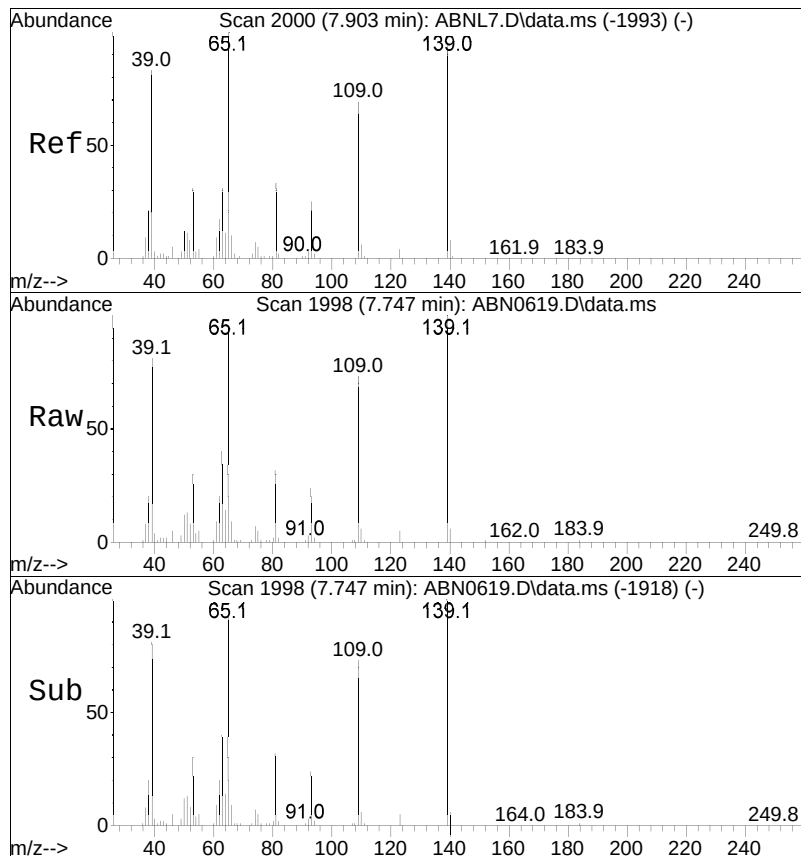
Ion Ratio Lower Upper

165 100

89 76.7 72.0 108.0

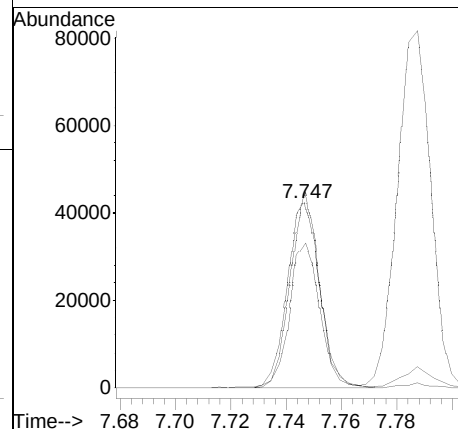
63 65.1 52.7 79.1

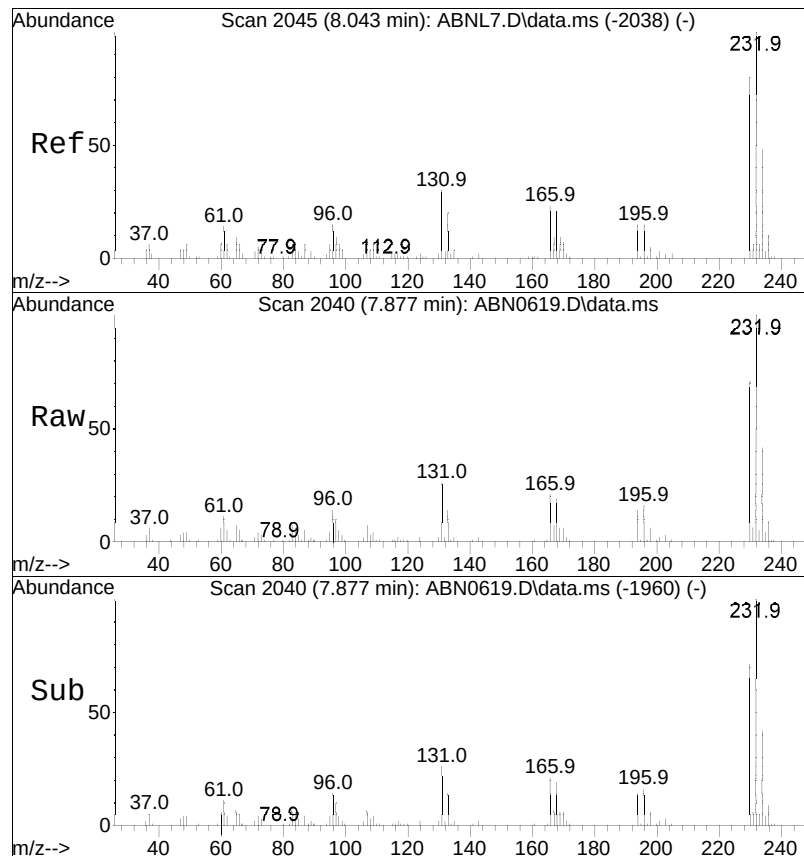




#71
 4-Nitrophenol
 Concen: 5.13 ug/ml
 RT: 7.747 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

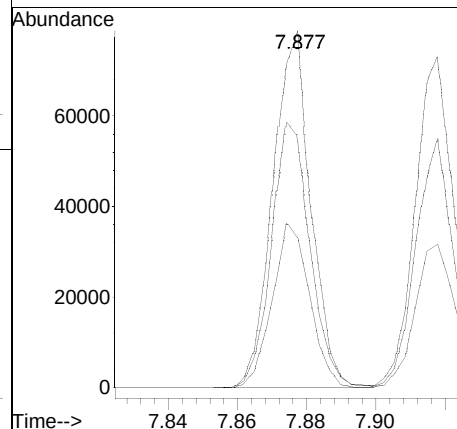
Tgt Ion:	65	Resp:	34308
Ion Ratio	Lower	Upper	
65	100		
109	73.6	47.4	71.2#
139	95.5	76.6	115.0

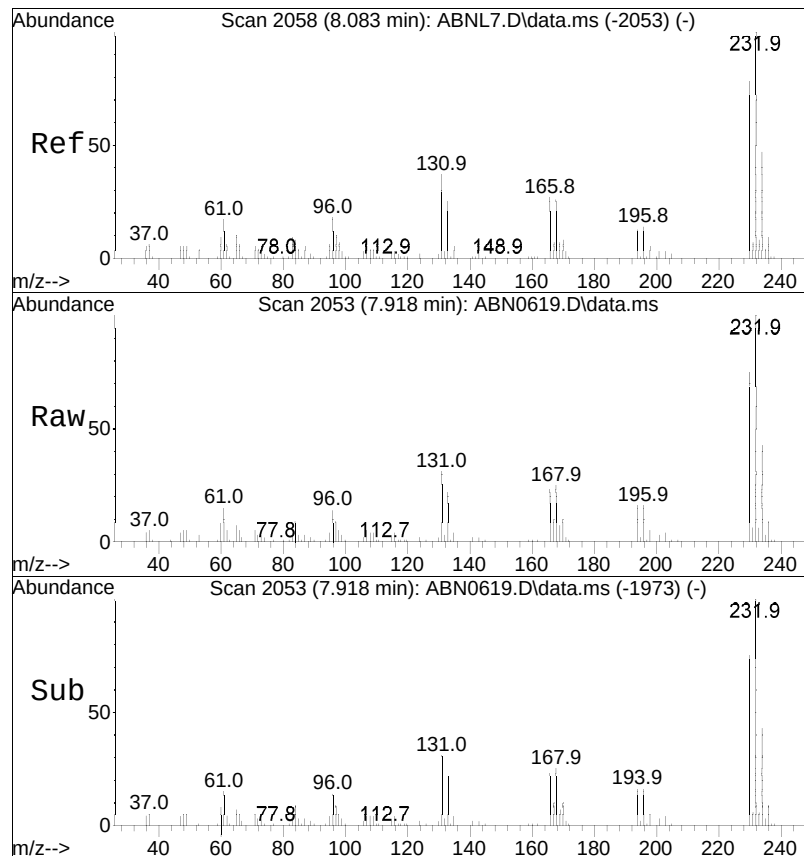




#72
 2,3,5,6-Tetrachlorophenol
 Concen: 5.51 ug/ml
 RT: 7.877 min Scan# 2040
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

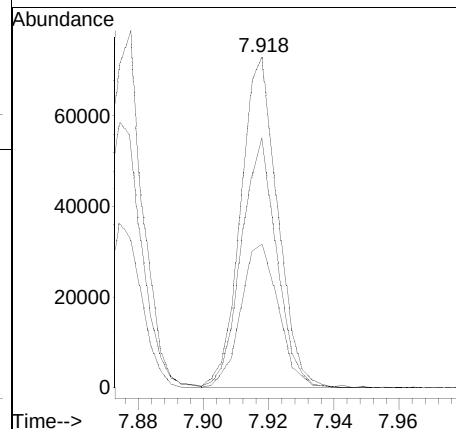
Tgt Ion:	232	Resp:	60329
Ion Ratio	Lower	Upper	
232	100		
230	75.8	64.2	96.4
234	45.5	38.1	57.1

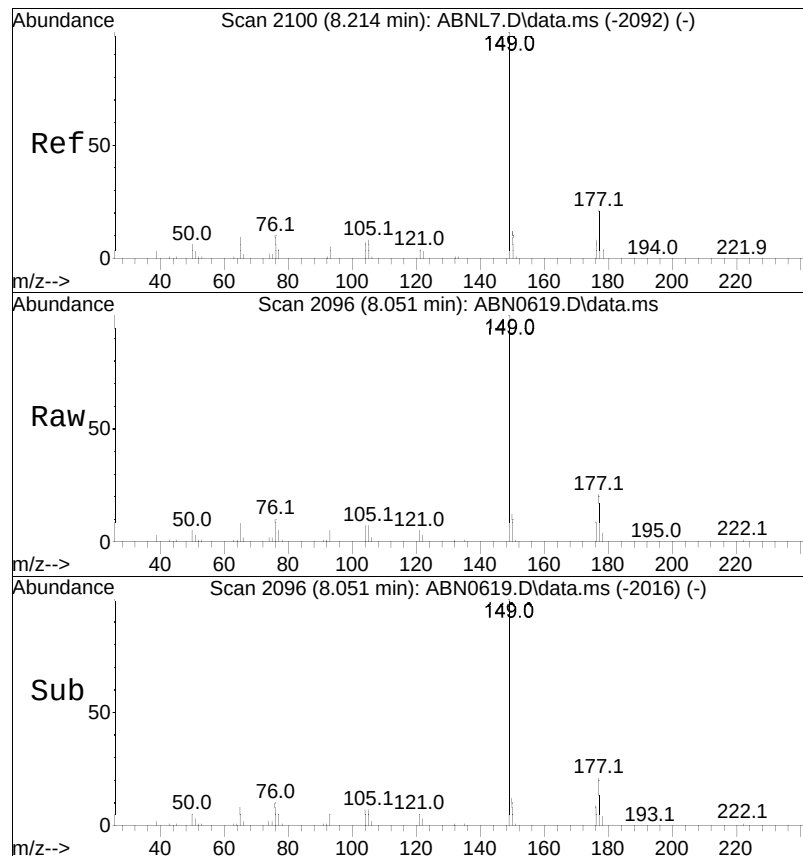




#73
 2,3,4,6-Tetrachlorophenol
 Concen: 5.37 ug/ml
 RT: 7.918 min Scan# 2053
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

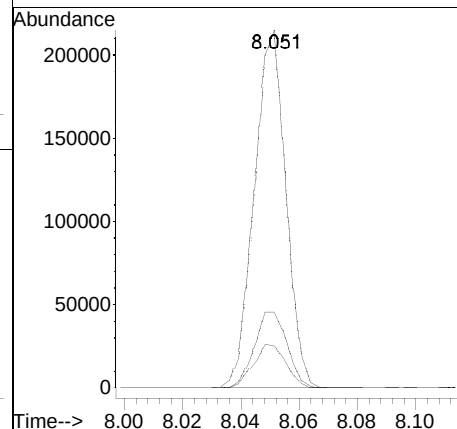
Tgt Ion:	232	Resp:	57757
Ion Ratio	Lower	Upper	
232	100		
230	71.8	61.8	92.8
234	44.8	36.2	54.2

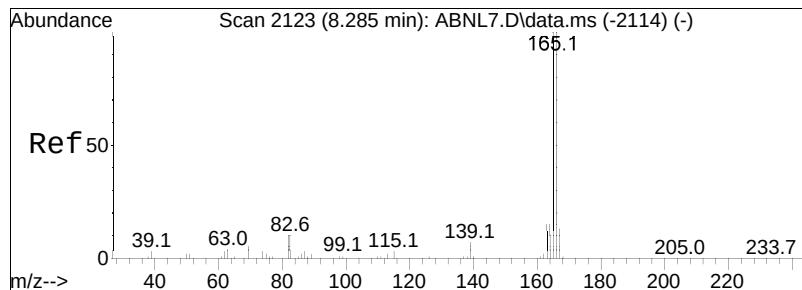




#74
 Diethyl phthalate
 Concen: 4.21 ug/ml
 RT: 8.051 min Scan# 2096
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

Tgt Ion:	149	Resp:	159849
Ion Ratio	Lower	Upper	
149	100		
177	22.3	16.1	24.1
150	12.8	9.4	14.2





#75

Fluorene

Concen: 4.40 ug/ml

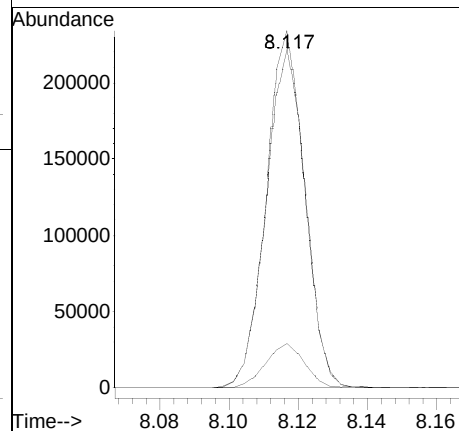
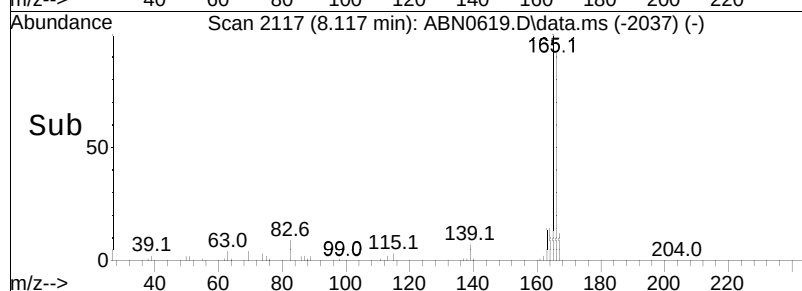
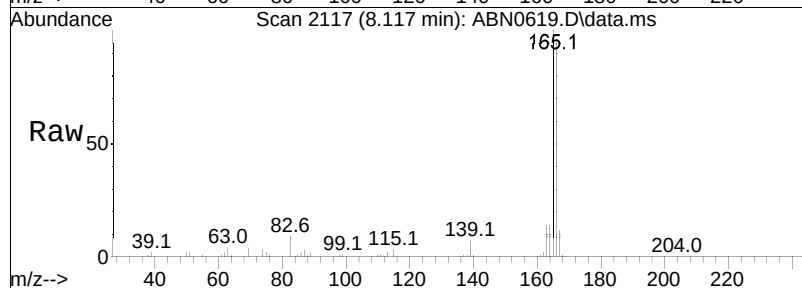
RT: 8.117 min Scan# 2117

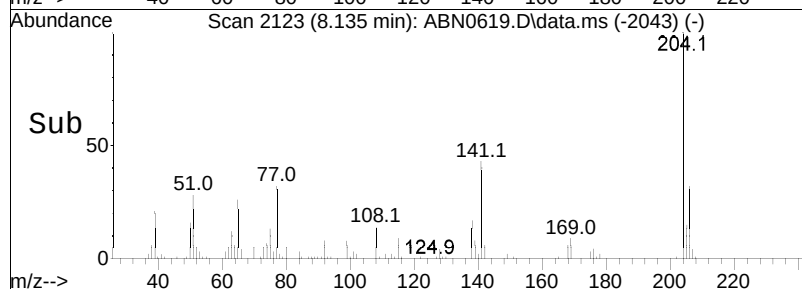
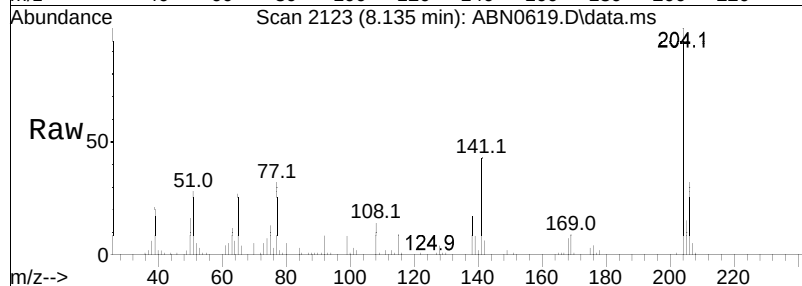
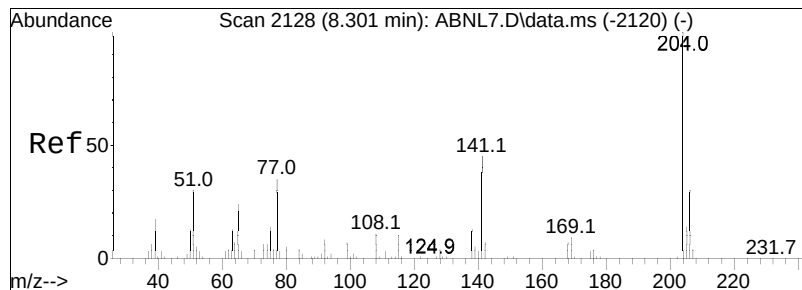
Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 10:48 am

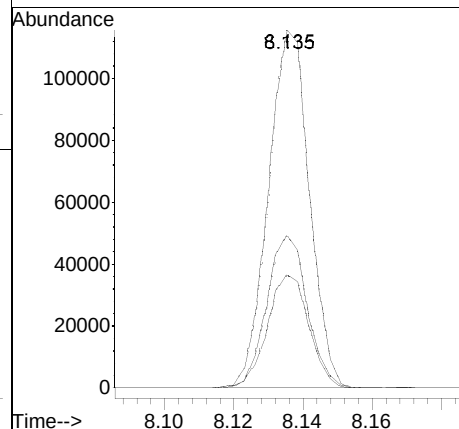
Tgt	Ion	Ratio	Lower	Upper
166	100			
165	104.2	76.2	114.2	
167	13.2	10.6	15.8	

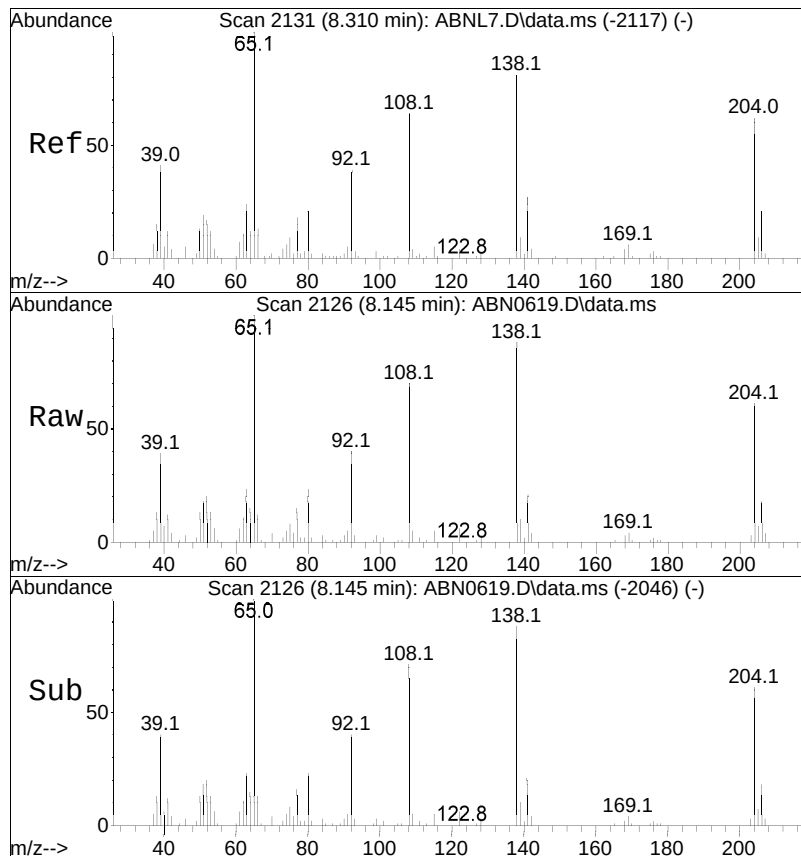




#76
 4-Chlorophenyl phenyl ether
 Concen: 4.61 ug/ml
 RT: 8.135 min Scan# 2123
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

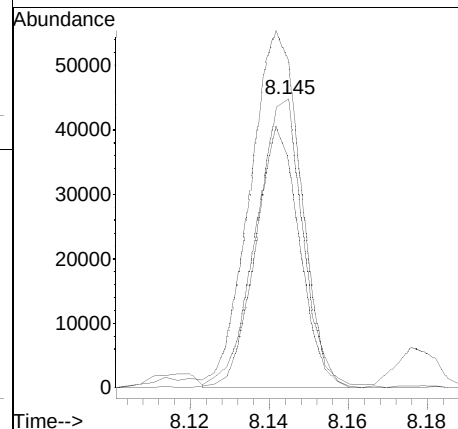
Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.0	25.8	38.6
141	42.3	53.6	80.4#

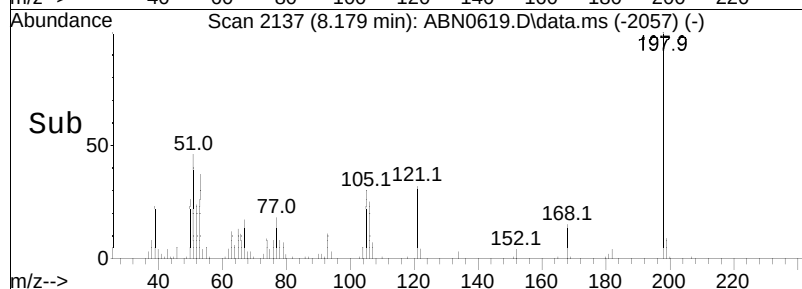
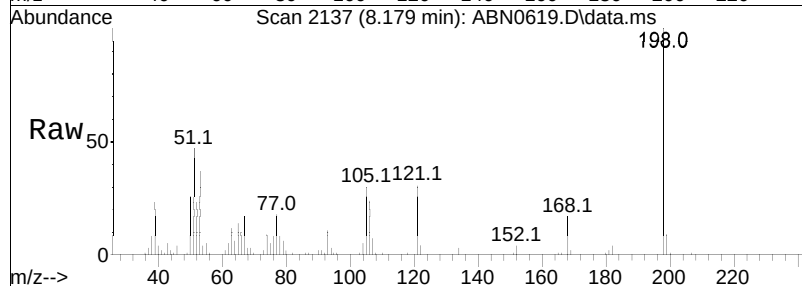
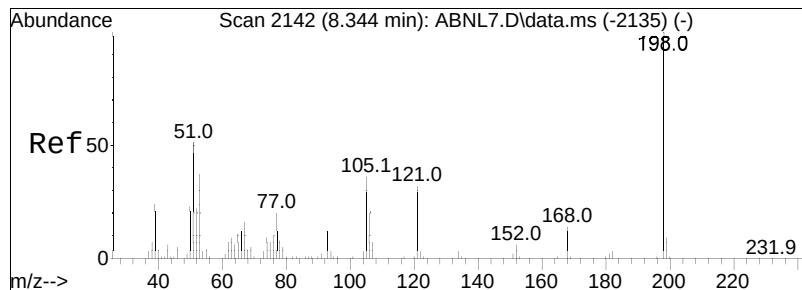




#77
 4-Nitroaniline
 Concen: 4.72 ug/ml
 RT: 8.145 min Scan# 2126
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

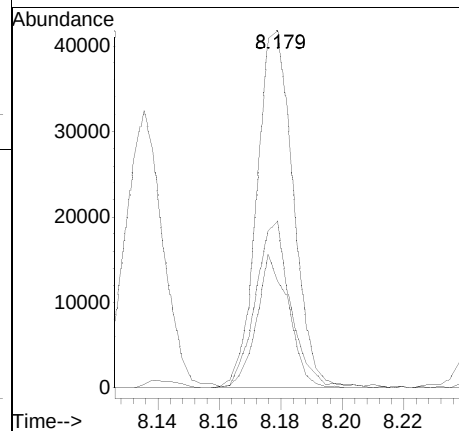
Tgt Ion	Ratio	Lower	Upper
138	100		
108	85.2	52.1	78.1#
65	138.2	115.0	172.6

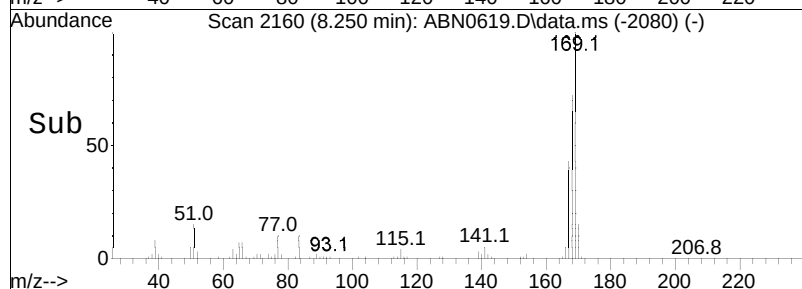
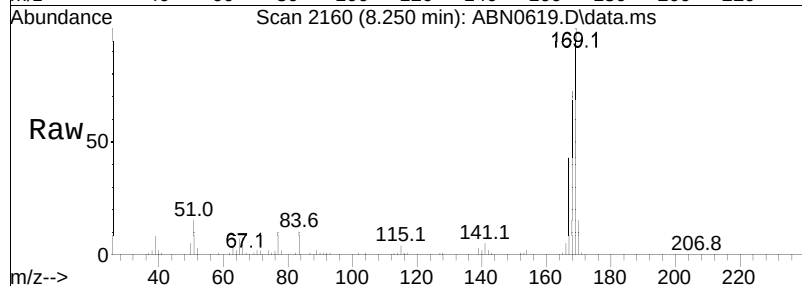
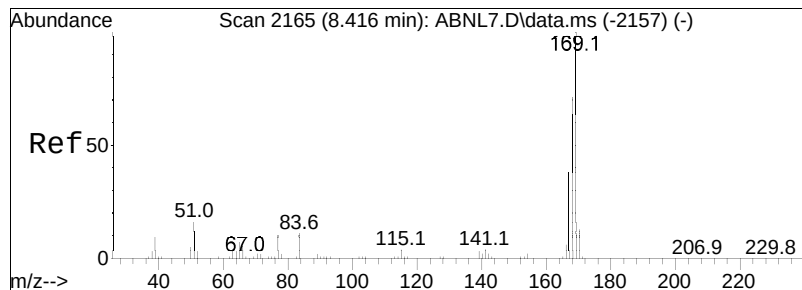




#78
 4,6-Dinitro-o-cresol
 Concen: 5.13 ug/ml
 RT: 8.179 min Scan# 2137
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

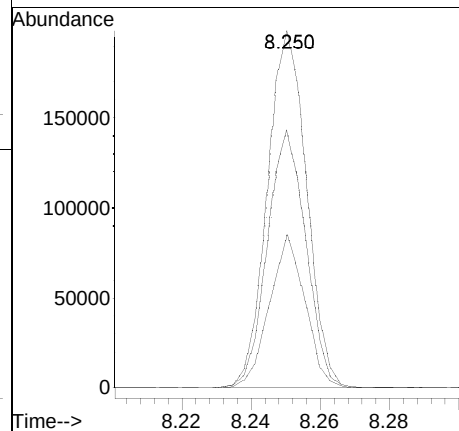
Tgt Ion	Ratio	Lower	Upper
198	100		
51	45.5	76.0	114.0#
105	32.9	45.6	68.4#

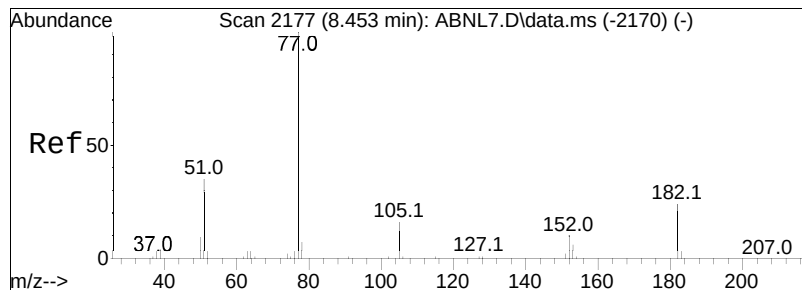




#79
NDPA/DPA
Concen: 4.51 ug/ml
RT: 8.250 min Scan# 2160
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2025 10:48 am

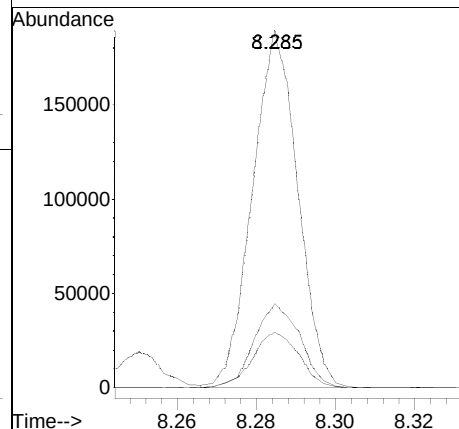
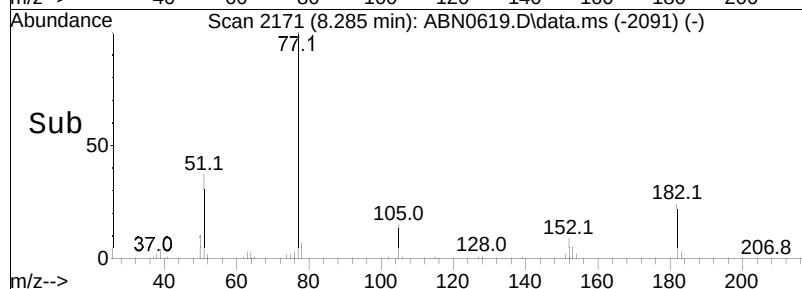
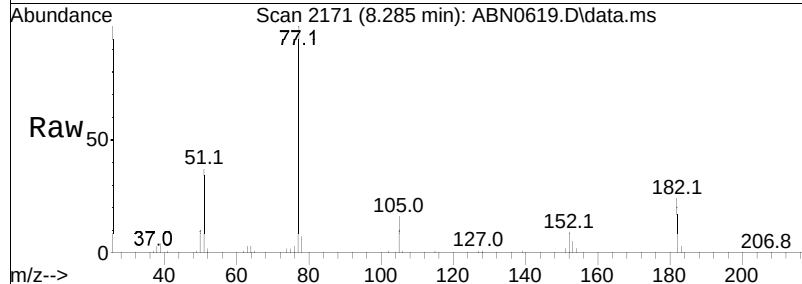
Tgt Ion	Ratio	Lower	Upper
169	100		
168	70.8	54.0	81.0
167	39.0	28.6	42.8

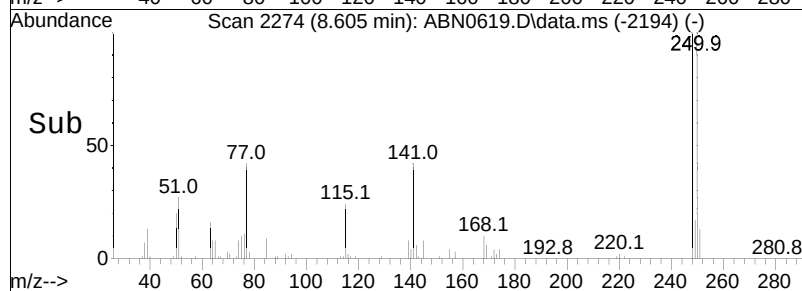
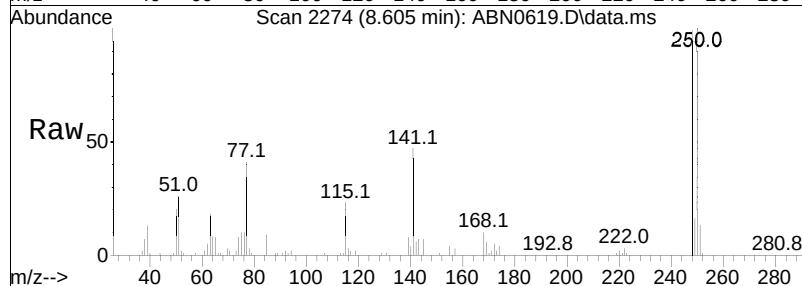
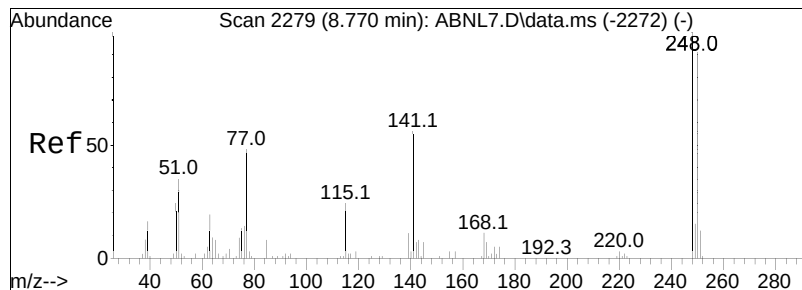




#80
 Azobenzene
 Concen: 4.23 ug/ml
 RT: 8.285 min Scan# 2171
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

Tgt Ion	Ratio	Lower	Upper
77	100		
182	24.1	17.4	26.2
105	16.1	15.4	23.2





#82

4-Bromophenyl phenyl ether

Concen: 4.60 ug/ml

RT: 8.605 min Scan# 2274

Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 10:48 am

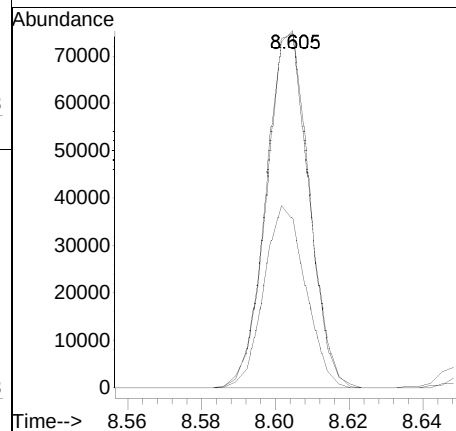
Tgt Ion:248 Resp: 59515

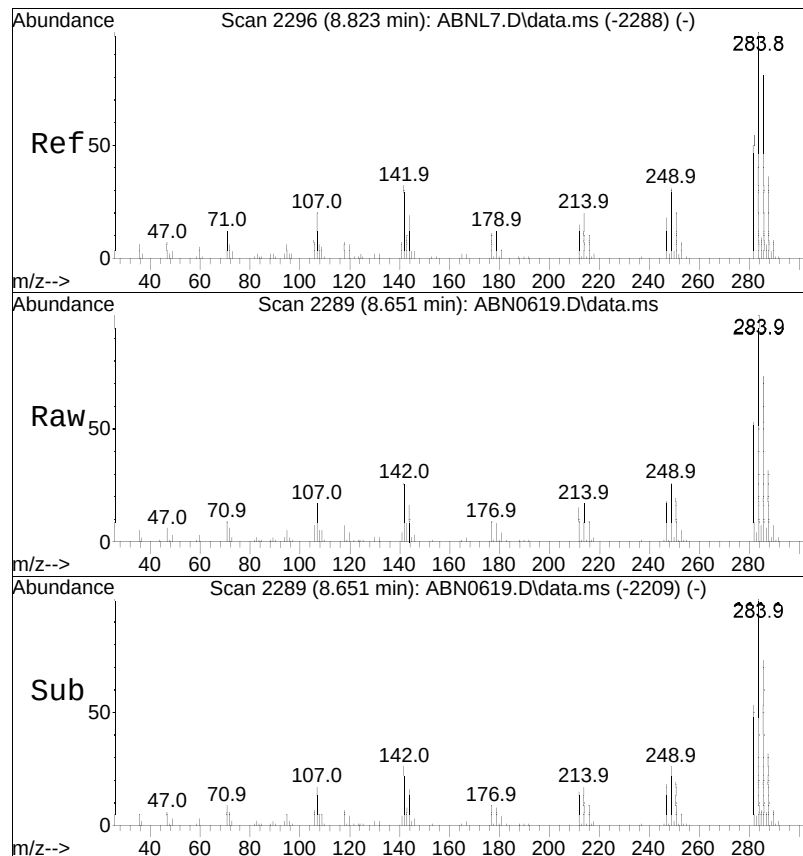
Ion Ratio Lower Upper

248 100

141 50.7 76.6 114.8#

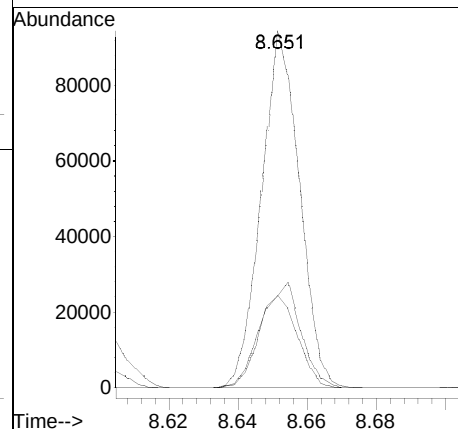
250 101.7 77.3 115.9

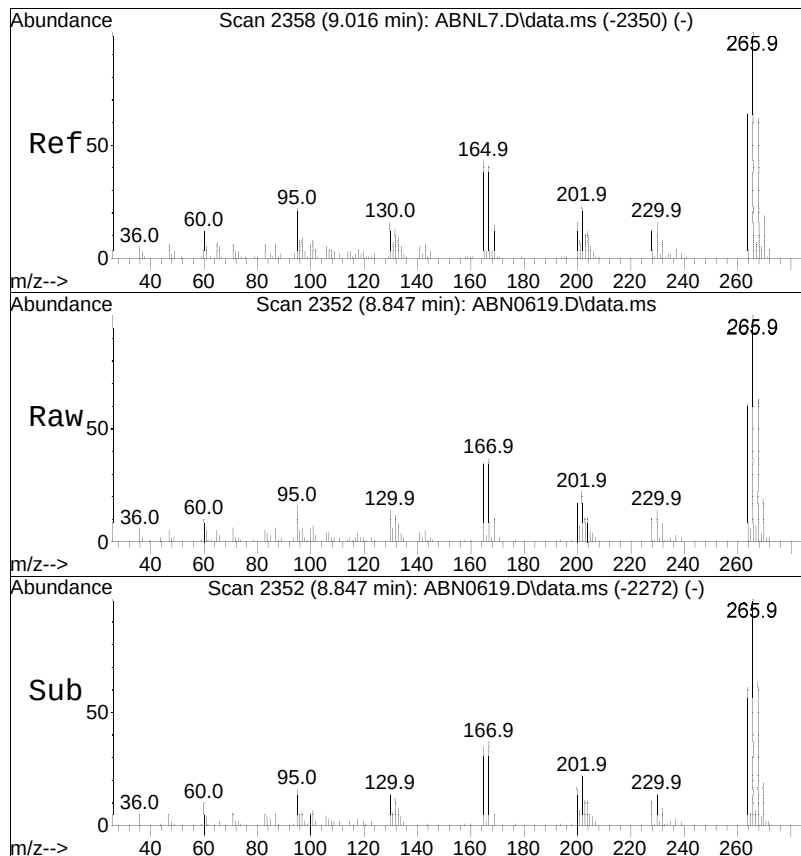




#83
 Hexachlorobenzene
 Concen: 4.77 ug/ml
 RT: 8.651 min Scan# 2289
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

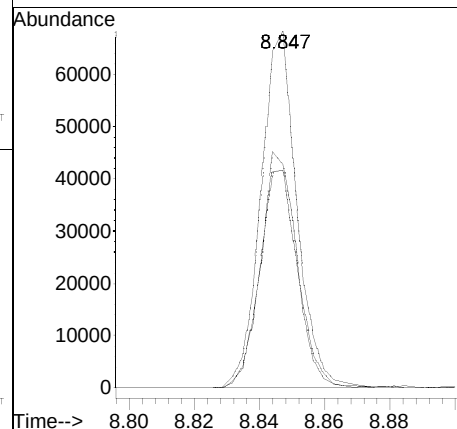
Tgt Ion:	284	Resp:	72096
Ion Ratio	Lower	Upper	
284	100		
142	27.4	41.9	62.9#
249	30.7	24.1	36.1

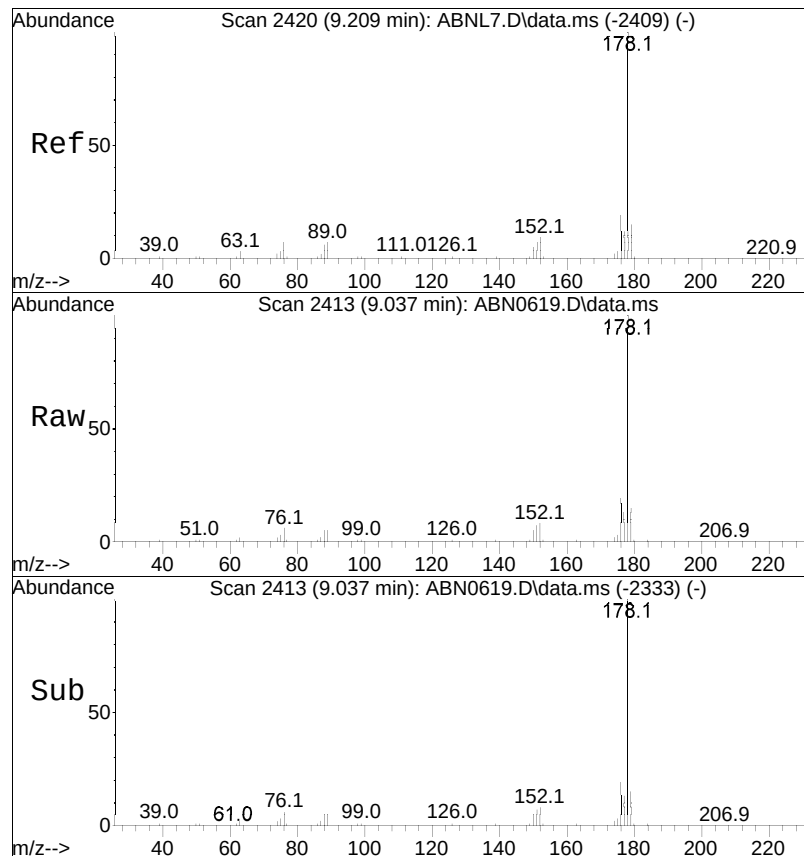




#84
 Pentachlorophenol
 Concen: 5.87 ug/ml
 RT: 8.847 min Scan# 2352
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

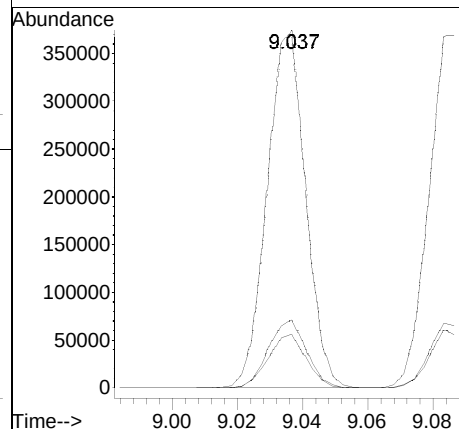
Tgt Ion	Ratio	Lower	Upper
266	100		
264	65.2	49.7	74.5
268	66.7	50.5	75.7

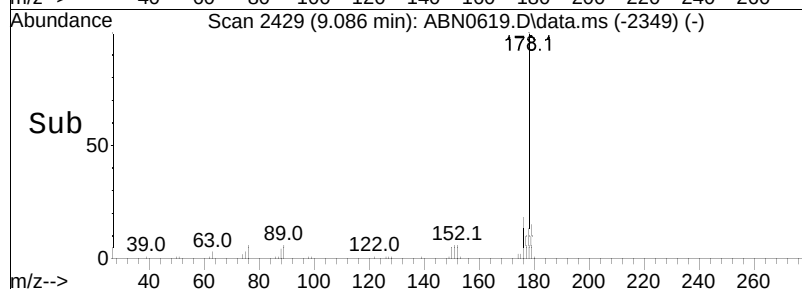
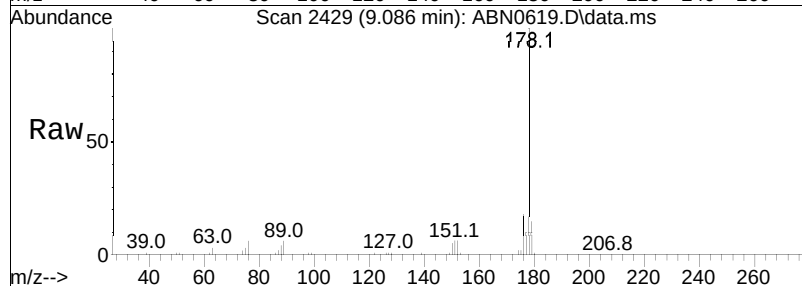
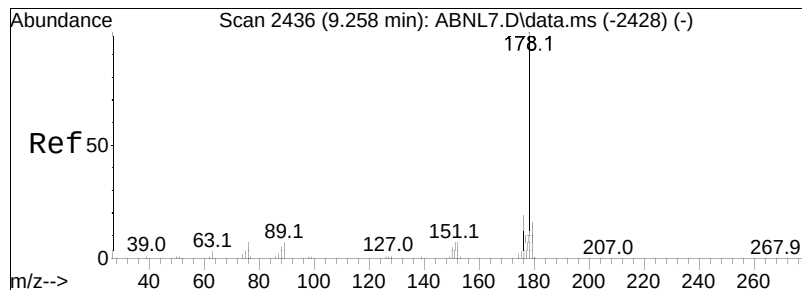




#91
 Phenanthrene
 Concen: 4.25 ug/ml
 RT: 9.037 min Scan# 2413
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

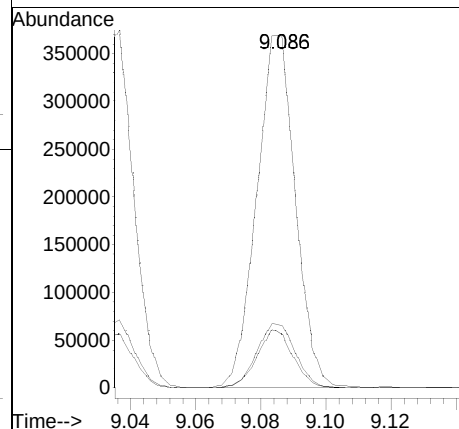
Tgt Ion	Ratio	Lower	Upper
178	100		
179	14.9	12.2	18.2
176	18.8	15.4	23.2

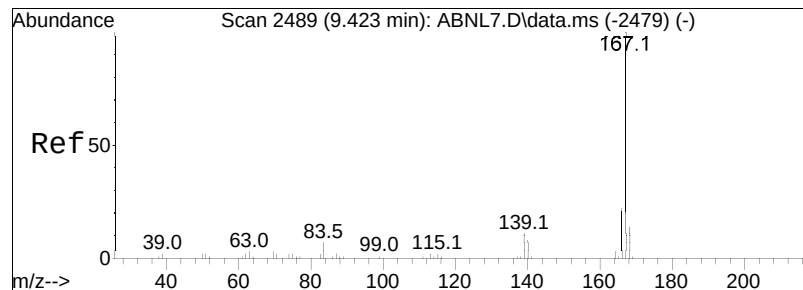




#92
 Anthracene
 Concen: 4.31 ug/ml
 RT: 9.086 min Scan# 2429
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

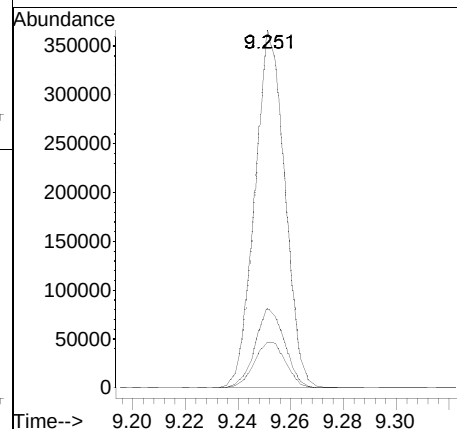
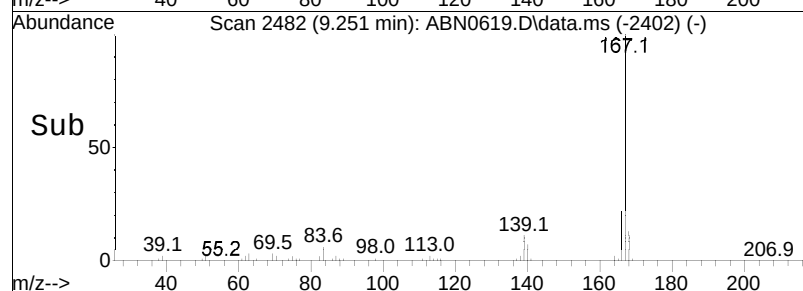
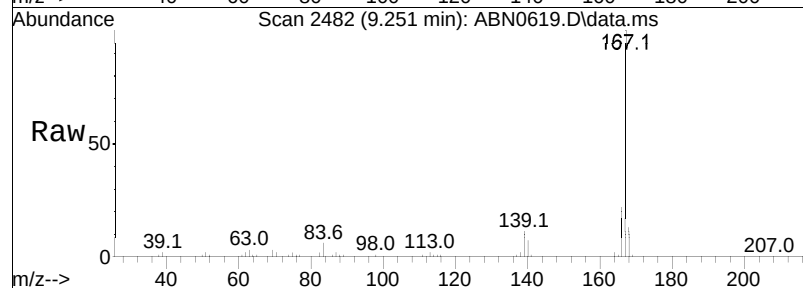
Tgt	Ion	Ratio	Resp	Lower	Upper
178	100		304284		
179	15.5			12.0	18.0
176	18.3			14.6	22.0

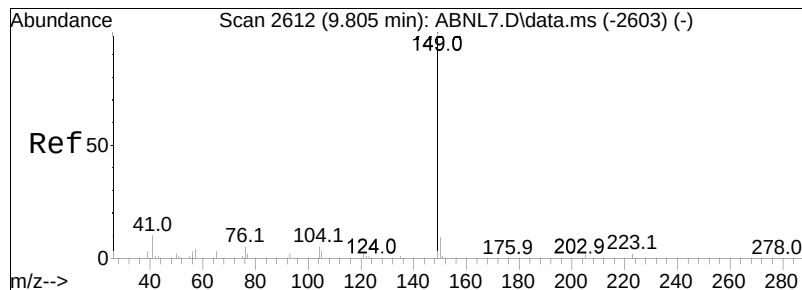




#93
 Carbazole
 Concen: 4.31 ug/ml
 RT: 9.251 min Scan# 2482
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

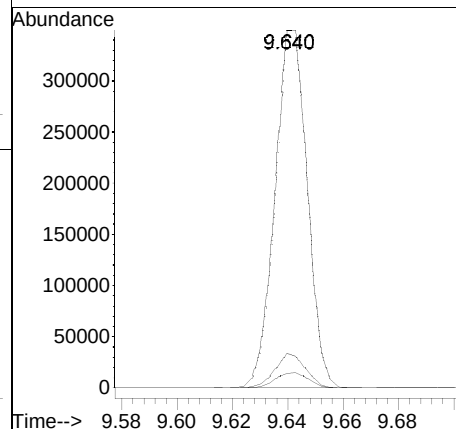
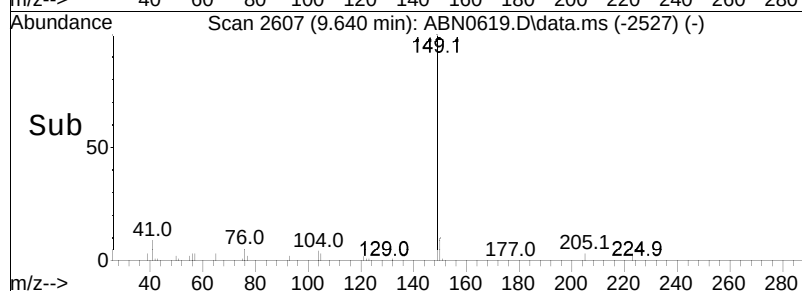
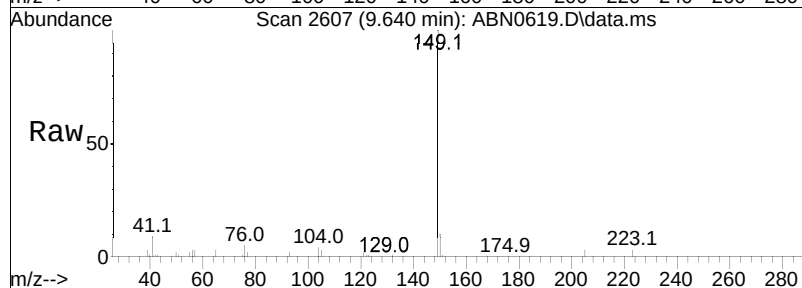
Tgt Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	22.0	17.4	26.0

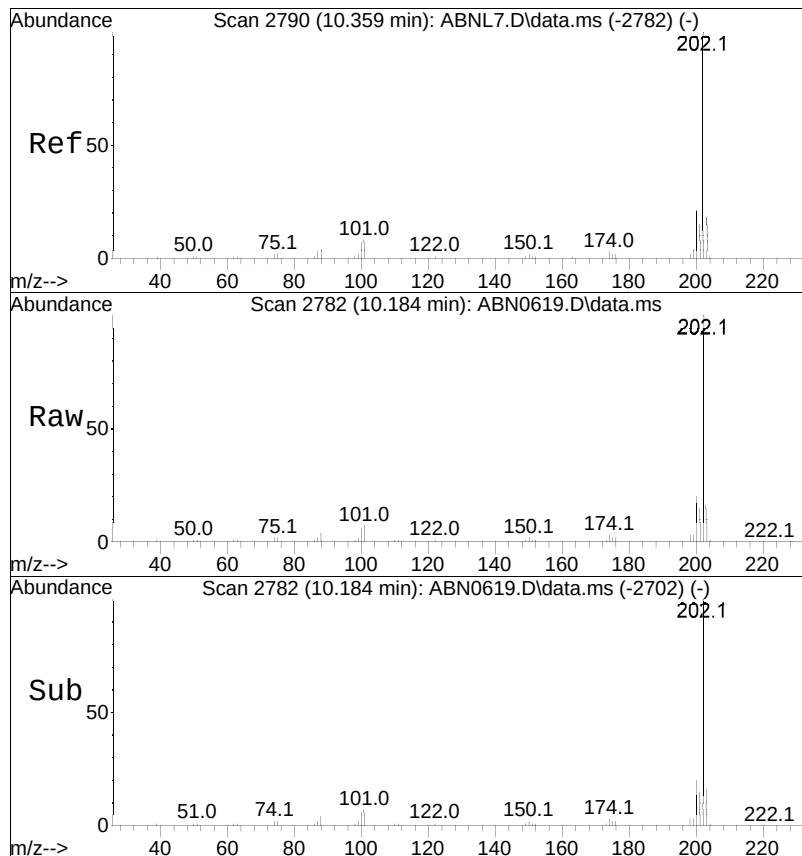




#94
 Di-n-butylphthalate
 Concen: 4.04 ug/ml
 RT: 9.640 min Scan# 2607
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

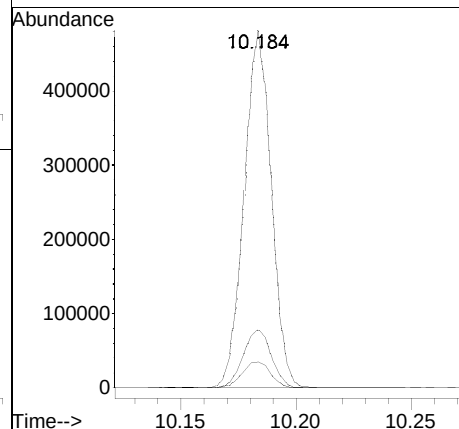
Tgt Ion:	149	Resp:	278921
Ion Ratio	Lower	Upper	
149	100		
150	9.2	7.0	10.6
104	4.3	4.5	6.7#

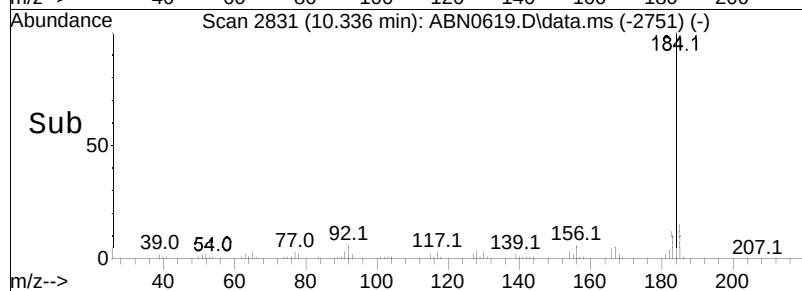
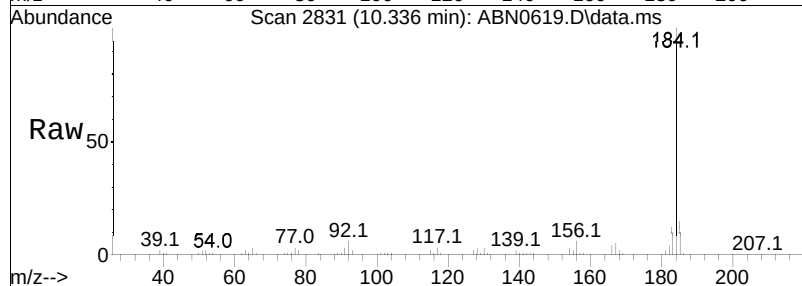
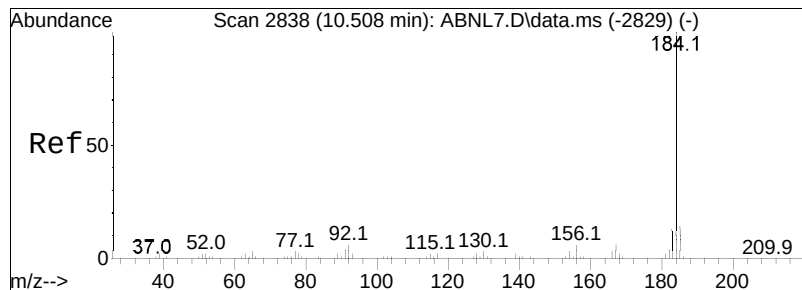




#95
 Fluoranthene
 Concen: 4.58 ug/ml
 RT: 10.184 min Scan# 2782
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

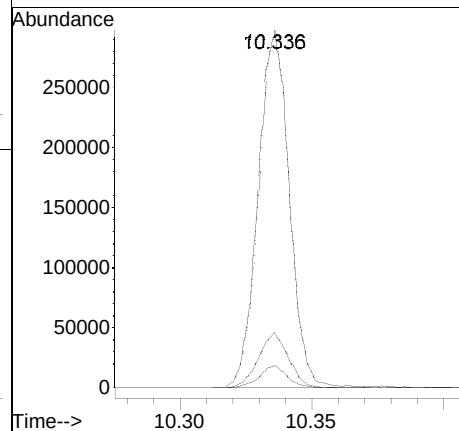
Tgt Ion	Ratio	Lower	Upper
202	100		
101	7.7	13.5	20.3#
203	17.0	13.6	20.4

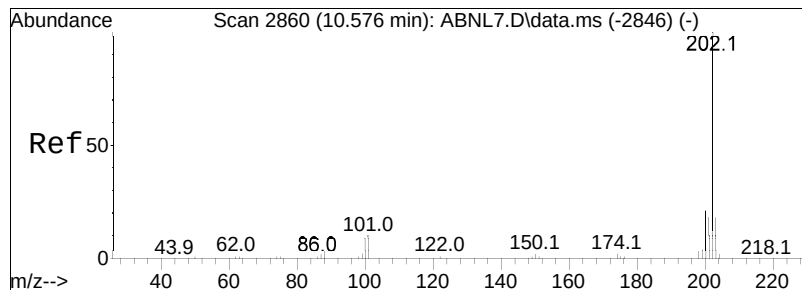




#96
Benzidine
Concen: 4.71 ug/ml
RT: 10.336 min Scan# 2831
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2025 10:48 am

Tgt Ion	Ratio	Lower	Upper
184	100		
92	5.7	9.1	13.7#
185	15.1	11.1	16.7





#97

Pyrene

Concen: 4.52 ug/ml

RT: 10.398 min Scan# 2851

Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 10:48 am

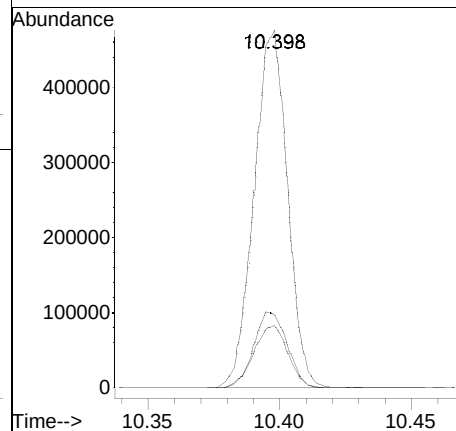
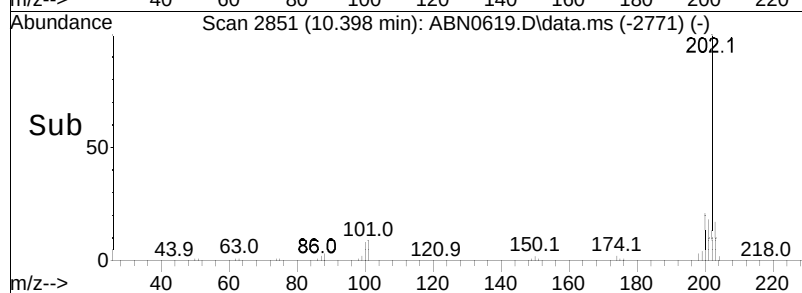
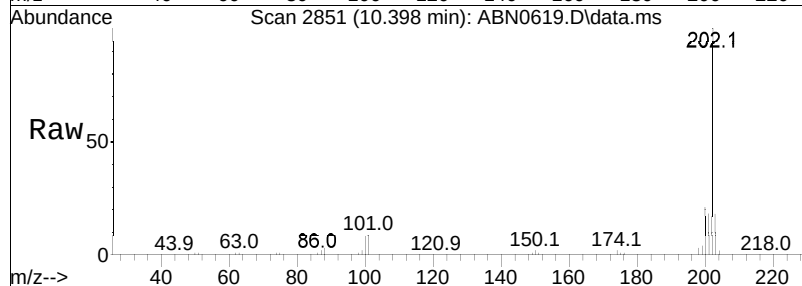
Tgt Ion: 202 Resp: 415433

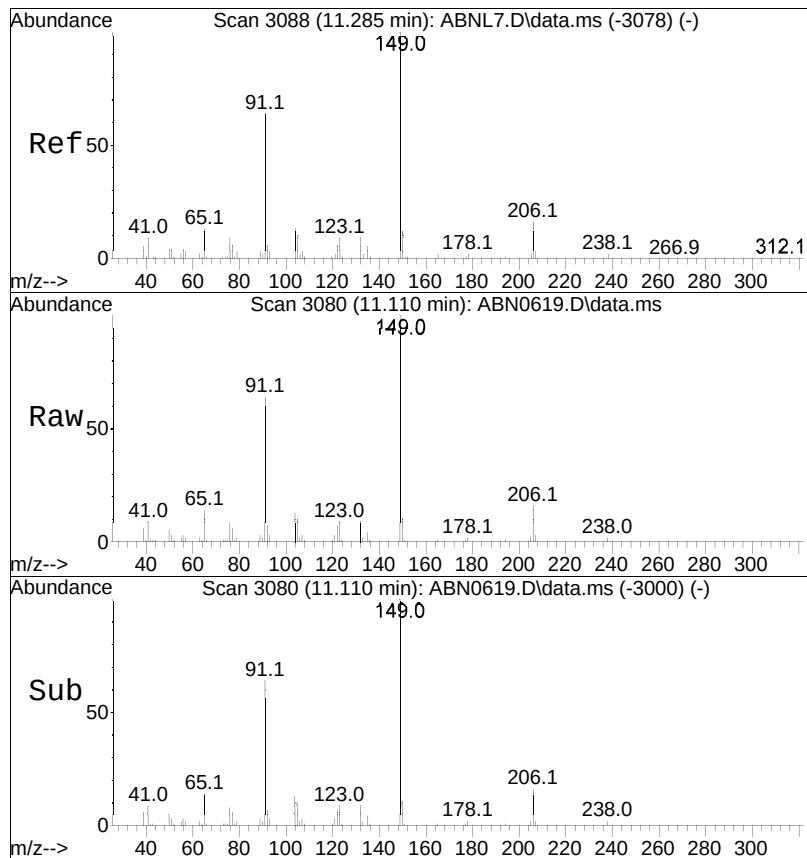
Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

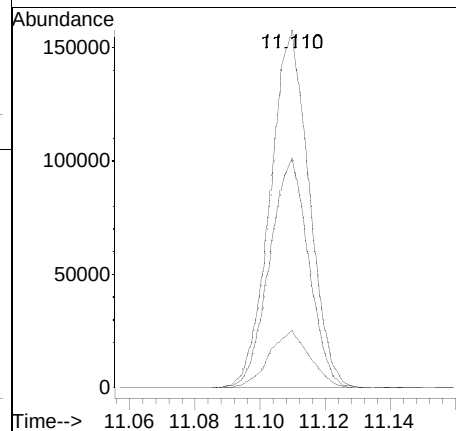
203 17.8 14.2 21.4

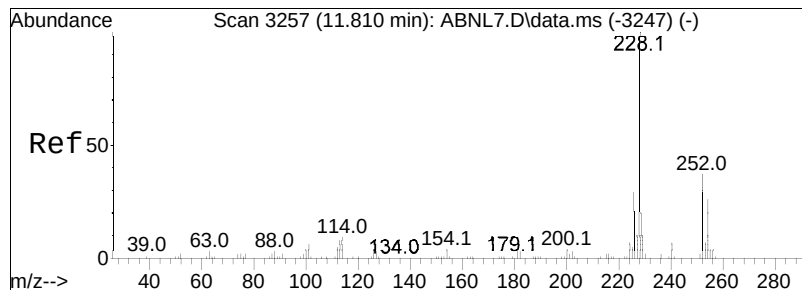




#99
 Butyl benzyl phthalate
 Concen: 4.34 ug/ml
 RT: 11.110 min Scan# 3080
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

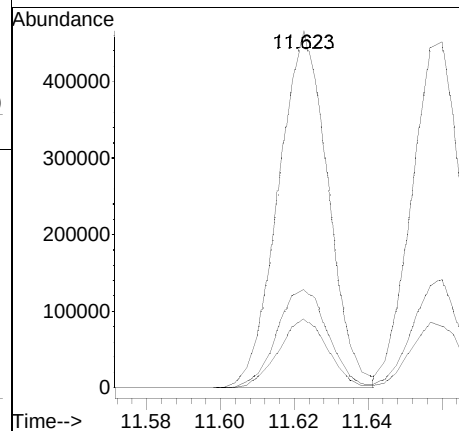
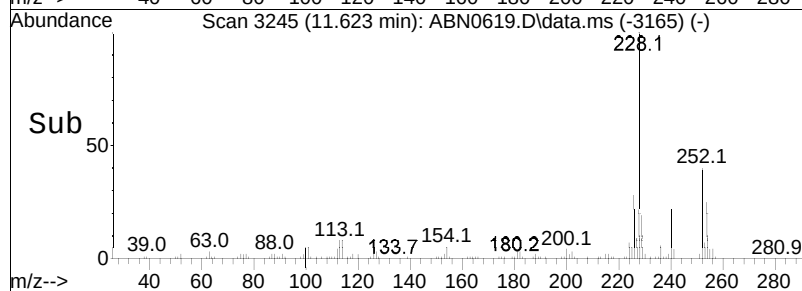
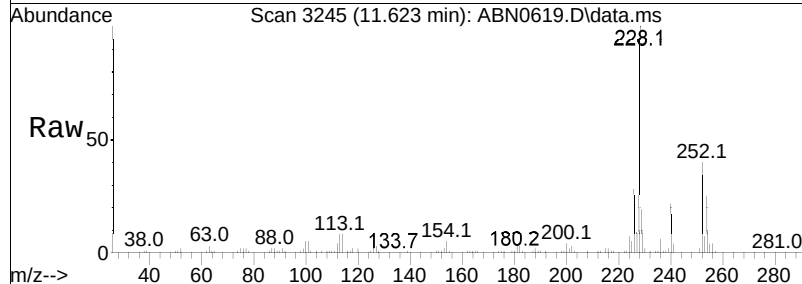
Tgt Ion	Ratio	Lower	Upper
149	100		
91	64.7	63.3	94.9
206	16.9	13.9	20.9

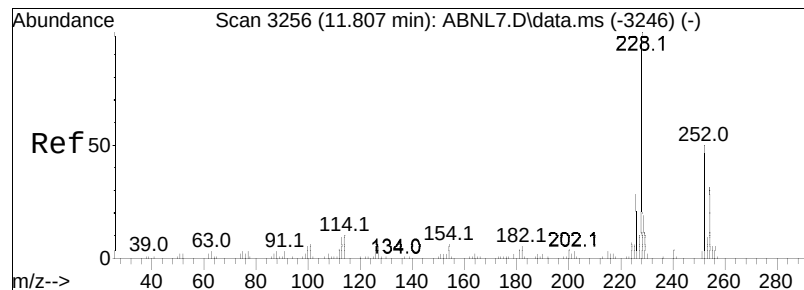




#107
 Benzo(a)anthracene
 Concen: 4.32 ug/ml
 RT: 11.623 min Scan# 3245
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

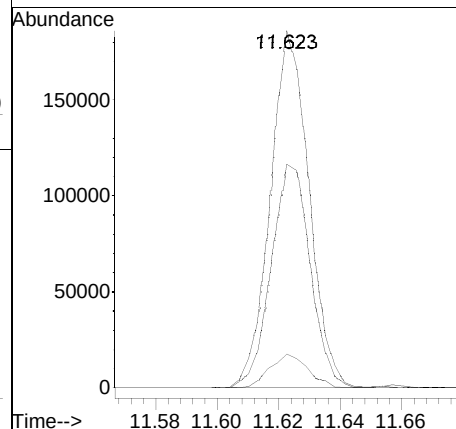
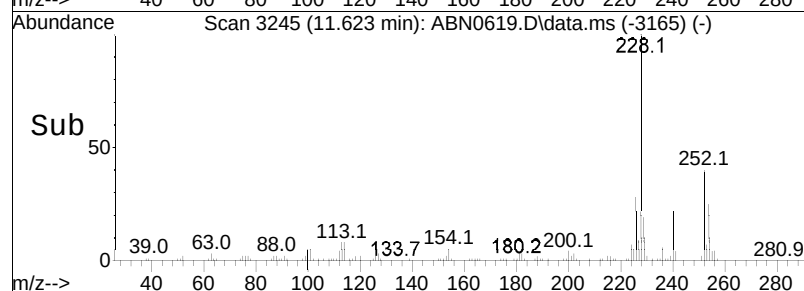
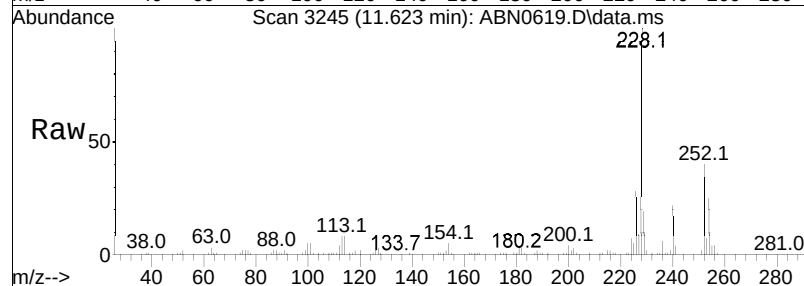
Tgt Ion:	228	Resp:	436515
Ion Ratio	Lower	Upper	
228	100		
226	28.5	22.2	33.4
229	19.1	15.6	23.4

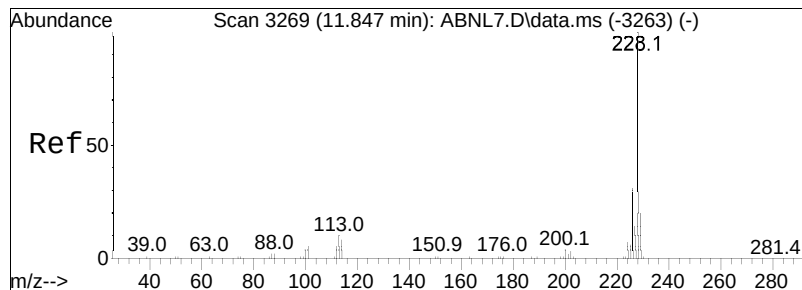




#108
 3,3'-Dichlorobenzidine
 Concen: 4.51 ug/ml
 RT: 11.623 min Scan# 3245
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

Tgt Ion	Ratio	Lower	Upper
252	100		
126	9.5	14.5	21.7#
254	63.7	51.2	76.8





#109

Chrysene

Concen: 4.24 ug/ml

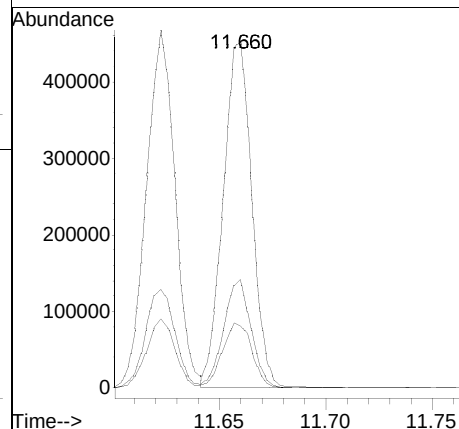
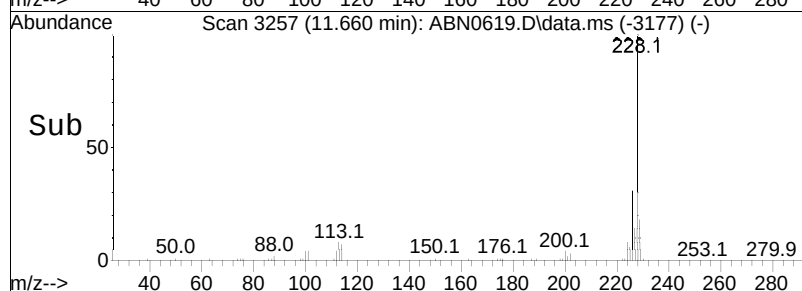
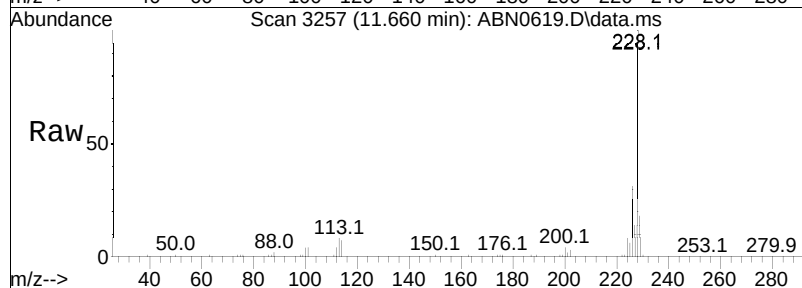
RT: 11.660 min Scan# 3257

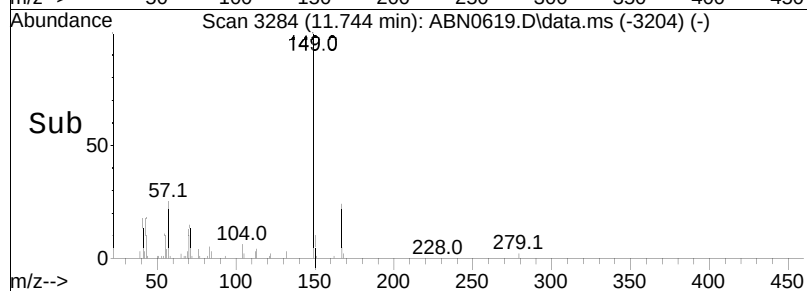
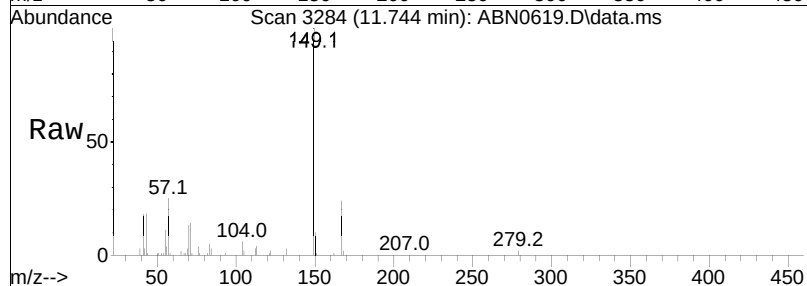
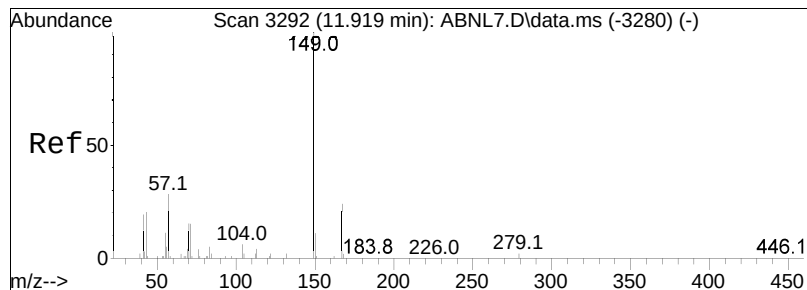
Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 10:48 am

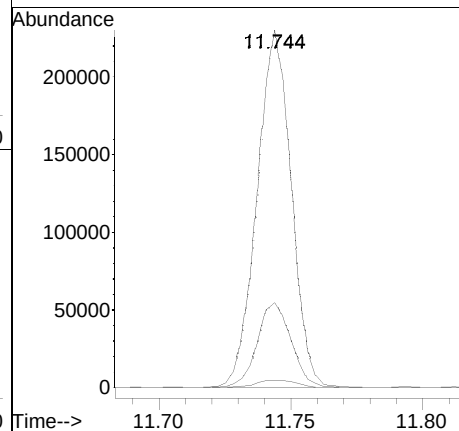
Tgt Ion:	228	Resp:	422456
Ion Ratio	Lower	Upper	
228	100		
226	30.0	24.0	36.0
229	19.4	15.8	23.8

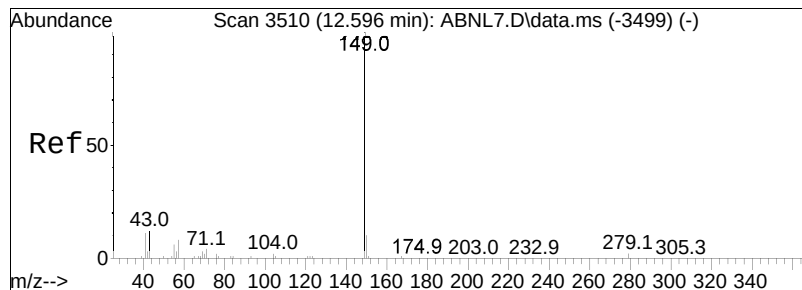




#110
 Bis(2-ethylhexyl)phthalate
 Concen: 4.03 ug/ml
 RT: 11.744 min Scan# 3284
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

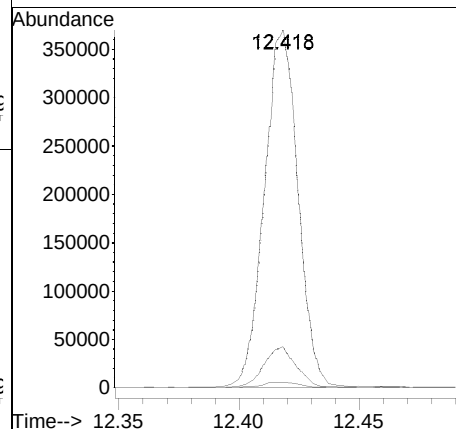
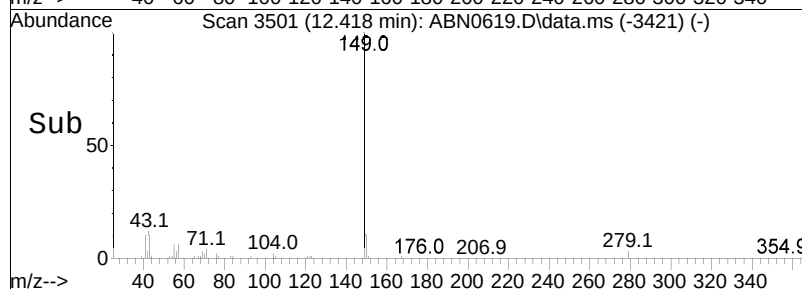
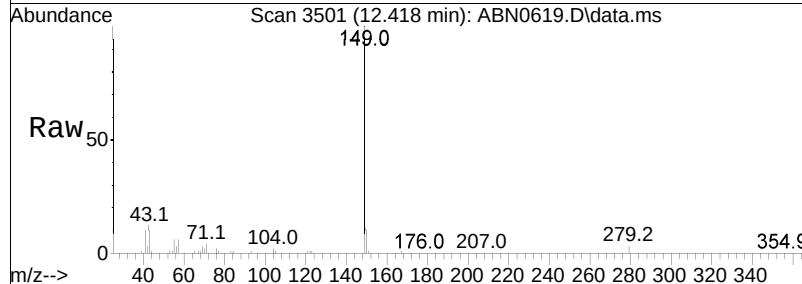
Tgt	Ion	Ratio	Resp	Lower	Upper
149	100		205276		
167	23.6			22.1	33.1
279	2.2			3.0	4.4#

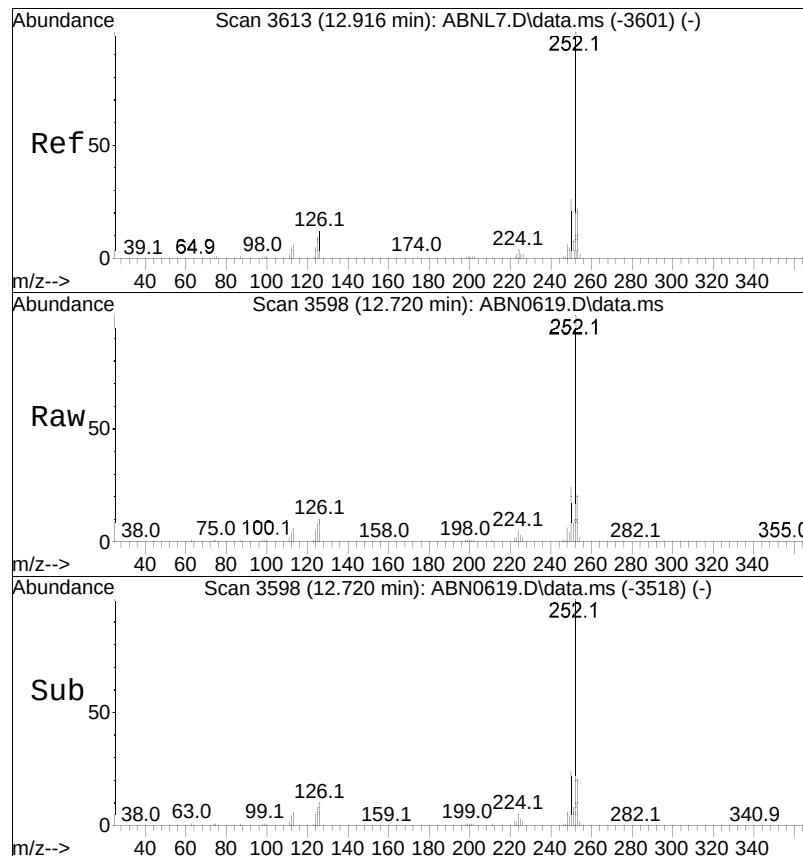




#111
 Di-n-octylphthalate
 Concen: 4.30 ug/ml
 RT: 12.418 min Scan# 3501
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

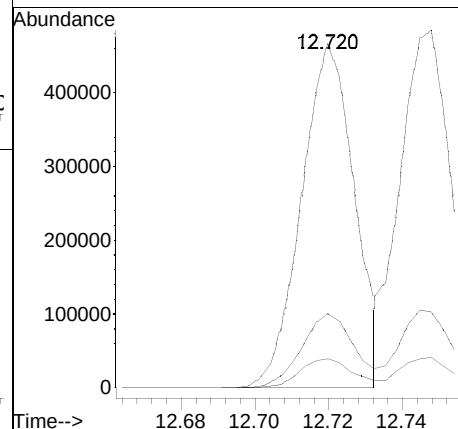
Tgt Ion	Ratio	Lower	Upper
149	100		
43	11.0	18.8	28.2#
167	1.4	1.3	1.9

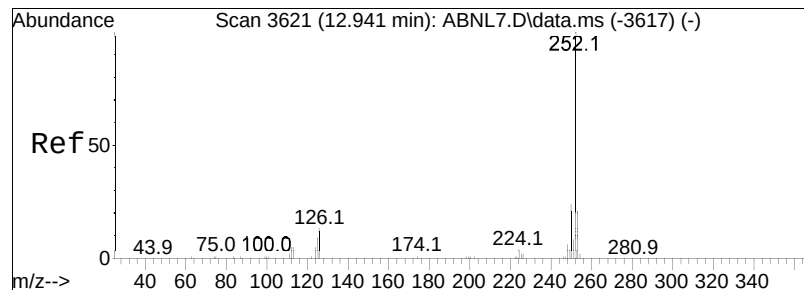




#112
 Benzo(b)fluoranthene
 Concen: 4.55 ug/ml
 RT: 12.720 min Scan# 3598
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

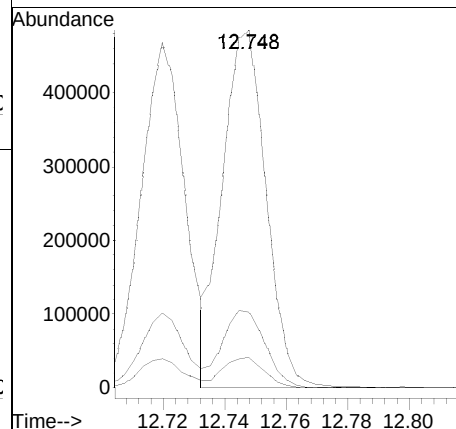
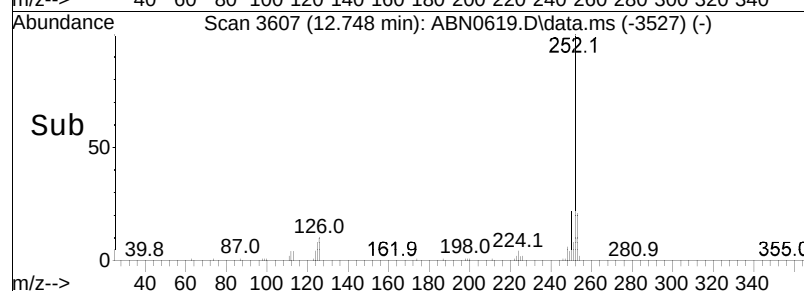
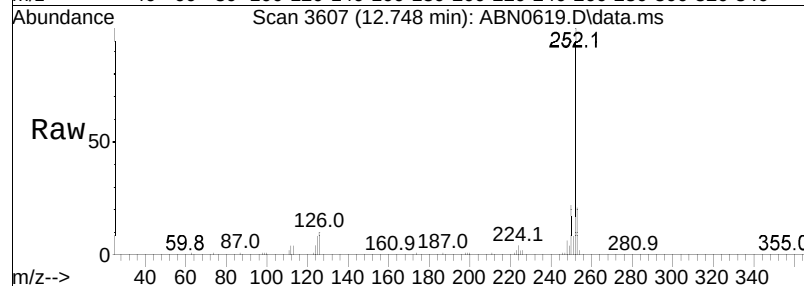
Tgt	Ion	Ratio	Lower	Upper
252	100			
125	8.8	13.3	19.9#	
253	21.3	17.1	25.7	

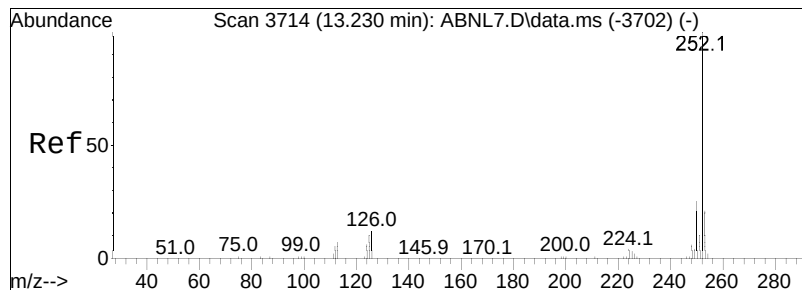




#113
 Benzo(k)fluoranthene
 Concen: 4.55 ug/ml
 RT: 12.748 min Scan# 3607
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

Tgt Ion	Ratio	Lower	Upper
252	100		
125	7.8	13.0	19.6#
253	21.5	16.8	25.2





#114

Benzo(a)pyrene

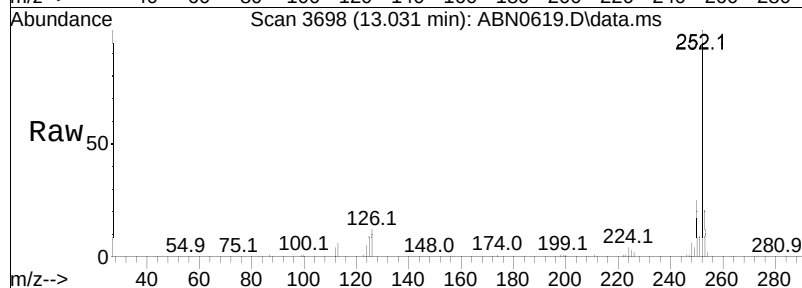
Concen: 4.51 ug/ml

RT: 13.031 min Scan# 3698

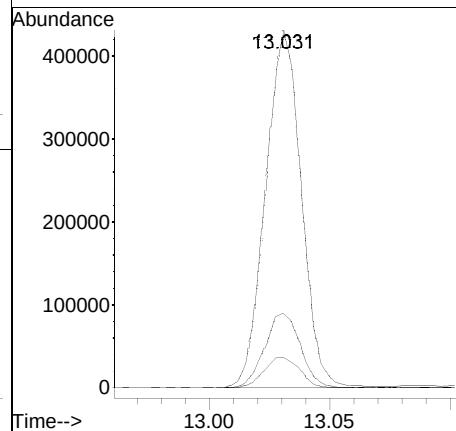
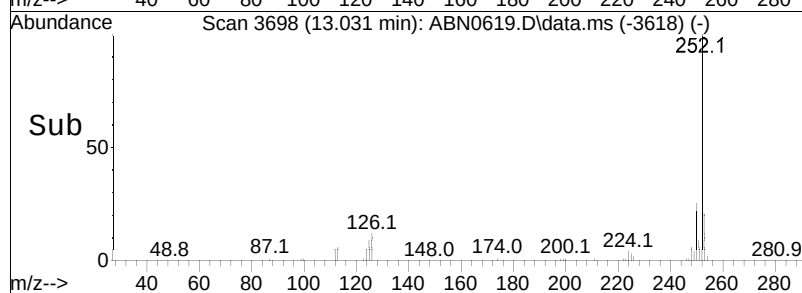
Delta R.T. 0.000 min

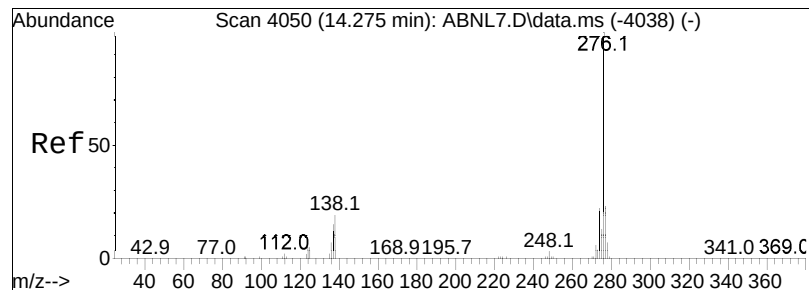
Lab File: ABN0619.D

Acq: 19 Jun 2025 10:48 am



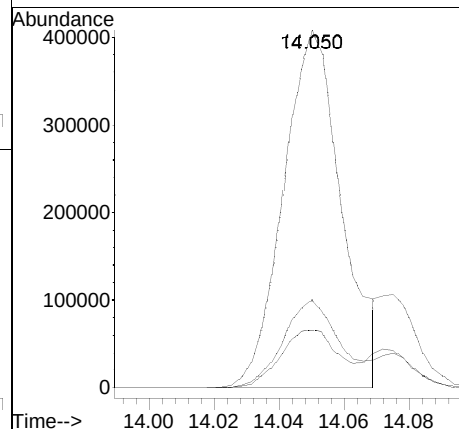
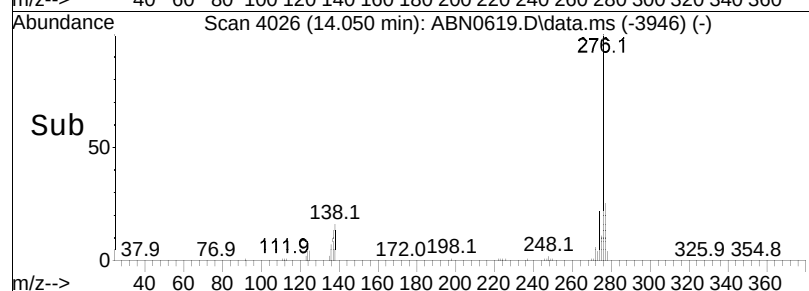
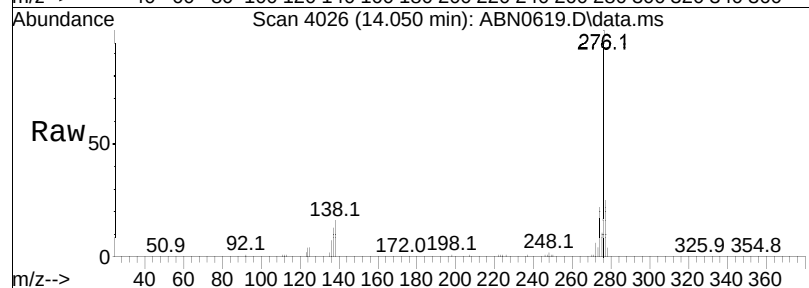
Tgt Ion:	252	Resp:	441763
Ion Ratio	Lower	Upper	
252	100		
125	8.8	14.2	21.2#
253	21.3	16.9	25.3

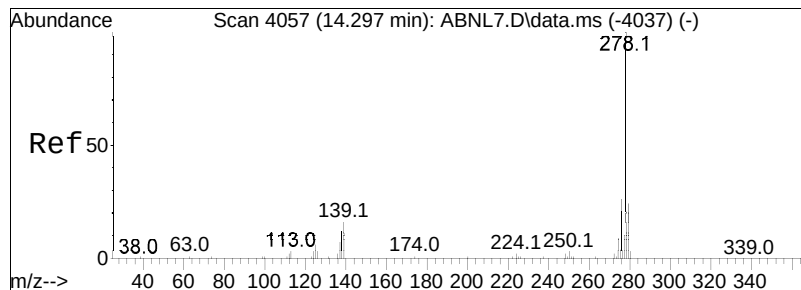




#116
 Indeno(1,2,3-cd)pyrene
 Concen: 4.59 ug/mL
 RT: 14.050 min Scan# 4026
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

Tgt Ion	Ratio	Lower	Upper
276	100		
138	16.1	25.1	37.7#
277	23.6	18.6	28.0





#117

Dibenzo(a,h)anthracene

Concen: 4.59 ug/ml

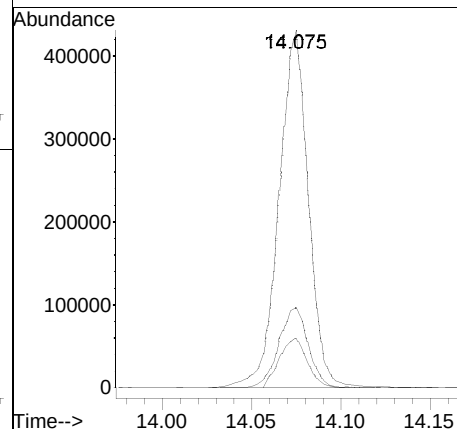
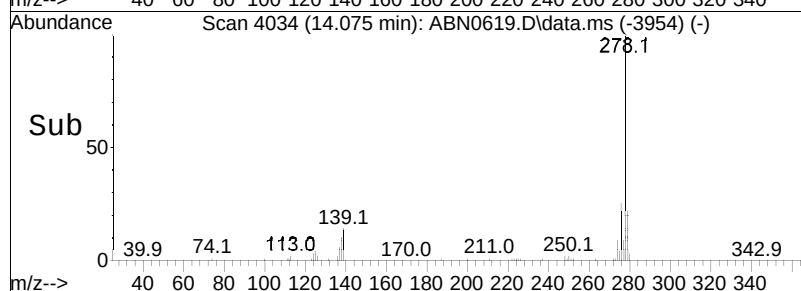
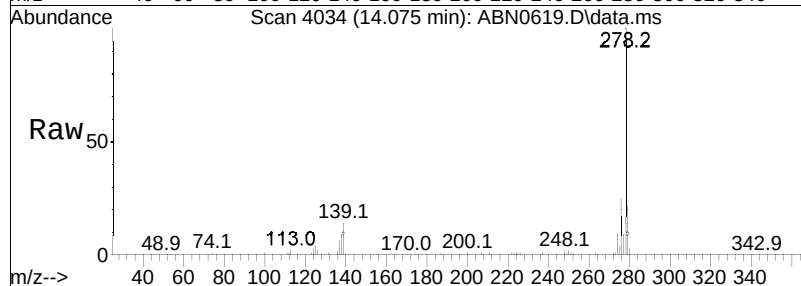
RT: 14.075 min Scan# 4034

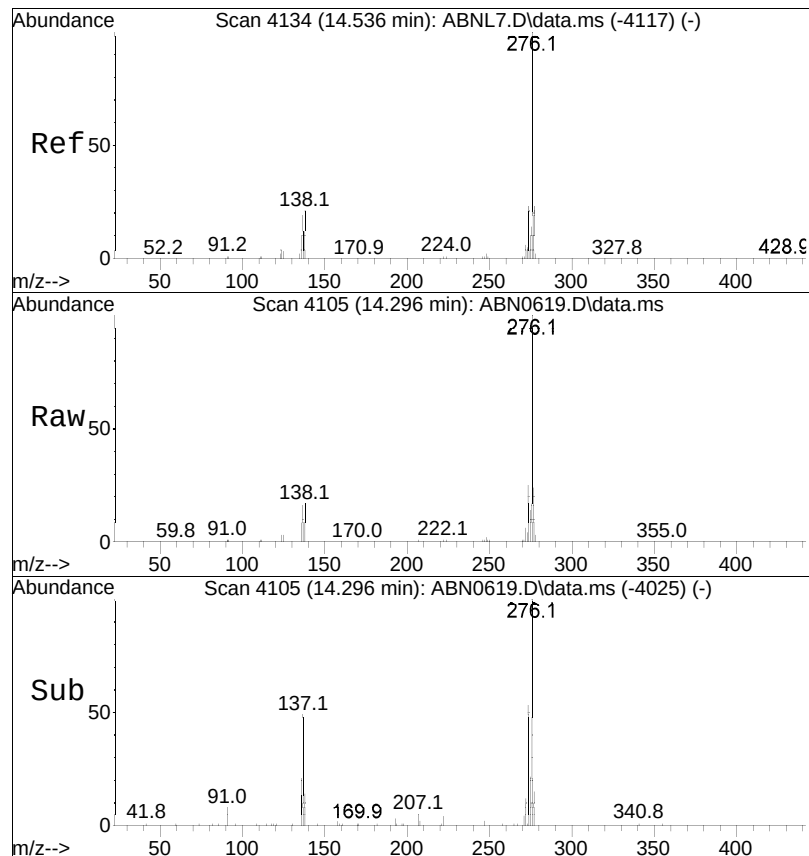
Delta R.T. 0.000 min

Lab File: ABN0619.D

Acq: 19 Jun 2025 10:48 am

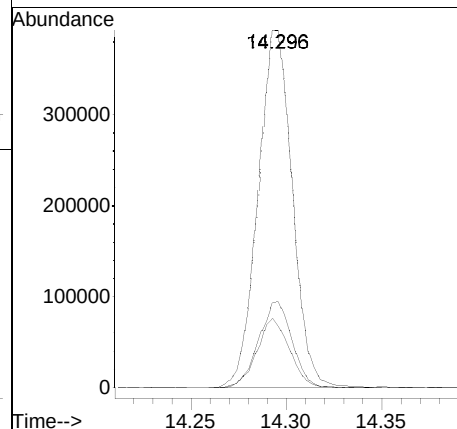
Tgt Ion:	278	Resp:	488027
Ion Ratio	Lower	Upper	
278	100		
139	13.3	20.8	31.2#
279	22.8	18.3	27.5





#118
 Benzo(ghi)perylene
 Concen: 4.58 ug/ml
 RT: 14.296 min Scan# 4105
 Delta R.T. 0.000 min
 Lab File: ABN0619.D
 Acq: 19 Jun 2025 10:48 am

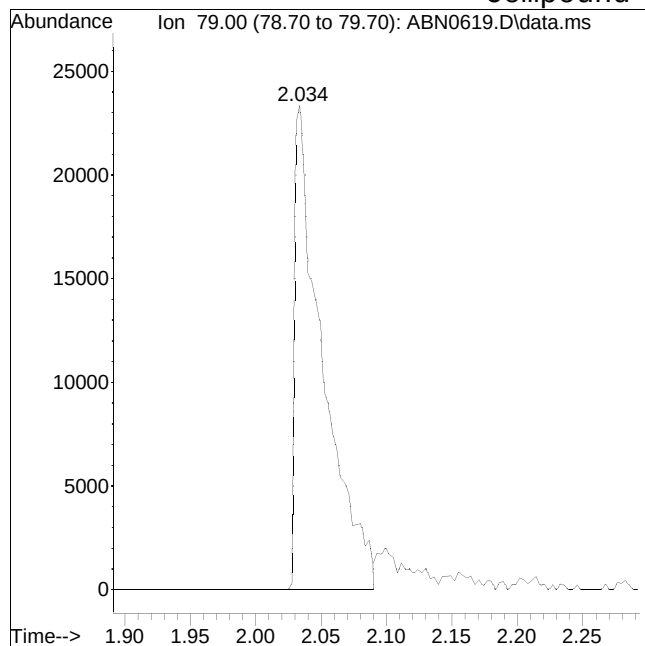
Tgt Ion:	276	Resp:	487550
Ion Ratio	Lower	Upper	
276	100		
138	18.7	29.2	43.8#
277	23.7	18.8	28.2



Manual Integration Report

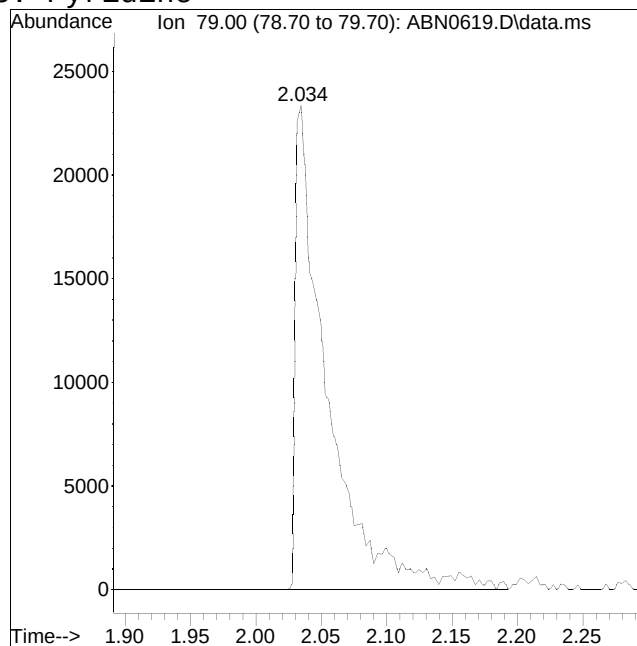
Data Path : I:\8270\Dakota\250619RVTa\QMethod : FS250416RVT_Dakota.m
Data File : ABN0619.D Operator : Dakota:slr
Date Inj'd : 6/19/2025 10:48 am Instrument : Dakota
Sample : WG2080969-3,32,,ABN 11297 Quant Date : 6/19/2025 11:09 am

Compound #3: Pyridine



Original Peak Response = 34821

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



Manual Peak Response = 39519 M6

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : AP90619.D
 Acq On : 19 Jun 2025 11:11 am
 Operator : Dakota:slr
 Sample : WG2080969-4,32,,AP9 11482 HNY0523C
 Misc : WG2080969,,ical22203
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 19 11:55:16 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:55:56 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	107	0.00
28 T	Benzaldehyde	0.839	0.769	8.3	94	0.00
29 T	Acetophenone	1.481	1.400	5.5	98	0.00
30 T	m-Toluidine	1.490	1.361	8.7	98	0.00
31 T	2-Chloroaniline	1.308	1.277	2.4	101	0.00
57 I	IS2_Naphthalene-d8	1.000	1.000	0.0	112	0.00
58 T	a-Terpineol	0.290	0.266	8.3	96	0.00
59 T	3-Chloroaniline	0.149	0.136	8.7	100	0.00
60 T	2,6-Dichlorophenol	0.329	0.355	-7.9	114	0.00
61 T	1-chloro-2-nitrobenzene	0.139	0.130	6.5	100	0.00
62 T	Caprolactam	0.169	0.158	6.5	109	0.00
63 T	1,2,4,5-Tetrachlorobenzene	0.444	0.465	-4.7	119	0.00
64 T	Biphenyl	0.950	0.917	3.5	105	0.00
85 I	IS2_Acenaphthene-d10	1.000	1.000	0.0	120	0.00
86 T	Dichloran	0.205	0.183	10.7	116	0.00
87 T	Pentachloronitrobenzene	0.184	0.187	-1.6	114	0.00
100 I	IS2_Phenanthrene-d10	1.000	1.000	0.0	132	0.00
101 T	Diphenamid	0.466	0.411	11.8	108	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\Dakota\250619RVTa\
 Data File : AP90619.D
 Acq On : 19 Jun 2025 11:11 am
 Operator : Dakota:slr
 Sample : WG2080969-4,32,,AP9 11482 HNY0523C
 Misc : WG2080969,,ical22203
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 19 11:55:16 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:55:56 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...	4.654	152	39277	4.000	ug/ml	0.00
57) IS2_Naphthalene-d8	5.885	136	138132	4.000	ug/ml #	0.00
85) IS2_Acenaphthene-d10	7.585	164	102291	4.000	ug/ml	0.00
100) IS2_Phenanthrene-d10	9.012	188	244254	4.000	ug/ml	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.222	105	37737	4.579	ug/ml	95
29) Acetophenone	5.055	105	68720	4.724	ug/ml#	86
30) m-Toluidine	5.136	106	66812	4.566	ug/ml	94
31) 2-Chloroaniline	5.493	127	62715	4.882	ug/ml	96
58) a-Terpineol	5.944	59	45867	4.573	ug/ml	90
59) 3-Chloroaniline	5.956	65	23492	4.579	ug/ml	83
60) 2,6-Dichlorophenol	5.984	162	61213	5.387	ug/ml#	85
61) 1-chloro-2-nitrobenzene	6.236	111	22455	4.672	ug/ml#	1
62) Caprolactam	6.274	55	27218	4.661	ug/ml#	82
63) 1,2,4,5-Tetrachloroben...	6.752	216	80215	5.233	ug/ml#	94
64) Biphenyl	7.044	154	158287	4.824	ug/ml	98
86) Dichloran	8.710	206	23433	4.467	ug/ml#	55
87) Pentachloronitrobenzene	8.859	237	23851	5.056	ug/ml#	76
101) Diphenamid	9.916	167	125557	4.415	ug/ml#	74

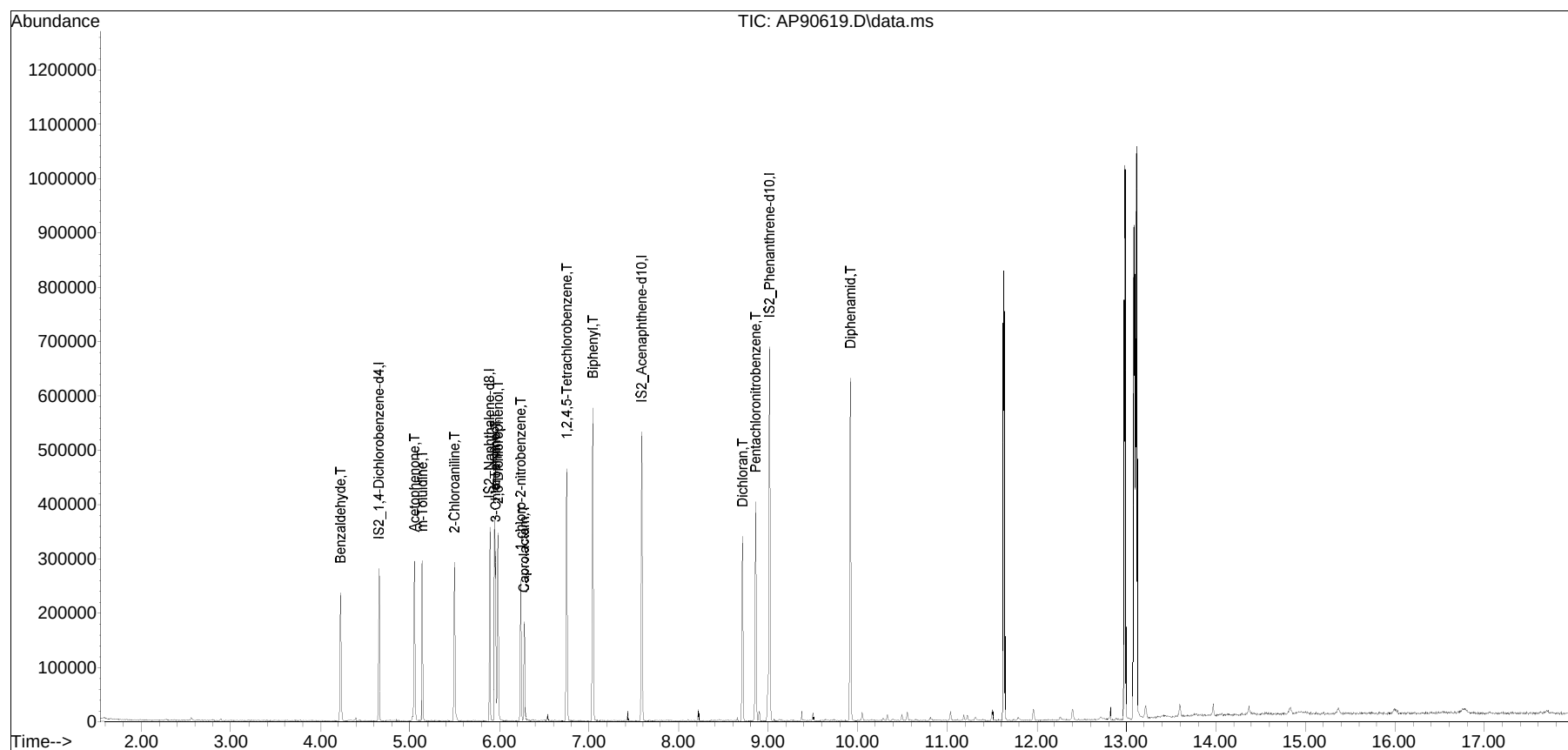
(#) = qualifier out of range (m) = manual integration (+) = signals summed

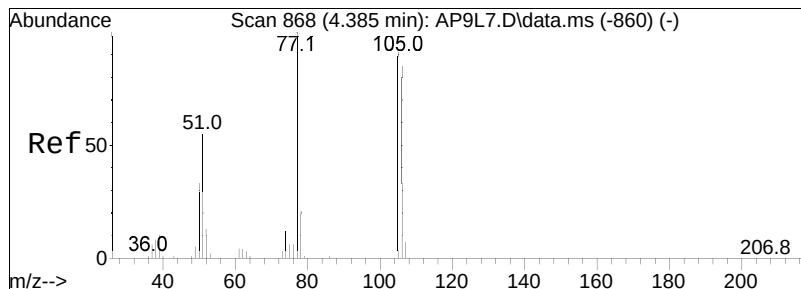
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : AP90619.D
 Acq On : 19 Jun 2025 11:11 am
 Operator : Dakota:slr
 Sample : WG2080969-4,32,,AP9 11482 HNY0523C
 Misc : WG2080969,,ical22203
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 19 11:55:16 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:55:56 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist





#28

Benzaldehyde

Concen: 4.58 ug/ml

RT: 4.222 min Scan# 864

Delta R.T. 0.000 min

Lab File: AP90619.D

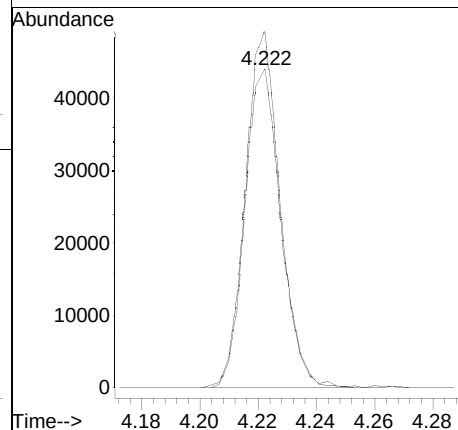
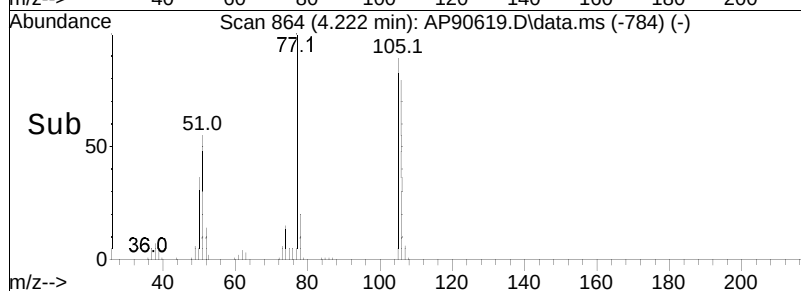
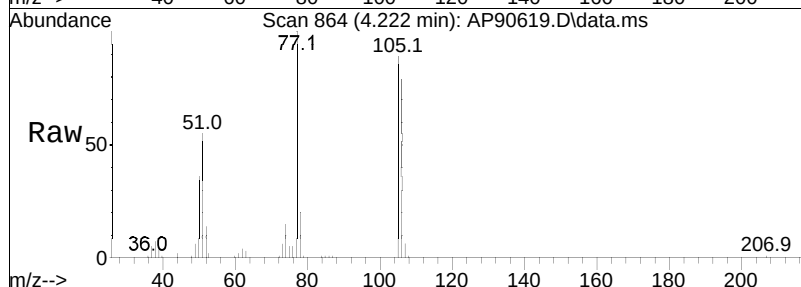
Acq: 19 Jun 2025 11:11 am

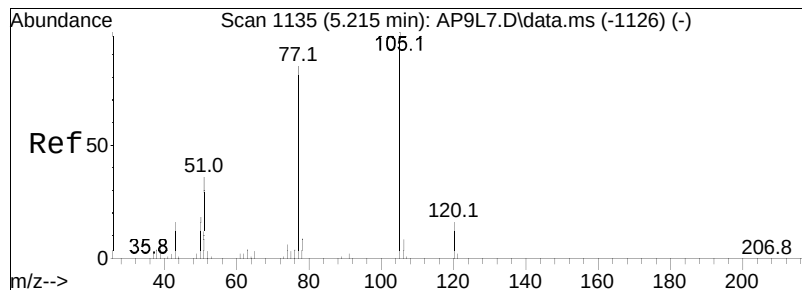
Tgt Ion:105 Resp: 37737

Ion Ratio Lower Upper

105 100

77 108.1 82.2 123.4





#29

Acetophenone

Concen: 4.72 ug/ml

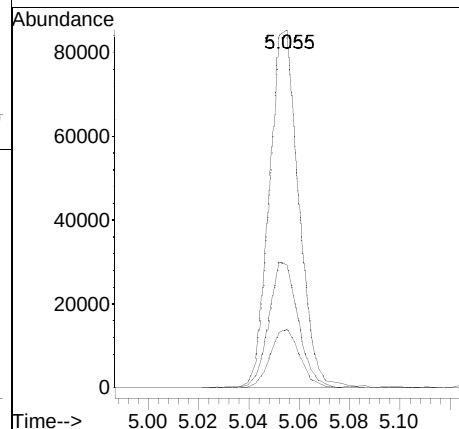
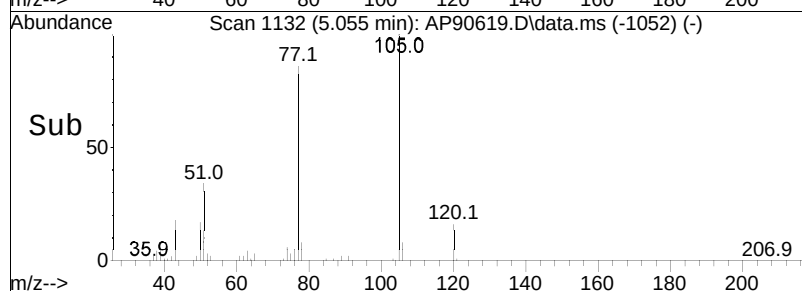
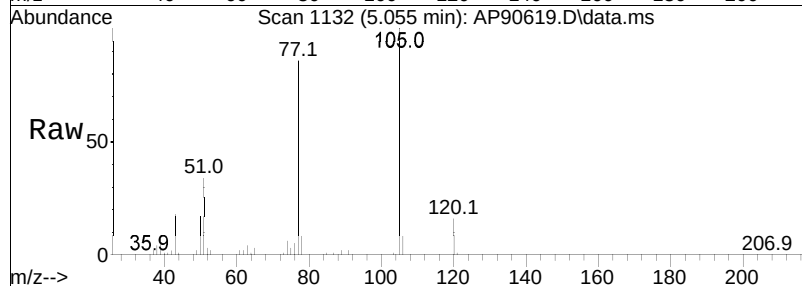
RT: 5.055 min Scan# 1132

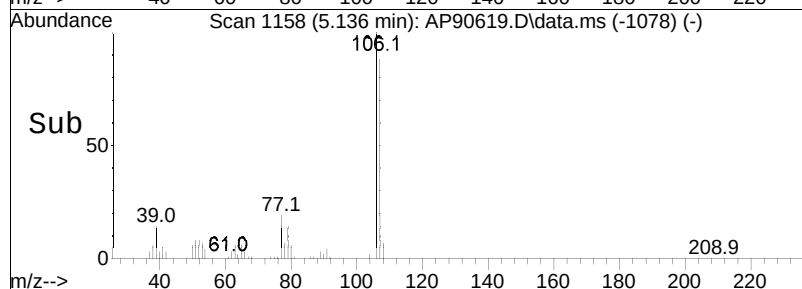
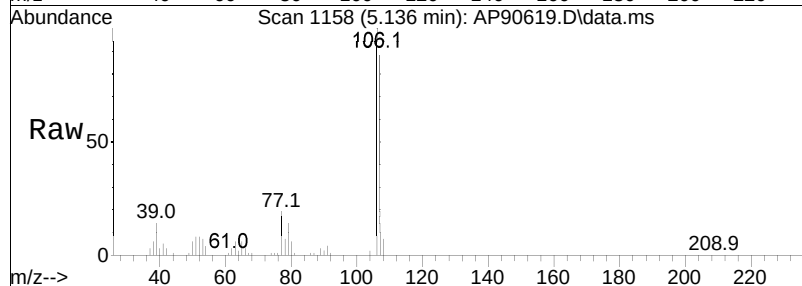
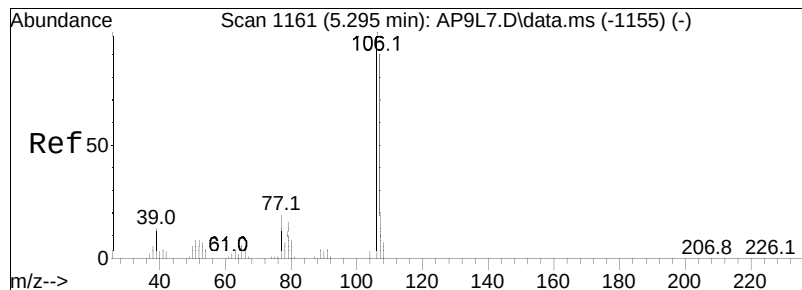
Delta R.T. 0.000 min

Lab File: AP90619.D

Acq: 19 Jun 2025 11:11 am

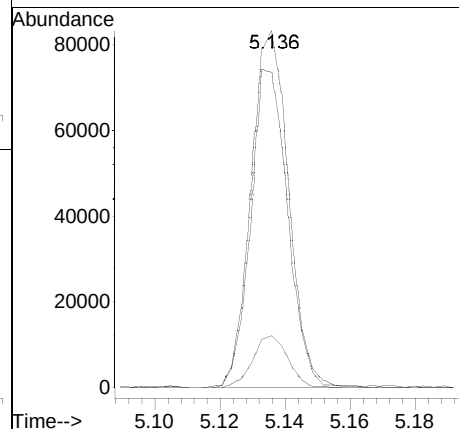
Tgt Ion:	105	Resp:	68720
Ion Ratio	Lower	Upper	
105	100		
120	16.7	20.5	30.7#
51	35.5	34.9	52.3

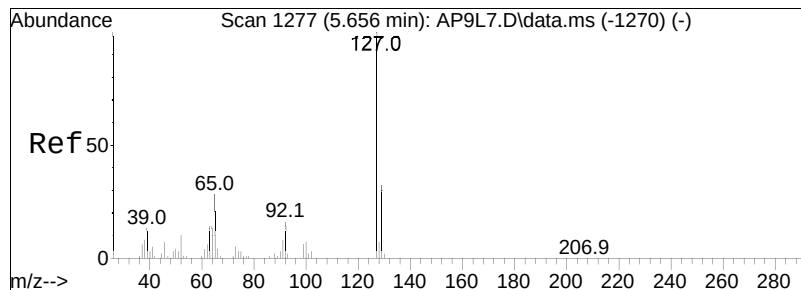




#30
 m-Toluidine
 Concen: 4.57 ug/ml
 RT: 5.136 min Scan# 1158
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 11:11 am

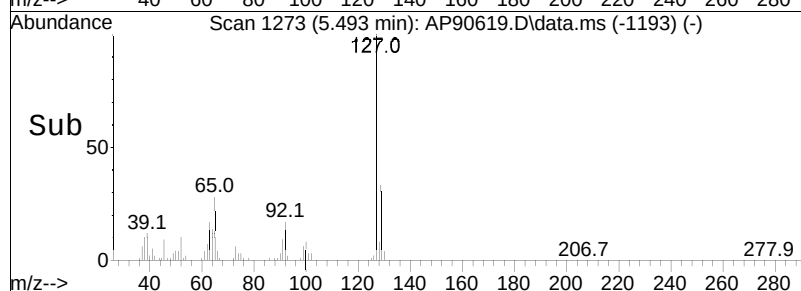
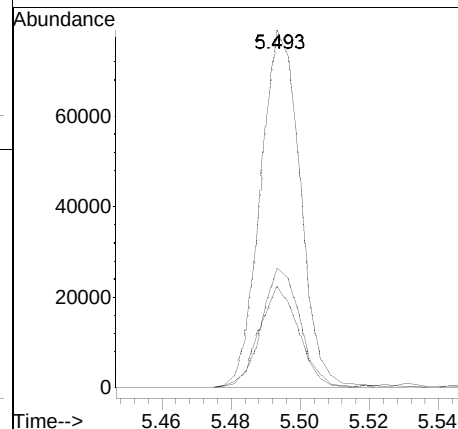
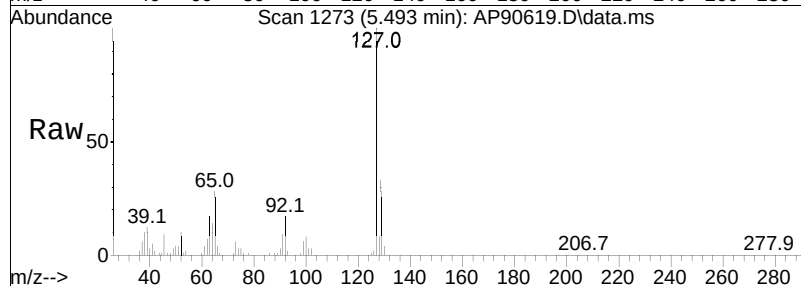
Tgt Ion	Ratio	Lower	Upper
106	100		
107	88.0	75.7	113.5
79	13.8	11.8	17.8

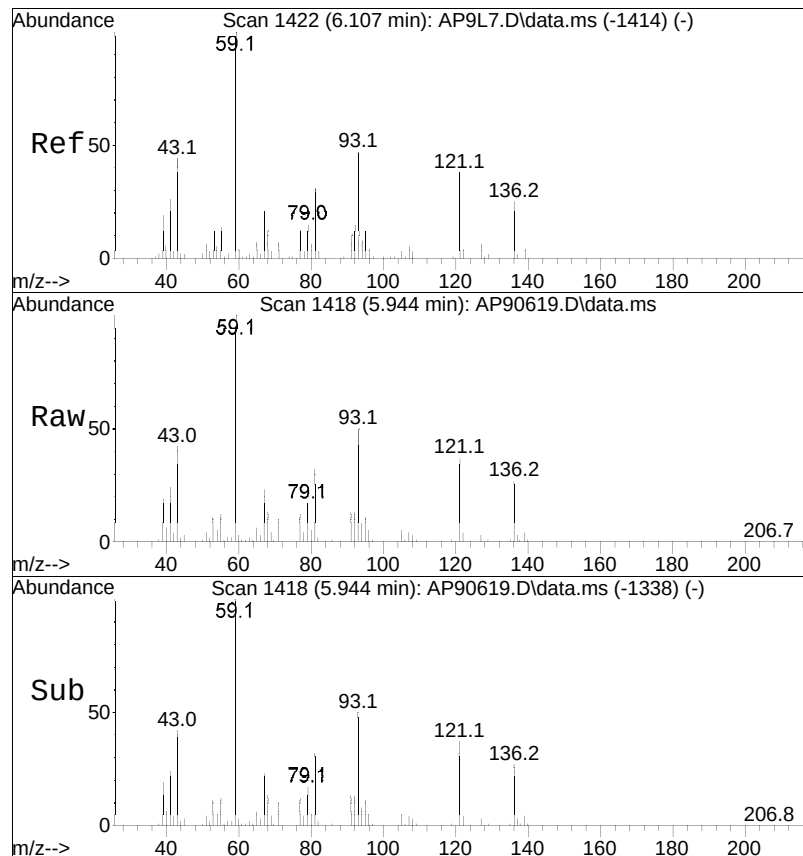




#31
 2-Chloroaniline
 Concen: 4.88 ug/ml
 RT: 5.493 min Scan# 1273
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 11:11 am

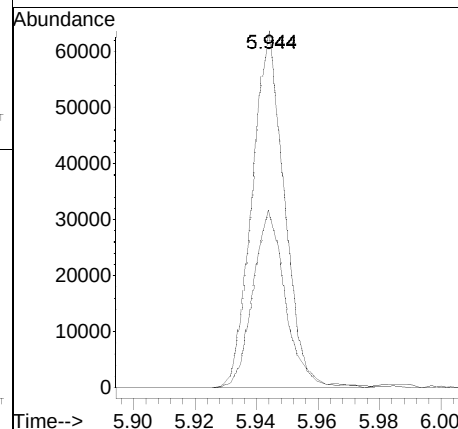
Tgt Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.9	38.9
65	28.2	26.3	39.5

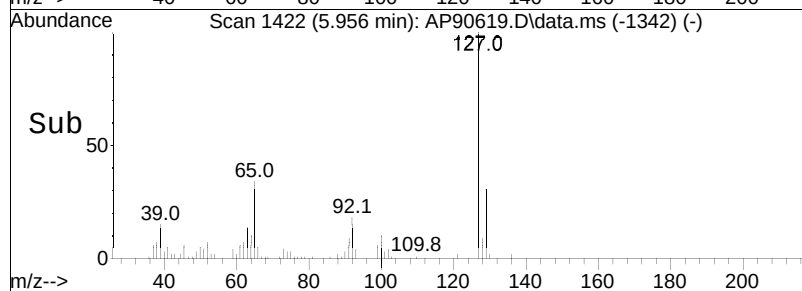
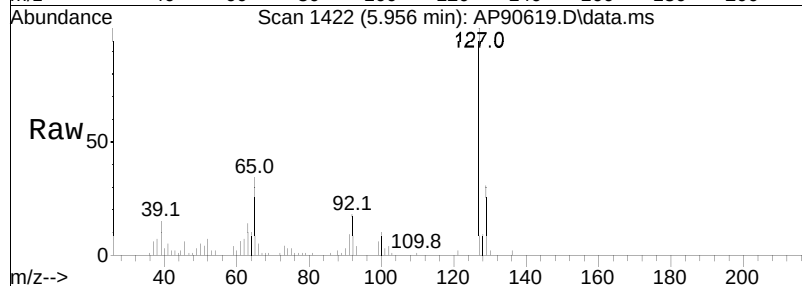
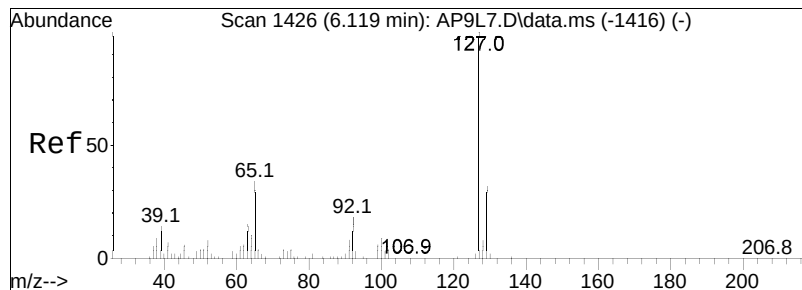




#58
a-Terpineol
Concen: 4.57 ug/ml
RT: 5.944 min Scan# 1418
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2025 11:11 am

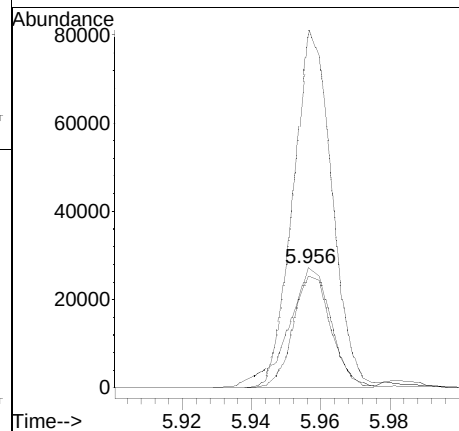
Tgt Ion	Ratio	Lower	Upper
59	100		
93	50.7	35.6	53.4

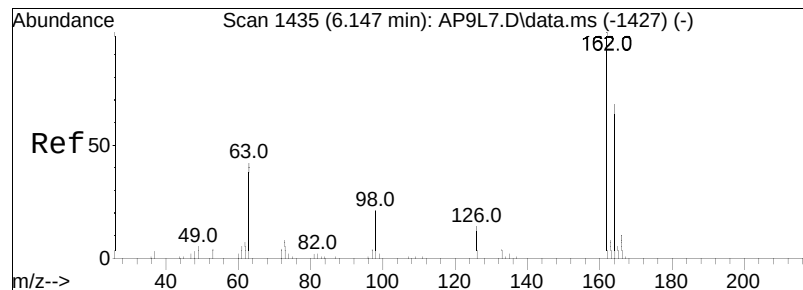




#59
 3-Chloroaniline
 Concen: 4.58 ug/ml
 RT: 5.956 min Scan# 1422
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 11:11 am

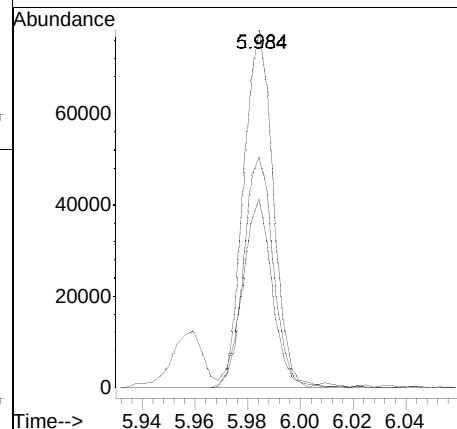
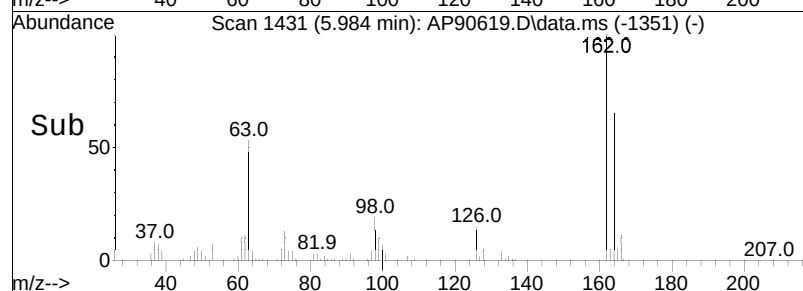
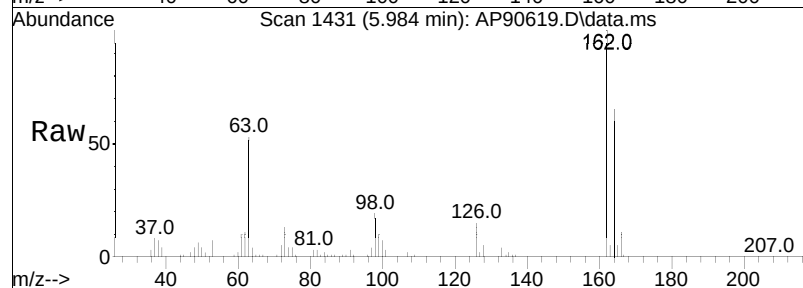
Tgt Ion	Ratio	Lower	Upper
65	100		
127	267.8	243.2	364.8
129	84.6	78.8	118.2

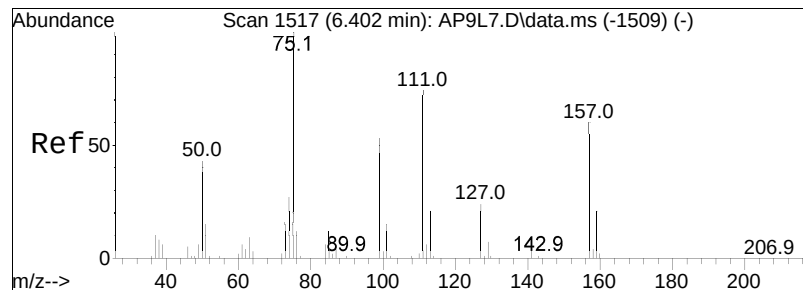




#60
 2,6-Dichlorophenol
 Concen: 5.39 ug/ml
 RT: 5.984 min Scan# 1431
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 11:11 am

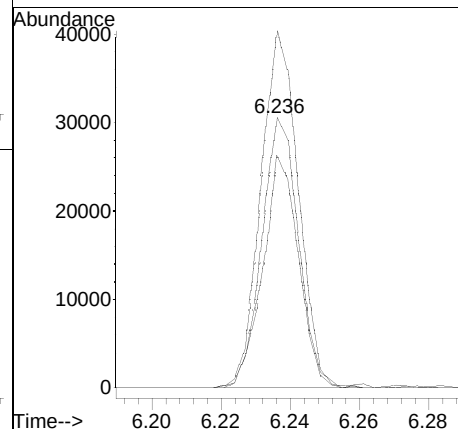
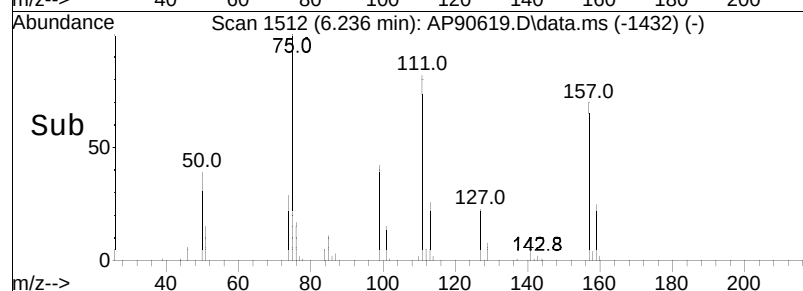
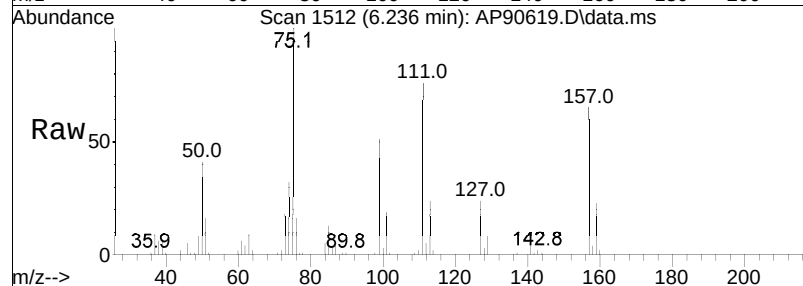
Tgt Ion	Ratio	Lower	Upper
162	100		
164	64.0	51.1	76.7
63	52.5	60.8	91.2

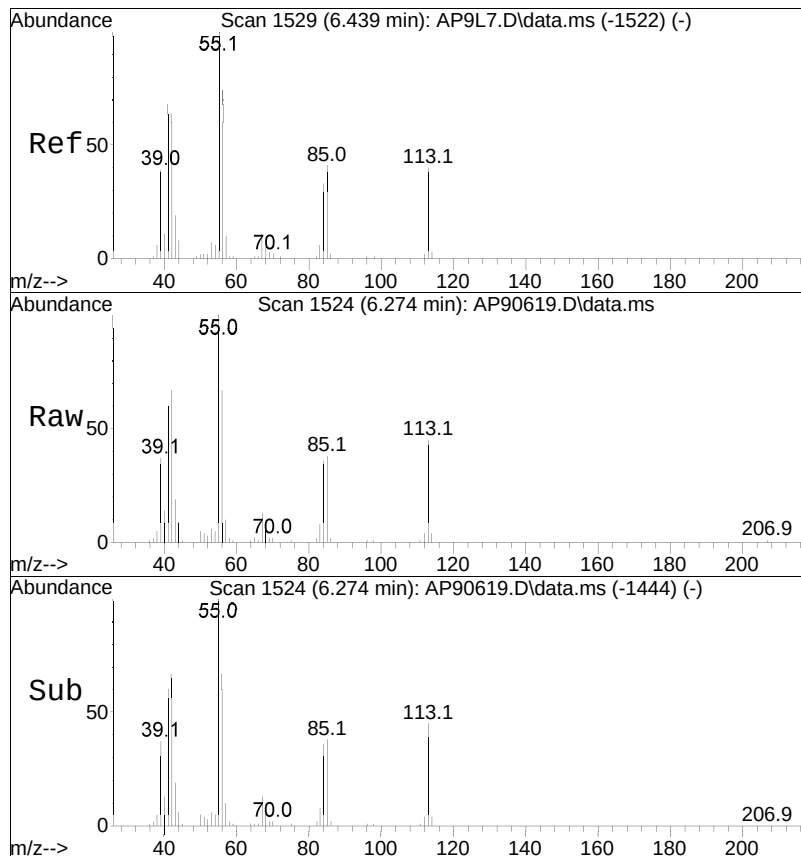




#61
 1-chloro-2-nitrobenzene
 Concen: 4.67 ug/ml
 RT: 6.236 min Scan# 1512
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 11:11 am

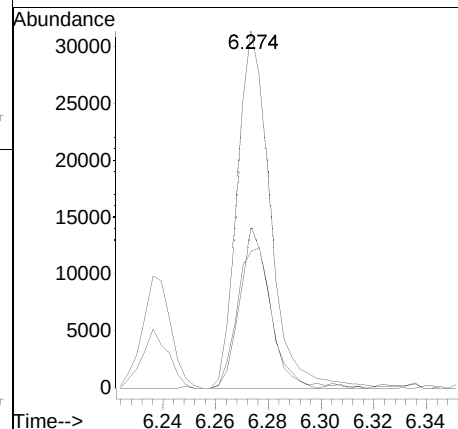
Tgt Ion	Ratio	Resp	Lower	Upper
111	100	22455		
157	83.5	0.0	0.0#	
75	135.1	28.2	42.2#	

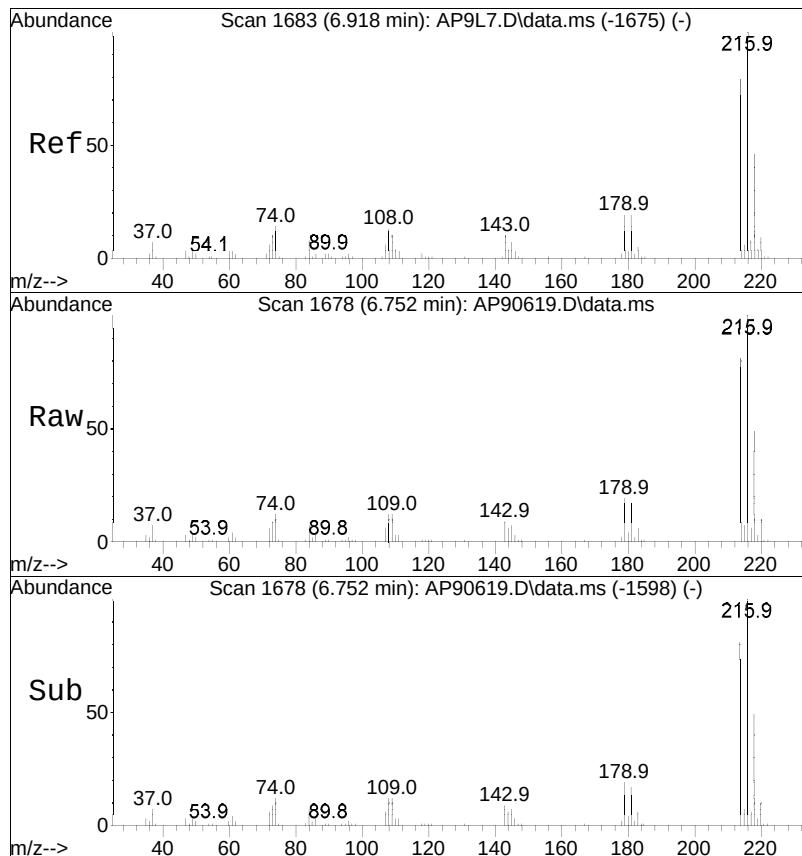




#62
 Caprolactam
 Concen: 4.66 ug/ml
 RT: 6.274 min Scan# 1524
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 11:11 am

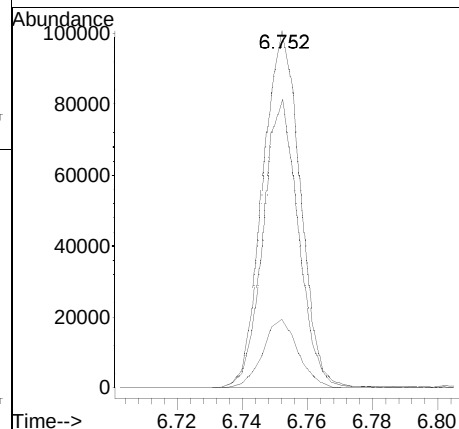
Tgt Ion:	55	Resp:	27218
Ion Ratio	Lower	Upper	
55	100		
85	42.4	19.8	29.6#
113	40.4	29.6	44.4

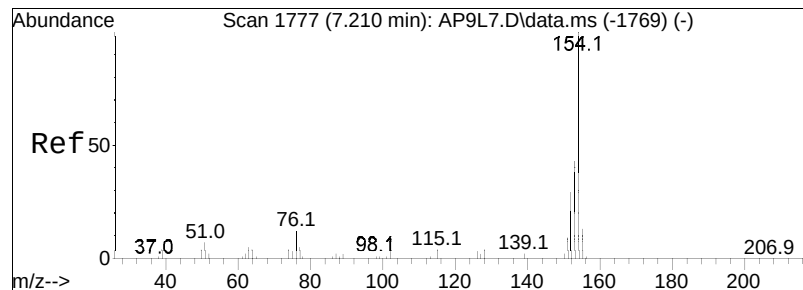




#63
 1,2,4,5-Tetrachlorobenzene
 Concen: 5.23 ug/ml
 RT: 6.752 min Scan# 1678
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 11:11 am

Tgt Ion	Ratio	Resp	Lower	Upper
216	100	80215		
214	76.2		63.7	95.5
179	18.2		19.0	28.6#





#64

Biphenyl

Concen: 4.82 ug/ml

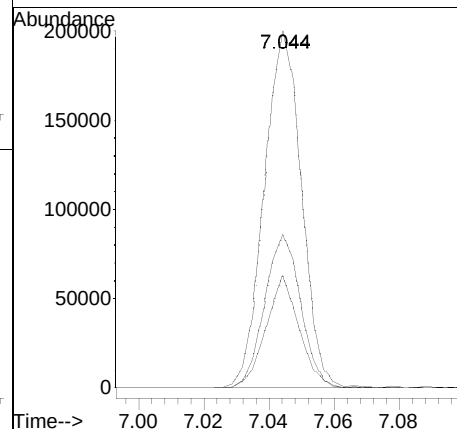
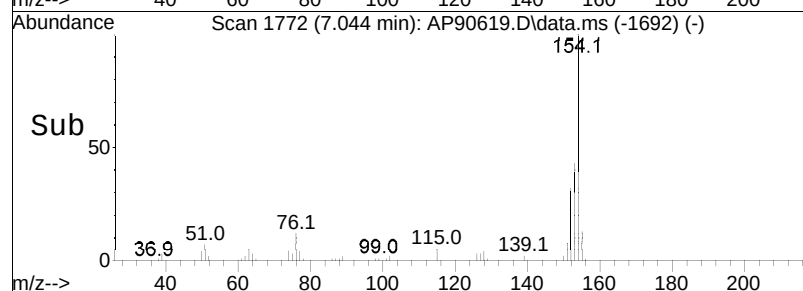
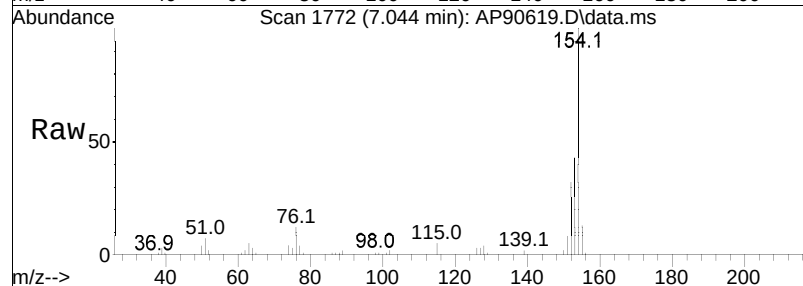
RT: 7.044 min Scan# 1772

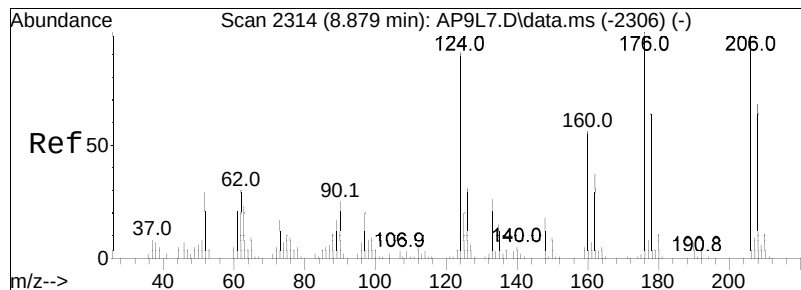
Delta R.T. 0.000 min

Lab File: AP90619.D

Acq: 19 Jun 2025 11:11 am

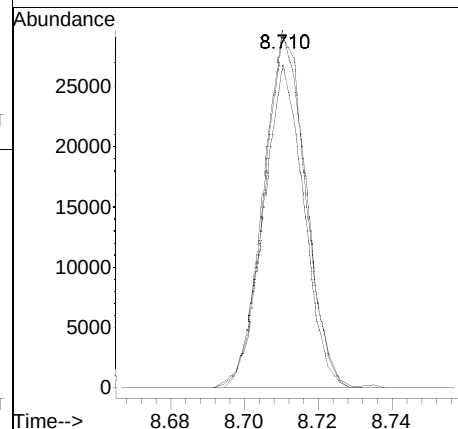
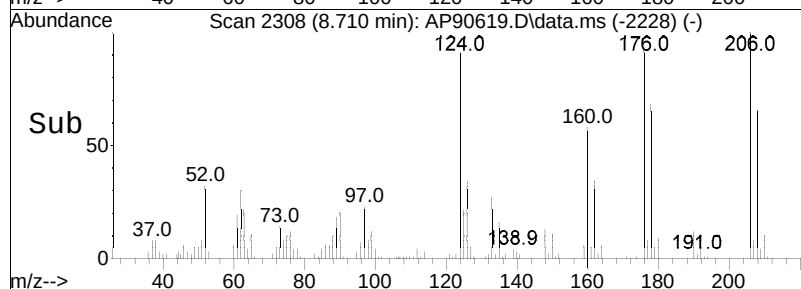
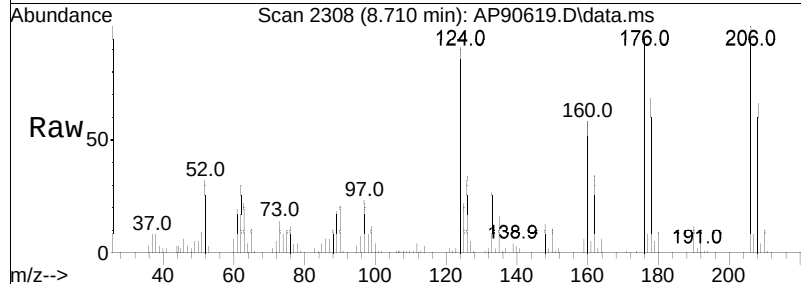
Tgt Ion:	154	Resp:	158287
Ion Ratio	Lower	Upper	
154	100		
153	41.9	32.3	48.5
152	28.3	22.5	33.7

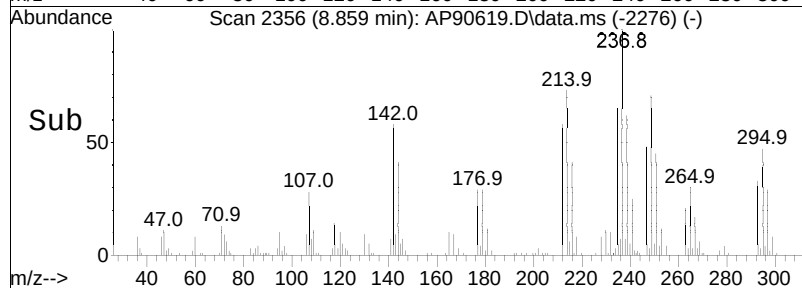
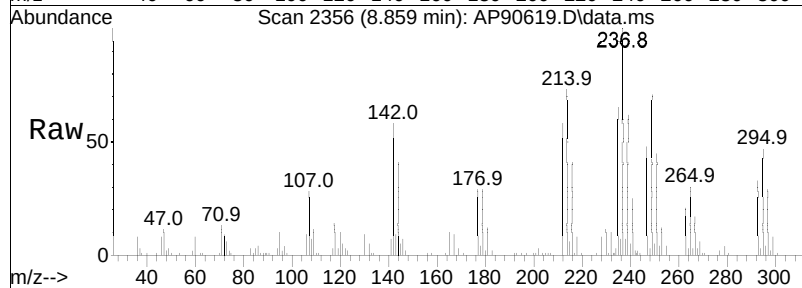
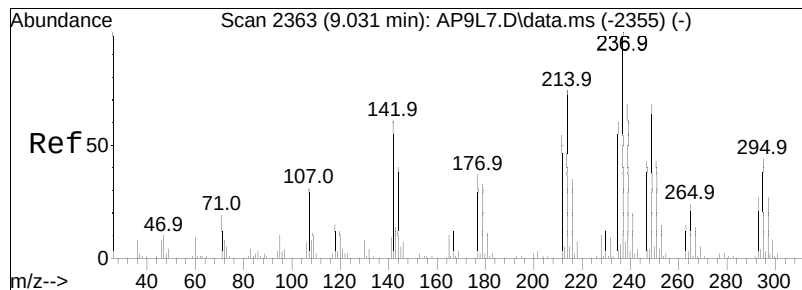




#86
 Dichloran
 Concen: 4.47 ug/ml
 RT: 8.710 min Scan# 2308
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 11:11 am

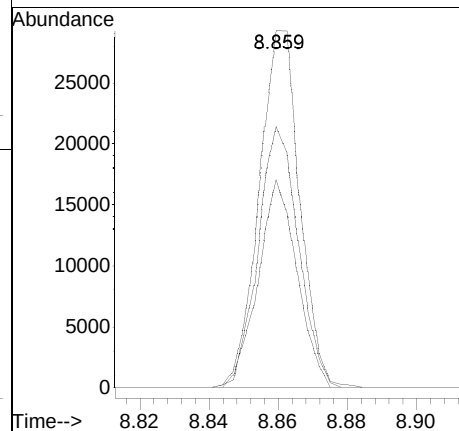
Tgt Ion	Ratio	Lower	Upper
206	100		
176	96.9	104.6	157.0#
124	86.8	130.5	195.7#

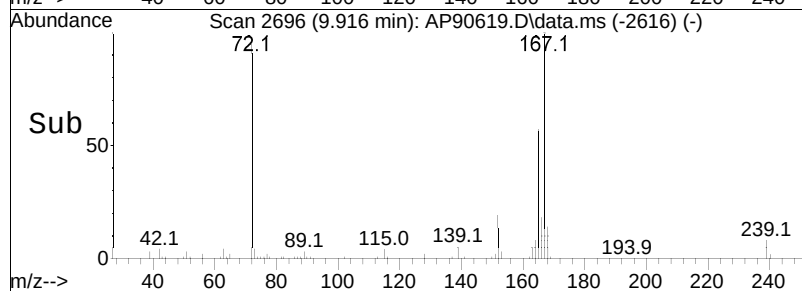
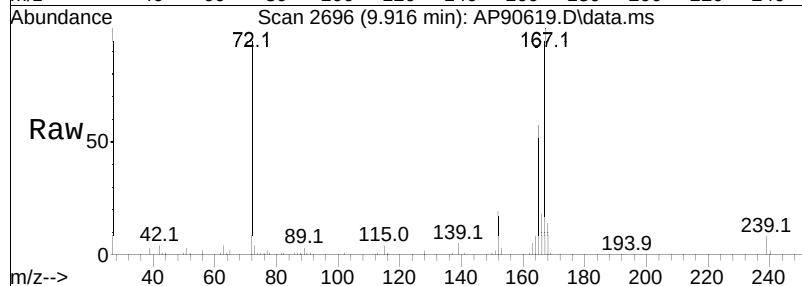
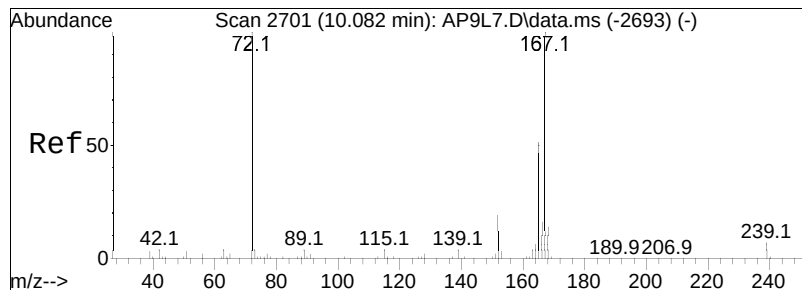




#87
 Pentachloronitrobenzene
 Concen: 5.06 ug/ml
 RT: 8.859 min Scan# 2356
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 11:11 am

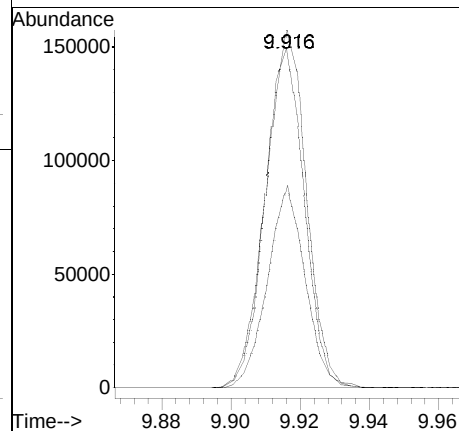
Tgt Ion	Ratio	Lower	Upper
237	100		
142	55.8	77.0	115.4#
214	72.4	58.2	87.4





#101
 Diphenamid
 Concen: 4.41 ug/ml
 RT: 9.916 min Scan# 2696
 Delta R.T. 0.000 min
 Lab File: AP90619.D
 Acq: 19 Jun 2025 11:11 am

Tgt Ion	Ratio	Lower	Upper
167	100		
72	94.5	109.7	164.5#
165	53.4	41.8	62.6



Manual Integration Report

Data Path : I:\8270\Dakota\250619RVTa\QMethod : FS250416RVT_Dakota.m
Data File : AP90619.D Operator : Dakota:slr
Date Inj'd : 6/19/2025 11:11 am Instrument : Dakota
Sample : WG2080969-4,32,,AP9 11482 Quant Date : 6/19/2025 11:56 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : ADP0619.D
 Acq On : 19 Jun 2025 11:33 am
 Operator : Dakota:slr
 Sample : WG2080969-5,32,,ADP 11661 dv0617A
 Misc : WG2080969,,ical22203
 ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 19 11:56:01 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:45 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	0.431	0.413	4.2	92	0.00
35 T	n-Decane	1.345	1.328	1.3	93	0.00
88 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	92	0.00
89 T	Atrazine	0.423	0.463	-9.5	107	0.00
102 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	101	0.00
103 T	n-Octadecane	0.392	0.345	12.0	90	0.00
104 T	Parathion	* 5.000	4.420	11.6	100	0.00
105 T	3,3'-Dimethylbenzidine	* 5.000	3.678	26.4#	82	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\Dakota\250619RVTa\
 Data File : ADP0619.D
 Acq On : 19 Jun 2025 11:33 am
 Operator : Dakota:slr
 Sample : WG2080969-5,32,,ADP 11661 dv0617A
 Misc : WG2080969,,ical22203
 ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 19 11:56:01 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:45 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...	4.654	152	33358	4.000	ug/ml	0.00
88) IS3_Acenaphthene-d10	7.585	164	80426	4.000	ug/ml	0.00
102) IS3_Phenanthrene-d10	9.015	188	191146	4.000	ug/ml	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.736	88	17215	4.794	ug/ml#	70
35) n-Decane	4.545	57	55377	4.936	ug/ml#	30
89) Atrazine	8.788	200	46574	5.470	ug/ml#	89
103) n-Octadecane	8.993	57	82479	4.398	ug/ml#	1
104) Parathion	9.798	109	19484	4.420	ug/ml	90
105) 3,3'-Dimethylbenzidine	11.069	212	138534	3.678	ug/ml	99

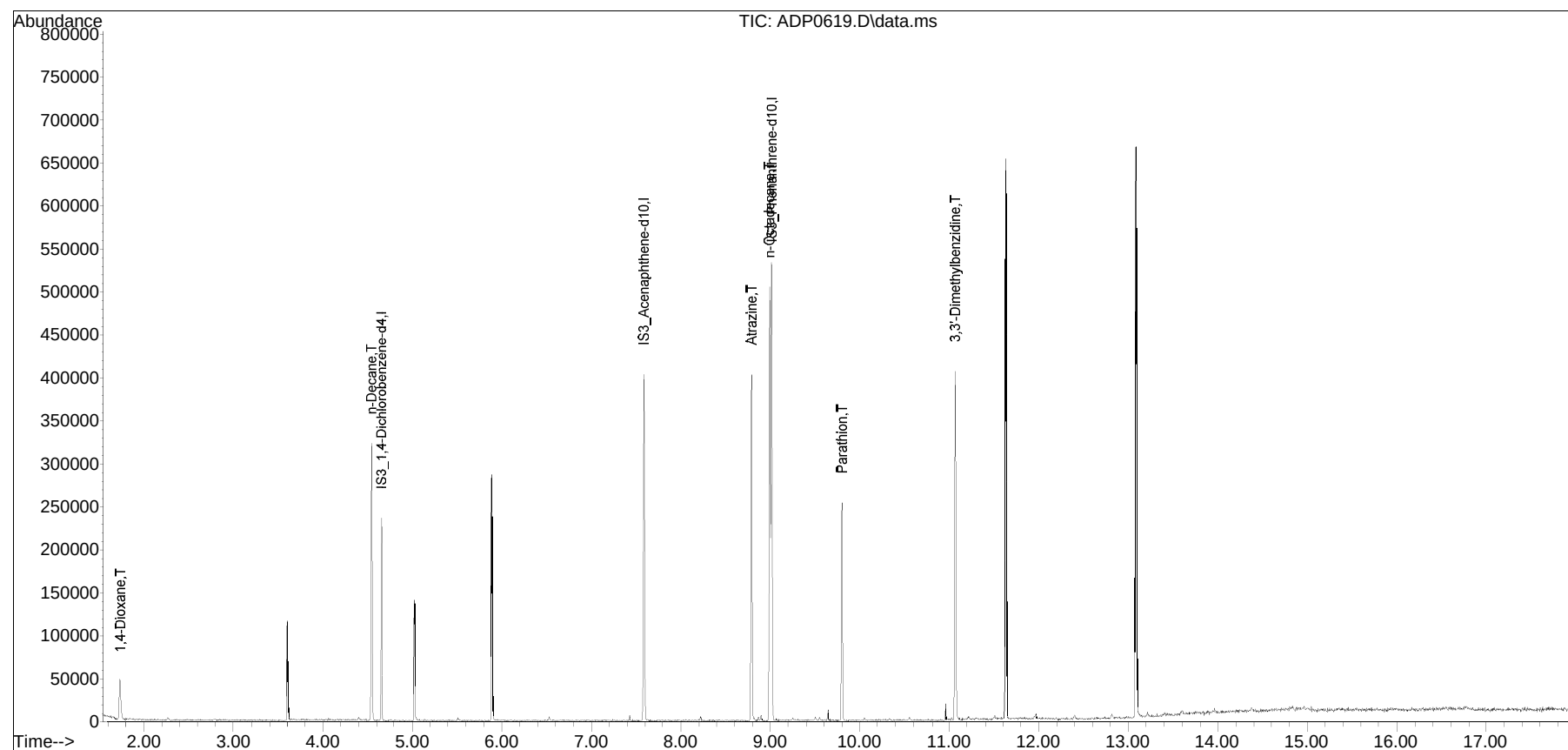
(#) = qualifier out of range (m) = manual integration (+) = signals summed

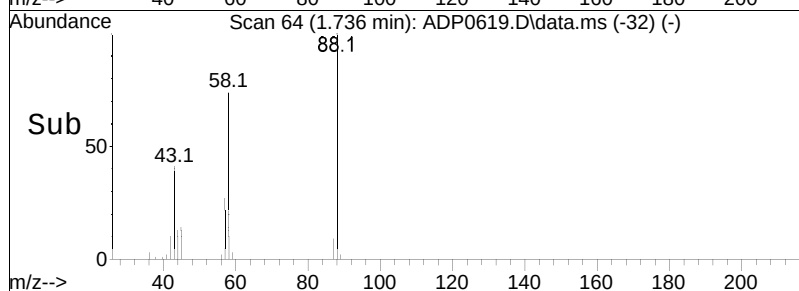
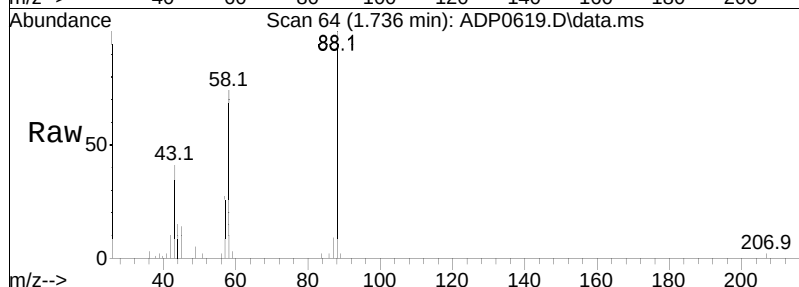
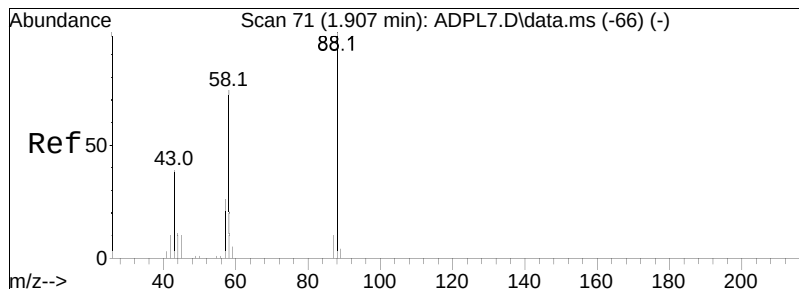
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
Data File : ADP0619.D
Acq On : 19 Jun 2025 11:33 am
Operator : Dakota:slr
Sample : WG2080969-5,32,,ADP 11661 dv0617A
Misc : WG2080969,,ical22203
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 19 11:56:01 2025
Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 19 11:56:45 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist





#33

1,4-Dioxane

Concen: 4.79 ug/ml

RT: 1.736 min Scan# 64

Delta R.T. 0.000 min

Lab File: ADP0619.D

Acq: 19 Jun 2025 11:33 am

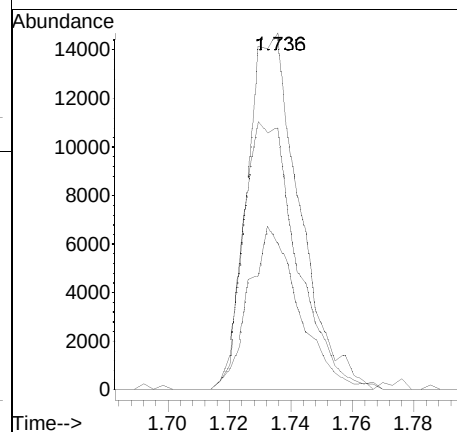
Tgt Ion: 88 Resp: 17215

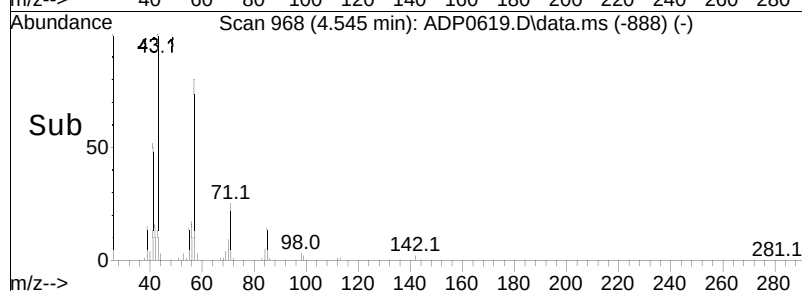
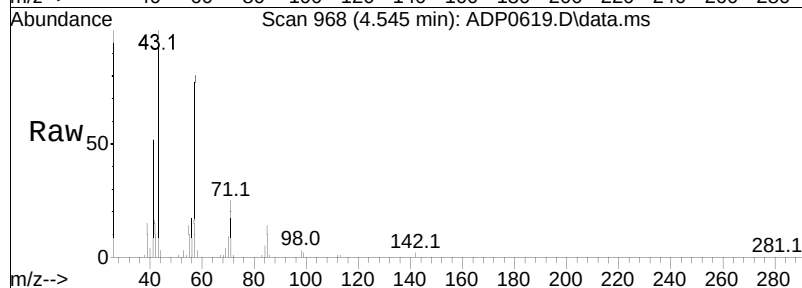
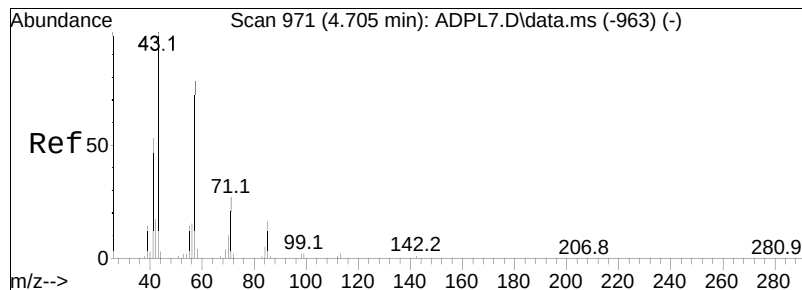
Ion Ratio Lower Upper

88 100

58 77.5 44.8 67.2#

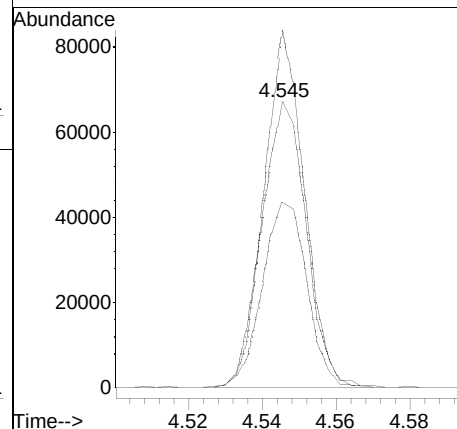
43 44.7 22.4 33.6#

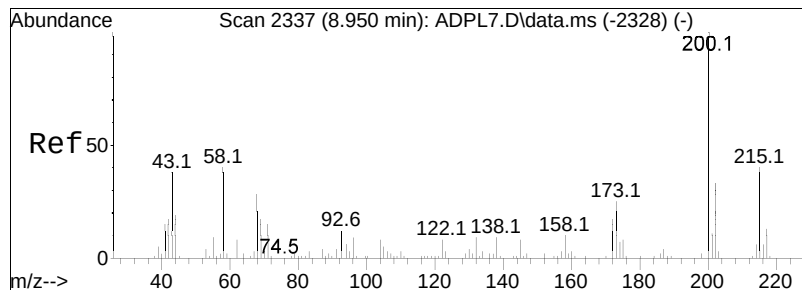




#35
n-Decane
Concen: 4.94 ug/ml
RT: 4.545 min Scan# 968
Delta R.T. 0.000 min
Lab File: ADP0619.D
Acq: 19 Jun 2025 11:33 am

Tgt	Ion	Ratio	Lower	Upper
57	100			
43	115.3	0.2	0.2#	
41	65.7	0.2	0.2#	





#89

Atrazine

Concen: 5.47 ug/ml

RT: 8.788 min Scan# 2333

Delta R.T. 0.000 min

Lab File: ADP0619.D

Acq: 19 Jun 2025 11:33 am

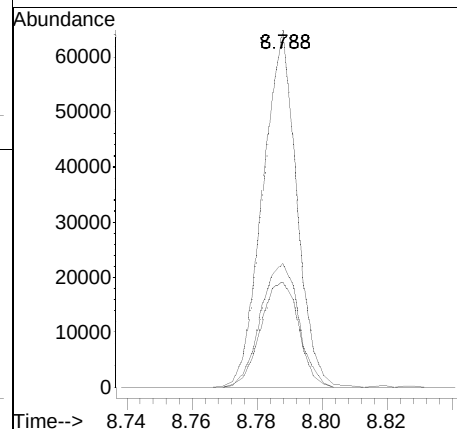
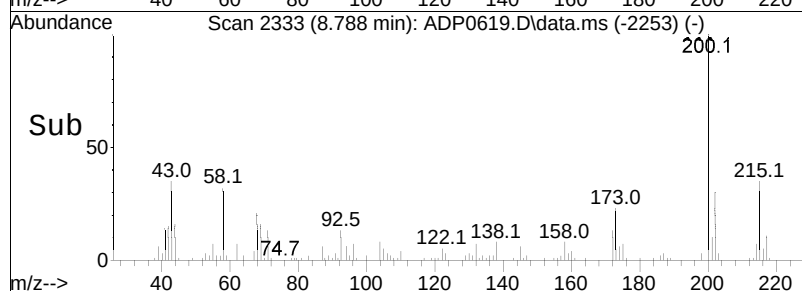
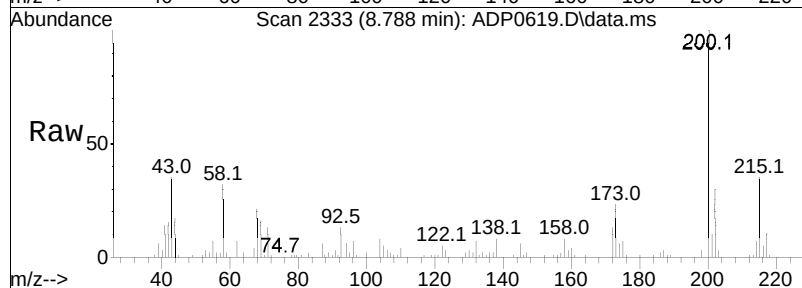
Tgt Ion: 200 Resp: 46574

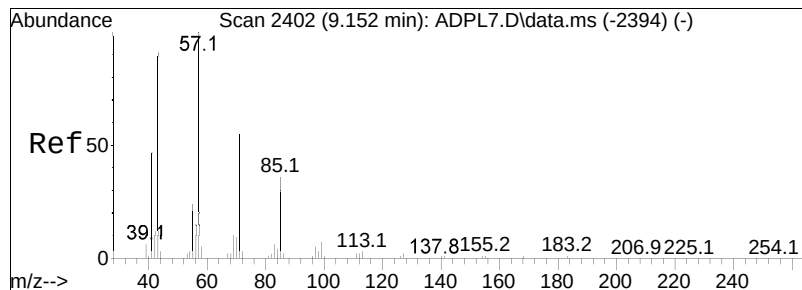
Ion Ratio Lower Upper

200 100

202 33.2 25.8 38.6

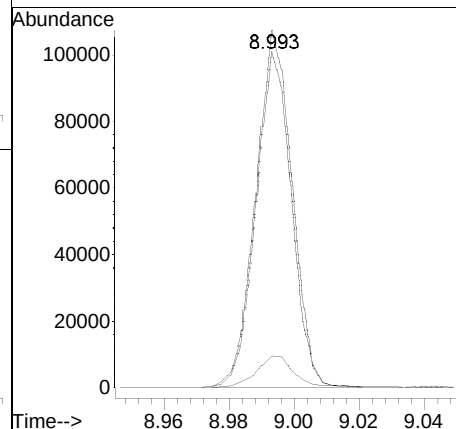
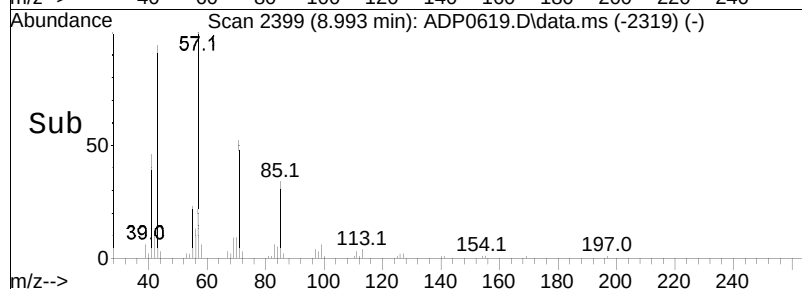
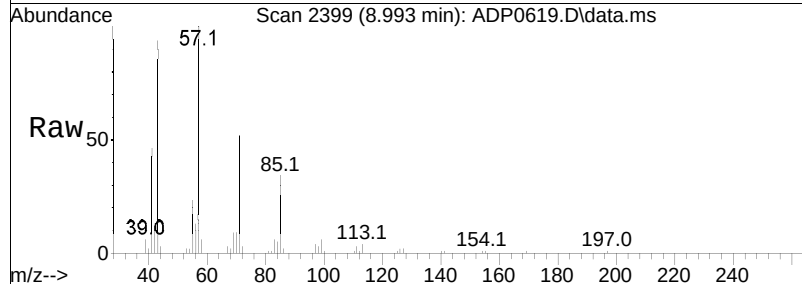
215 39.2 40.2 60.4#

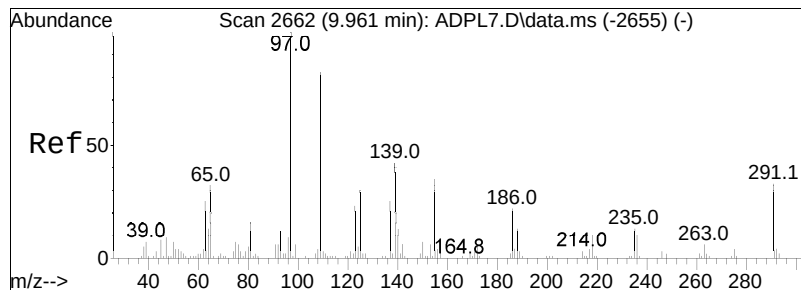




#103
 n-Octadecane
 Concen: 4.40 ug/ml
 RT: 8.993 min Scan# 2399
 Delta R.T. 0.000 min
 Lab File: ADP0619.D
 Acq: 19 Jun 2025 11:33 am

Tgt Ion:	57	Resp:	82479
Ion Ratio	Lower	Upper	
57	100		
43	92.2	9.0	13.6#
70	9.2	0.2	0.2#





#104

Parathion

Concen: 4.42 ug/ml

RT: 9.798 min Scan# 2658

Delta R.T. 0.000 min

Lab File: ADP0619.D

Acq: 19 Jun 2025 11:33 am

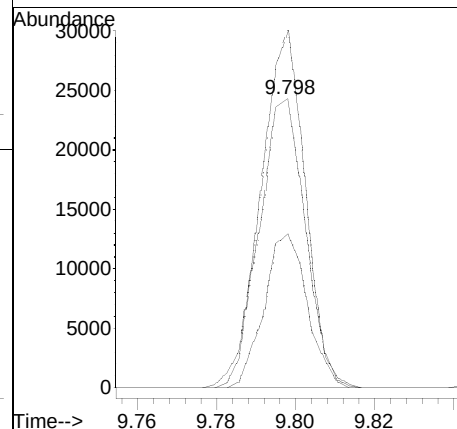
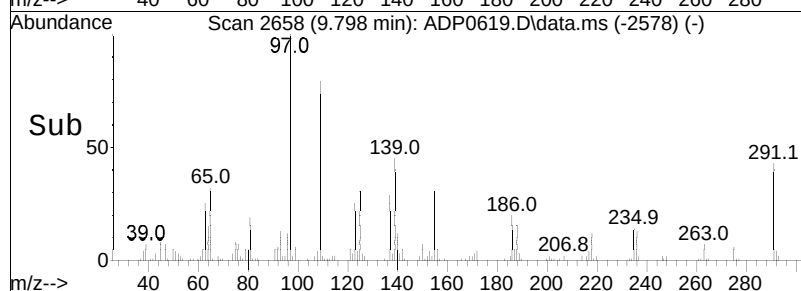
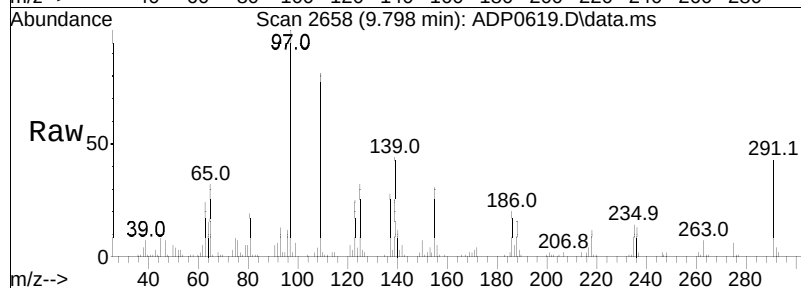
Tgt Ion:109 Resp: 19484

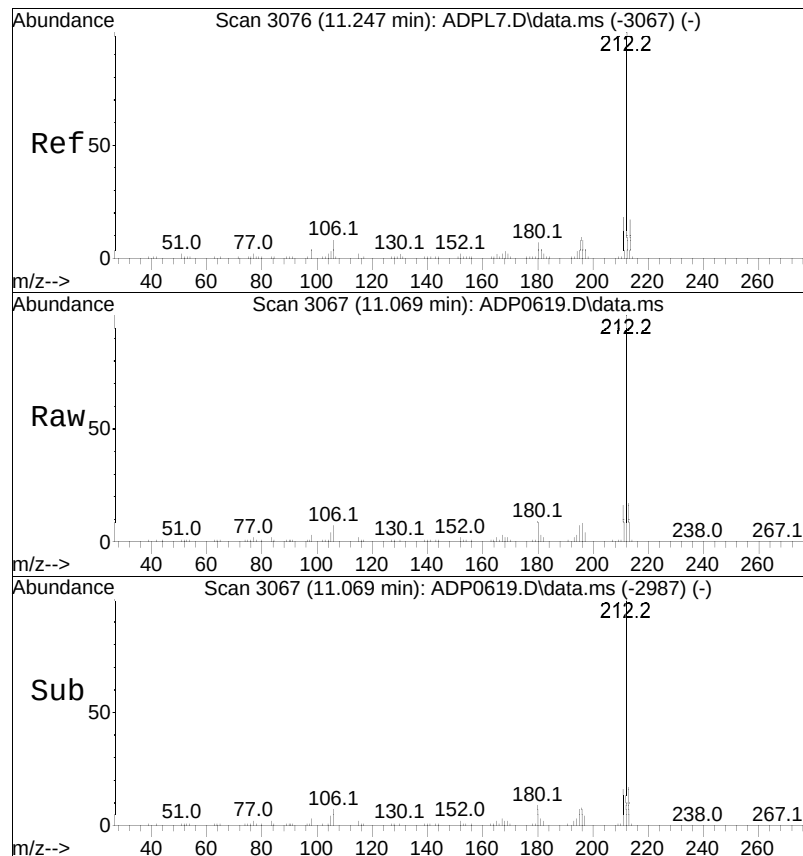
Ion Ratio Lower Upper

109 100

97 119.7 87.4 131.2

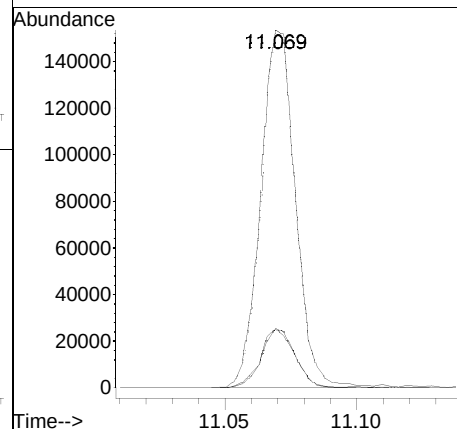
291 50.2 34.2 51.2





#105
 3,3'-Dimethylbenzidine
 Concen: 3.68 ug/ml
 RT: 11.069 min Scan# 3067
 Delta R.T. 0.000 min
 Lab File: ADP0619.D
 Acq: 19 Jun 2025 11:33 am

Tgt Ion	Ratio	Resp	Lower	Upper
212	100	138534		
211	16.5		12.9	19.3
213	16.2		13.2	19.8



Manual Integration Report

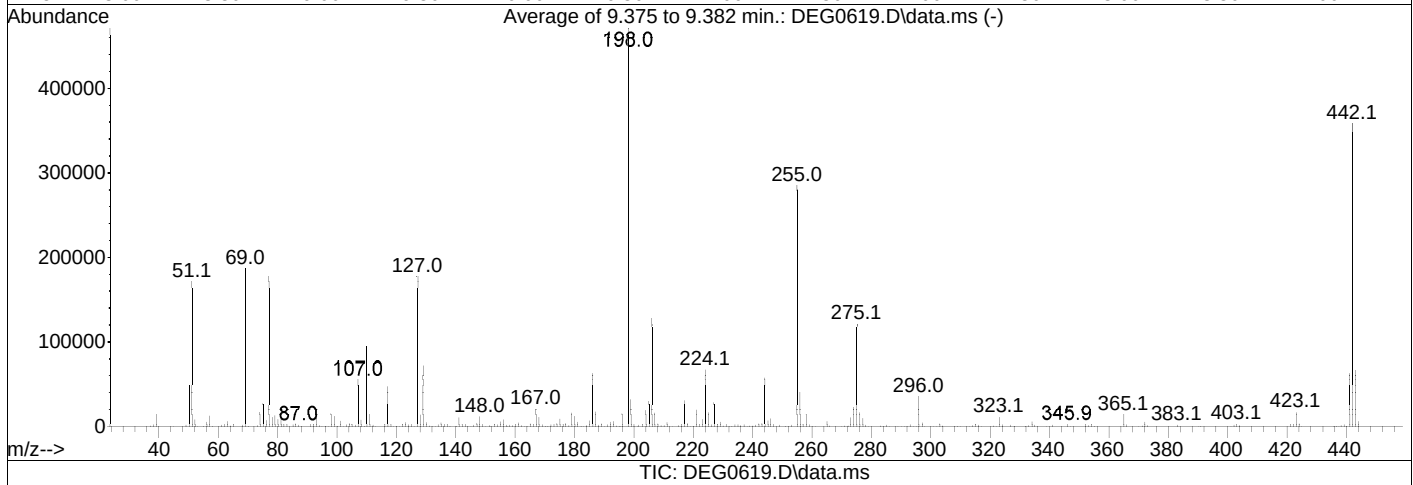
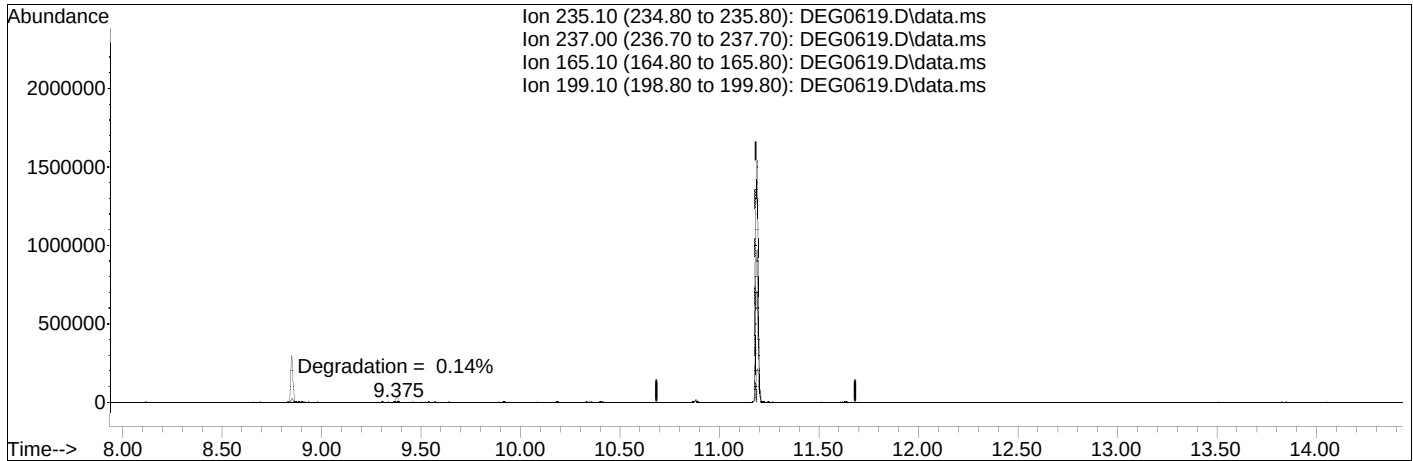
Data Path : I:\8270\Dakota\250619RVTa\QMethod : FS250416RVT_Dakota.m
Data File : ADP0619.D Operator : Dakota:slr
Date Inj'd : 6/19/2025 11:33 am Instrument : Dakota
Sample : WG2080969-5,32,,ADP 11661 Quant Date : 6/19/2025 11:56 am

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

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250619RVTa\
Data File : DEG0619.D
Acq On : 19 Jun 2025 10:26 am
Operator : Dakota:slr
Sample : WG2080969-2,32,,Degdftpp Lot # 11649
Misc : WG2080969,,ical22203
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 19 11:01:30 2025
Quant Method : I:\8270\Dakota\250619RVTa\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 17 01:09:39 2025
Response via : Initial Calibration



(6) DDT (T)

11.191min (+ 0.007) 222.57

response 1356755

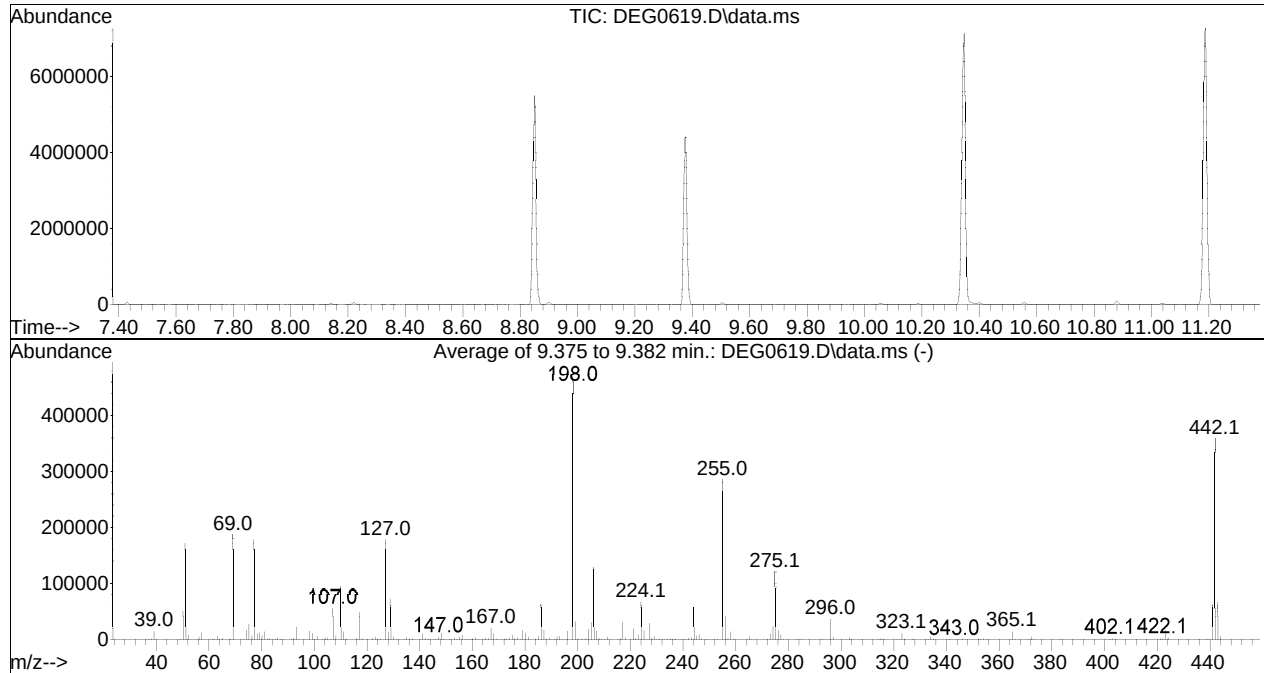
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.90	63.94
165.10	48.70	46.64
199.10	15.80	14.36

DFTPP

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : DEG0619.D
 Acq On : 19 Jun 2025 10:26 am
 Operator : Dakota:gmr
 Sample : WG2080969-1,32,,Degdftpp Lot # 11649
 Misc : WG2080969,,ical22203
 ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Jun 19 11:09:42 2025



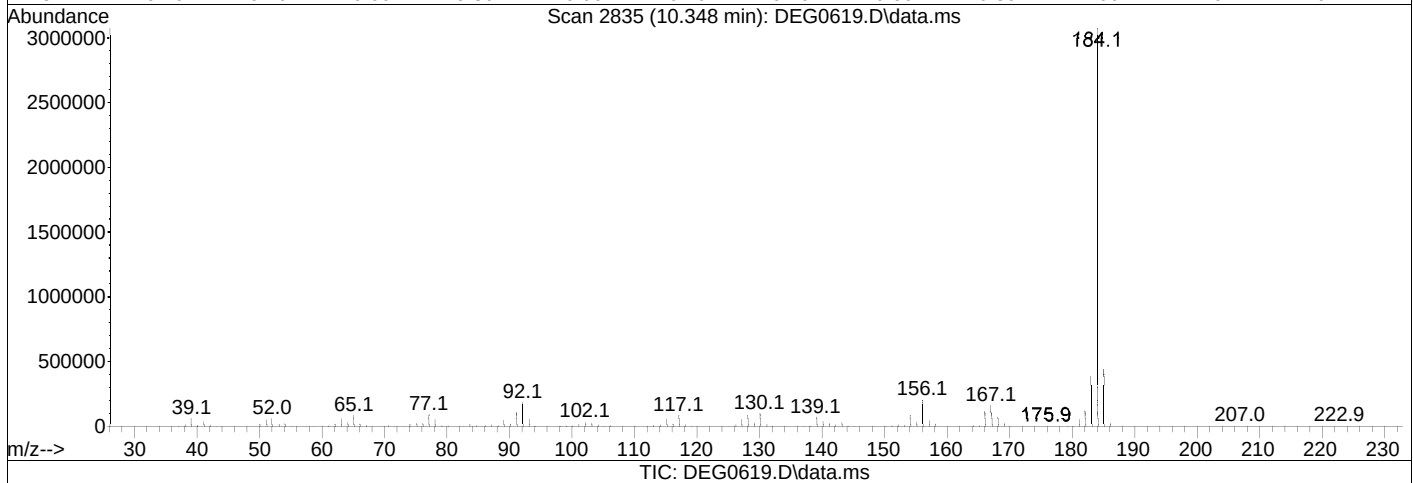
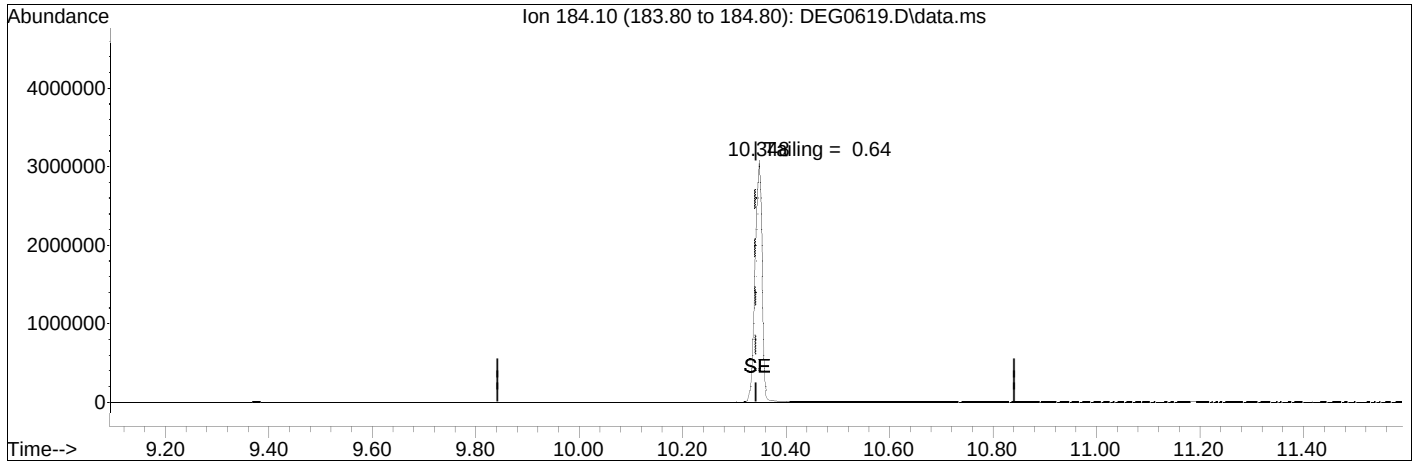
Spectrum Information: Average of 9.375 to 9.382 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.4	171400	PASS
68	69	0.00	2	1.1	2063	PASS
69	69	100	100	100.0	187026	PASS
70	69	0.00	2	0.5	954	PASS
127	198	10	80	37.7	177688	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	471296	PASS
199	198	5	9	6.7	31579	PASS
275	198	10	60	25.7	121133	PASS
365	198	1	100	3.0	14307	PASS
441	442	0.01	24	17.7	63507	PASS
442	198	50	100	76.1	358635	PASS
443	442	15	24	18.7	67016	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250619RVTa\
Data File : DEG0619.D
Acq On : 19 Jun 2025 10:26 am
Operator : Dakota:slr
Sample : WG2080969-6,32,,Degdftpp Lot # 11649
Misc : WG2080969,,ical22203
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 19 11:01:30 2025
Quant Method : I:\8270\Dakota\250619RVTa\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 17 01:09:39 2025
Response via : Initial Calibration



(3) Benzidine (T)

10.348min (+ 0.006) 261.57

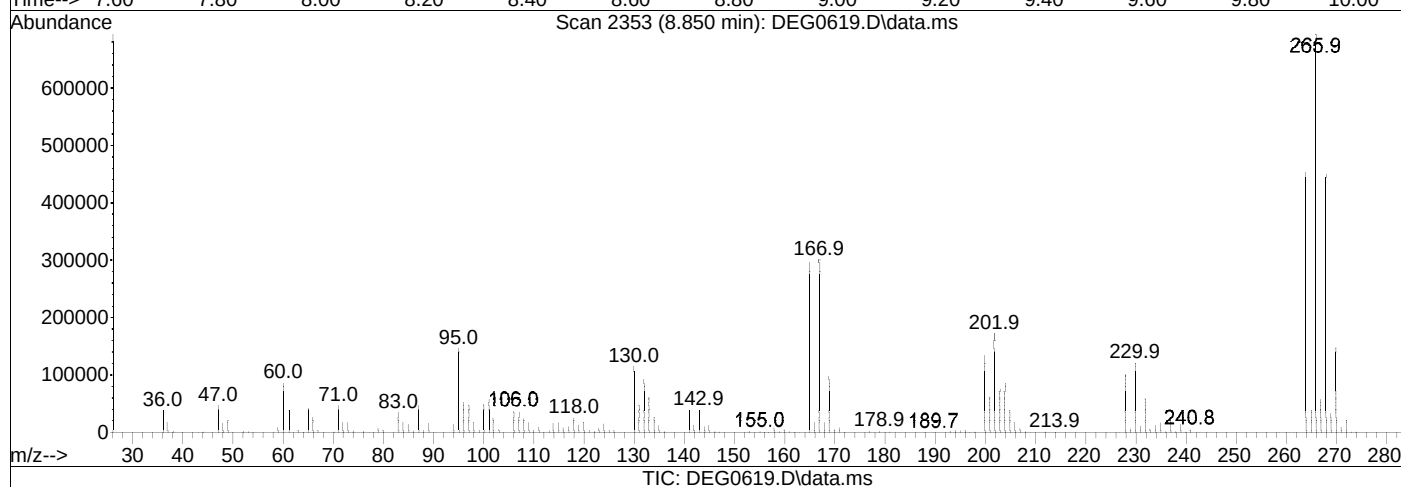
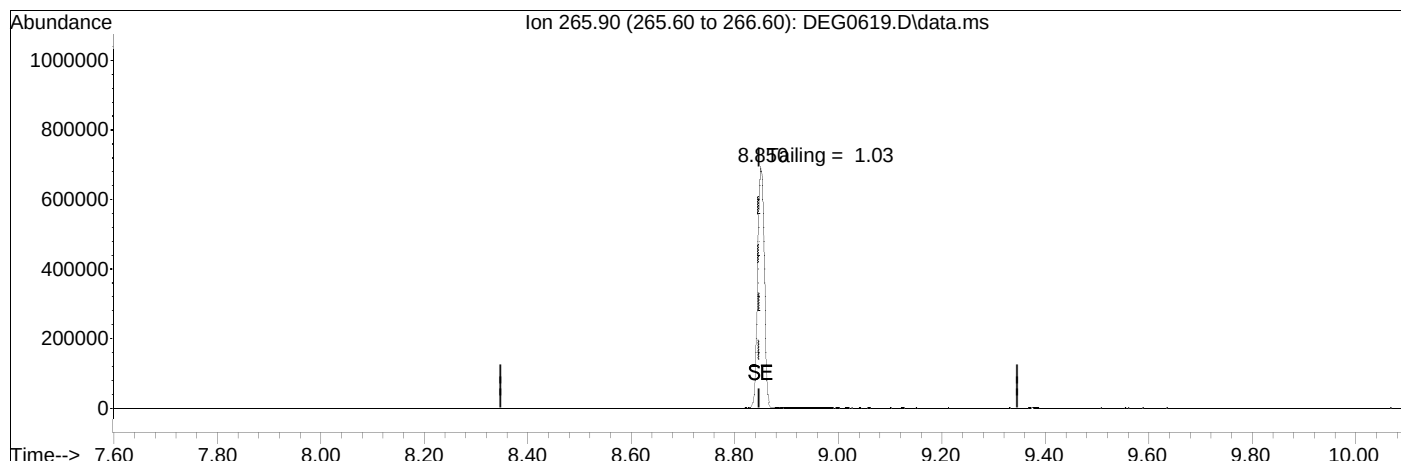
response 2662748

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\Dakota\250619RVTa\
 Data File : DEG0619.D
 Acq On : 19 Jun 2025 10:26 am
 Operator : Dakota:slr
 Sample : WG2080969-7,32,,Degdftpp Lot # 11649
 Misc : WG2080969,,ical22203
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 19 11:01:30 2025
 Quant Method : I:\8270\Dakota\250619RVTa\DftppDakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jun 17 01:09:39 2025
 Response via : Initial Calibration



(1) Pentachlorophenol (T)

8.850min (+ 0.003) 268.63

response 564216

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:\8270\SV106\250619RVT\
 Data File : 080671-1.D
 Acq On : 19 Jun 2025 10:44 am
 Operator : SV106:jg
 Sample : WG2080671-1,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 10:15:27 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:46 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.551	152	67415	4.000	ug/ml	0.00
Standard Area 1 = 62704			Recovery =	107.51%		
27) IS2_1,4-Dichlorobenzen...	6.551	152	67415	4.000	ug/ml	0.00
Standard Area 3 = 60457			Recovery =	111.51%		
32) IS3_1,4-Dichlorobenzen...	6.551	152	67415	4.000	ug/ml	0.00
Standard Area 2 = 52647			Recovery =	128.05%		
35) IS1_Naphthalene-d8	7.969	136	242505	4.000	ug/ml	# 0.00
Standard Area 1 = 233073			Recovery =	104.05%		
55) IS2_Naphthalene-d8	7.969	136	242505	4.000	ug/ml	# 0.00
Standard Area 3 = 221512			Recovery =	109.48%		
63) IS1_Acenaphthene-d10	9.739	164	163961	4.000	ug/ml	0.00
Standard Area 1 = 146915			Recovery =	111.60%		
83) IS2_Acenaphthene-d10	9.739	164	163961	4.000	ug/ml	0.00
Standard Area 3 = 141624			Recovery =	115.77%		
86) IS3_Acenaphthene-d10	9.739	164	163961	4.000	ug/ml	0.00
Standard Area 2 = 115193			Recovery =	142.34%		
88) IS1_Phenanthrene-d10	11.186	188	315537	4.000	ug/ml	0.00
Standard Area 1 = 296755			Recovery =	106.33%		
100) IS3_Phenanthrene-d10	11.186	188	315537	4.000	ug/ml	0.00
Standard Area 2 = 248688			Recovery =	126.88%		
104) IS1_Chrysene-d12	13.851	240	329197	4.000	ug/ml	0.00
Standard Area 1 = 309276			Recovery =	106.44%		
113) IS1_Perylene-d12	15.339	264	314358	4.000	ug/ml	0.01
Standard Area 1 = 304124			Recovery =	103.37%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	16453	0.865	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	43.25%		
7) Phenol-d6	6.181	99	13493	0.605	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	30.25%		
19) Nitrobenzene-d5	7.204	82	13402	0.726	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	72.60%		
46) 2-Fluorobiphenyl	9.092	172	38884	0.695	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	69.50%		
79) 2,4,6-Tribromophenol	10.510	330	9852	1.169	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	58.45%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : 080671-1.D
 Acq On : 19 Jun 2025 10:44 am
 Operator : SV106:jg
 Sample : WG2080671-1,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 10:15:27 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:46 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.780	244	57207	0.699	ug/ml	0.00
Spiked Amount	1.000	Range	30 - 130	Recovery	=	69.90%
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.	
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.	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : 080671-1.D
 Acq On : 19 Jun 2025 10:44 am
 Operator : SV106:jg
 Sample : WG2080671-1,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 10:15:27 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:46 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.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

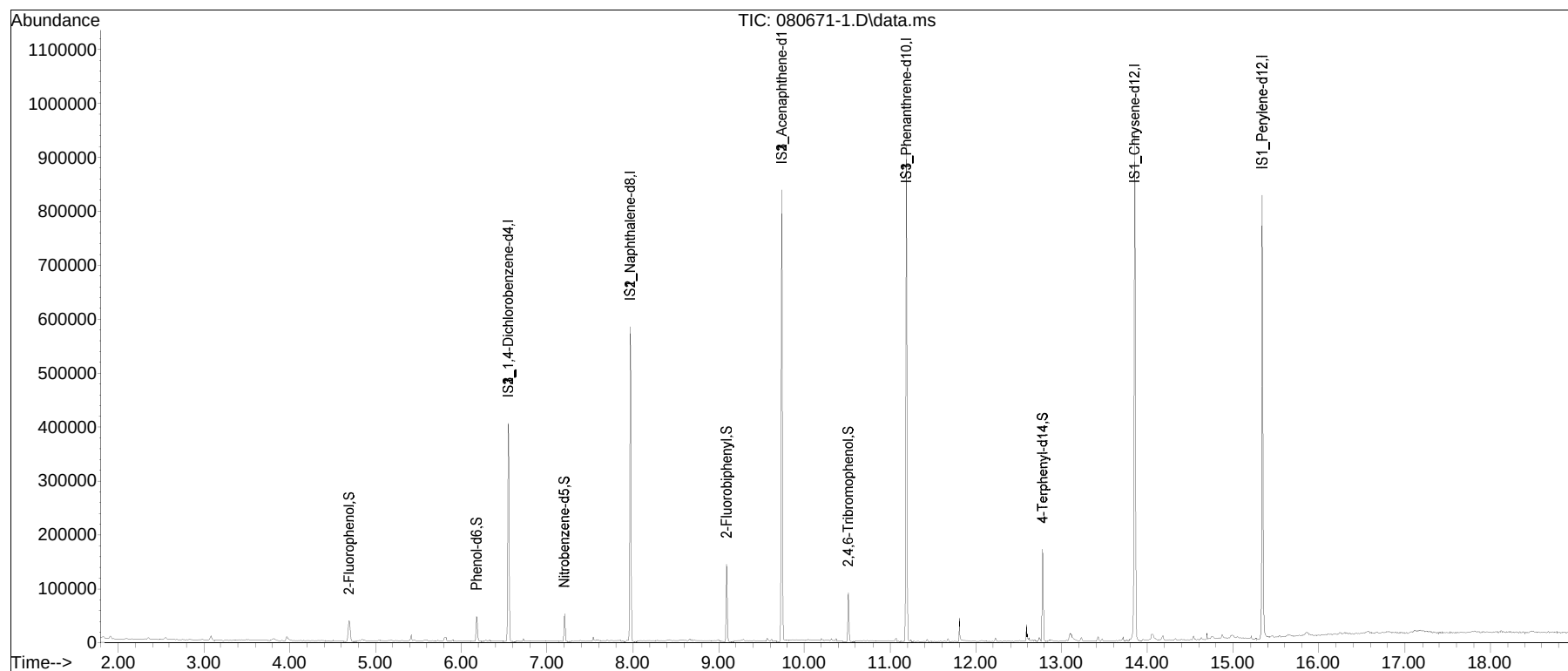
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : 080671-1.D
 Acq On : 19 Jun 2025 10:44 am
 Operator : SV106:jg
 Sample : WG2080671-1,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 10:15:27 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:46 2025
 Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90619.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250619RVT\	QMethod	: FS250311SV106.m
Data File	: 080671-1.D	Operator	: SV106:jg
Date Inj'd	: 6/19/2025 10:44 am	Instrument	: SV 106
Sample	: WG2080671-1, 32,,gmr	Quant Date	: 6/19/2025 11:03 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : 080671-2.D
 Acq On : 19 Jun 2025 9:57 am
 Operator : SV106:jg
 Sample : WG2080671-2,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 10:16:18 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:46 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.551	152	77543	4.000	ug/ml	0.00
Standard Area 1 = 62704			Recovery =	123.67%		
27) IS2_1,4-Dichlorobenzen...	6.551	152	77543	4.000	ug/ml	0.00
Standard Area 3 = 60457			Recovery =	128.26%		
32) IS3_1,4-Dichlorobenzen...	6.551	152	77543	4.000	ug/ml	0.00
Standard Area 2 = 52647			Recovery =	147.29%		
35) IS1_Naphthalene-d8	7.969	136	293544	4.000	ug/ml	# 0.00
Standard Area 1 = 233073			Recovery =	125.95%		
55) IS2_Naphthalene-d8	7.969	136	293544	4.000	ug/ml	# 0.00
Standard Area 3 = 221512			Recovery =	132.52%		
63) IS1_Acenaphthene-d10	9.739	164	147870	4.000	ug/ml	0.00
Standard Area 1 = 146915			Recovery =	100.65%		
83) IS2_Acenaphthene-d10	9.739	164	147870	4.000	ug/ml	0.00
Standard Area 3 = 141624			Recovery =	104.41%		
86) IS3_Acenaphthene-d10	9.739	164	147870	4.000	ug/ml	0.00
Standard Area 2 = 115193			Recovery =	128.37%		
88) IS1_Phenanthrene-d10	11.186	188	302535	4.000	ug/ml	0.00
Standard Area 1 = 296755			Recovery =	101.95%		
100) IS3_Phenanthrene-d10	11.186	188	302535	4.000	ug/ml	0.00
Standard Area 2 = 248688			Recovery =	121.65%		
104) IS1_Chrysene-d12	13.851	240	309810	4.000	ug/ml	# 0.00
Standard Area 1 = 309276			Recovery =	100.17%		
113) IS1_Perylene-d12	15.339	264	311002	4.000	ug/ml	0.01
Standard Area 1 = 304124			Recovery =	102.26%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	21158	0.967	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	48.35%		
7) Phenol-d6	6.181	99	20320	0.792	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	39.60%		
19) Nitrobenzene-d5	7.204	82	18364	0.865	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	86.50%		
46) 2-Fluorobiphenyl	9.092	172	41626	0.614	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	61.40%		
79) 2,4,6-Tribromophenol	10.510	330	12443	1.637	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	81.85%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : 080671-2.D
 Acq On : 19 Jun 2025 9:57 am
 Operator : SV106:jg
 Sample : WG2080671-2,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 10:16:18 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:46 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
96) 4-Terphenyl-d14	12.780	244	59095	0.753	ug/ml	0.00
Spiked Amount	1.000	Range	30 - 130	Recovery	=	75.30%
Target Compounds						Qvalue
6) 2-Chlorophenol	6.293	128	33650	1.425	ug/ml	98
8) Phenol	6.198	94	22736	0.804	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.940	45	71488	1.364	ug/ml#	82
15) 2-Methylphenol	6.922	108	25792	1.037	ug/ml	99
17) n-Nitrosodi-n-propylamine	7.081	70	25127	1.517	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.110	108	25980	1.207	ug/ml	92
20) Nitrobenzene	7.222	77	34826	1.607	ug/ml	98
21) Isophorone	7.504	82	68231	1.533	ug/ml	97
22) 2-Nitrophenol	7.581	139	17892	1.813	ug/ml	98
23) 2,4-Dimethylphenol	7.675	107	30468	1.312	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.769	93	46428	1.461	ug/ml#	97
25) 2,4-Dichlorophenol	7.845	162	30455	1.382	ug/ml	96
28) Benzaldehyde	5.987	105	27039	1.462	ug/ml	97
29) Acetophenone	7.045	105	48746	1.528	ug/ml#	93
38) 4-Chloroaniline	8.075	65	5888M3	0.610	ug/ml	
40) p-Chloro-m-cresol	8.598	107	27975	1.173	ug/ml	98
43) Hexachlorocyclopentadiene	8.887	237	19782	0.899	ug/ml	97
44) 2,4,6-Trichlorophenol	9.010	196	22327	1.211	ug/ml	98
45) 2,4,5-Trichlorophenol	9.034	196	24997	1.337	ug/ml	97
48) 2-Nitroaniline	9.304	138	17458	1.431	ug/ml	93
51) Dimethyl phthalate	9.504	163	79336	1.190	ug/ml#	98
53) 2,6-Dinitrotoluene	9.551	165	15576	1.408	ug/ml#	80
60) Caprolactam	8.392	55	6855	0.568	ug/ml#	87
61) 1,2,4,5-Tetrachloroben...	8.887	216	34589	1.174	ug/ml	97
62) Biphenyl	9.187	154	79024	1.216	ug/ml	99
64) 3-Nitroaniline	9.704	138	11977	1.284	ug/ml	89
66) 2,4-Dinitrophenol	9.810	184	5684	1.286	ug/ml#	83
67) Dibenzofuran	9.939	168	99418	1.405	ug/ml	93
68) 2,4-Dinitrotoluene	9.939	165	20646	1.697	ug/ml	89
69) 4-Nitrophenol	9.892	65	8346	1.173	ug/ml#	92
72) Diethyl phthalate	10.204	149	78237	1.557	ug/ml	96
74) 4-Chlorophenyl phenyl ...	10.292	204	41200	1.511	ug/ml#	86
75) 4-Nitroaniline	10.298	138	16158	1.780	ug/ml	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : 080671-2.D
 Acq On : 19 Jun 2025 9:57 am
 Operator : SV106:jg
 Sample : WG2080671-2,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 10:16:18 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:46 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	4,6-Dinitro-o-cresol	10.339	198	9744	1.575	ug/ml#	70
77)	NDPA/DPA	10.410	169	64617	1.487	ug/ml	95
80)	4-Bromophenyl phenyl e...	10.769	248	24708	1.443	ug/ml#	82
87)	Atrazine	10.951	200	22240	1.646	ug/ml	96
91)	Carbazole	11.428	167	114268	1.528	ug/ml	99
92)	Di-n-butylphthalate	11.816	149	122033	1.445	ug/ml	99
97)	Butyl benzyl phthalate	13.310	149	50575	1.593	ug/ml	89
106)	3,3'-Dichlorobenzidine	13.839	252	37557	1.130	ug/ml#	97
108)	Bis(2-ethylhexyl)phtha...	13.957	149	72440	1.419	ug/ml#	96
109)	Di-n-octylphthalate	14.645	149	105345	1.443	ug/ml#	79

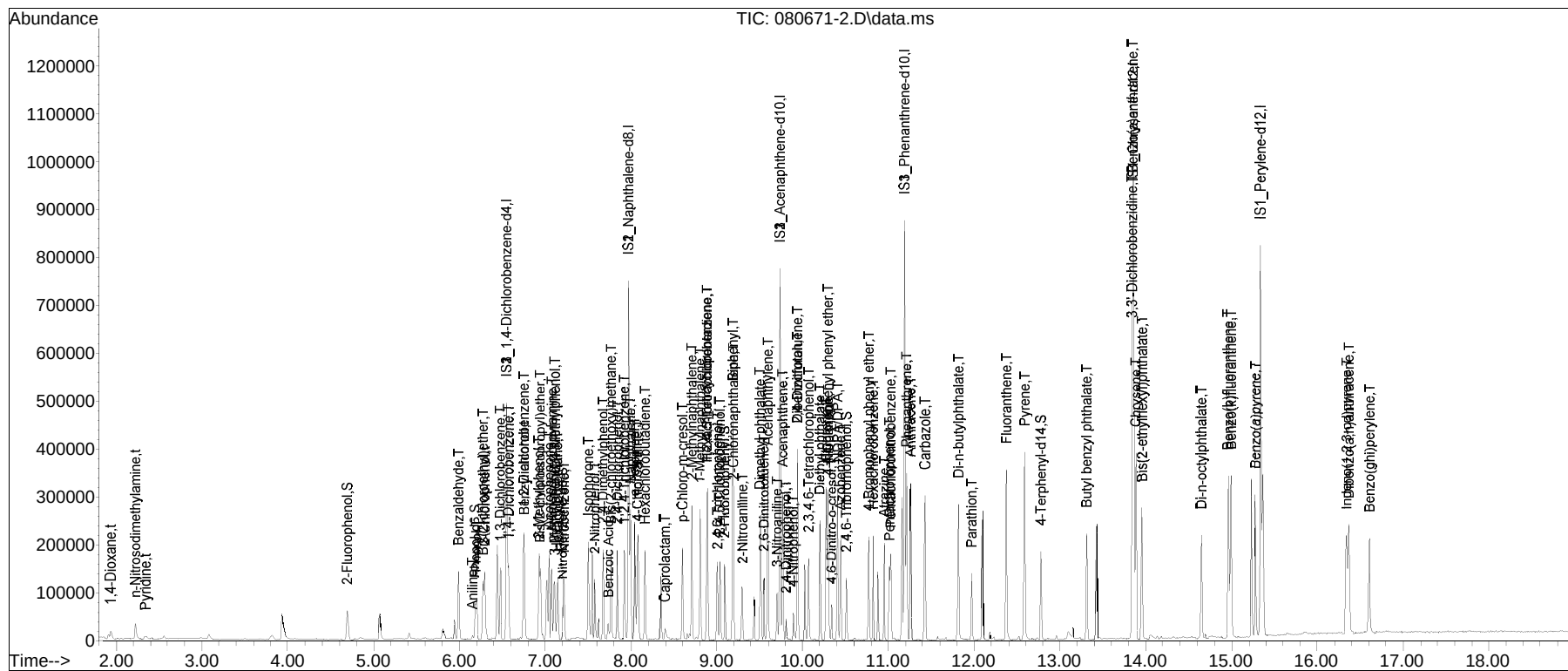
(#) = qualifier out of range (m) = manual integration (+) = signals summed

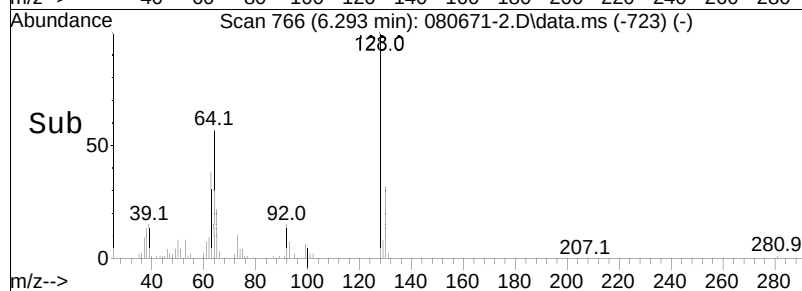
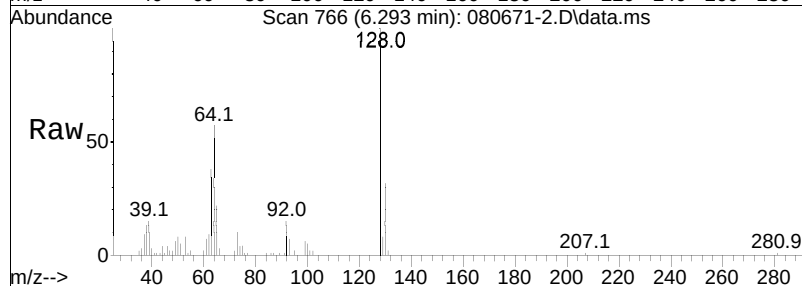
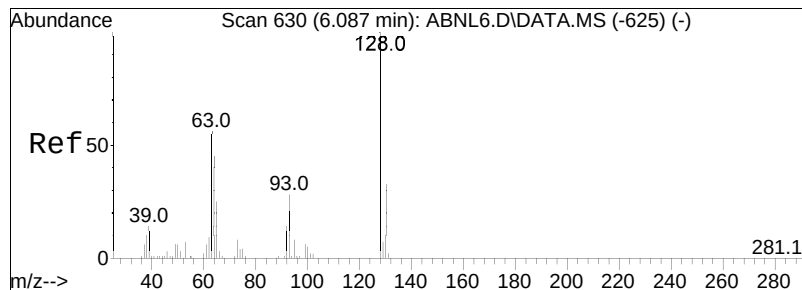
(QT Reviewed)

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Data Path   : I:\8270\SV106\250619RVT\  
Data File  : 080671-2.D  
Acq On     : 19 Jun 2025    9:57 am  
Operator   : SV106:jg  
Sample     : WG2080671-2,32,,gmr  
Misc       : WG2080865,WG2080671,ical22075  
ALS Vial   : 5    Sample Multiplier: 1
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Quant Time: Jun 21 10:16:18 2025
Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 19 08:16:46 2025
Response via : Initial Calibration

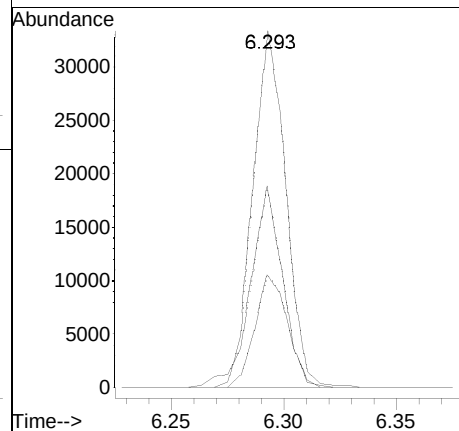
Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90619.D•

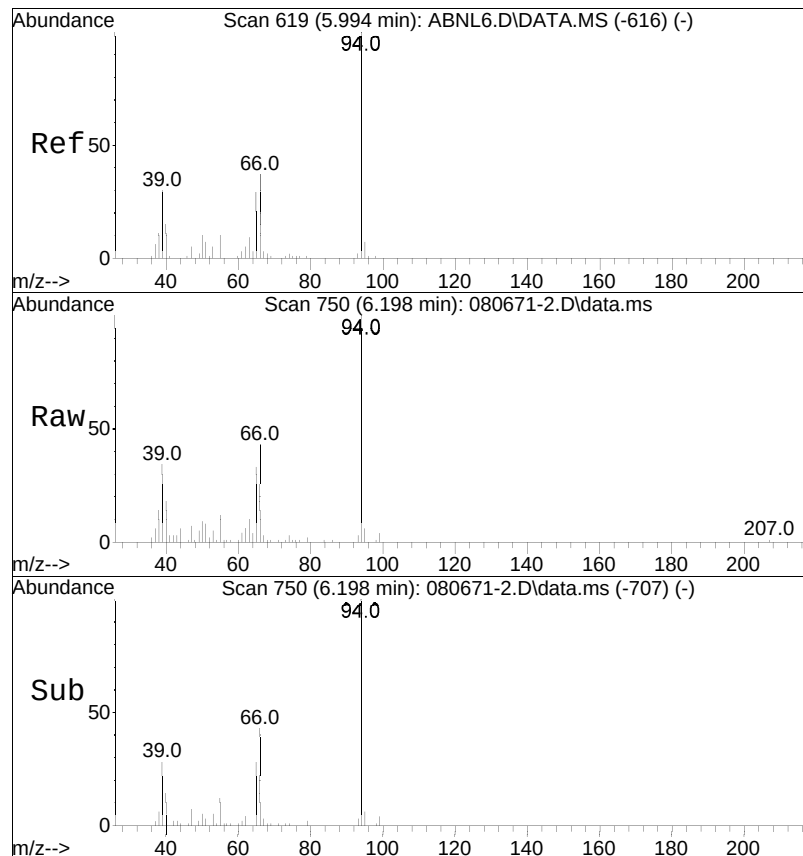




#6
 2-Chlorophenol
 Concen: 1.43 ug/ml
 RT: 6.293 min Scan# 766
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

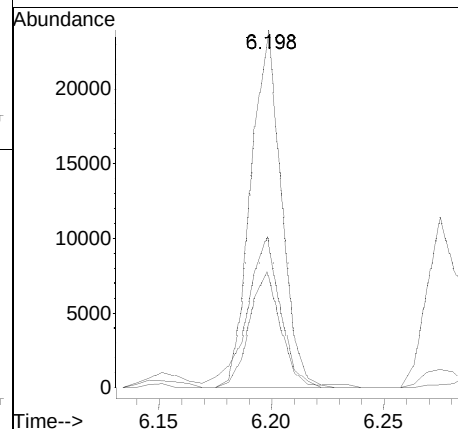
Tgt Ion	Ratio	Lower	Upper
128	100		
64	54.9	45.1	67.7
130	31.6	26.2	39.4

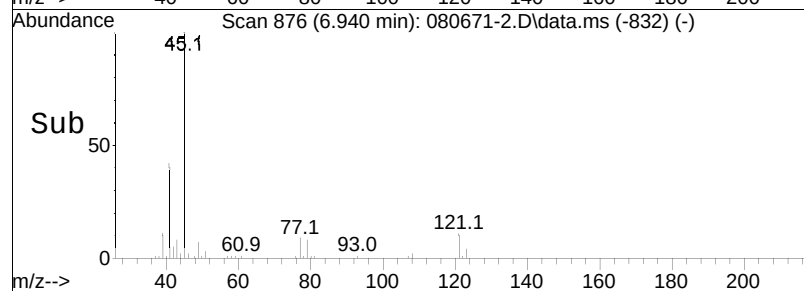
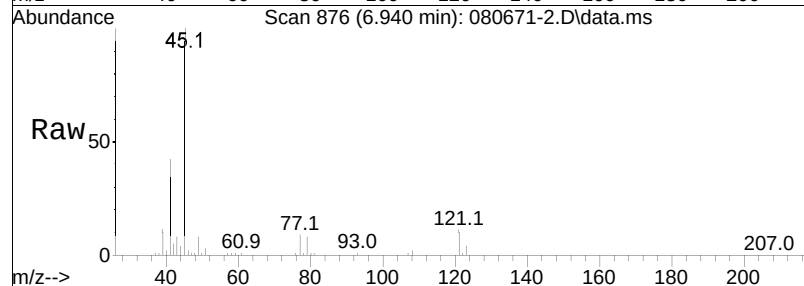
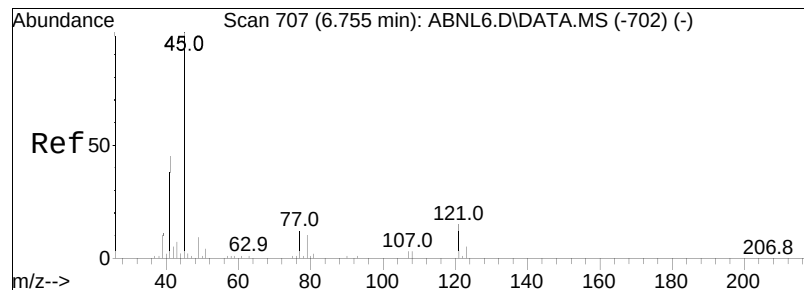




#8
 Phenol
 Concen: 0.80 ug/ml
 RT: 6.198 min Scan# 750
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

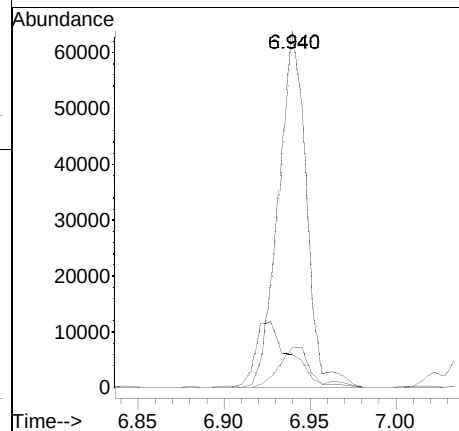
Tgt Ion	Ratio	Lower	Upper
94	100		
65	33.0	26.0	39.0
66	45.8	33.8	50.8

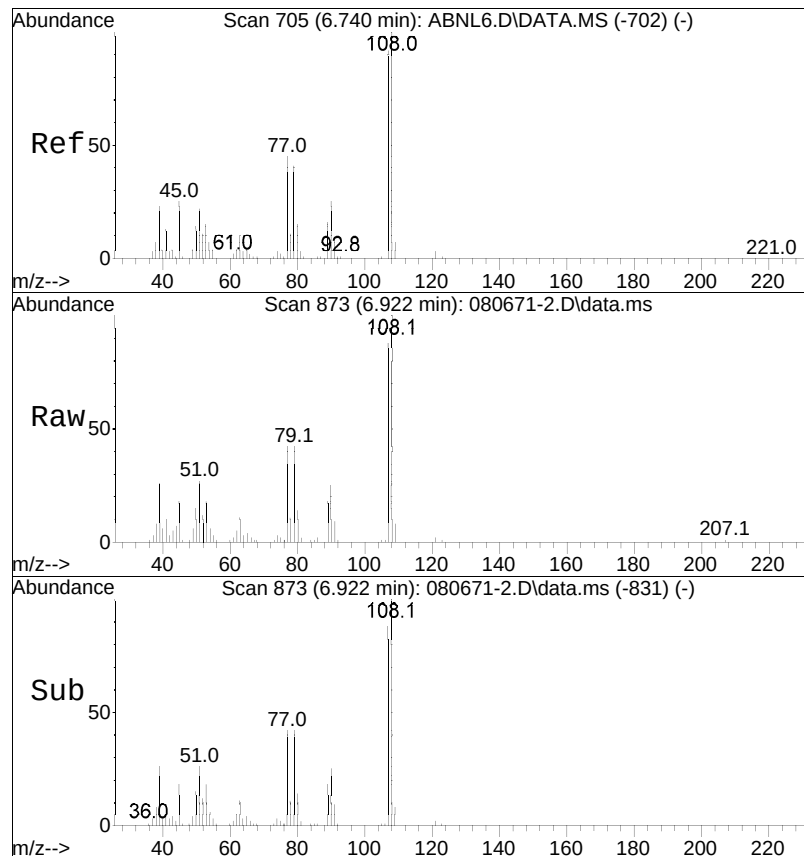




#14
 Bis(2-chloroisopropyl)ether
 Concen: 1.36 ug/ml
 RT: 6.940 min Scan# 876
 Delta R.T. 0.006 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

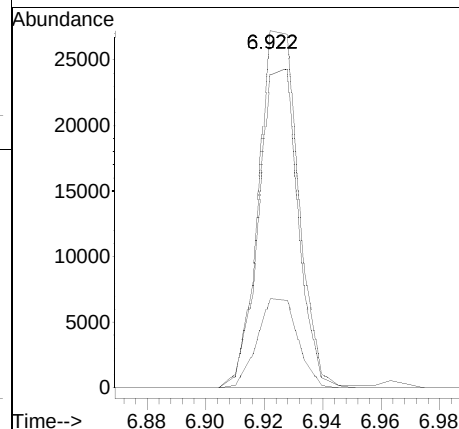
Tgt Ion:	45	Resp:	71488
Ion Ratio	Lower	Upper	
45	100		
121	12.6	9.8	14.6
77	23.9	6.1	9.1#

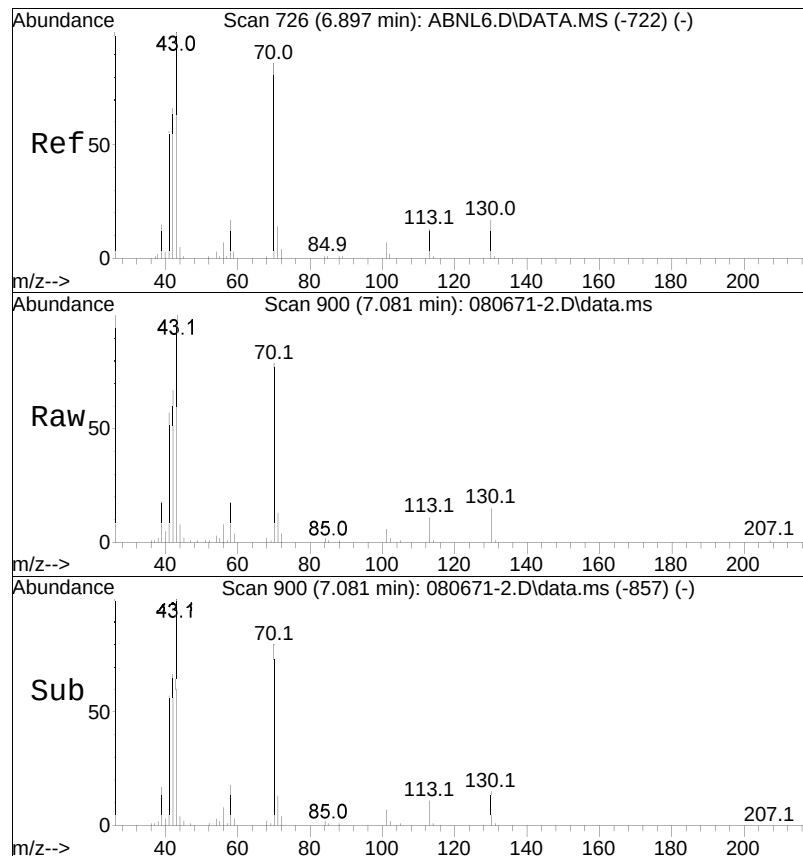




#15
 2-Methylphenol
 Concen: 1.04 ug/ml
 RT: 6.922 min Scan# 873
 Delta R.T. -0.006 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

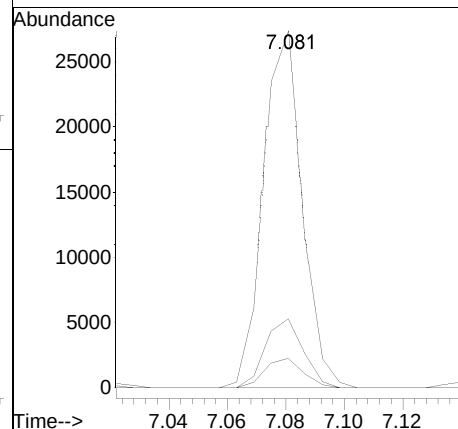
Tgt Ion:	108	Resp:	25792
Ion Ratio	Lower	Upper	
108	100		
107	88.6	70.7	106.1
90	25.3	18.7	28.1

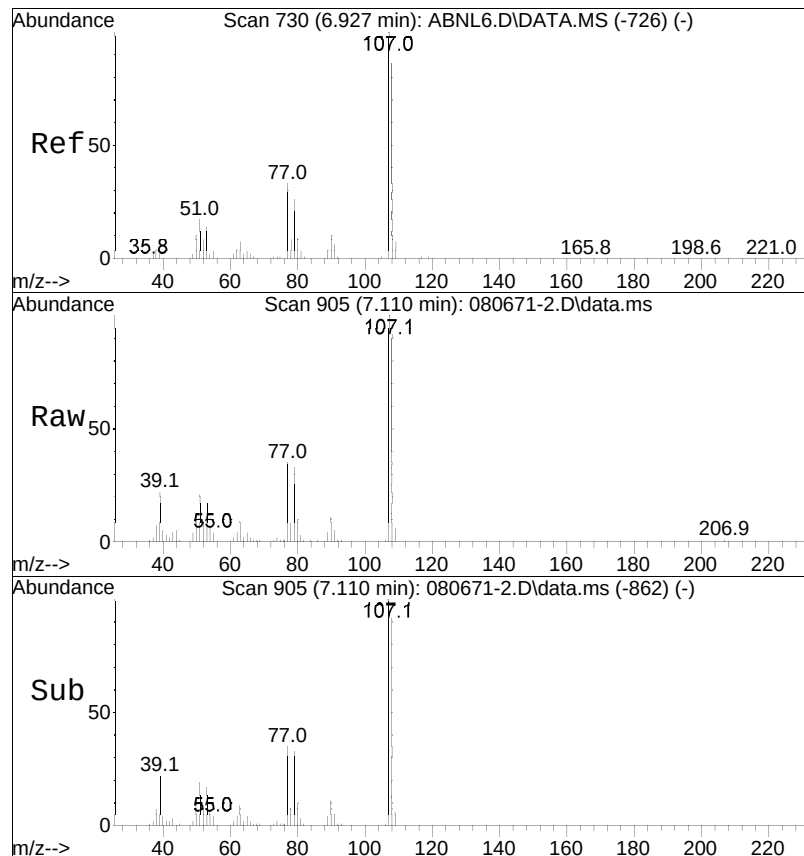




#17
 n-Nitrosodi-n-propylamine
 Concen: 1.52 ug/ml
 RT: 7.081 min Scan# 900
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

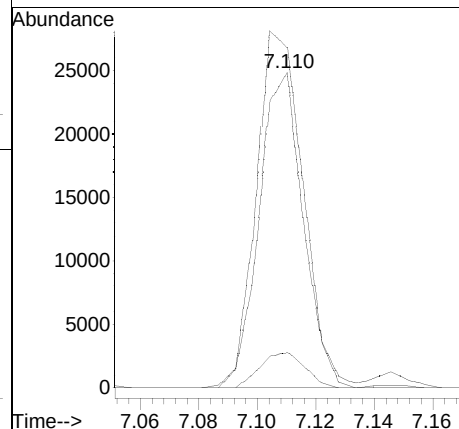
Tgt Ion:	70	Resp:	25127
Ion Ratio	Lower	Upper	
70	100		
130	18.9	18.2	27.4
101	8.1	7.8	11.8

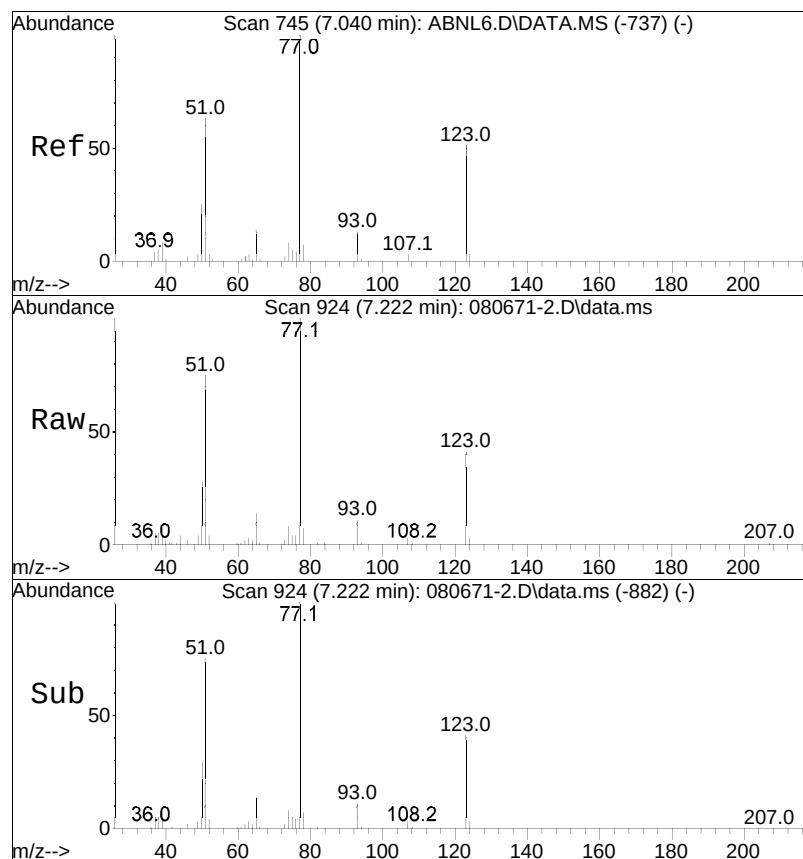




#18
 3-Methylphenol/4-Methylphenol
 Concen: 1.21 ug/ml
 RT: 7.110 min Scan# 905
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

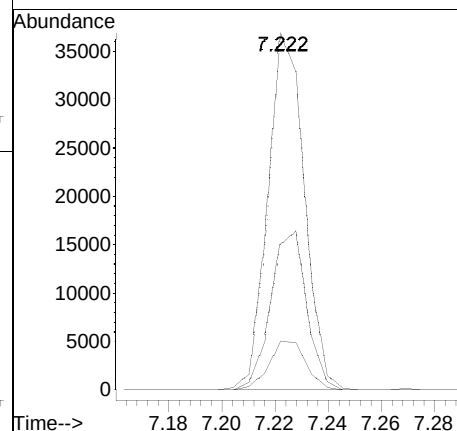
Tgt	Ion:108	Resp:	25980
Ion	Ratio	Lower	Upper
108	100		
107	120.3	88.6	132.8
90	11.4	8.8	13.2

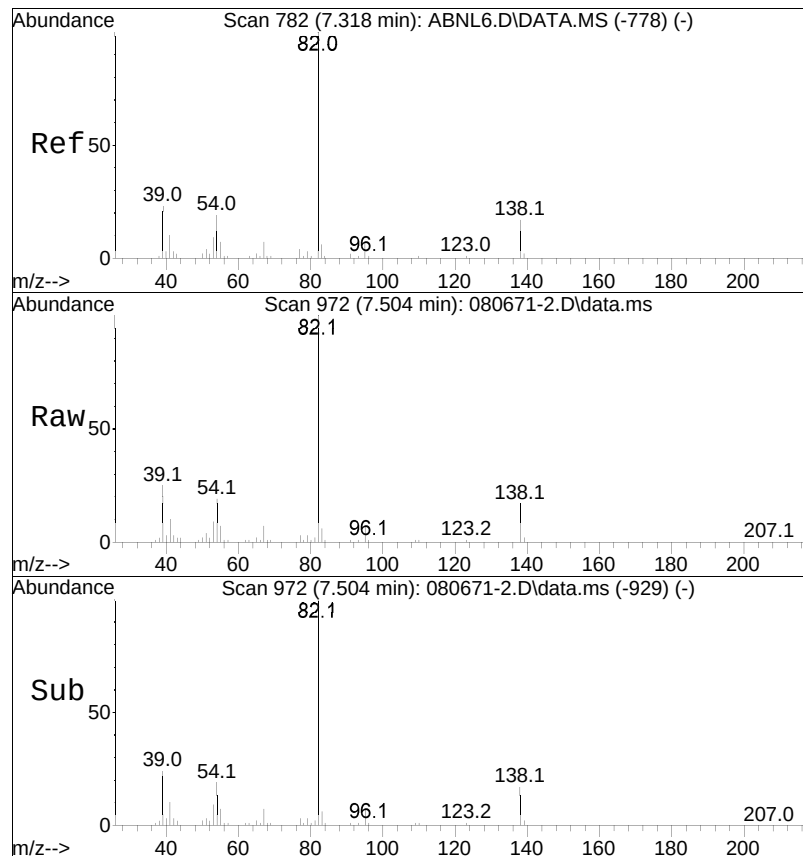




#20
 Nitrobenzene
 Concen: 1.61 ug/ml
 RT: 7.222 min Scan# 924
 Delta R.T. -0.006 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

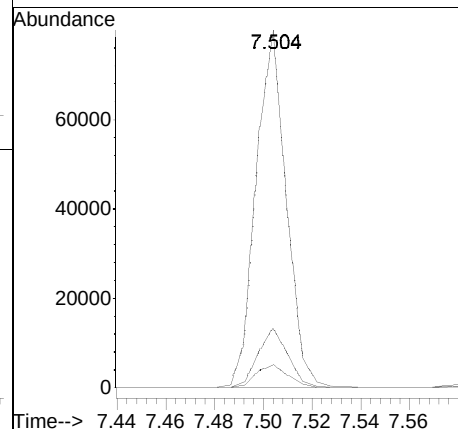
Tgt Ion	Ratio	Resp	Lower	Upper
77	100	34826		
123	43.9		36.3	54.5
65	13.9		11.6	17.4

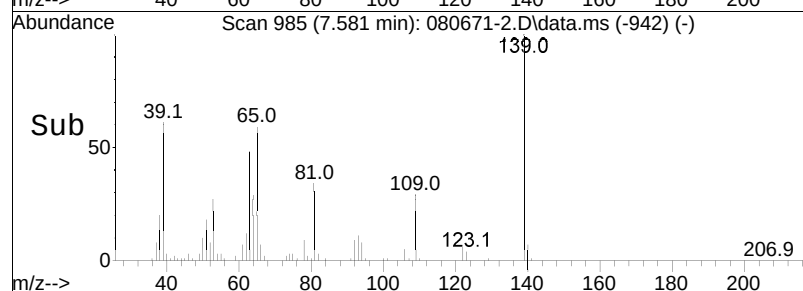
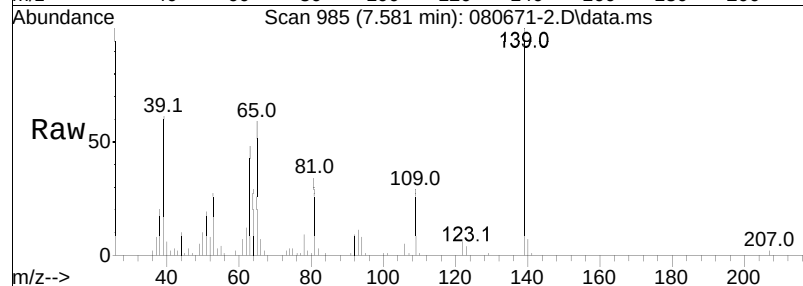
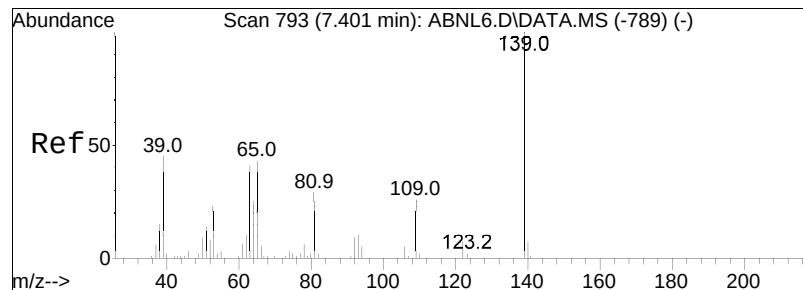




#21
 Isophorone
 Concen: 1.53 ug/ml
 RT: 7.504 min Scan# 972
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

Tgt Ion	Ratio	Lower	Upper
82	100		
138	16.4	14.7	22.1
95	6.7	5.2	7.8





#22

2-Nitrophenol

Concen: 1.81 ug/ml

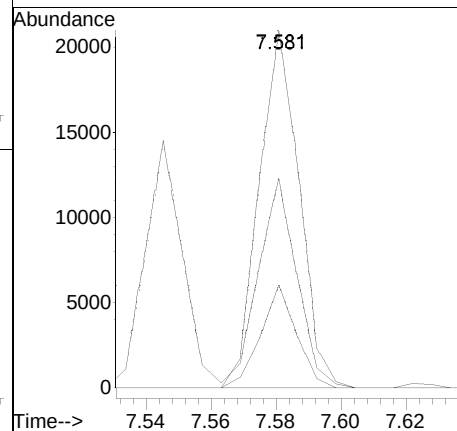
RT: 7.581 min Scan# 985

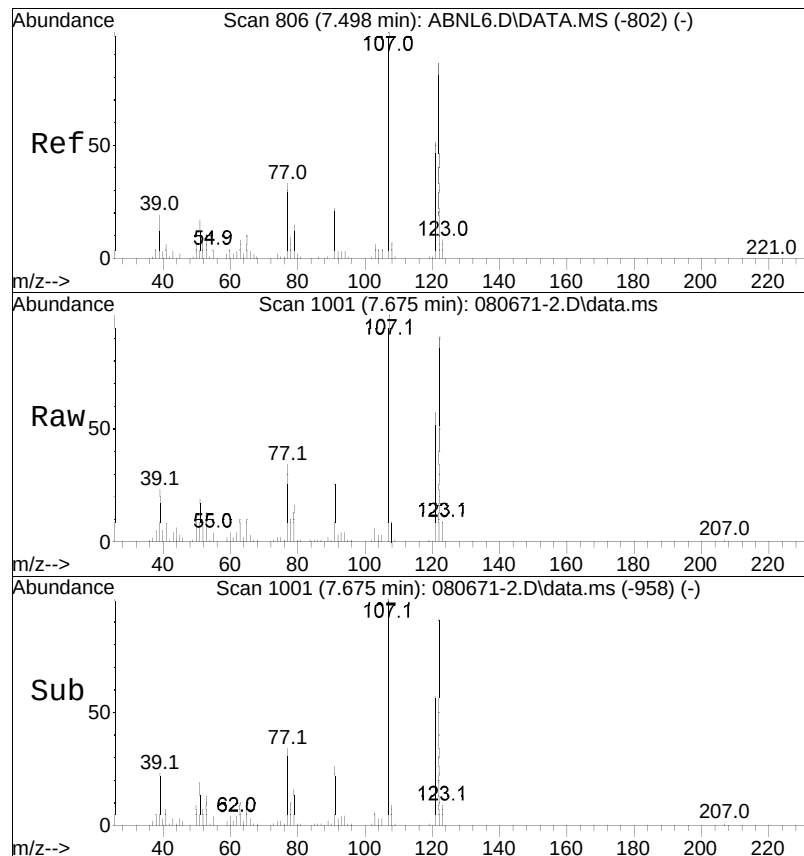
Delta R.T. 0.000 min

Lab File: 080671-2.D

Acq: 19 Jun 2025 9:57 am

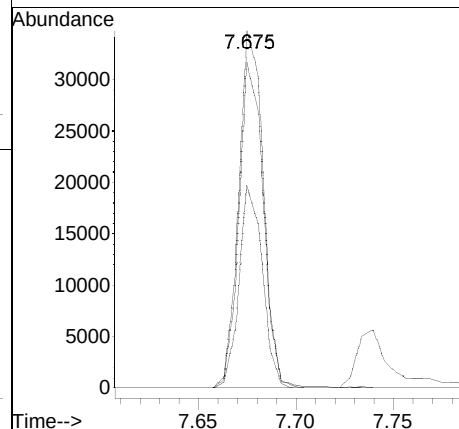
Tgt Ion:	139	Resp:	17892
Ion Ratio	Lower	Upper	
139	100		
109	25.8	19.4	29.0
65	56.5	46.1	69.1

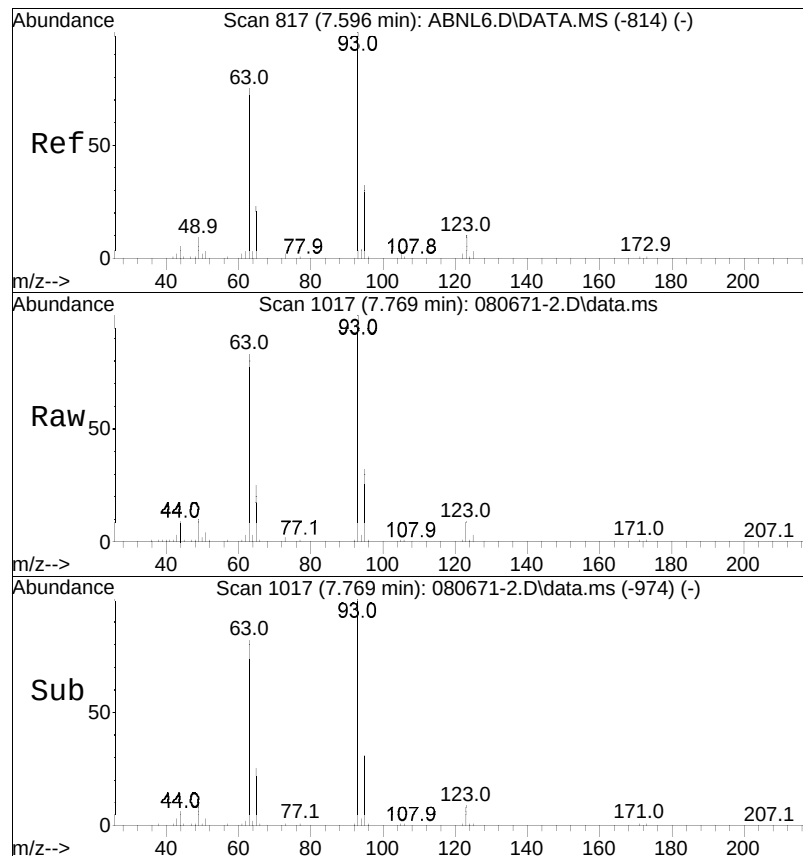




#23
 2,4-Dimethylphenol
 Concen: 1.31 ug/ml
 RT: 7.675 min Scan# 1001
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

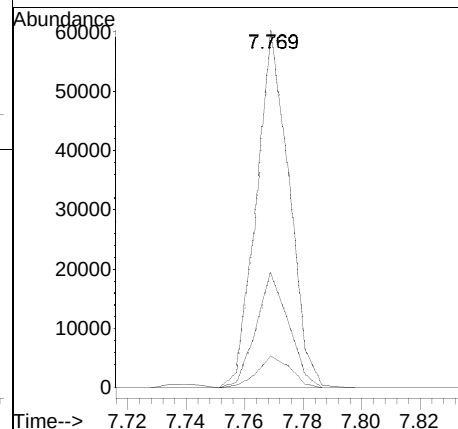
Tgt Ion:	107	Resp:	30468
Ion Ratio	Lower	Upper	
107	100		
121	53.5	40.0	60.0
122	88.7	70.2	105.4

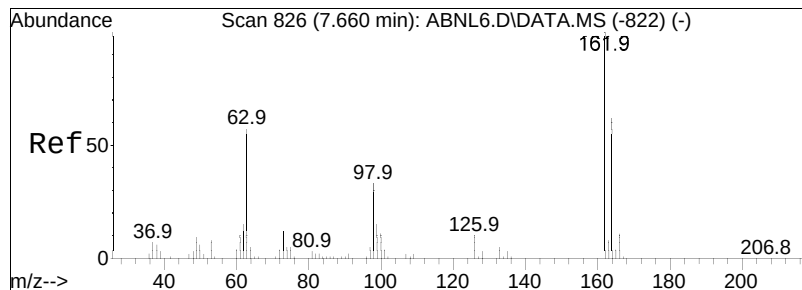




#24
 Bis(2-chloroethoxy)methane
 Concen: 1.46 ug/ml
 RT: 7.769 min Scan# 1017
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

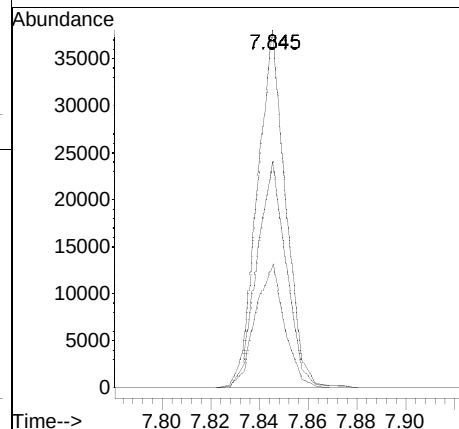
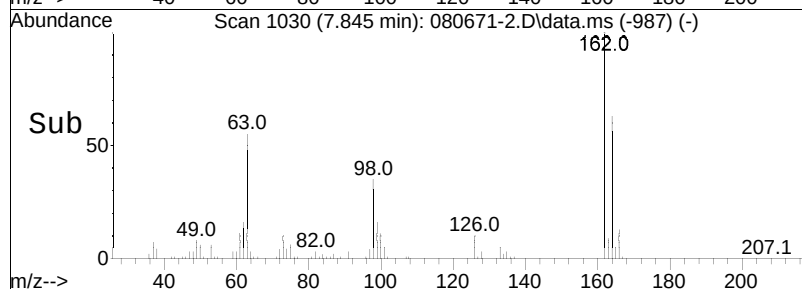
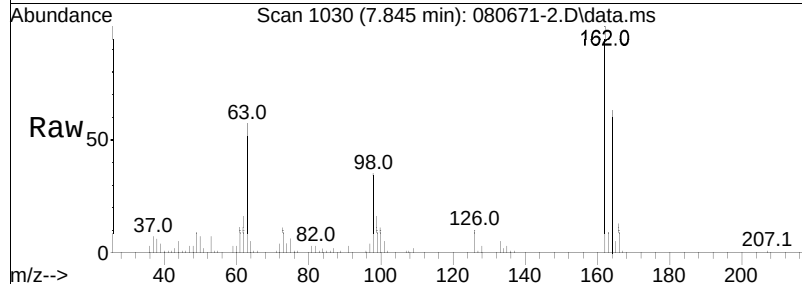
Tgt Ion:	93	Resp:	46428
Ion Ratio	Lower	Upper	
93	100		
95	32.1	25.8	38.8
123	9.2	10.1	15.1#

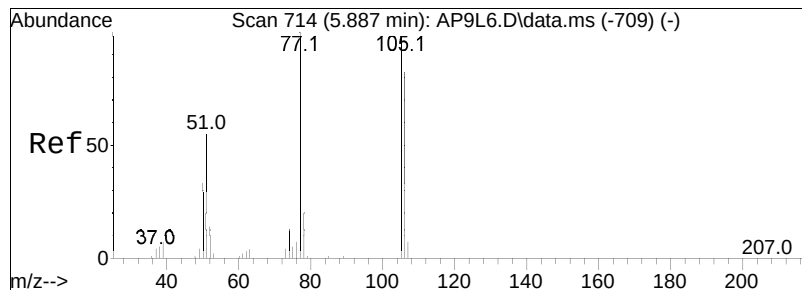




#25
 2,4-Dichlorophenol
 Concen: 1.38 ug/ml
 RT: 7.845 min Scan# 1030
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

Tgt Ion	Ratio	Resp	Lower	Upper
162	100	30455		
164	65.5		51.0	76.4
98	35.9		32.2	48.2





#28

Benzaldehyde

Concen: 1.46 ug/ml

RT: 5.987 min Scan# 714

Delta R.T. 0.000 min

Lab File: 080671-2.D

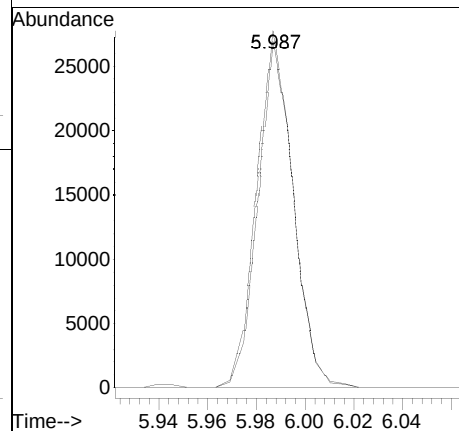
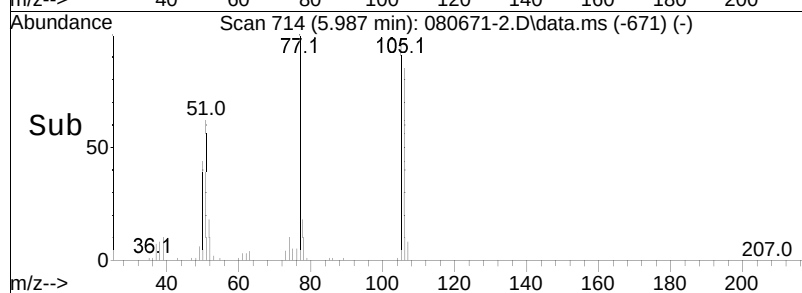
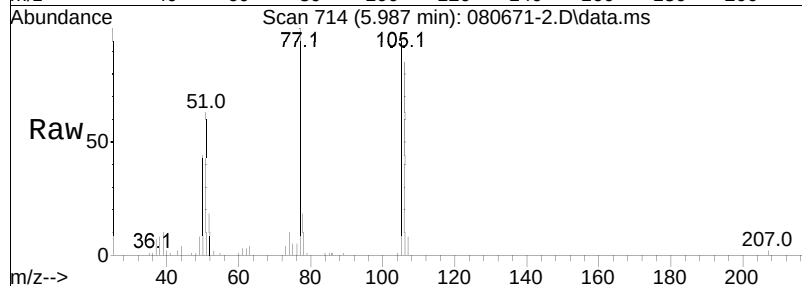
Acq: 19 Jun 2025 9:57 am

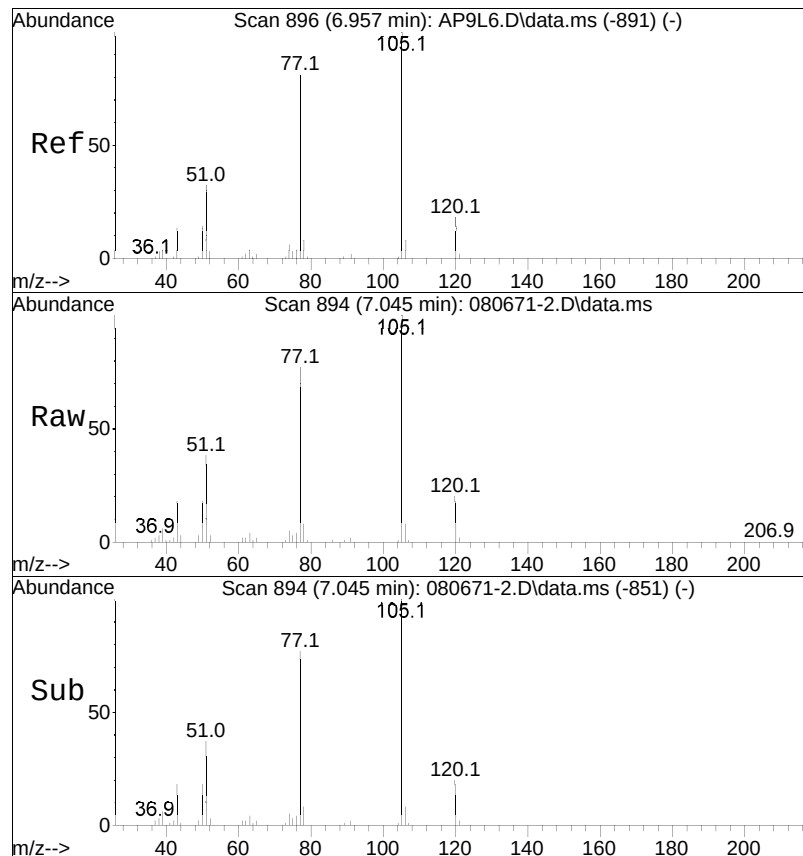
Tgt Ion:105 Resp: 27039

Ion Ratio Lower Upper

105 100

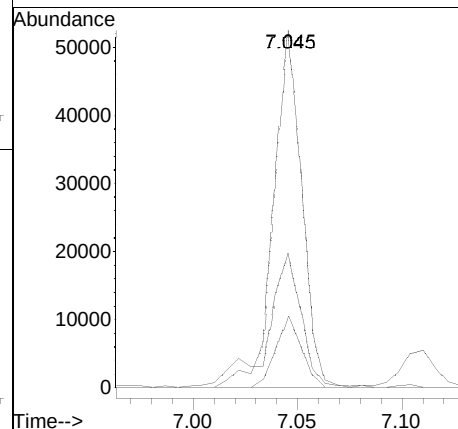
77 105.9 82.2 123.4

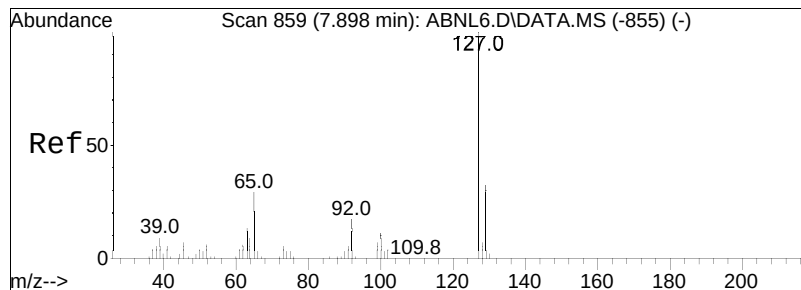




#29
 Acetophenone
 Concen: 1.53 ug/ml
 RT: 7.045 min Scan# 894
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

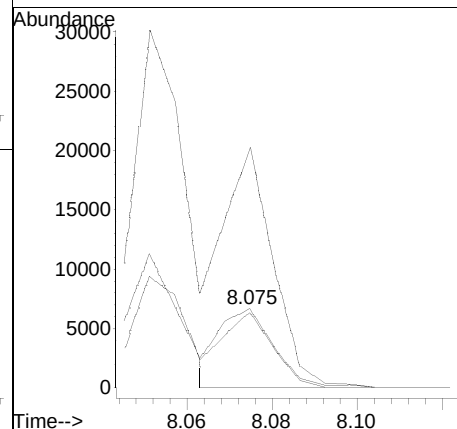
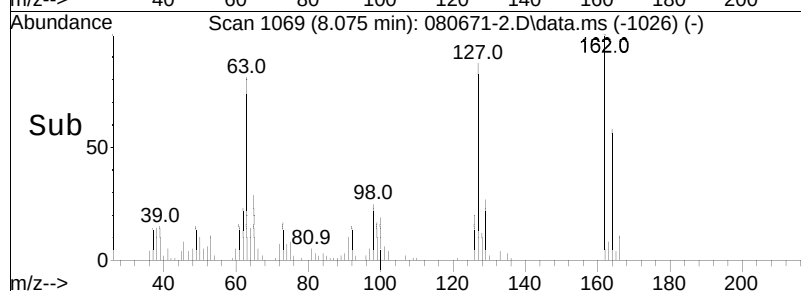
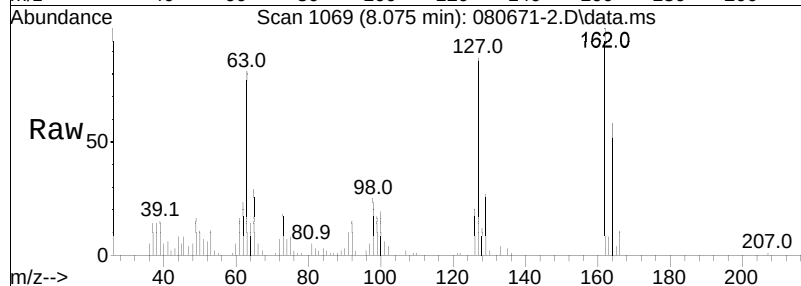
Tgt Ion:	105	Resp:	48746
Ion Ratio	Lower	Upper	
105	100		
120	18.4	20.5	30.7#
51	45.5	34.9	52.3

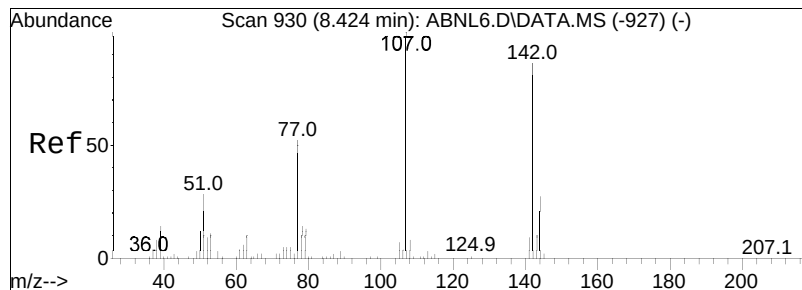




#38
 4-Chloroaniline
 Concen: 0.61 ug/ml M3
 RT: 8.075 min Scan# 1069
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

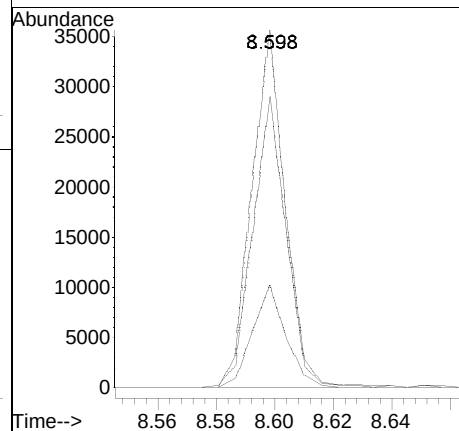
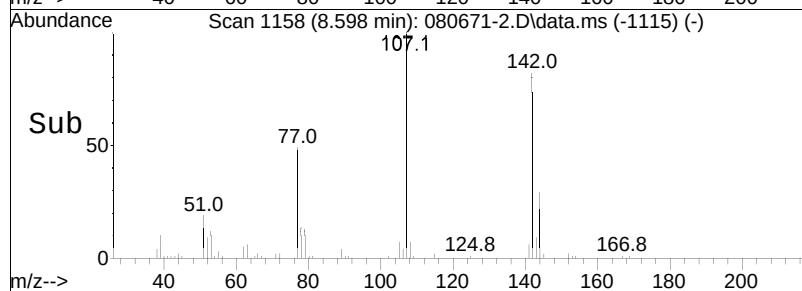
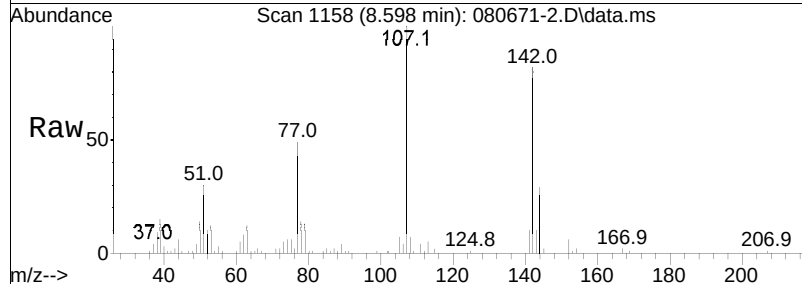
Tgt Ion	Ratio	Lower	Upper
65	100		
127	441.4	237.6	356.4#
129	139.7	76.3	114.5#

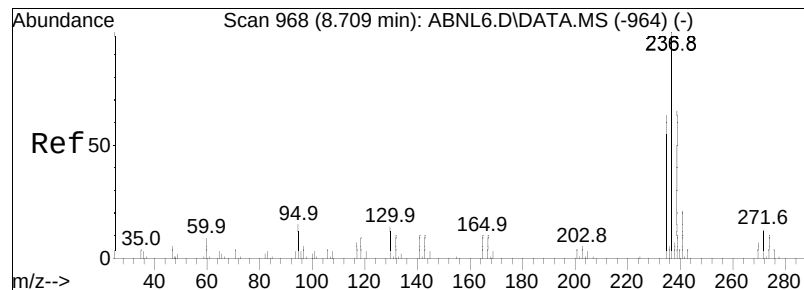




#40
 p-Chloro-m-cresol
 Concen: 1.17 ug/ml
 RT: 8.598 min Scan# 1158
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

Tgt Ion:	107	Resp:	27975
Ion Ratio	Lower	Upper	
107	100		
144	28.9	20.9	31.3
142	82.0	66.1	99.1





#43

Hexachlorocyclopentadiene

Concen: 0.90 ug/ml

RT: 8.887 min Scan# 1207

Delta R.T. 0.000 min

Lab File: 080671-2.D

Acq: 19 Jun 2025 9:57 am

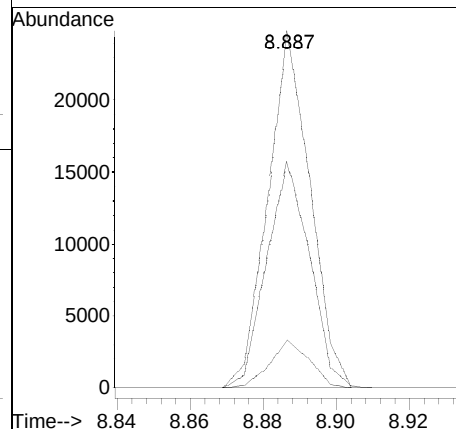
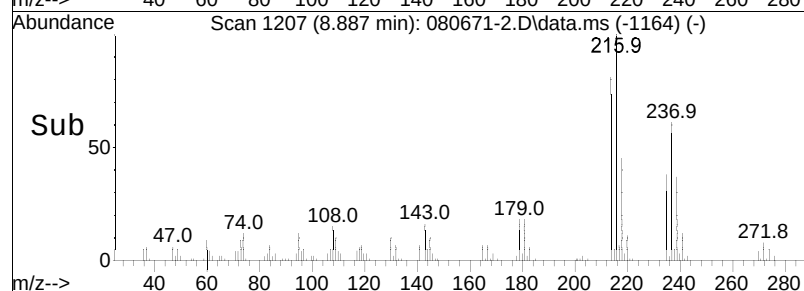
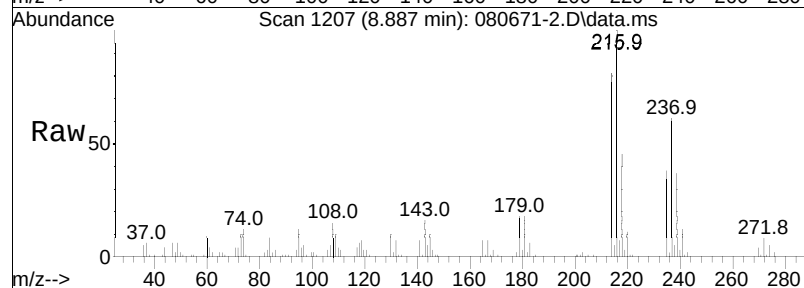
Tgt Ion: 237 Resp: 19782

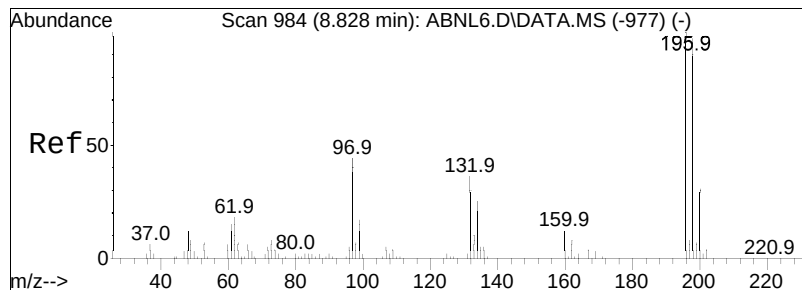
Ion Ratio Lower Upper

237 100

235 64.8 49.7 74.5

272 12.8 9.8 14.6





#44

2,4,6-Trichlorophenol

Concen: 1.21 ug/ml

RT: 9.010 min Scan# 1228

Delta R.T. 0.000 min

Lab File: 080671-2.D

Acq: 19 Jun 2025 9:57 am

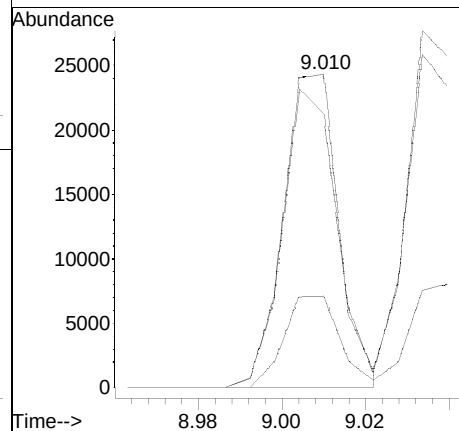
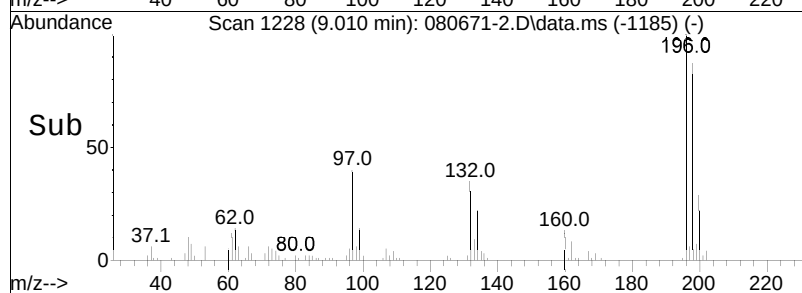
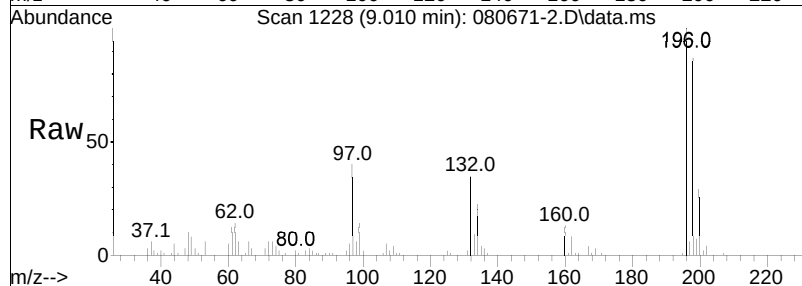
Tgt Ion:196 Resp: 22327

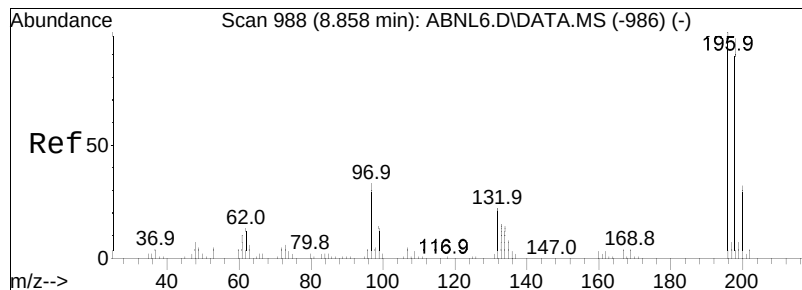
Ion Ratio Lower Upper

196 100

198 93.8 77.5 116.3

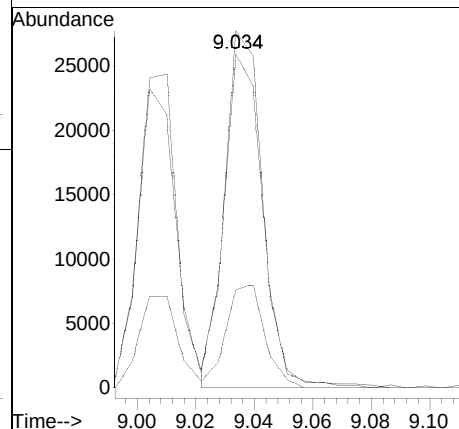
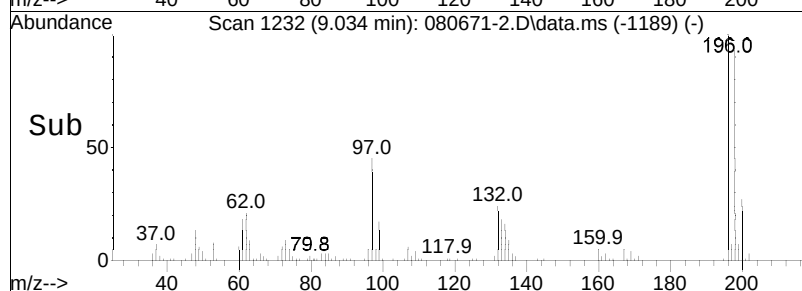
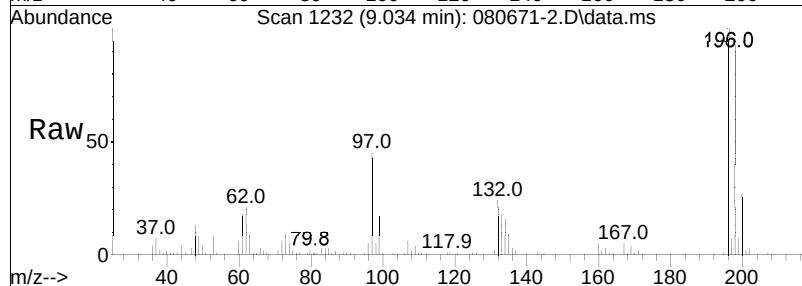
200 29.8 23.8 35.6

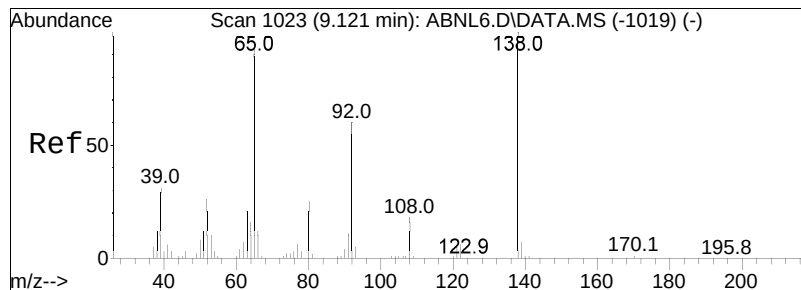




#45
 2,4,5-Trichlorophenol
 Concen: 1.34 ug/ml
 RT: 9.034 min Scan# 1232
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	24997		
200	29.2		25.4	38.0
198	95.4		78.0	117.0





#48

2-Nitroaniline

Concen: 1.43 ug/ml

RT: 9.304 min Scan# 1278

Delta R.T. 0.000 min

Lab File: 080671-2.D

Acq: 19 Jun 2025 9:57 am

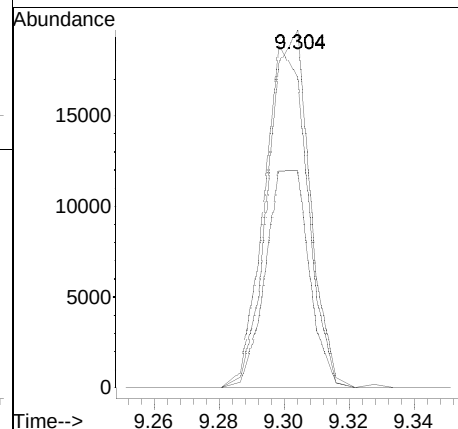
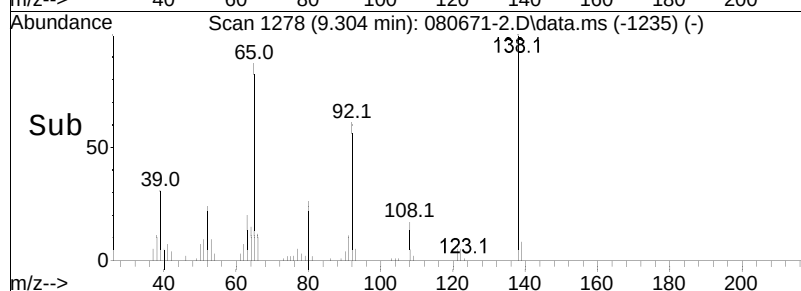
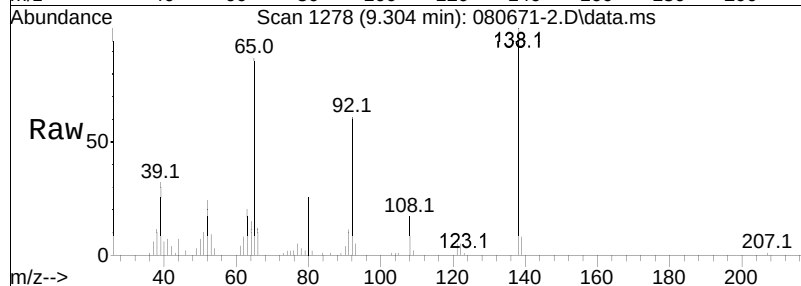
Tgt Ion:138 Resp: 17458

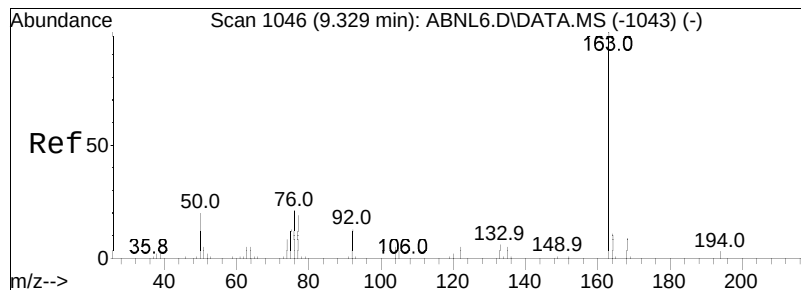
Ion Ratio Lower Upper

138 100

92 63.3 53.5 80.3

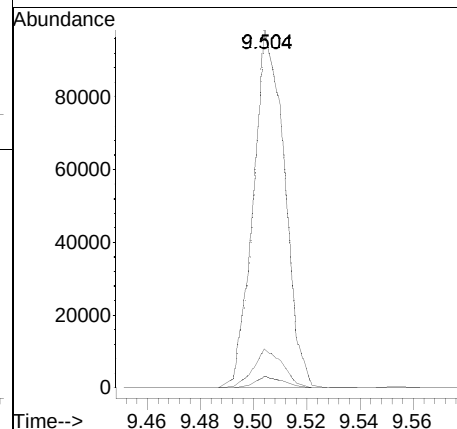
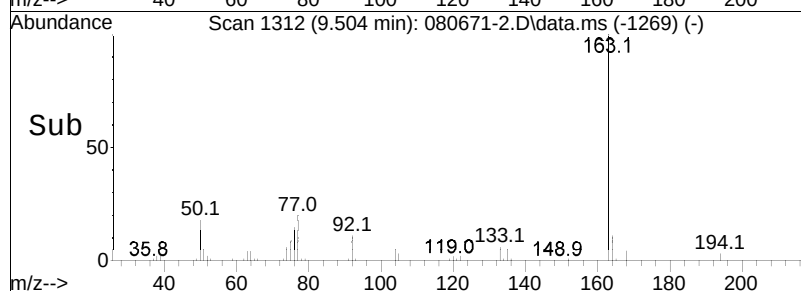
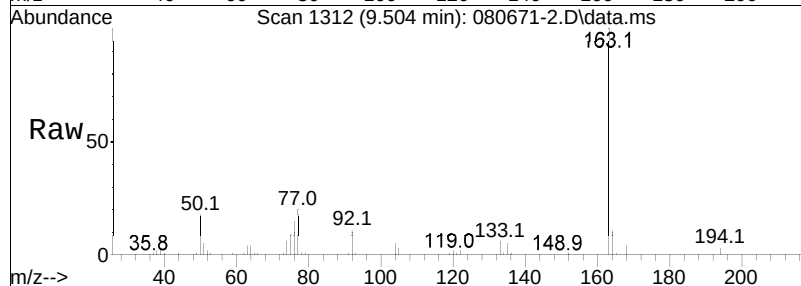
65 99.5 86.3 129.5

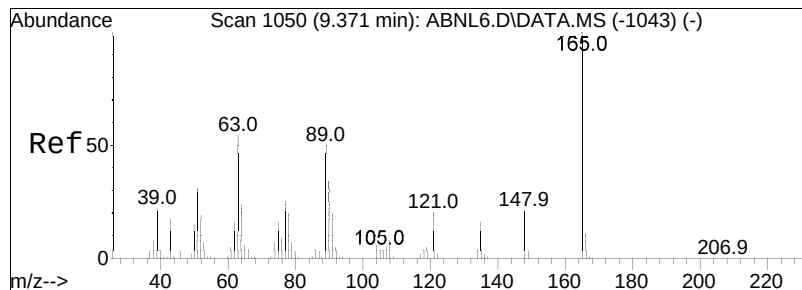




#51
 Dimethyl phthalate
 Concen: 1.19 ug/ml
 RT: 9.504 min Scan# 1312
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

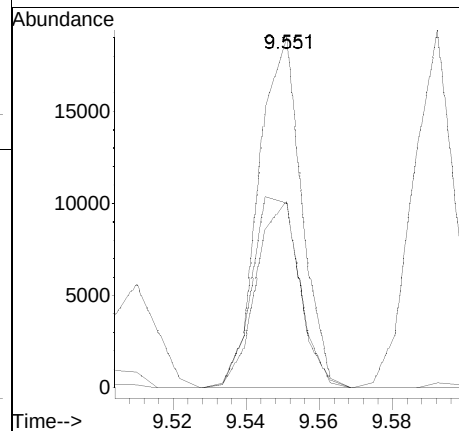
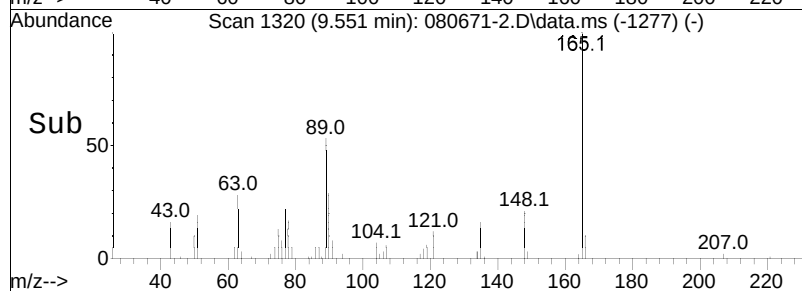
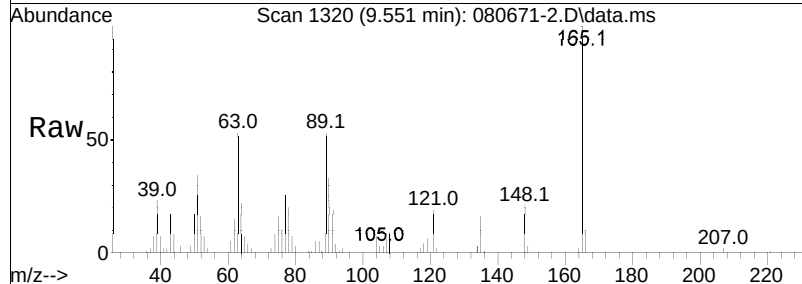
Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.0	3.5	5.3#
164	10.5	7.9	11.9

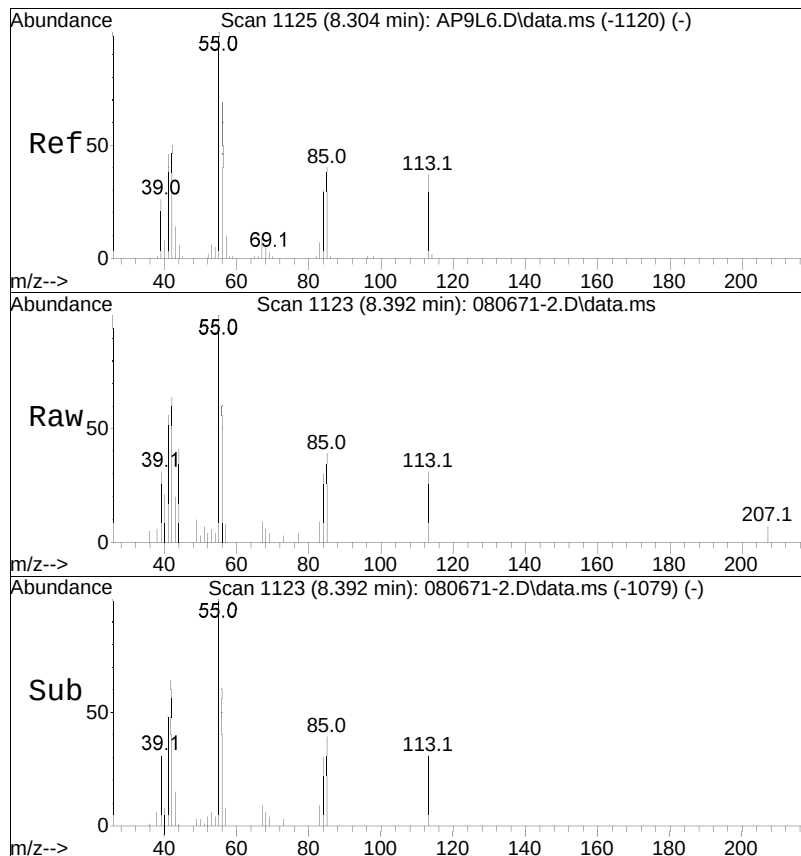




#53
 2,6-Dinitrotoluene
 Concen: 1.41 ug/ml
 RT: 9.551 min Scan# 1320
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

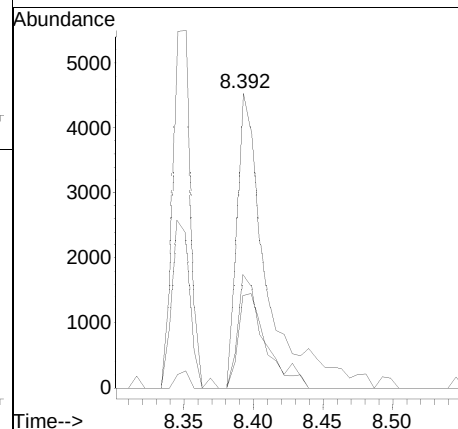
Tgt Ion	Ratio	Lower	Upper
165	100		
89	54.3	54.2	81.2
63	60.3	64.2	96.2#

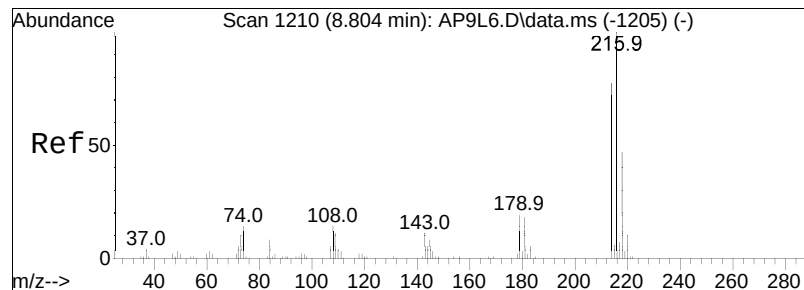




#60
 Caprolactam
 Concen: 0.57 ug/ml
 RT: 8.392 min Scan# 1123
 Delta R.T. 0.006 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

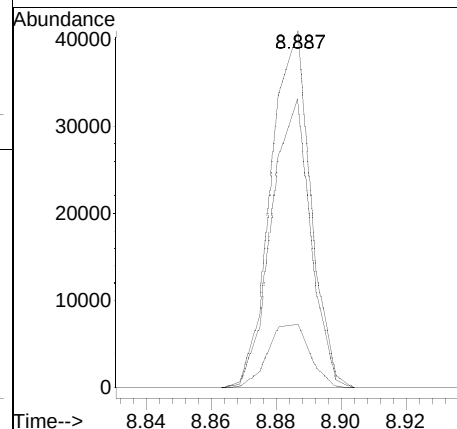
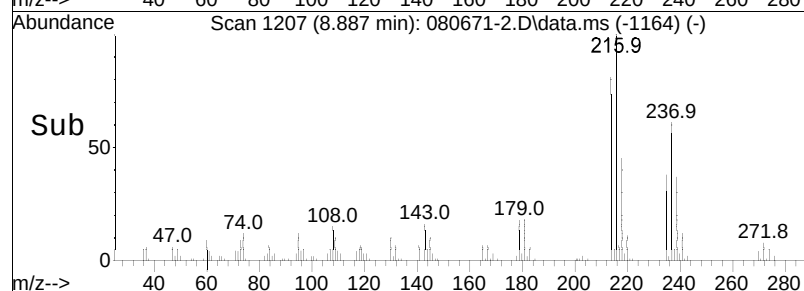
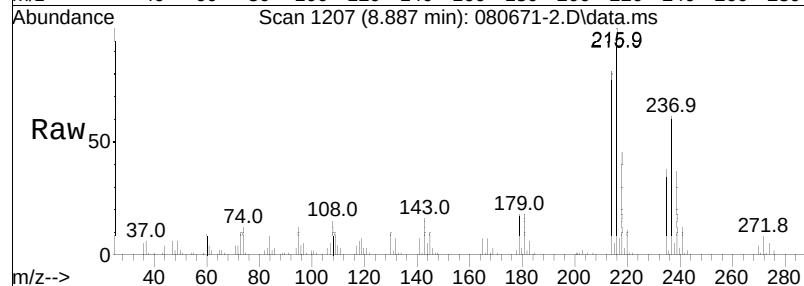
Tgt Ion:	55	Resp:	6855
Ion Ratio	Lower	Upper	
55	100		
85	32.5	19.8	29.6#
113	30.5	29.6	44.4

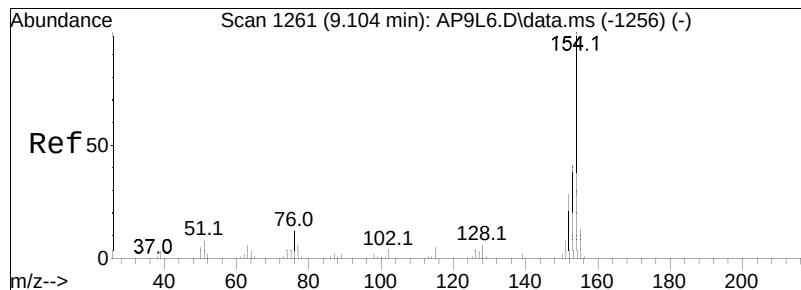




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 1.17 ug/ml
 RT: 8.887 min Scan# 1207
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

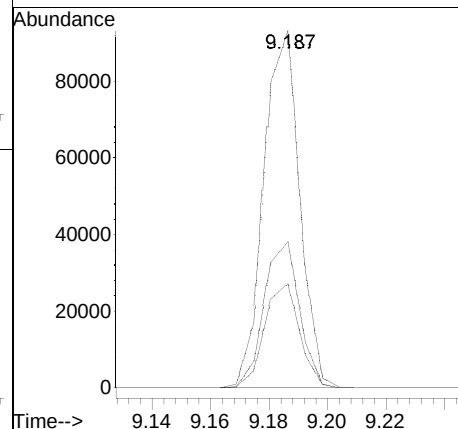
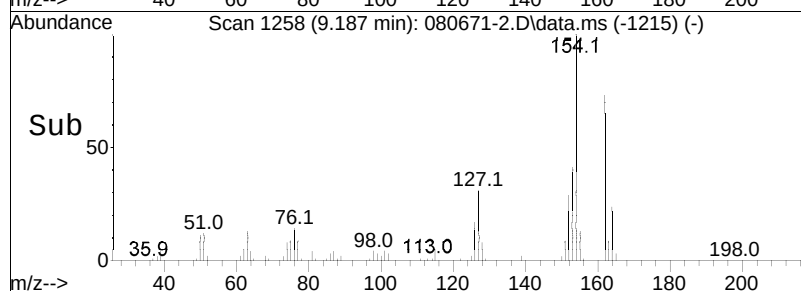
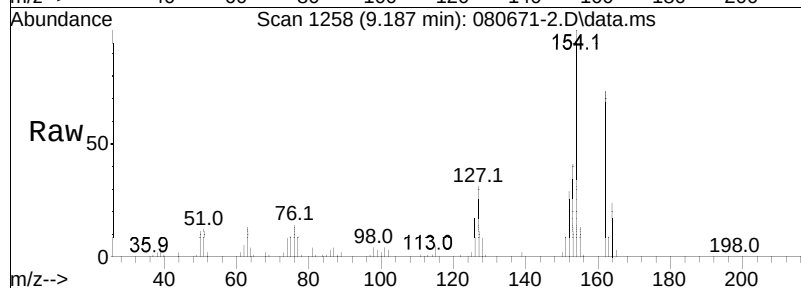
Tgt Ion	Ratio	Lower	Upper
216	100		
214	80.1	63.7	95.5
179	19.3	19.0	28.6

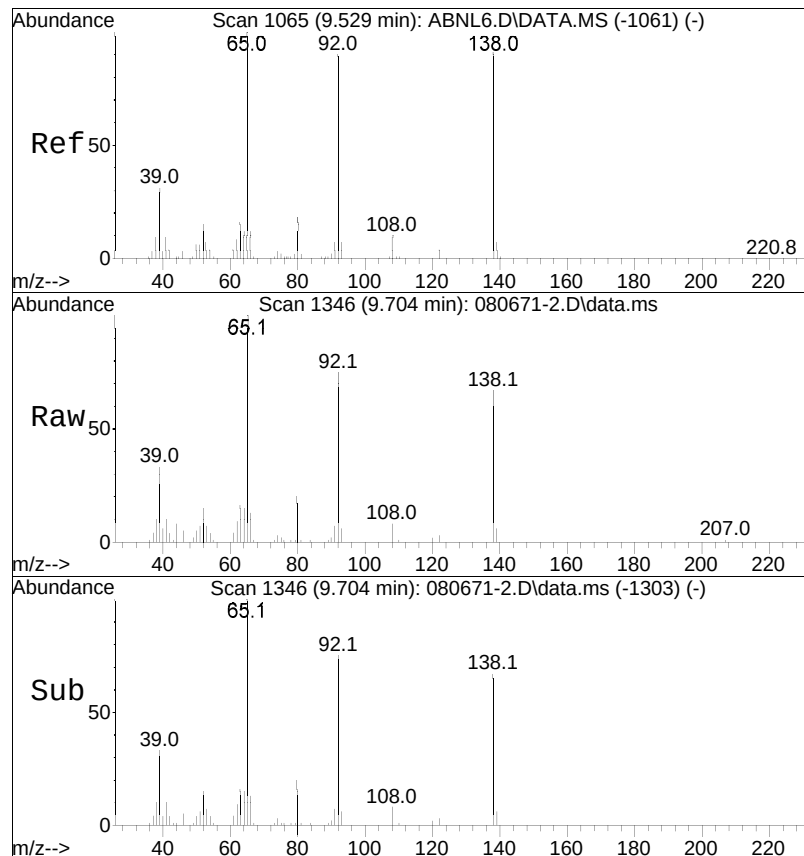




#62
 Biphenyl
 Concen: 1.22 ug/ml
 RT: 9.187 min Scan# 1258
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

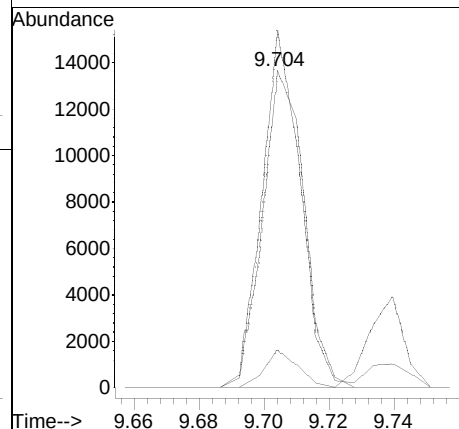
Tgt Ion:	154	Resp:	79024
Ion Ratio	Lower	Upper	
154	100		
153	40.5	32.3	48.5
152	28.8	22.5	33.7

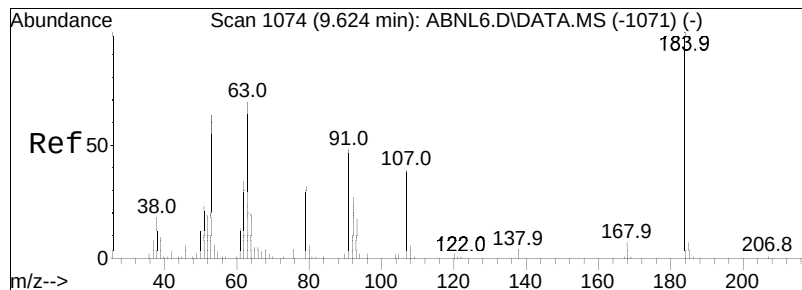




#64
 3-Nitroaniline
 Concen: 1.28 ug/ml
 RT: 9.704 min Scan# 1346
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

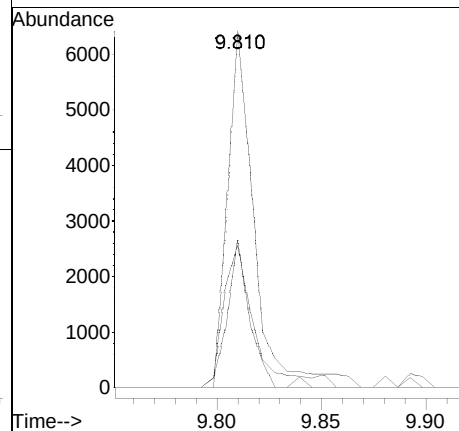
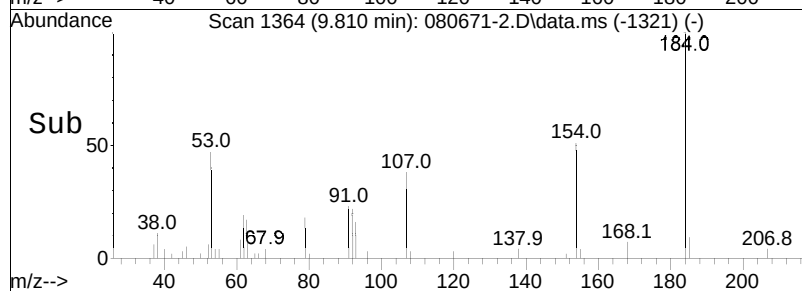
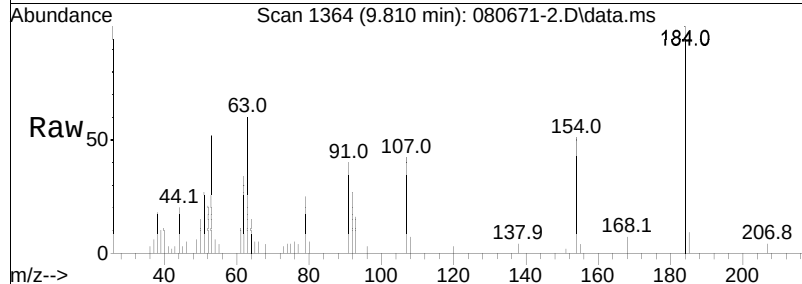
Tgt Ion:	138	Resp:	11977
Ion Ratio	Lower	Upper	
138	100		
92	104.6	93.4	140.2
108	9.6	9.5	14.3

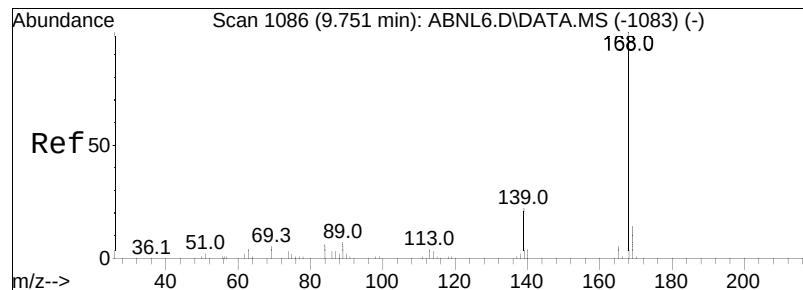




#66
 2,4-Dinitrophenol
 Concen: 1.29 ug/ml
 RT: 9.810 min Scan# 1364
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

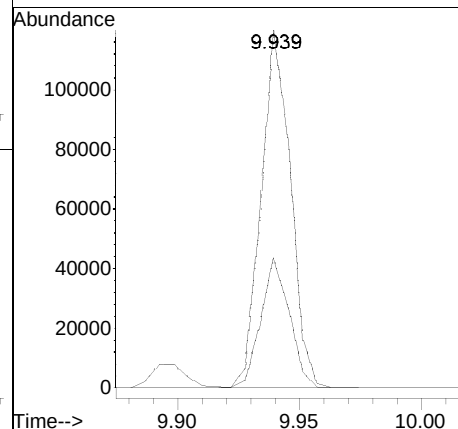
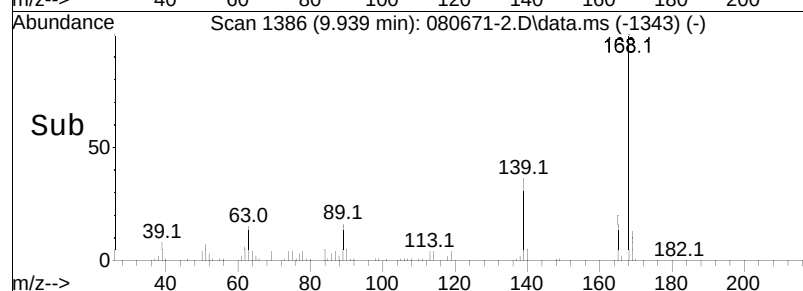
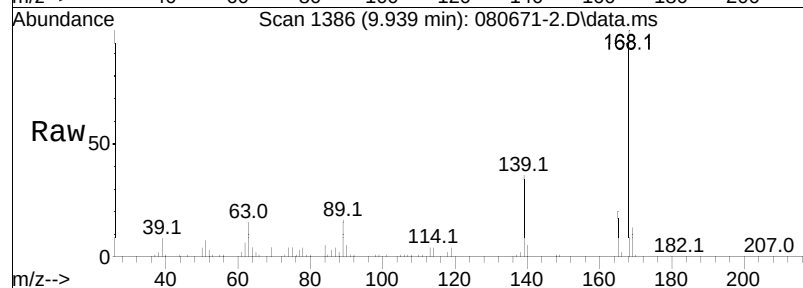
Tgt Ion	Ratio	Lower	Upper
184	100		
107	34.1	37.7	56.5#
91	46.3	46.3	69.5

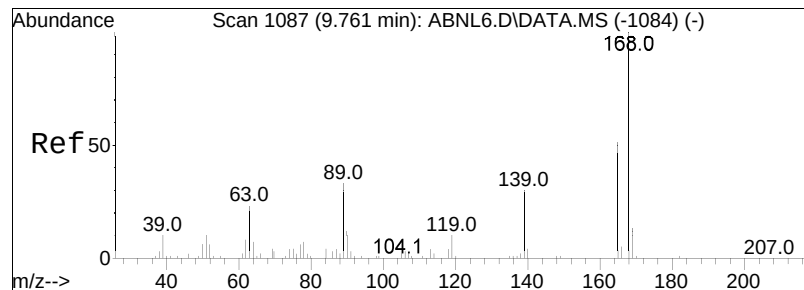




#67
 Dibenzofuran
 Concen: 1.41 ug/ml
 RT: 9.939 min Scan# 1386
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

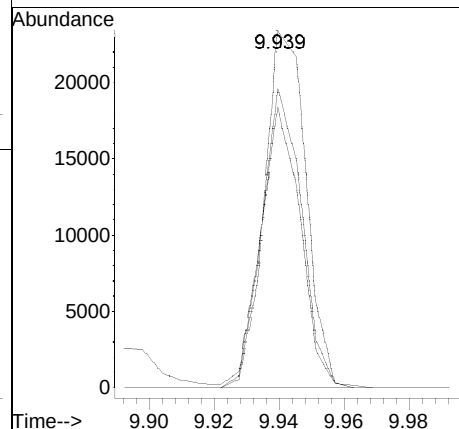
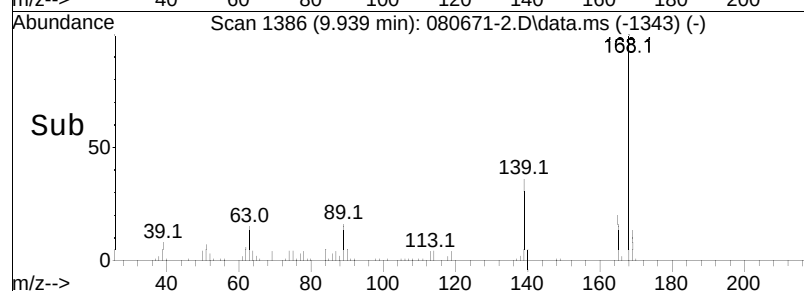
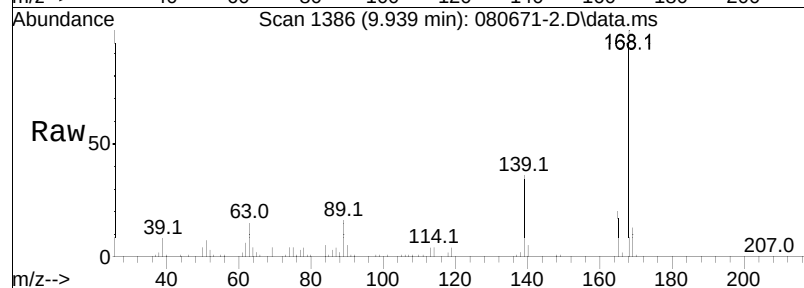
Tgt Ion	Ratio	Lower	Upper
168	100		
139	35.3	31.4	47.2

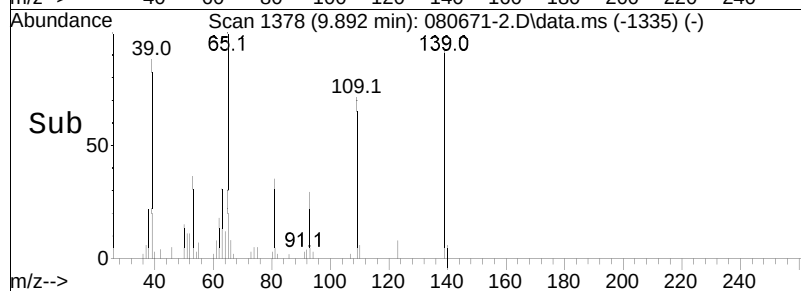
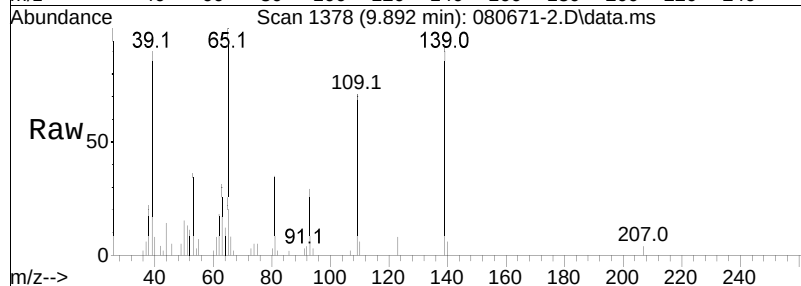
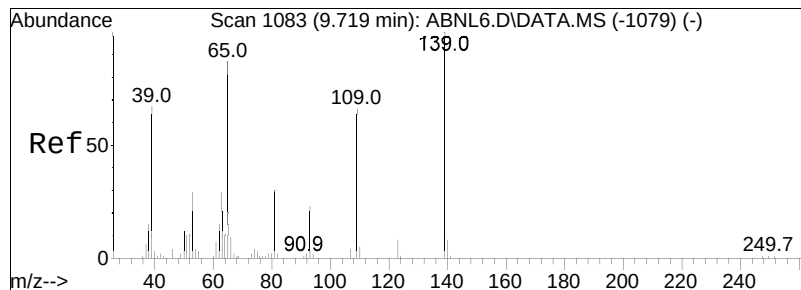




#68
 2,4-Dinitrotoluene
 Concen: 1.70 ug/ml
 RT: 9.939 min Scan# 1386
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

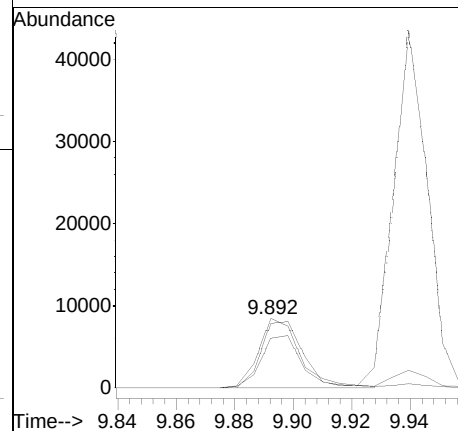
Tgt Ion	Ratio	Lower	Upper
165	100		
89	80.0	72.0	108.0
63	75.1	52.7	79.1

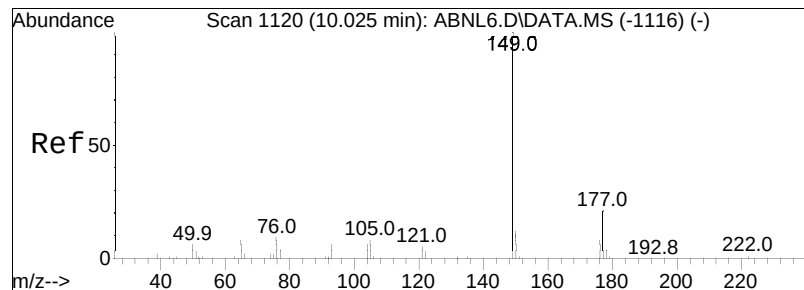




#69
 4-Nitrophenol
 Concen: 1.17 ug/ml
 RT: 9.892 min Scan# 1378
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

Tgt Ion	Ratio	Lower	Upper
65	100		
109	74.4	47.4	71.2#
139	96.7	76.6	115.0





#72

Diethyl phthalate

Concen: 1.56 ug/ml

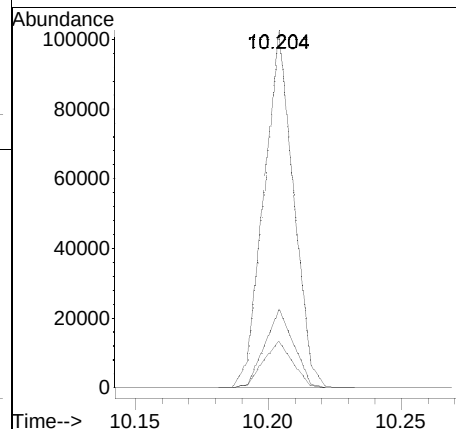
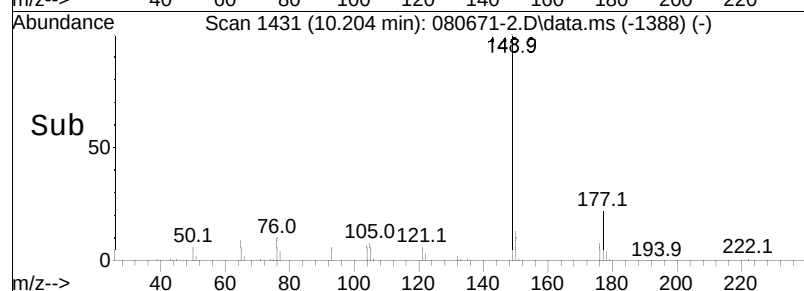
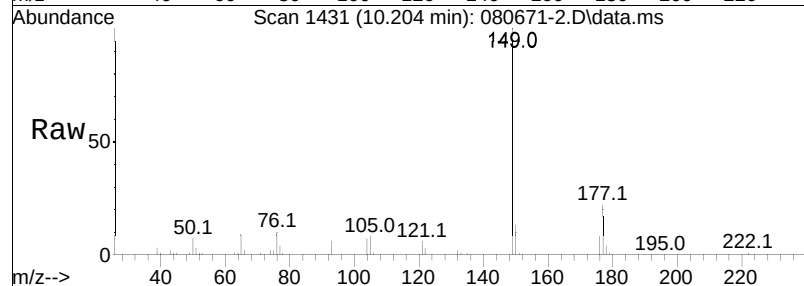
RT: 10.204 min Scan# 1431

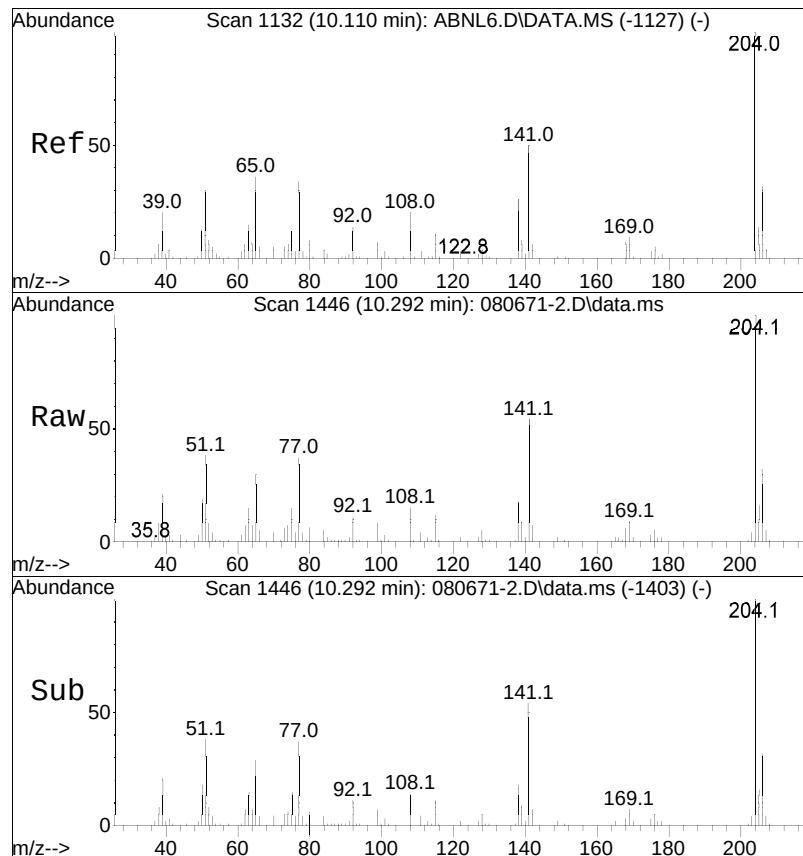
Delta R.T. 0.000 min

Lab File: 080671-2.D

Acq: 19 Jun 2025 9:57 am

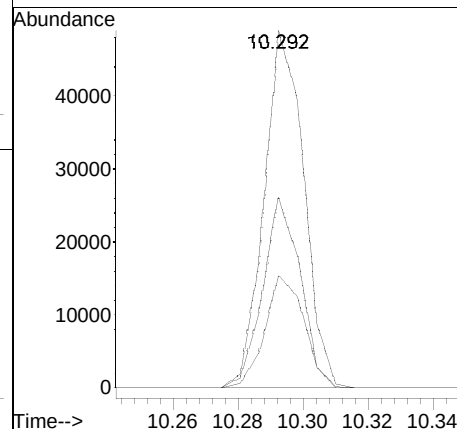
Tgt Ion:	149	Resp:	78237
Ion Ratio	Lower	Upper	
149	100		
177	21.7	16.1	24.1
150	13.2	9.4	14.2

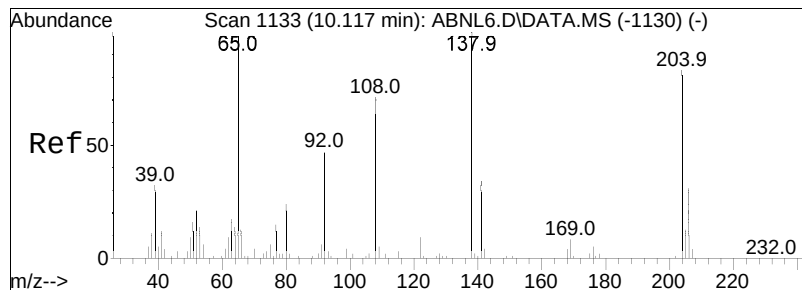




#74
 4-Chlorophenyl phenyl ether
 Concen: 1.51 ug/ml
 RT: 10.292 min Scan# 1446
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

Tgt Ion:	204	Resp:	41200
Ion Ratio	Lower	Upper	
204	100		
206	31.3	25.8	38.6
141	50.5	53.6	80.4#





#75

4-Nitroaniline

Concen: 1.78 ug/ml

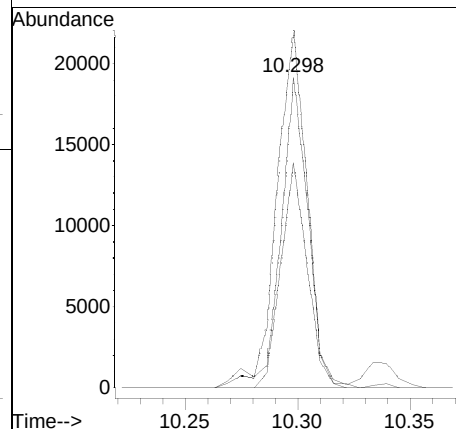
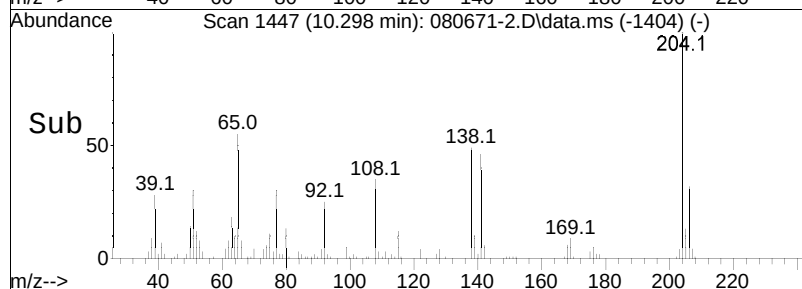
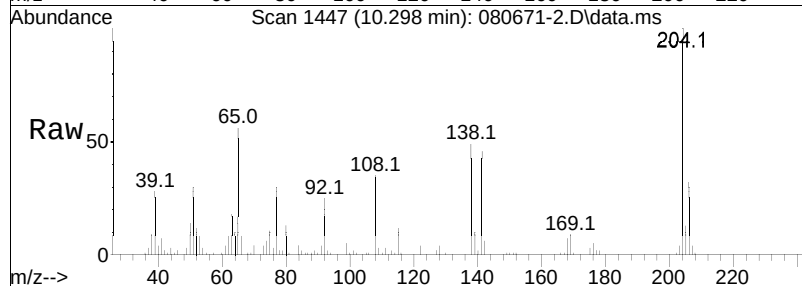
RT: 10.298 min Scan# 1447

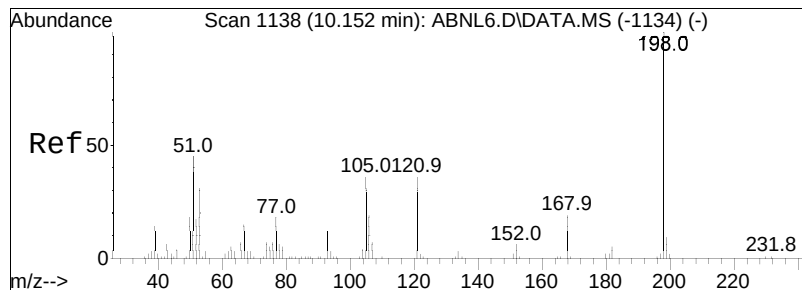
Delta R.T. 0.000 min

Lab File: 080671-2.D

Acq: 19 Jun 2025 9:57 am

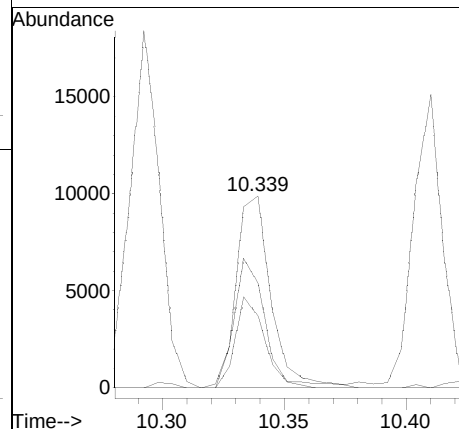
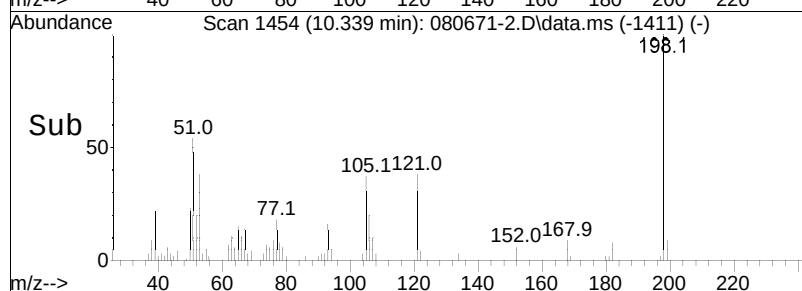
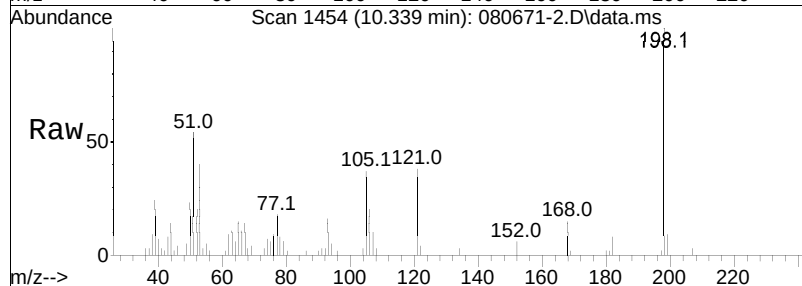
Tgt Ion:	138	Resp:	16158
Ion Ratio	Lower	Upper	
138	100		
108	69.2	52.1	78.1
65	126.0	115.0	172.6

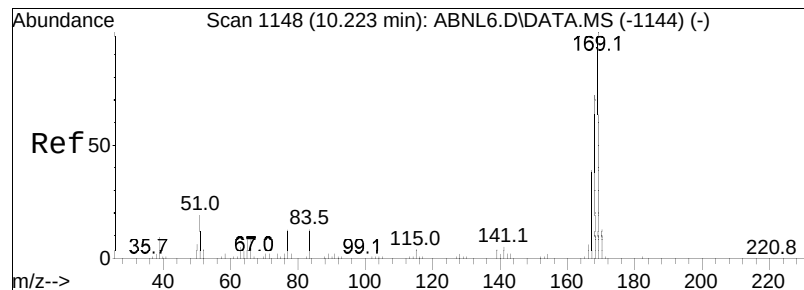




#76
 4,6-Dinitro-o-cresol
 Concen: 1.57 ug/ml
 RT: 10.339 min Scan# 1454
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

Tgt Ion	Ratio	Lower	Upper
198	100		
51	62.1	76.0	114.0#
105	40.2	45.6	68.4#





#77

NDPA/DPA

Concen: 1.49 ug/ml

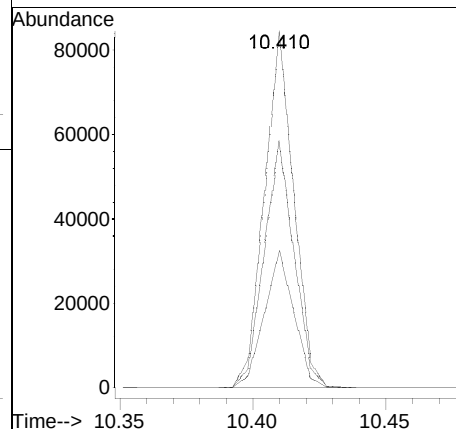
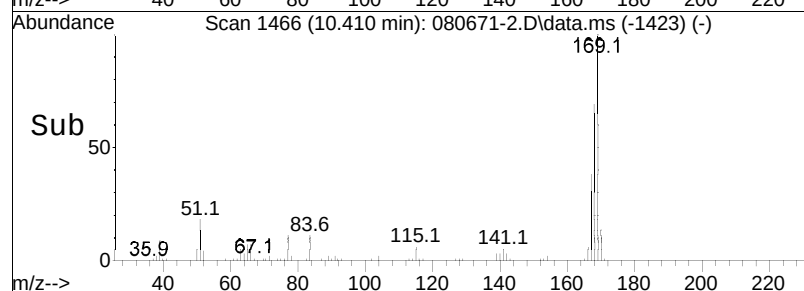
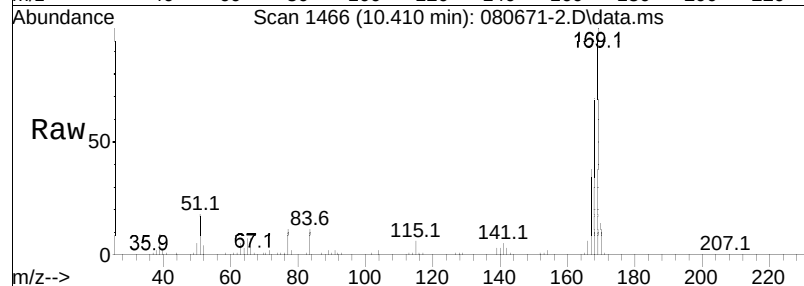
RT: 10.410 min Scan# 1466

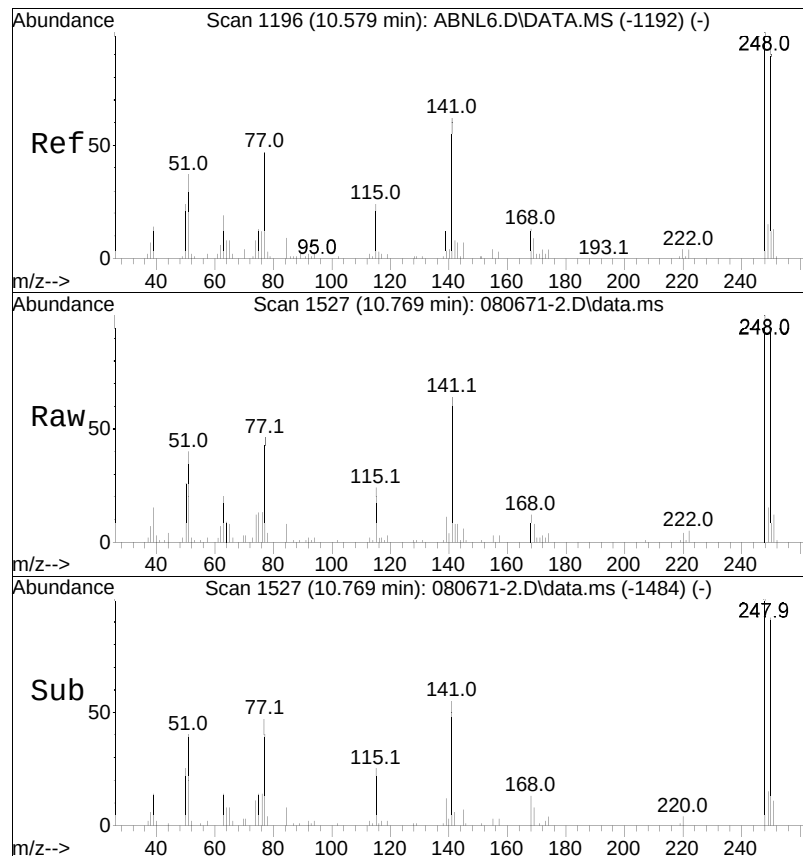
Delta R.T. 0.000 min

Lab File: 080671-2.D

Acq: 19 Jun 2025 9:57 am

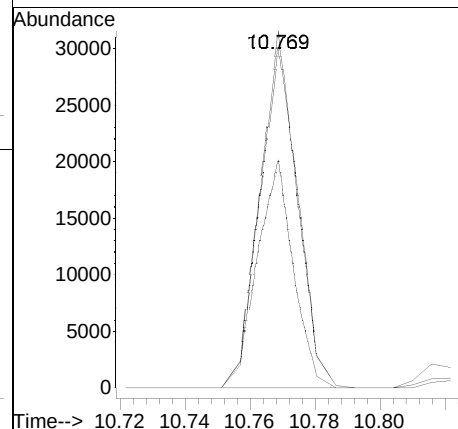
Tgt	Ion:169	Resp:	64617
Ion	Ratio	Lower	Upper
169	100		
168	70.7	54.0	81.0
167	39.0	28.6	42.8

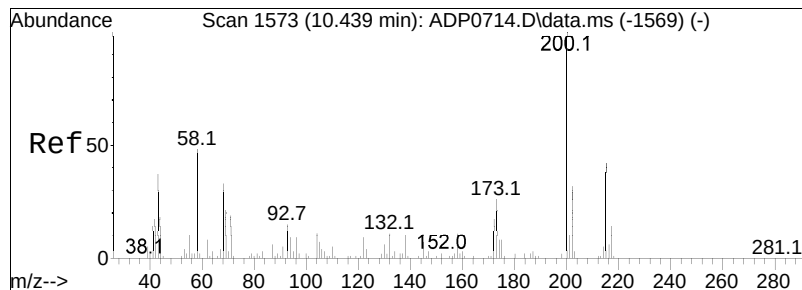




#80
 4-Bromophenyl phenyl ether
 Concen: 1.44 ug/ml
 RT: 10.769 min Scan# 1527
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

Tgt Ion:	248	Resp:	24708
Ion Ratio	Lower	Upper	
248	100		
141	62.6	76.6	114.8#
250	98.2	77.3	115.9





#87

Atrazine

Concen: 1.65 ug/ml

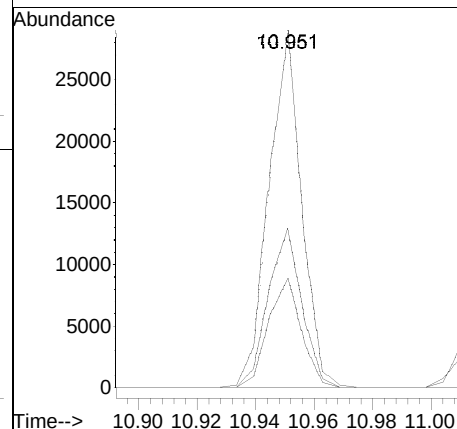
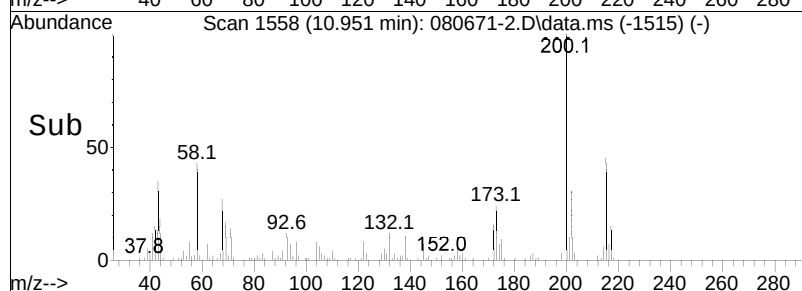
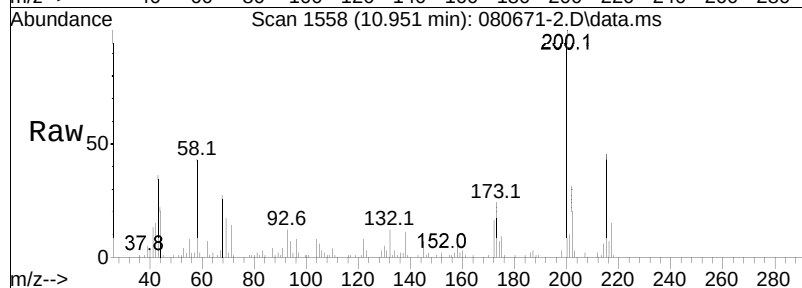
RT: 10.951 min Scan# 1558

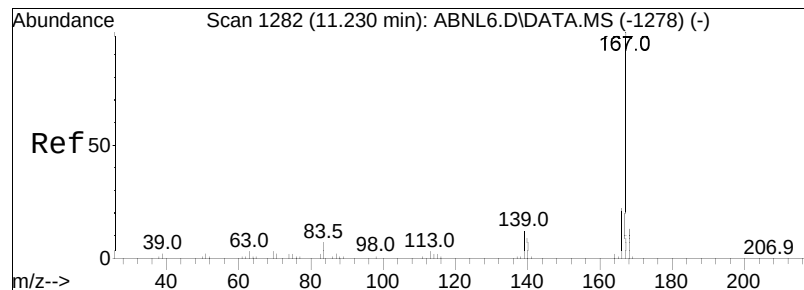
Delta R.T. 0.000 min

Lab File: 080671-2.D

Acq: 19 Jun 2025 9:57 am

Tgt	Ion:200	Resp:	22240
Ion	Ratio	Lower	Upper
200	100		
202	31.2	25.8	38.6
215	46.1	40.2	60.4





#91

Carbazole

Concen: 1.53 ug/ml

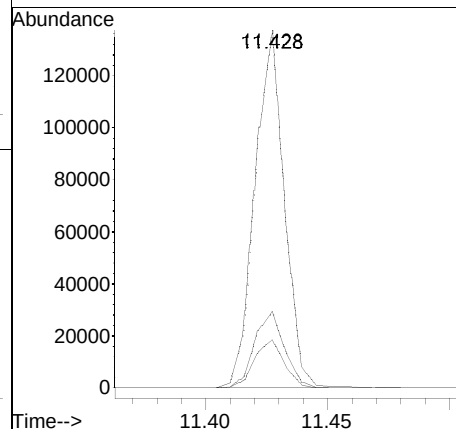
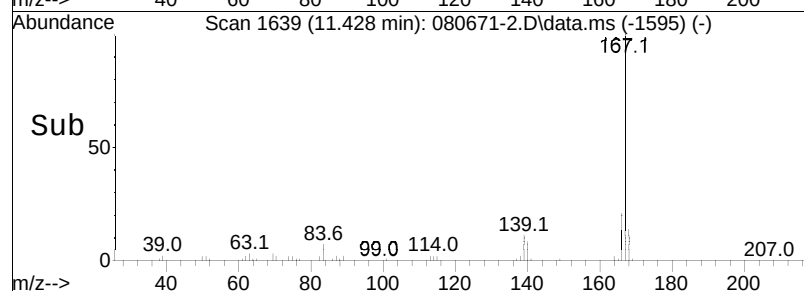
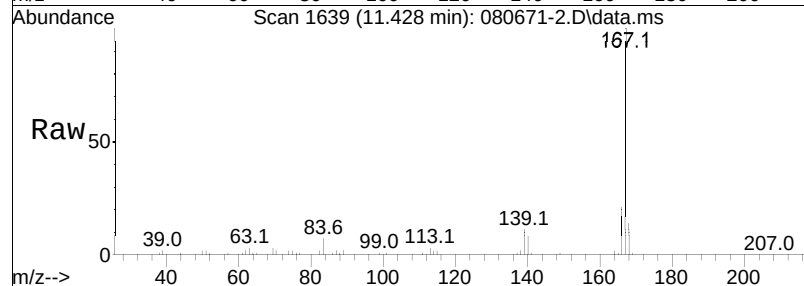
RT: 11.428 min Scan# 1639

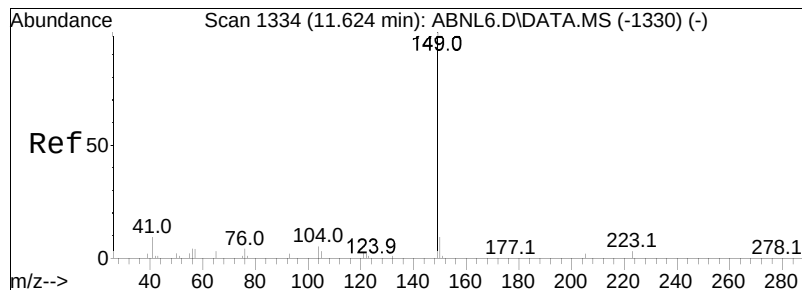
Delta R.T. 0.006 min

Lab File: 080671-2.D

Acq: 19 Jun 2025 9:57 am

Tgt Ion:	167	Resp:	114268
Ion Ratio	Lower	Upper	
167	100		
168	13.7	10.6	15.8
166	21.9	17.4	26.0





#92

Di-n-butylphthalate

Concen: 1.45 ug/ml

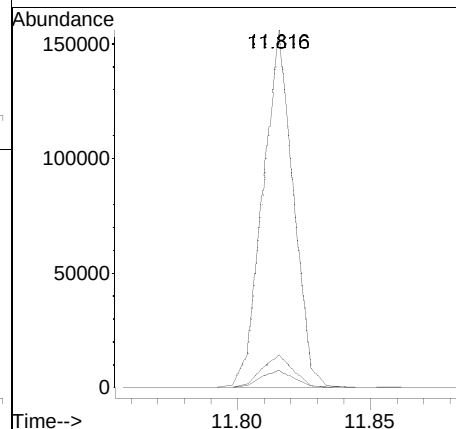
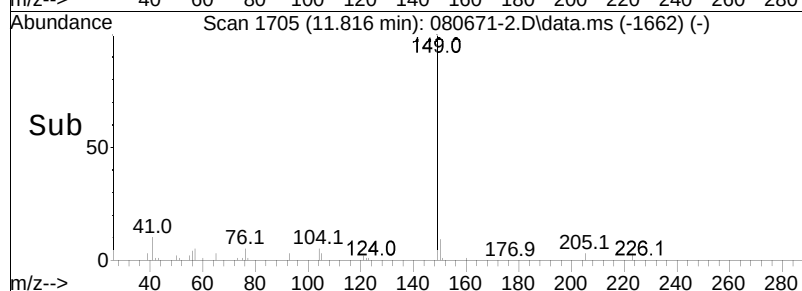
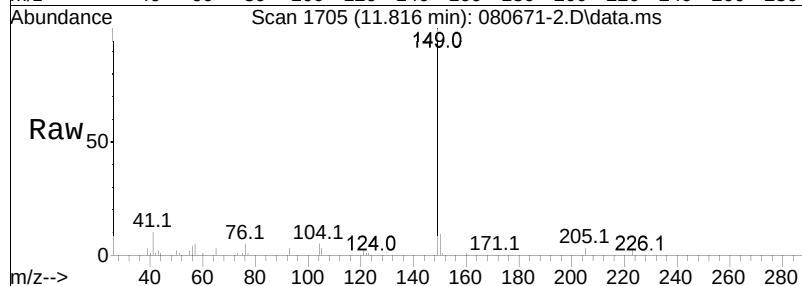
RT: 11.816 min Scan# 1705

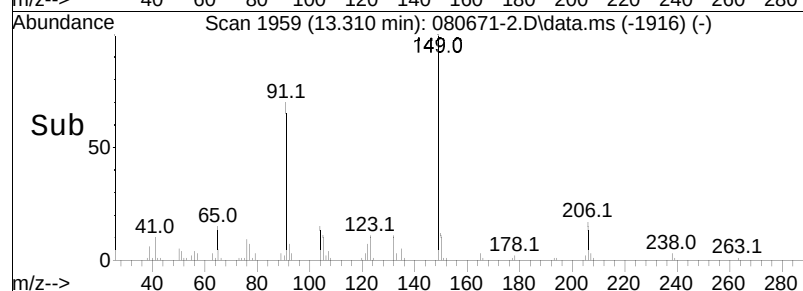
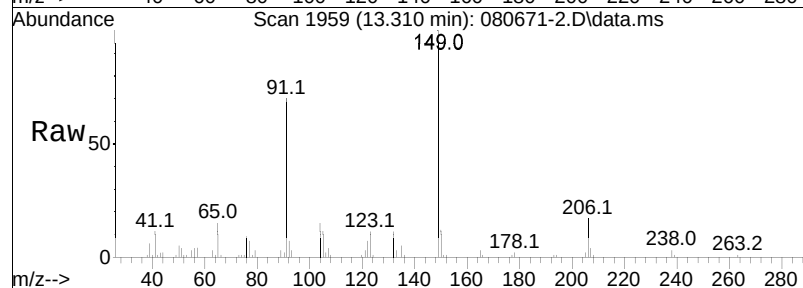
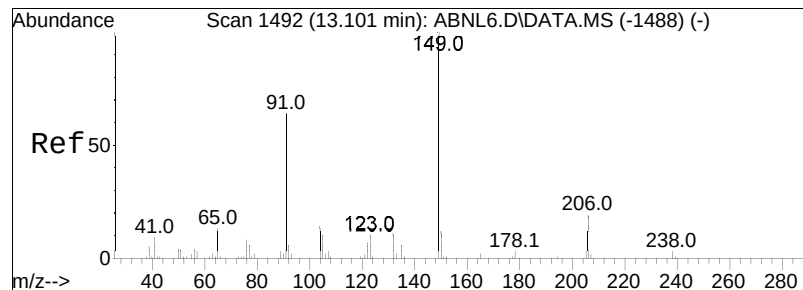
Delta R.T. 0.000 min

Lab File: 080671-2.D

Acq: 19 Jun 2025 9:57 am

Tgt	Ion:149	Resp:	122033
Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.0	10.6
104	5.2	4.5	6.7





#97

Butyl benzyl phthalate

Concen: 1.59 ug/ml

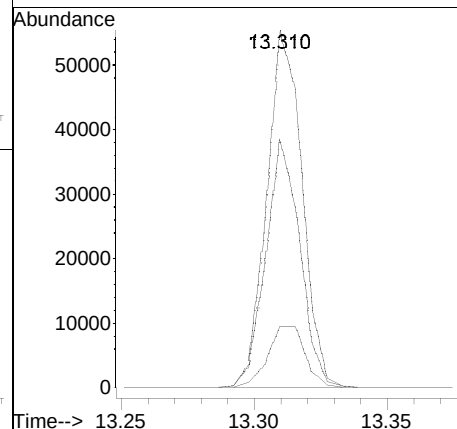
RT: 13.310 min Scan# 1959

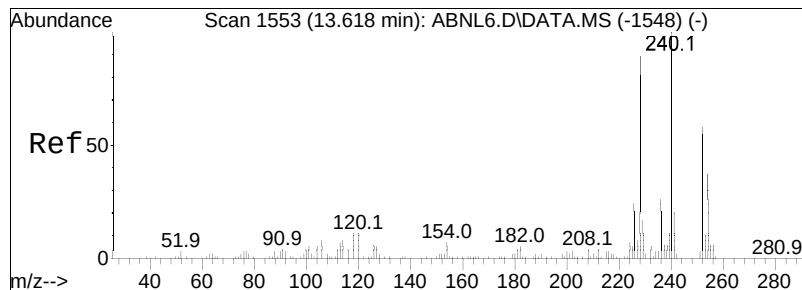
Delta R.T. 0.000 min

Lab File: 080671-2.D

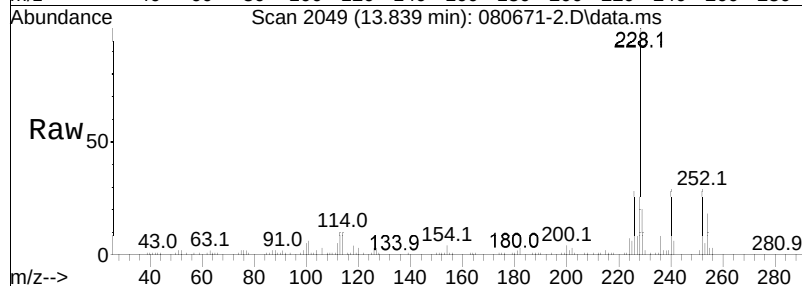
Acq: 19 Jun 2025 9:57 am

Tgt Ion:	149	Resp:	50575
Ion Ratio	Lower	Upper	
149	100		
91	67.2	63.3	94.9
206	18.3	13.9	20.9

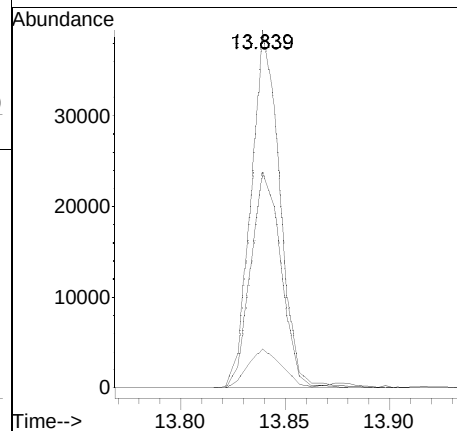
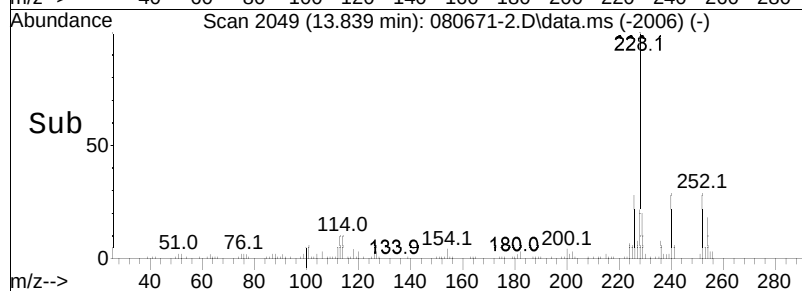


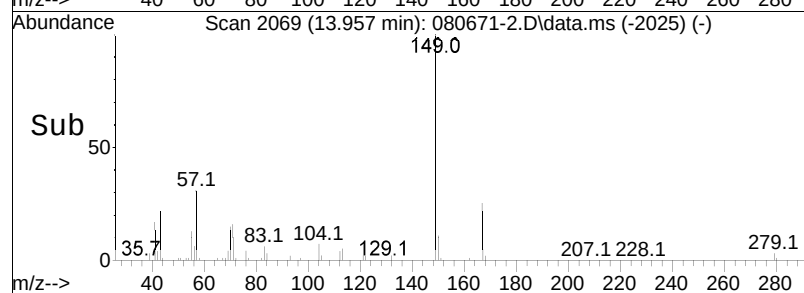
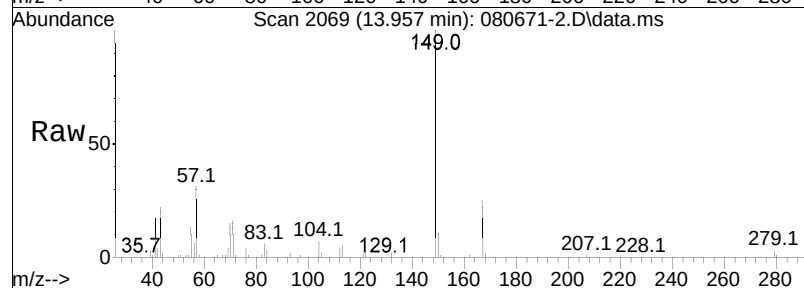
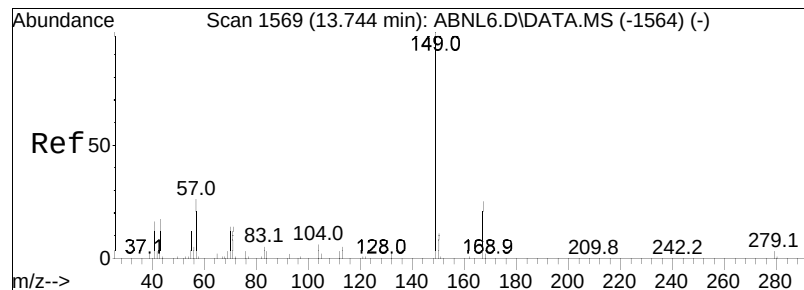


#106
 3,3'-Dichlorobenzidine
 Concen: 1.13 ug/ml
 RT: 13.839 min Scan# 2049
 Delta R.T. 0.000 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am



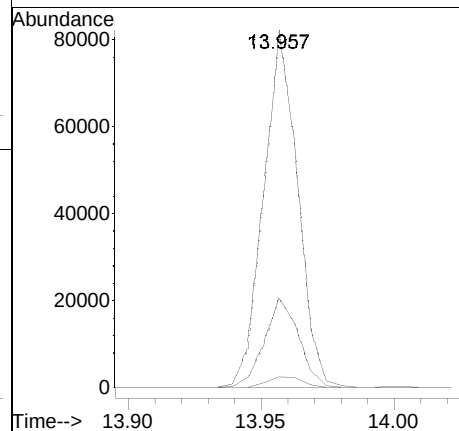
Tgt Ion	Ratio	Lower	Upper
252	100		
126	12.9	14.5	21.7#
254	64.0	51.2	76.8

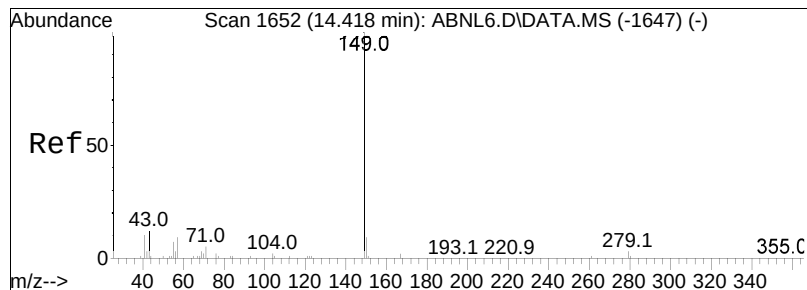




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 1.42 ug/ml
 RT: 13.957 min Scan# 2069
 Delta R.T. 0.006 min
 Lab File: 080671-2.D
 Acq: 19 Jun 2025 9:57 am

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.3	22.1	33.1
279	2.9	3.0	4.4#





#109

Di-n-octylphthalate

Concen: 1.44 ug/ml

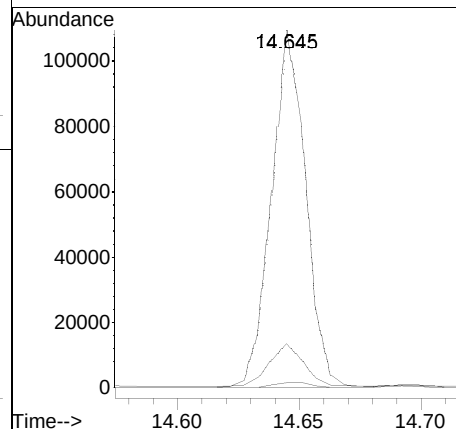
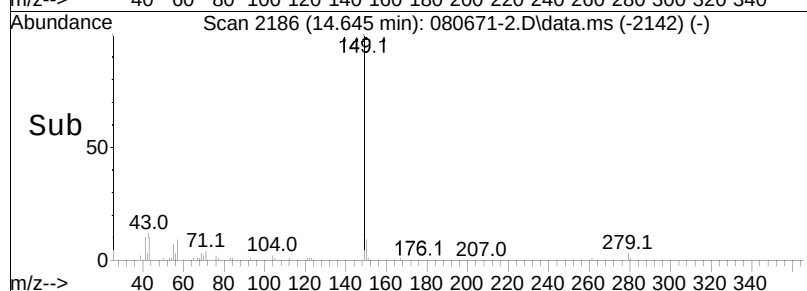
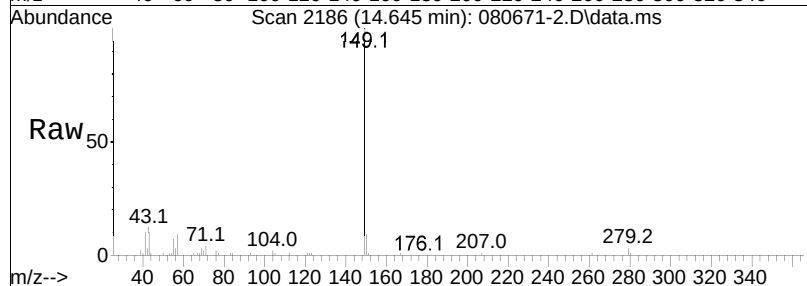
RT: 14.645 min Scan# 2186

Delta R.T. 0.006 min

Lab File: 080671-2.D

Acq: 19 Jun 2025 9:57 am

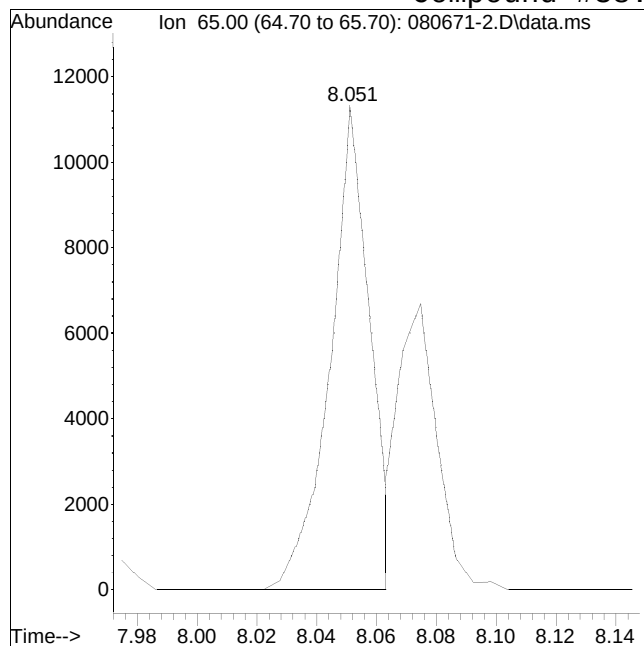
Tgt	Ion:149	Resp:	105345
Ion	Ratio	Lower	Upper
149	100		
43	12.6	18.8	28.2#
167	1.3	1.3	1.9



Manual Integration Report

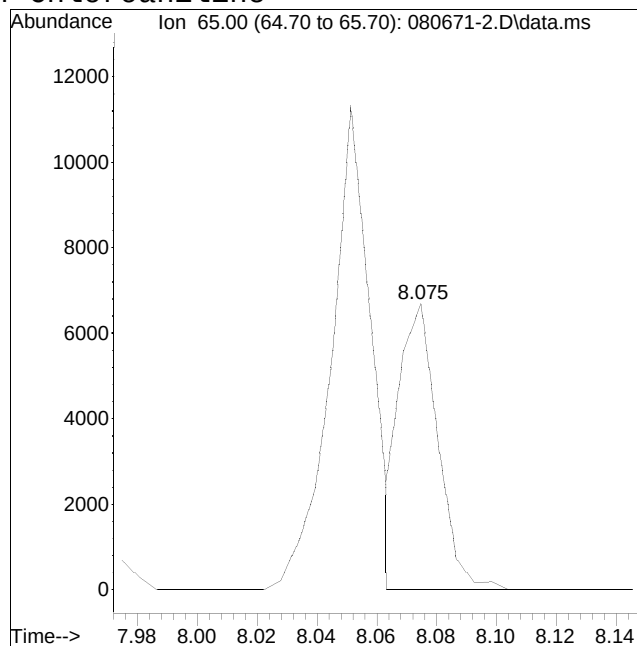
Data Path : I:\8270\SV106\250619RVT\ QMethod : FS250311SV106.m
Data File : 080671-2.D Operator : SV106:jg
Date Inj'd : 6/19/2025 9:57 am Instrument : SV 106
Sample : WG2080671-2,32,,gmr Quant Date : 6/19/2025 10:16 am

Compound #38: 4-Chloroaniline



Original Peak Response = 10605

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 Peak Response = 5888 M3

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : 080671-3.D
 Acq On : 19 Jun 2025 10:20 am
 Operator : SV106:jg
 Sample : WG2080671-3,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:17:50 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:46 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.551	152	69720	4.000	ug/ml	0.00
Standard Area 1 = 62704			Recovery =	111.19%		
27) IS2_1,4-Dichlorobenzen...	6.551	152	69720	4.000	ug/ml	0.00
Standard Area 3 = 60457			Recovery =	115.32%		
32) IS3_1,4-Dichlorobenzen...	6.551	152	69720	4.000	ug/ml	0.00
Standard Area 2 = 52647			Recovery =	132.43%		
35) IS1_Naphthalene-d8	7.969	136	235952	4.000	ug/ml	# 0.00
Standard Area 1 = 233073			Recovery =	101.24%		
55) IS2_Naphthalene-d8	7.969	136	235952	4.000	ug/ml	# 0.00
Standard Area 3 = 221512			Recovery =	106.52%		
63) IS1_Acenaphthene-d10	9.739	164	146667	4.000	ug/ml	0.00
Standard Area 1 = 146915			Recovery =	99.83%		
83) IS2_Acenaphthene-d10	9.739	164	146667	4.000	ug/ml	0.00
Standard Area 3 = 141624			Recovery =	103.56%		
86) IS3_Acenaphthene-d10	9.739	164	146667	4.000	ug/ml	0.00
Standard Area 2 = 115193			Recovery =	127.32%		
88) IS1_Phenanthrene-d10	11.186	188	299023	4.000	ug/ml	0.00
Standard Area 1 = 296755			Recovery =	100.76%		
100) IS3_Phenanthrene-d10	11.186	188	299023	4.000	ug/ml	0.00
Standard Area 2 = 248688			Recovery =	120.24%		
104) IS1_Chrysene-d12	13.851	240	336935	4.000	ug/ml	0.00
Standard Area 1 = 309276			Recovery =	108.94%		
113) IS1_Perylene-d12	15.339	264	342302	4.000	ug/ml	0.01
Standard Area 1 = 304124			Recovery =	112.55%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.698	112	16055	0.816	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	40.80%		
7) Phenol-d6	6.181	99	15421	0.669	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	33.45%		
19) Nitrobenzene-d5	7.204	82	11343	0.594	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	59.40%		
46) 2-Fluorobiphenyl	9.092	172	33946	0.623	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	62.30%		
79) 2,4,6-Tribromophenol	10.510	330	11953	1.585	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	79.25%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : 080671-3.D
 Acq On : 19 Jun 2025 10:20 am
 Operator : SV106:jg
 Sample : WG2080671-3,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:17:50 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:46 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.780	244	66484	0.857	ug/ml	0.00
Spiked Amount	1.000	Range	30 - 130	Recovery	=	85.70%
Target Compounds						Qvalue
6) 2-Chlorophenol	6.292	128	22276	1.049	ug/ml	99
8) Phenol	6.198	94	17817	0.701	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.939	45	42459	0.901	ug/ml#	76
15) 2-Methylphenol	6.922	108	15626	0.699	ug/ml	97
17) n-Nitrosodi-n-propylamine	7.081	70	16835	1.130	ug/ml#	90
18) 3-Methylphenol/4-Methy...	7.110	108	17586	0.909	ug/ml	96
20) Nitrobenzene	7.222	77	21210	1.088	ug/ml	99
21) Isophorone	7.504	82	44176	1.104	ug/ml	97
22) 2-Nitrophenol	7.581	139	10998	1.240	ug/ml	97
23) 2,4-Dimethylphenol	7.675	107	17227	0.825	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.769	93	28132	0.985	ug/ml	96
25) 2,4-Dichlorophenol	7.845	162	21702	1.095	ug/ml#	92
28) Benzaldehyde	5.987	105	20525	1.235	ug/ml	93
29) Acetophenone	7.045	105	33912	1.182	ug/ml#	94
38) 4-Chloroaniline	8.075	65	3805M3	0.490	ug/ml	
40) p-Chloro-m-cresol	8.598	107	20945	1.092	ug/ml	98
43) Hexachlorocyclopentadiene	8.886	237	14477	0.818	ug/ml	93
44) 2,4,6-Trichlorophenol	9.004	196	18536	1.251	ug/ml	96
45) 2,4,5-Trichlorophenol	9.033	196	22316	1.485	ug/ml	100
48) 2-Nitroaniline	9.304	138	16286	1.661	ug/ml	91
51) Dimethyl phthalate	9.504	163	76443	1.426	ug/ml#	99
53) 2,6-Dinitrotoluene	9.551	165	14638	1.646	ug/ml#	82
60) Caprolactam	8.392	55	4890	0.504	ug/ml#	93
61) 1,2,4,5-Tetrachloroben...	8.886	216	26593	1.123	ug/ml	96
62) Biphenyl	9.186	154	66168	1.267	ug/ml	98
64) 3-Nitroaniline	9.704	138	11566	1.250	ug/ml#	90
66) 2,4-Dinitrophenol	9.810	184	6527	1.471	ug/ml#	78
67) Dibenzofuran	9.939	168	90057	1.283	ug/ml	92
68) 2,4-Dinitrotoluene	9.939	165	20989	1.737	ug/ml	88
69) 4-Nitrophenol	9.892	65	8606	1.220	ug/ml	95
72) Diethyl phthalate	10.204	149	78569	1.577	ug/ml	99
74) 4-Chlorophenyl phenyl ...	10.292	204	36863	1.363	ug/ml#	86
75) 4-Nitroaniline	10.298	138	16268	1.807	ug/ml	84

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : 080671-3.D
 Acq On : 19 Jun 2025 10:20 am
 Operator : SV106:jg
 Sample : WG2080671-3,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:17:50 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 08:16:46 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	4,6-Dinitro-o-cresol	10.339	198	10211	1.640	ug/ml#	71
77)	NDPA/DPA	10.410	169	63691	1.478	ug/ml	94
80)	4-Bromophenyl phenyl e...	10.769	248	23307	1.373	ug/ml#	82
87)	Atrazine	10.951	200	23118	1.725	ug/ml	94
91)	Carbazole	11.427	167	116323	1.574	ug/ml	99
92)	Di-n-butylphthalate	11.816	149	131985	1.581	ug/ml	99
97)	Butyl benzyl phthalate	13.310	149	61830	1.880	ug/ml	92
106)	3,3'-Dichlorobenzidine	13.839	252	41373	1.145	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	13.957	149	90471	1.603	ug/ml#	96
109)	Di-n-octylphthalate	14.645	149	131541	1.593	ug/ml#	81

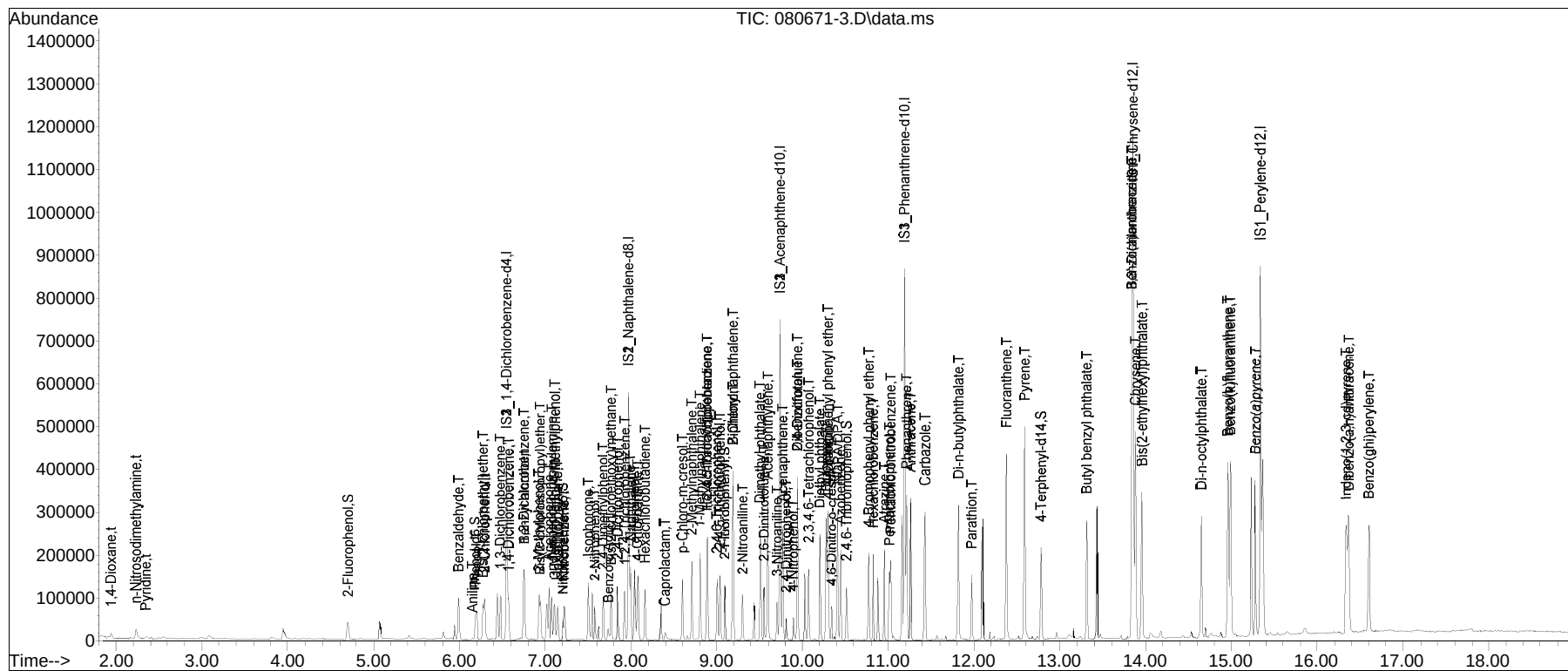
(#) = qualifier out of range (m) = manual integration (+) = signals summed

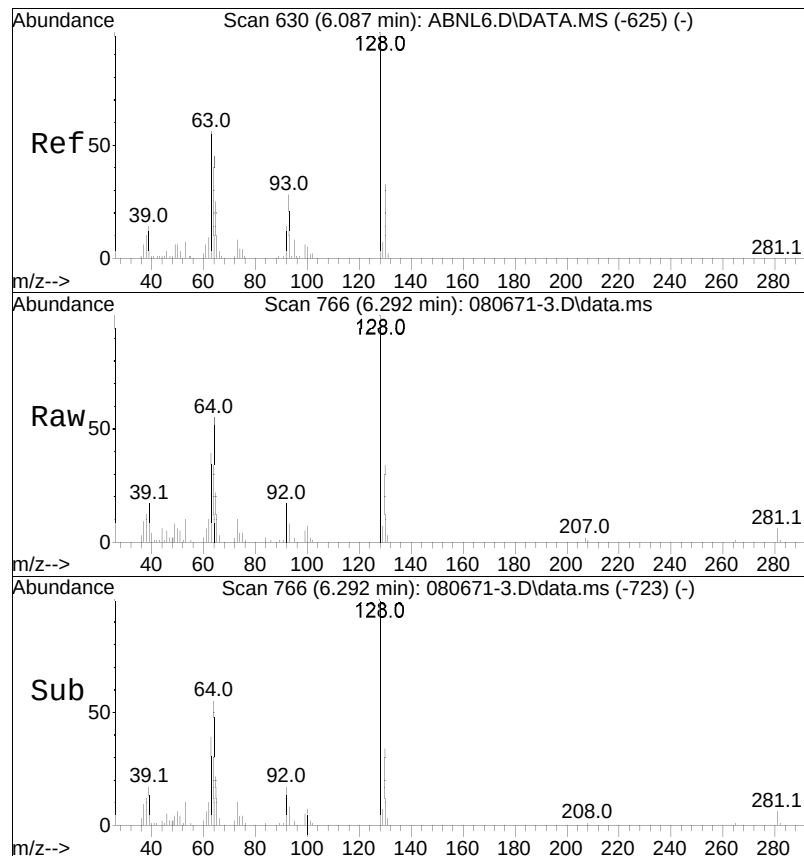
(QT Reviewed)

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Data Path   : I:\8270\SV106\250619RVT\  
Data File  : 080671-3.D  
Acq On     : 19 Jun 2025   10:20 am  
Operator   : SV106:jg  
Sample     : WG2080671-3,32,,gmr  
Misc       : WG2080865,WG2080671,ical22075  
ALS Vial   : 6      Sample Multiplier: 1
```

Quant Time: Jun 21 10:17:50 2025
Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 19 08:16:46 2025
Response via : Initial Calibration

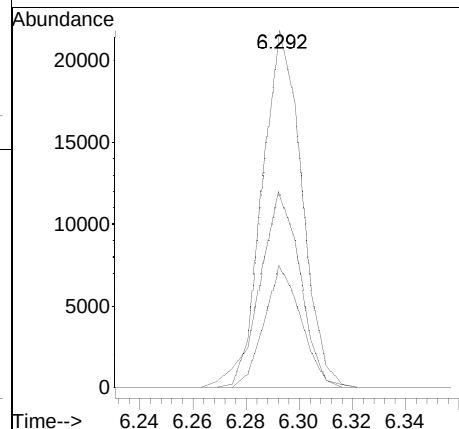
Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90619.D•

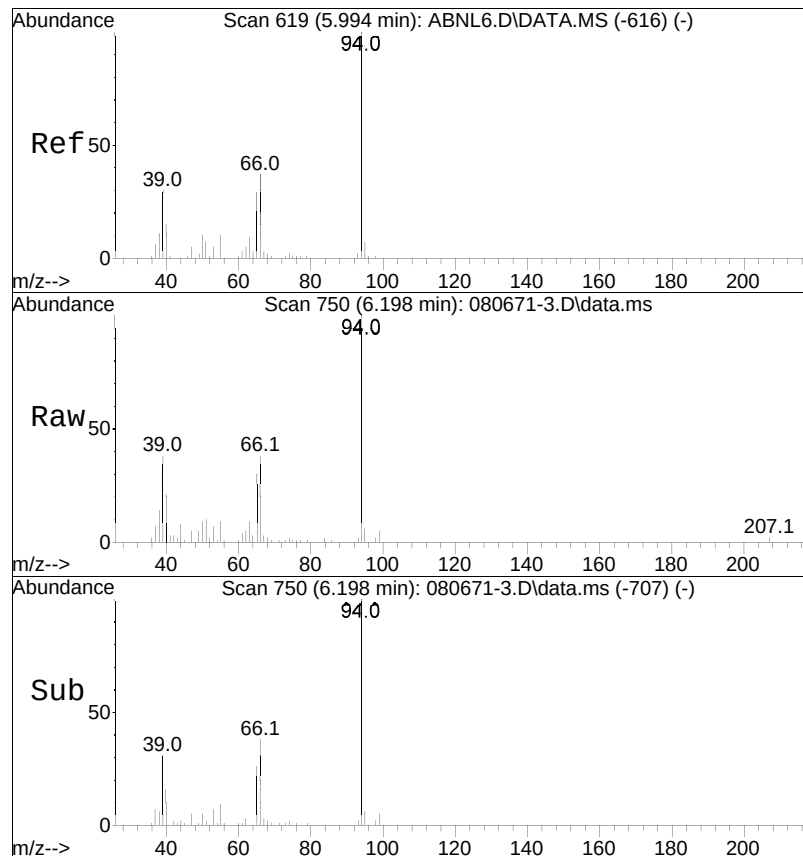




#6
 2-Chlorophenol
 Concen: 1.05 ug/ml
 RT: 6.292 min Scan# 766
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

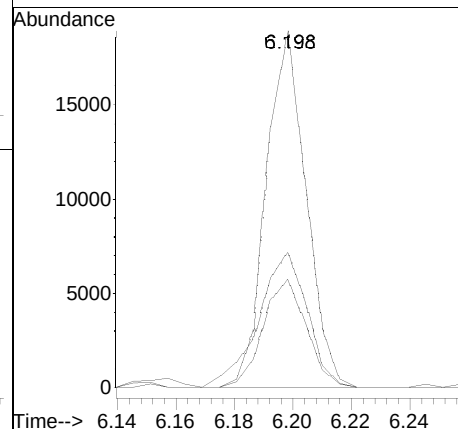
Tgt Ion:	128	Resp:	22276
Ion Ratio	Lower	Upper	
128	100		
64	57.3	45.1	67.7
130	32.3	26.2	39.4

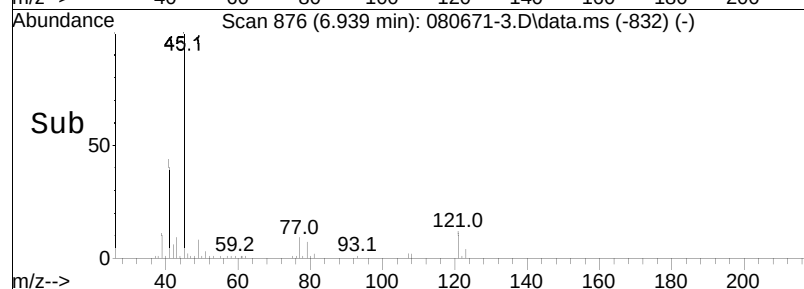
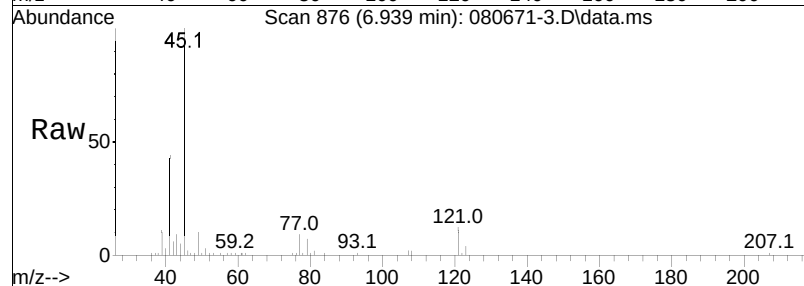
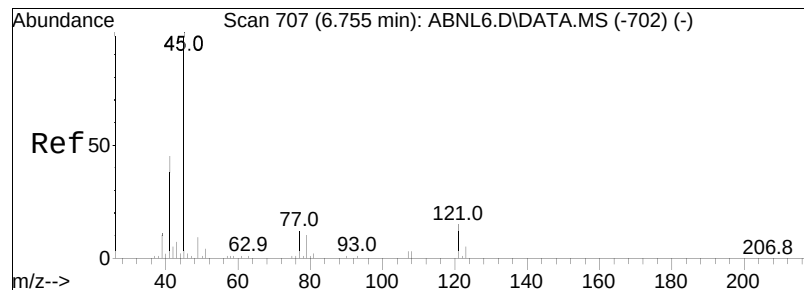




#8
 Phenol
 Concen: 0.70 ug/ml
 RT: 6.198 min Scan# 750
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

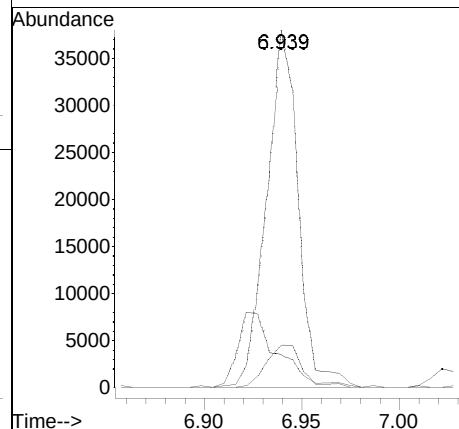
Tgt Ion	Ratio	Lower	Upper
94	100		
65	33.2	26.0	39.0
66	46.5	33.8	50.8

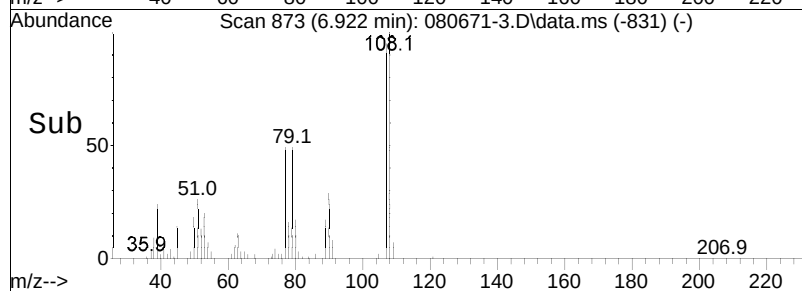
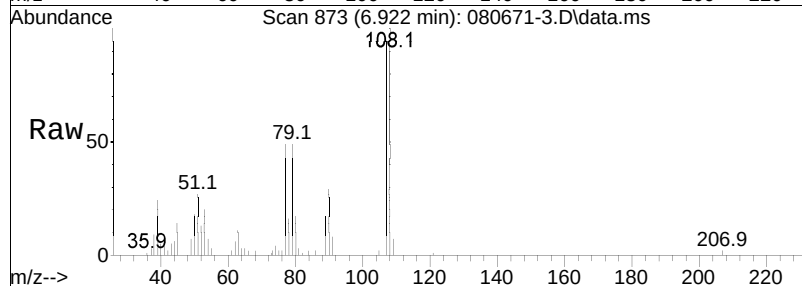
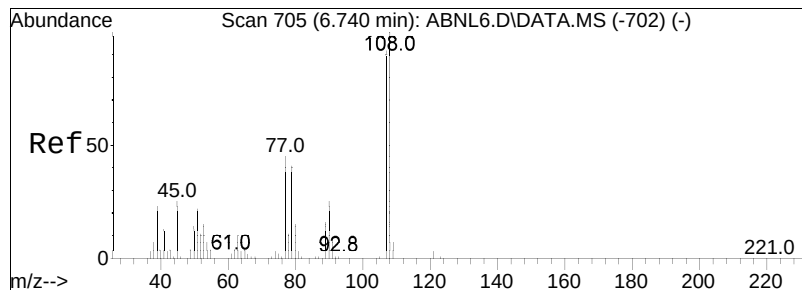




#14
 Bis(2-chloroisopropyl)ether
 Concen: 0.90 ug/ml
 RT: 6.939 min Scan# 876
 Delta R.T. 0.006 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

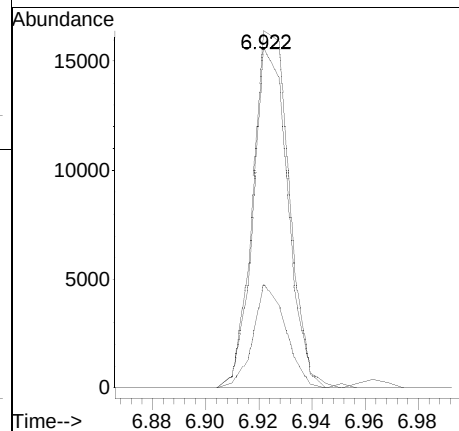
Tgt Ion:	45	Resp:	42459
Ion Ratio	100	Lower	Upper
121	13.5	9.8	14.6
77	27.1	6.1	9.1#

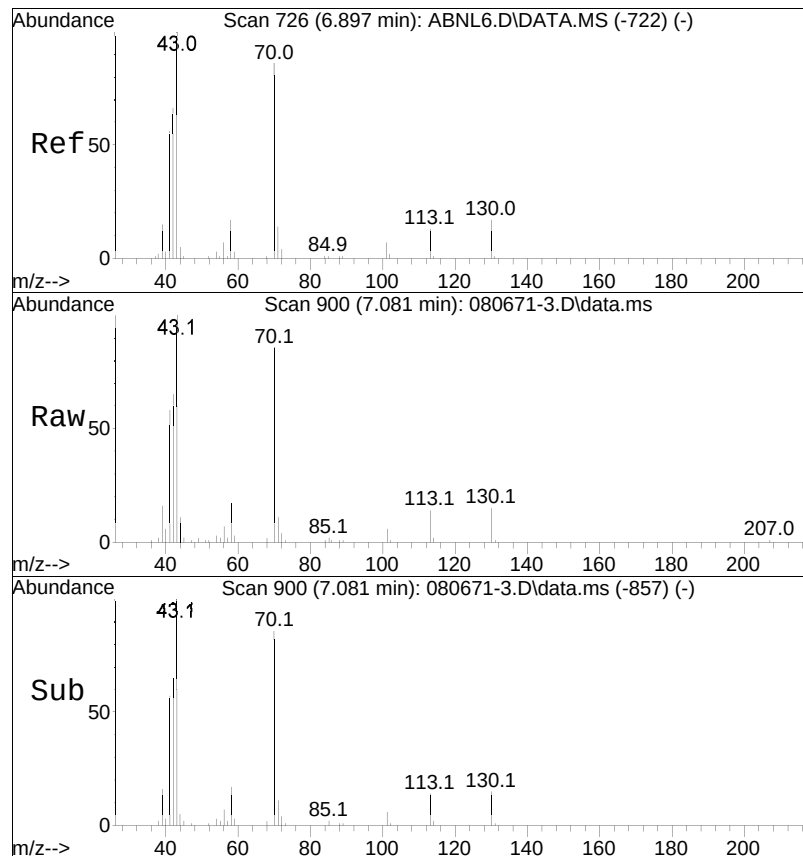




#15
 2-Methylphenol
 Concen: 0.70 ug/ml
 RT: 6.922 min Scan# 873
 Delta R.T. -0.006 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

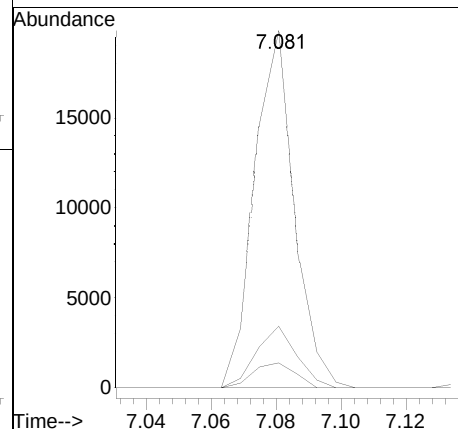
Tgt	Ion	Ratio	Resp	Lower	Upper
108	108	100	15626		
107	90.8	70.7	106.1		
90	26.0	18.7	28.1		

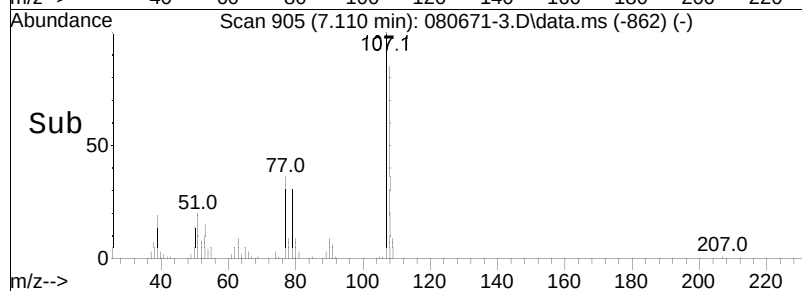
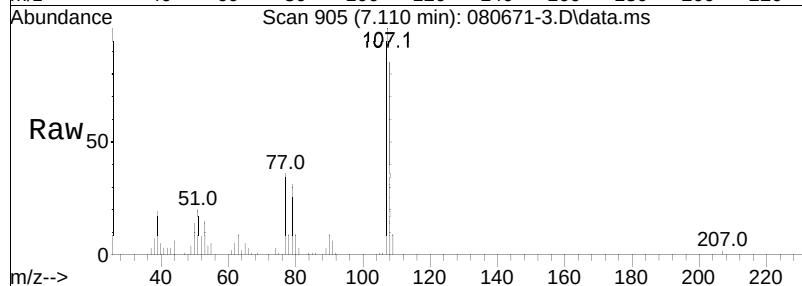
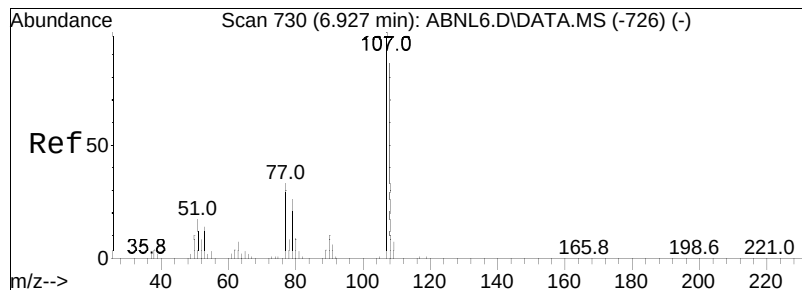




#17
 n-Nitrosodi-n-propylamine
 Concen: 1.13 ug/ml
 RT: 7.081 min Scan# 900
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

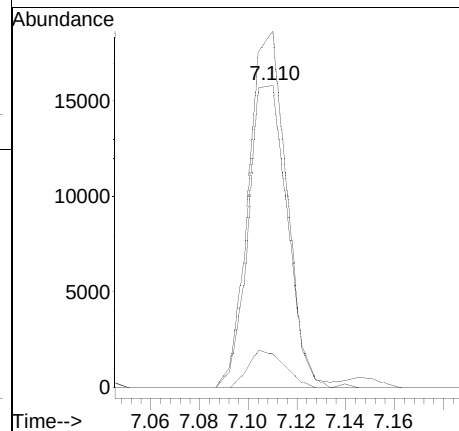
Tgt Ion:	70	Resp:	16835
Ion Ratio	Lower	Upper	
70	100		
130	17.4	18.2	27.4#
101	7.4	7.8	11.8#

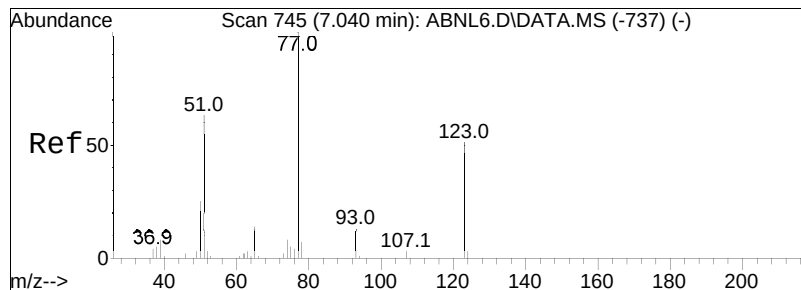




#18
 3-Methylphenol/4-Methylphenol
 Concen: 0.91 ug/ml
 RT: 7.110 min Scan# 905
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

Tgt Ion	Ratio	Resp	Lower	Upper
108	100	17586		
107	114.8		88.6	132.8
90	11.7		8.8	13.2





#20

Nitrobenzene

Concen: 1.09 ug/ml

RT: 7.222 min Scan# 924

Delta R.T. -0.006 min

Lab File: 080671-3.D

Acq: 19 Jun 2025 10:20 am

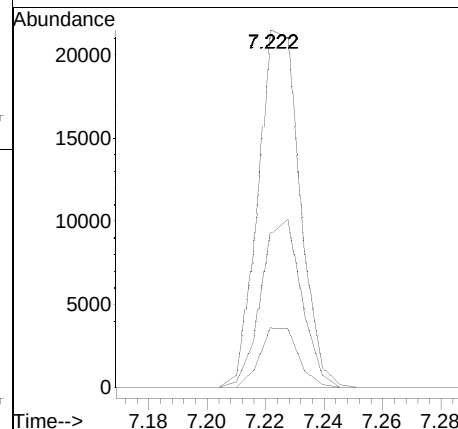
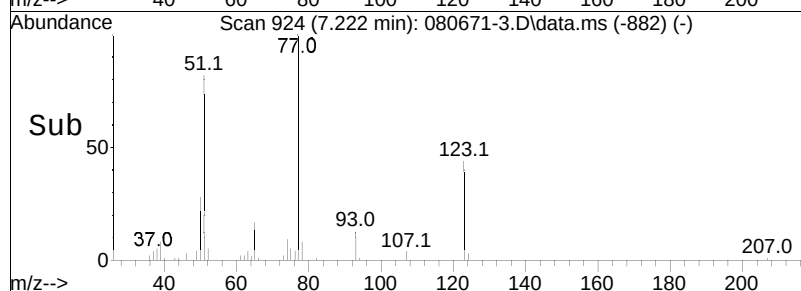
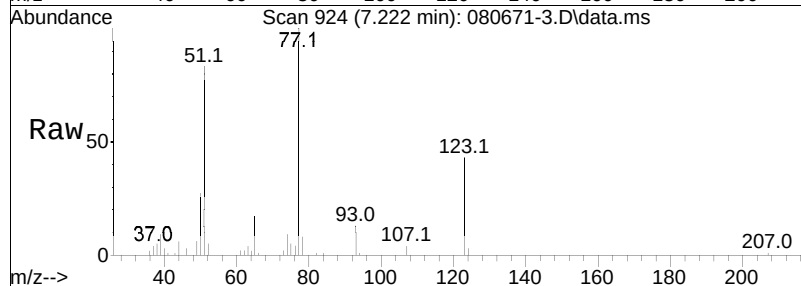
Tgt Ion: 77 Resp: 21210

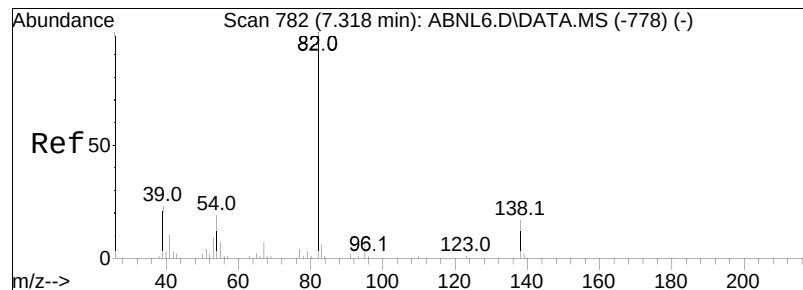
Ion Ratio Lower Upper

77 100

123 45.8 36.3 54.5

65 15.5 11.6 17.4





#21

Isophorone

Concen: 1.10 ug/ml

RT: 7.504 min Scan# 972

Delta R.T. 0.000 min

Lab File: 080671-3.D

Acq: 19 Jun 2025 10:20 am

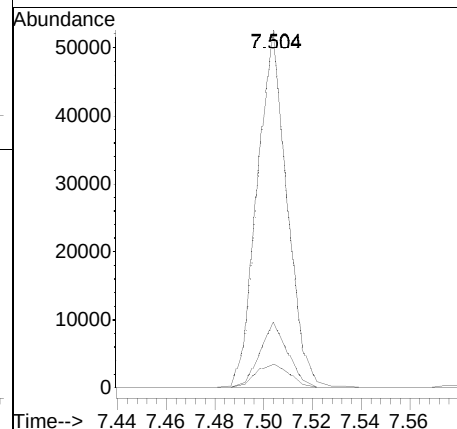
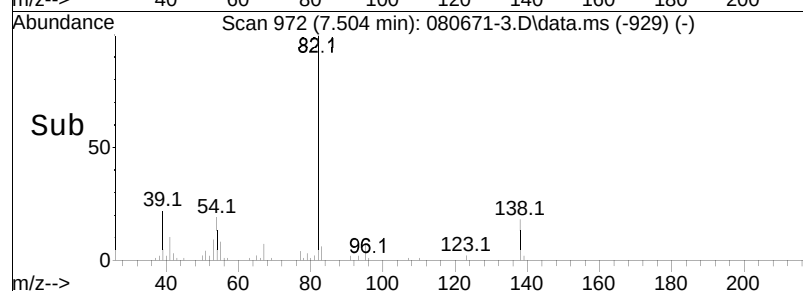
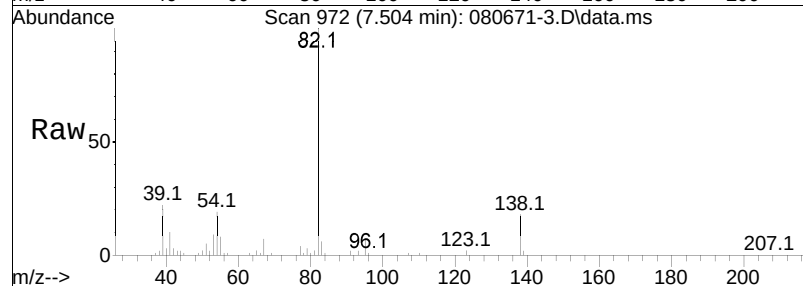
Tgt Ion: 82 Resp: 44176

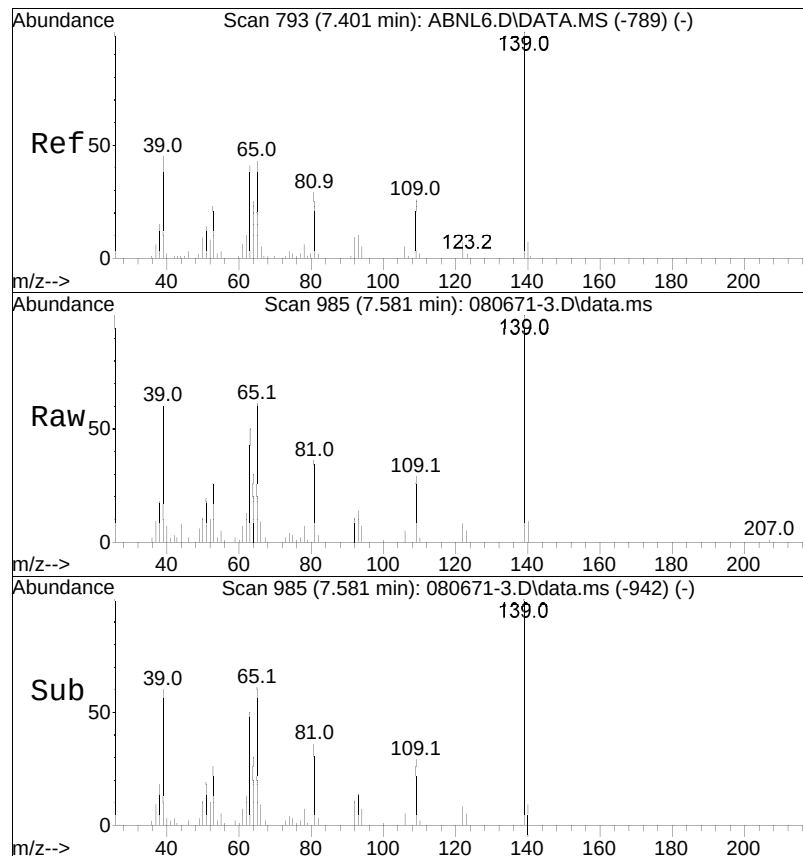
Ion Ratio Lower Upper

82 100

138 17.2 14.7 22.1

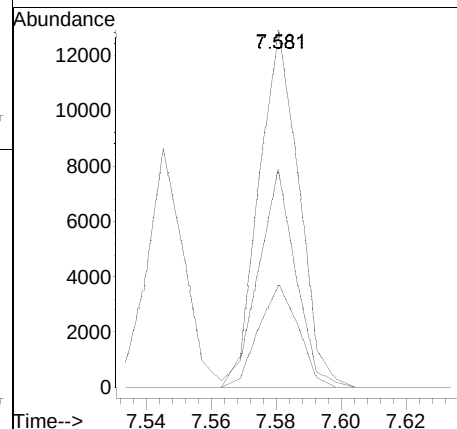
95 7.5 5.2 7.8

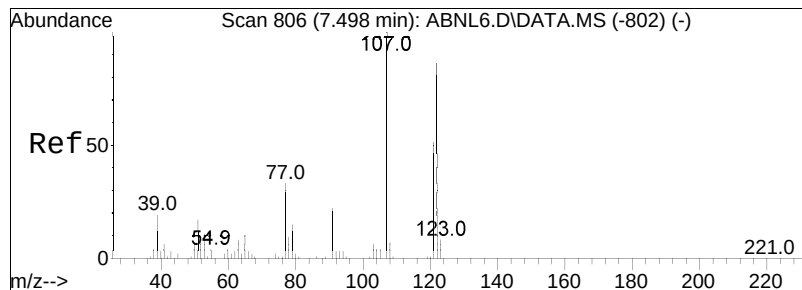




#22
 2-Nitrophenol
 Concen: 1.24 ug/ml
 RT: 7.581 min Scan# 985
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

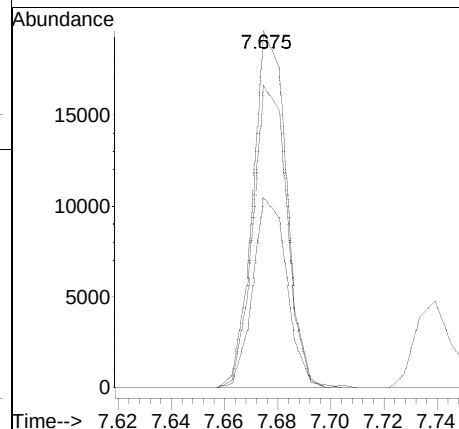
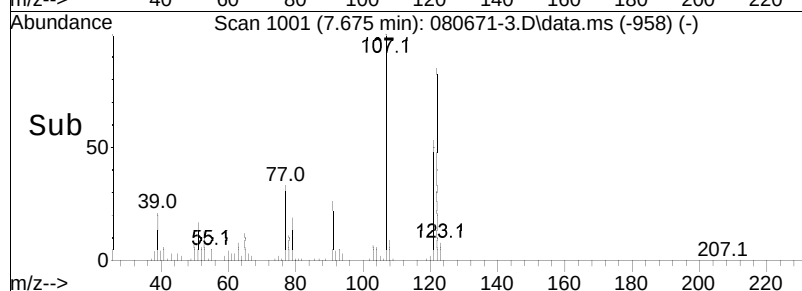
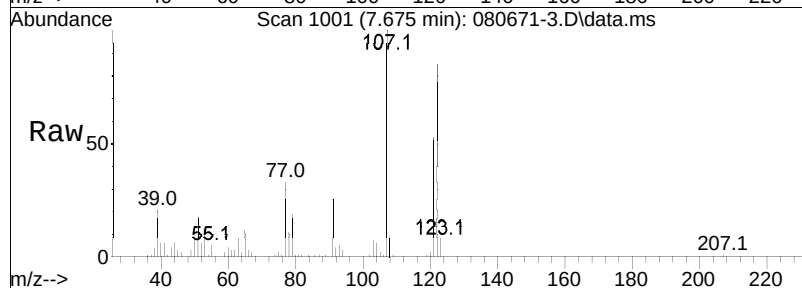
Tgt Ion	Ratio	Resp	Lower	Upper
139	100	10998		
109	28.6		19.4	29.0
65	56.9		46.1	69.1

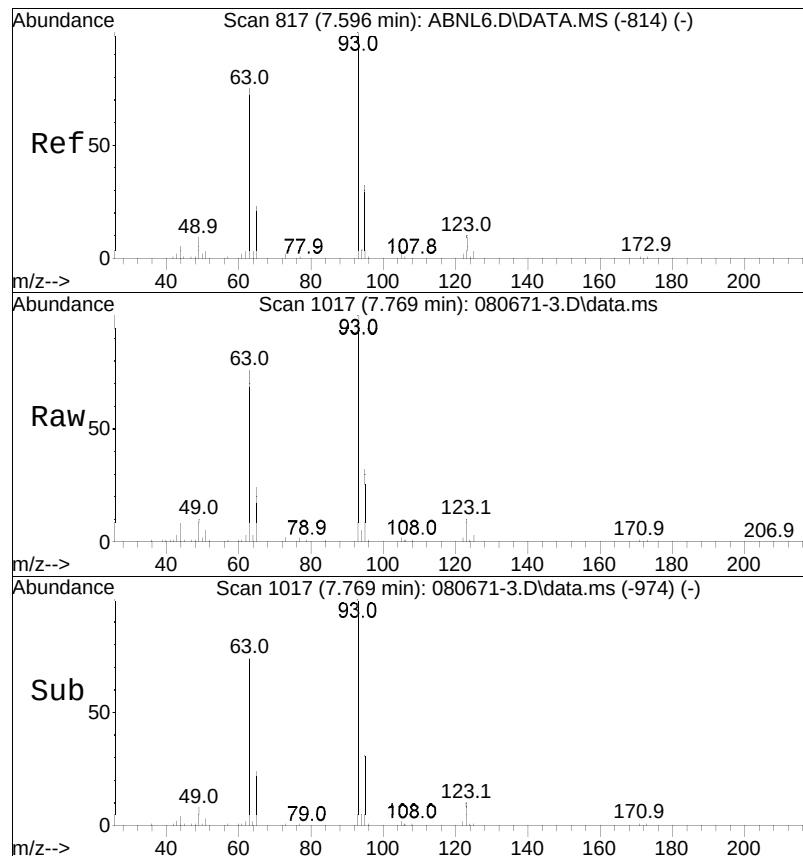




#23
 2,4-Dimethylphenol
 Concen: 0.82 ug/ml
 RT: 7.675 min Scan# 1001
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

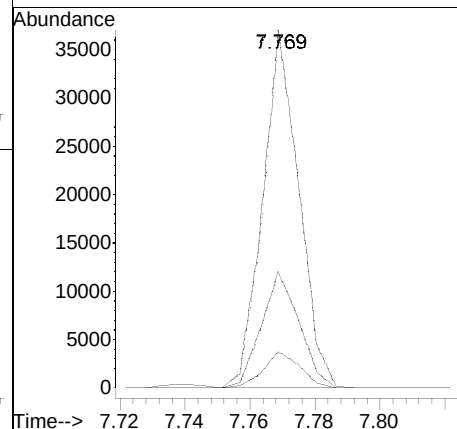
Tgt Ion	Ratio	Lower	Upper
107	100		
121	53.9	40.0	60.0
122	85.7	70.2	105.4

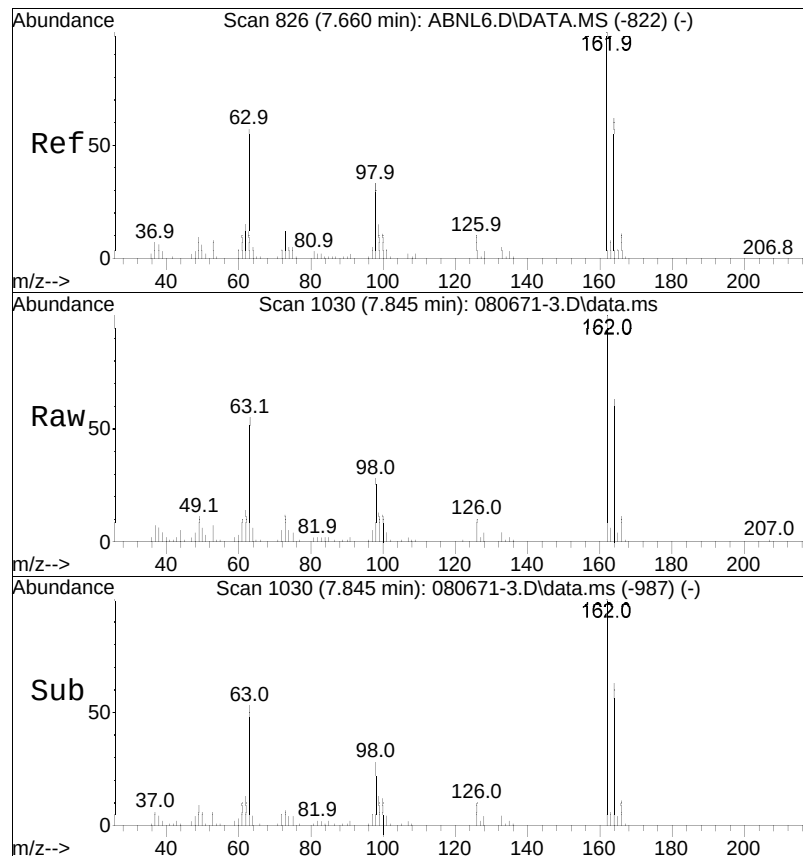




#24
 Bis(2-chloroethoxy)methane
 Concen: 0.98 ug/ml
 RT: 7.769 min Scan# 1017
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

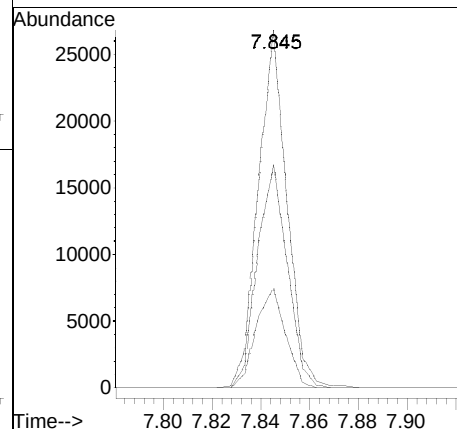
Tgt Ion:	93	Resp:	28132
Ion Ratio	Lower	Upper	
93	100		
95	34.0	25.8	38.8
123	10.4	10.1	15.1

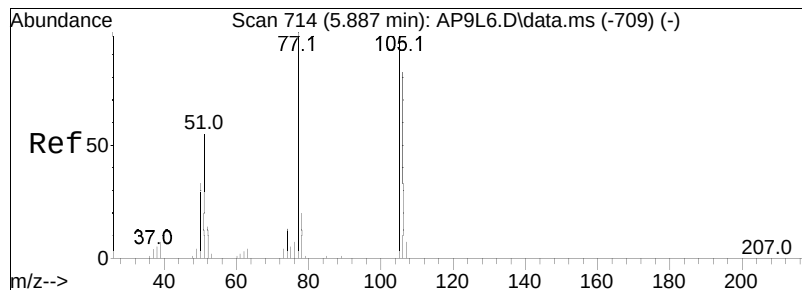




#25
 2,4-Dichlorophenol
 Concen: 1.09 ug/ml
 RT: 7.845 min Scan# 1030
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

Tgt Ion:	162	Resp:	21702
Ion Ratio	Lower	Upper	
162	100		
164	65.1	51.0	76.4
98	28.9	32.2	48.2#





#28

Benzaldehyde

Concen: 1.23 ug/ml

RT: 5.987 min Scan# 714

Delta R.T. -0.000 min

Lab File: 080671-3.D

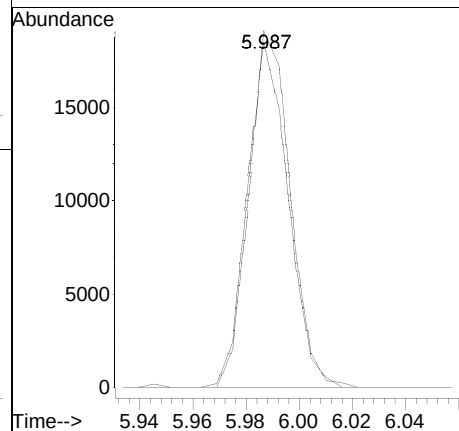
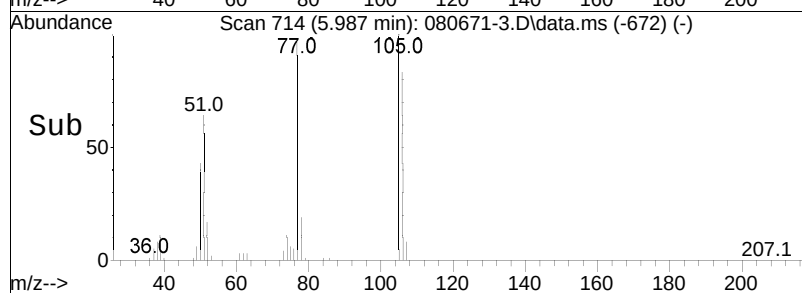
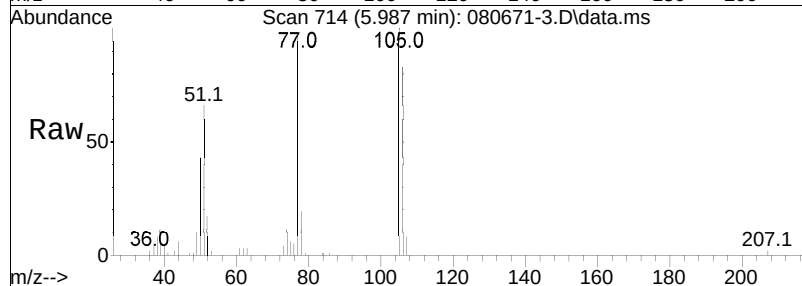
Acq: 19 Jun 2025 10:20 am

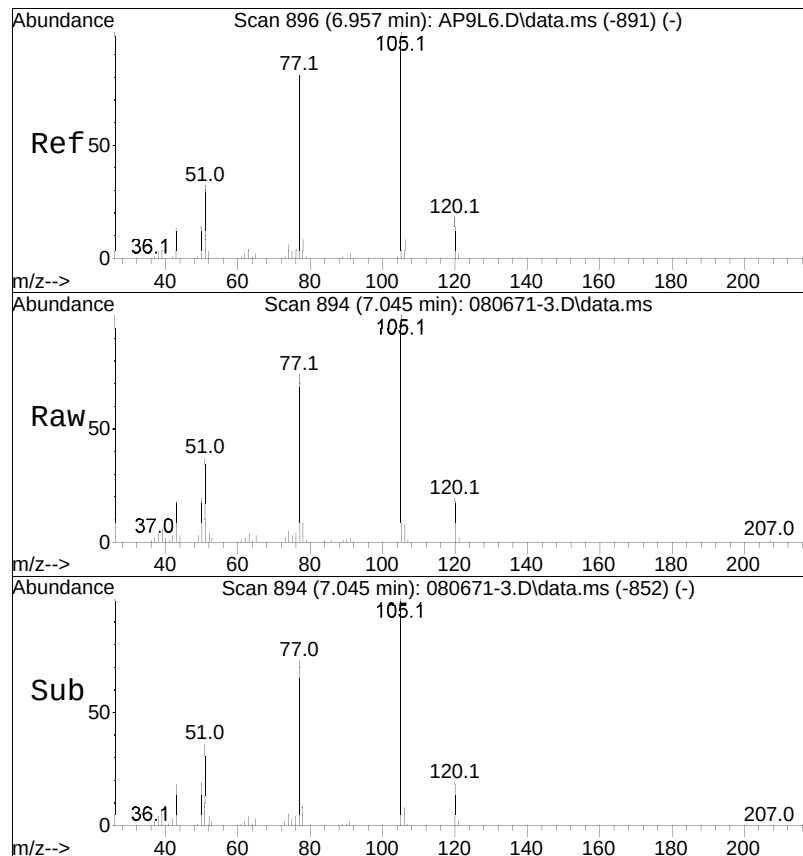
Tgt Ion:105 Resp: 20525

Ion Ratio Lower Upper

105 100

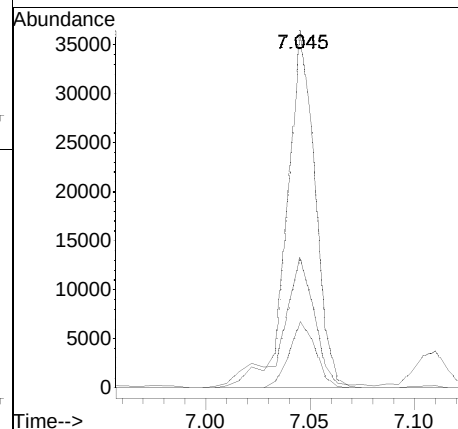
77 96.0 82.2 123.4

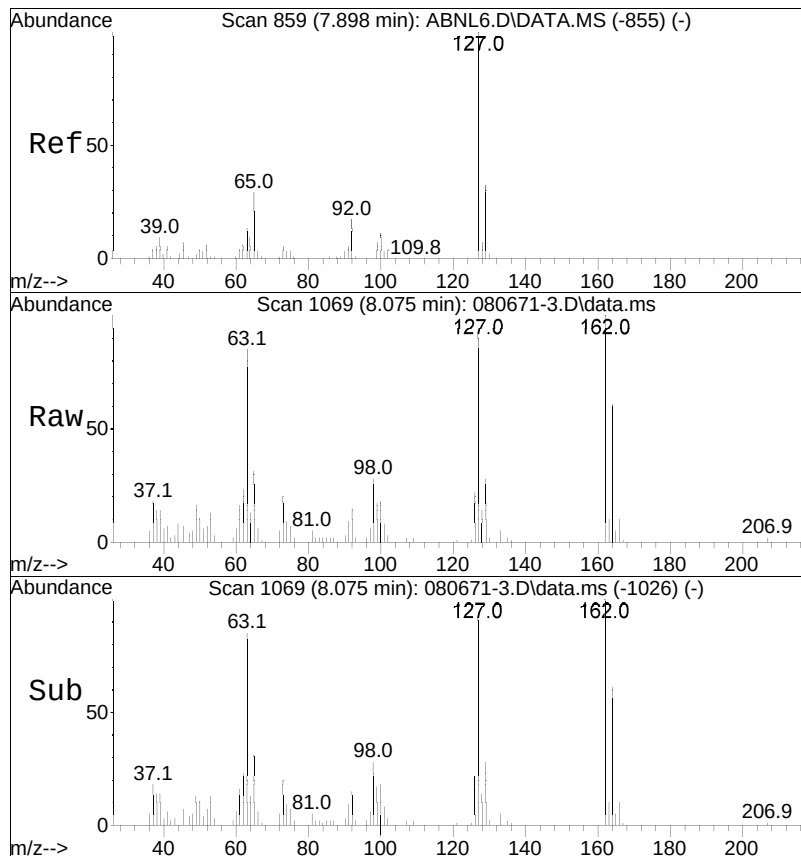




#29
 Acetophenone
 Concen: 1.18 ug/ml
 RT: 7.045 min Scan# 894
 Delta R.T. -0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

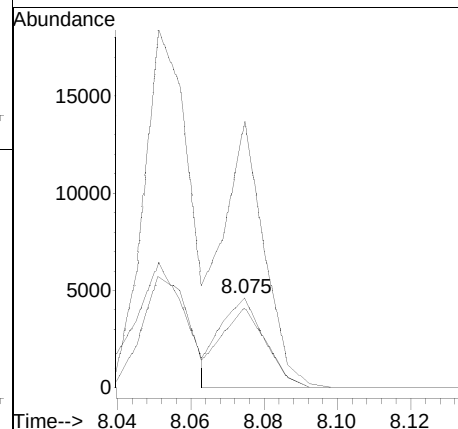
Tgt Ion:	105	Resp:	33912
Ion Ratio	Lower	Upper	
105	100		
120	17.3	20.5	30.7#
51	43.9	34.9	52.3

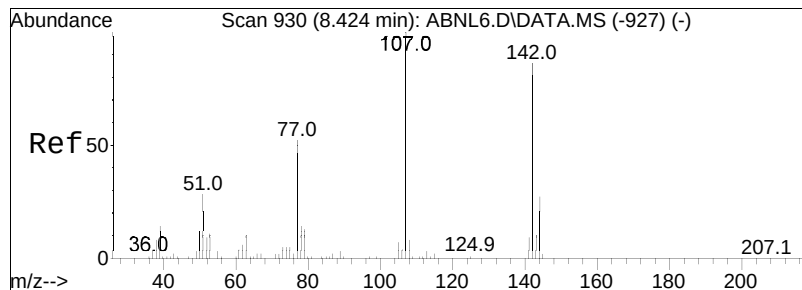




#38
 4-Chloroaniline
 Concen: 0.49 ug/ml M3
 RT: 8.075 min Scan# 1069
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

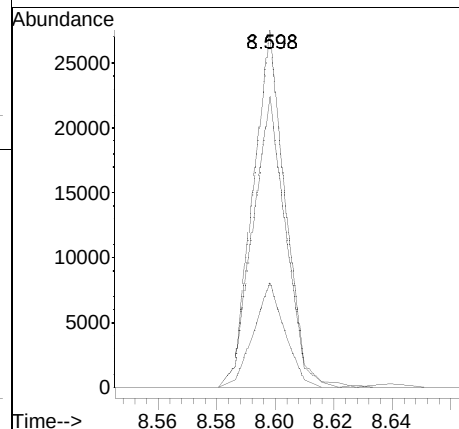
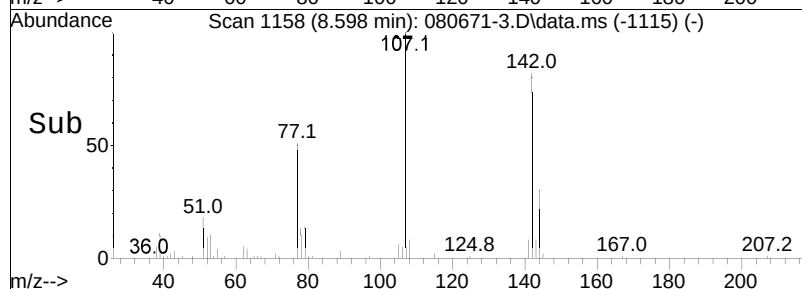
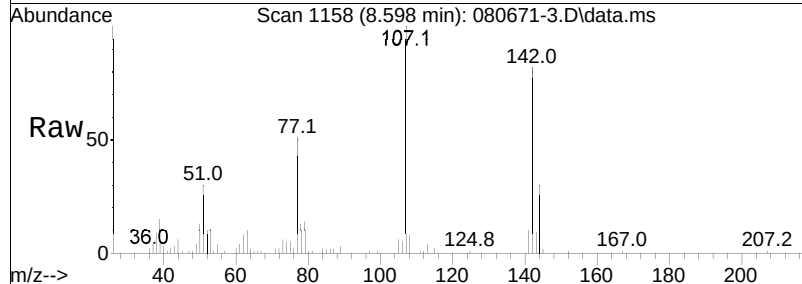
Tgt Ion:	65	Resp:	3805
Ion Ratio	Lower	Upper	
65	100		
127	422.9	237.6	356.4#
129	135.2	76.3	114.5#

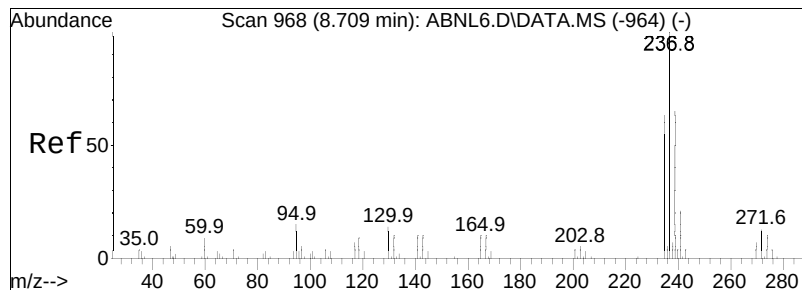




#40
 p-Chloro-m-cresol
 Concen: 1.09 ug/ml
 RT: 8.598 min Scan# 1158
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

Tgt Ion:	107	Resp:	20945
Ion Ratio	Lower	Upper	
107	100		
144	28.6	20.9	31.3
142	83.3	66.1	99.1





#43

Hexachlorocyclopentadiene

Concen: 0.82 ug/ml

RT: 8.886 min Scan# 1207

Delta R.T. 0.000 min

Lab File: 080671-3.D

Acq: 19 Jun 2025 10:20 am

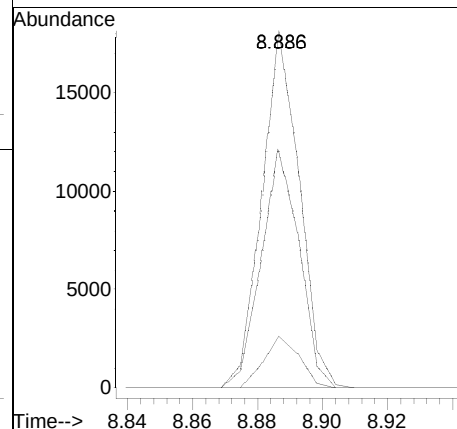
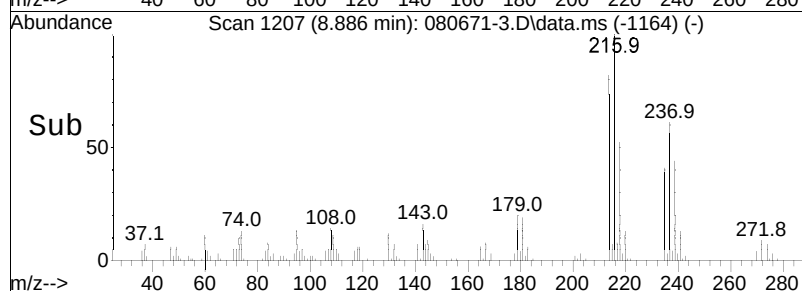
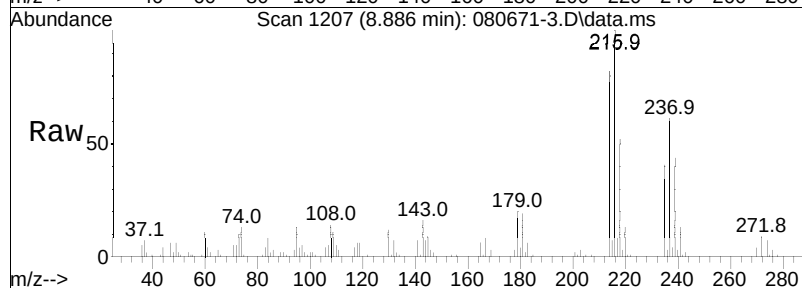
Tgt Ion: 237 Resp: 14477

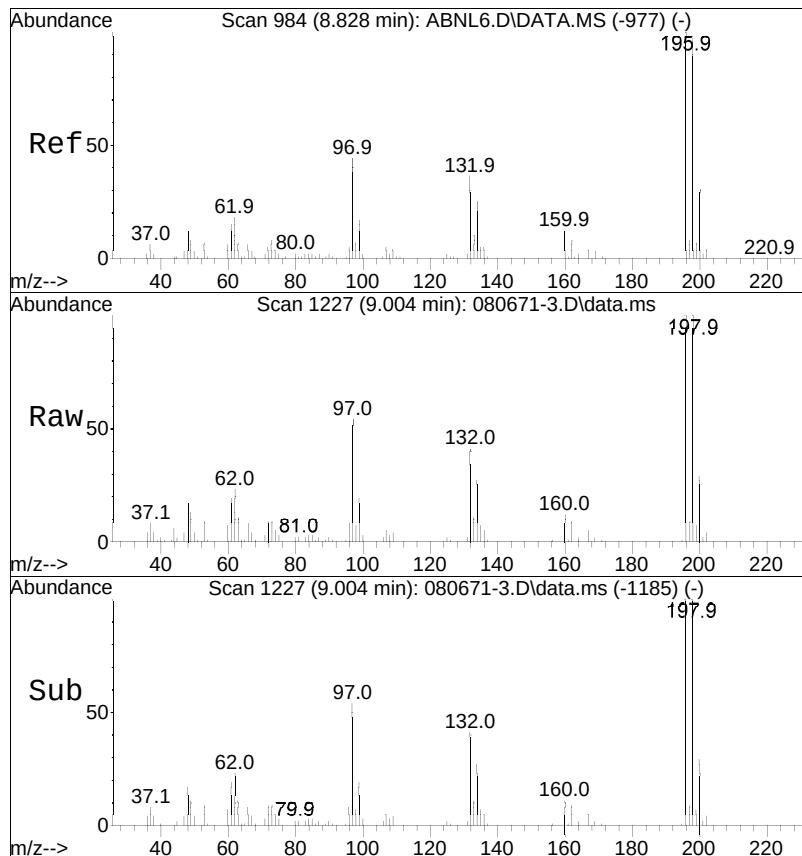
Ion Ratio Lower Upper

237 100

235 67.9 49.7 74.5

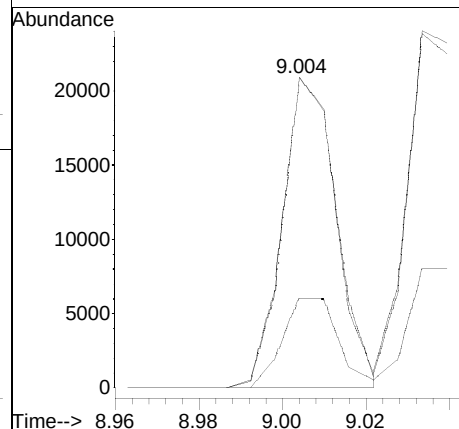
272 13.7 9.8 14.6

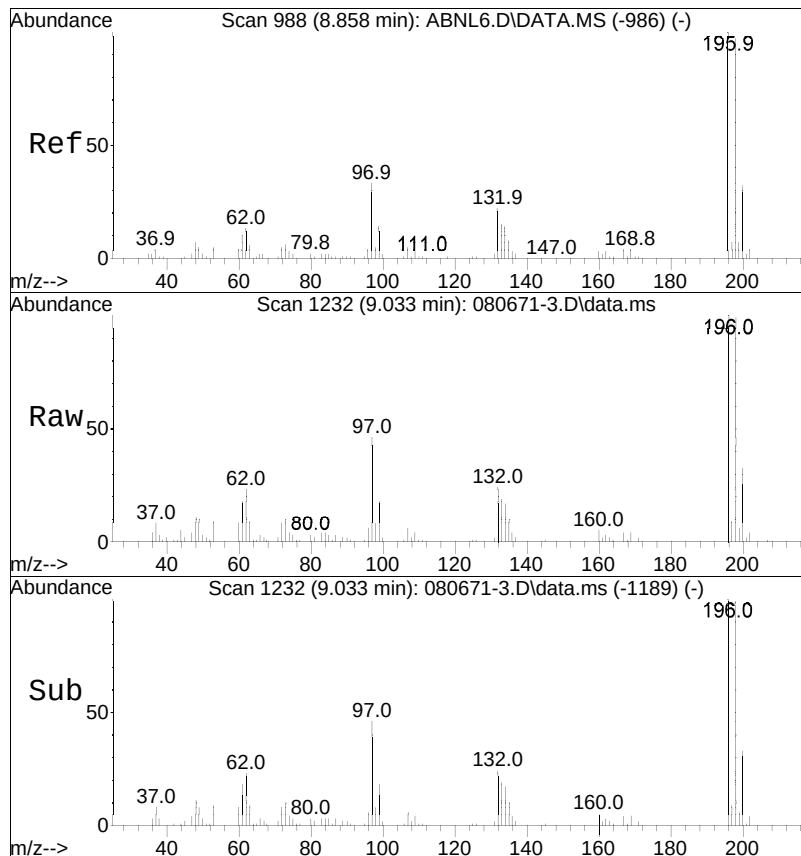




#44
 2,4,6-Trichlorophenol
 Concen: 1.25 ug/ml
 RT: 9.004 min Scan# 1227
 Delta R.T. -0.006 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

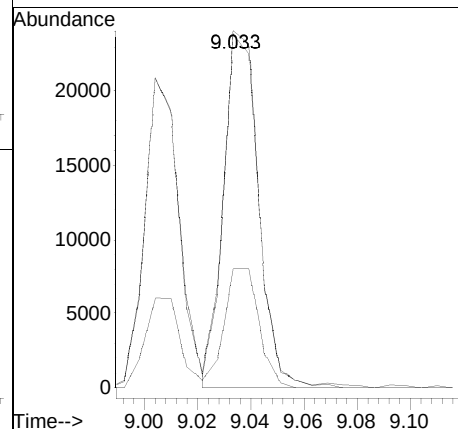
Tgt Ion:	196	Resp:	18536
Ion Ratio	Lower	Upper	
196	100		
198	101.3	77.5	116.3
200	30.3	23.8	35.6

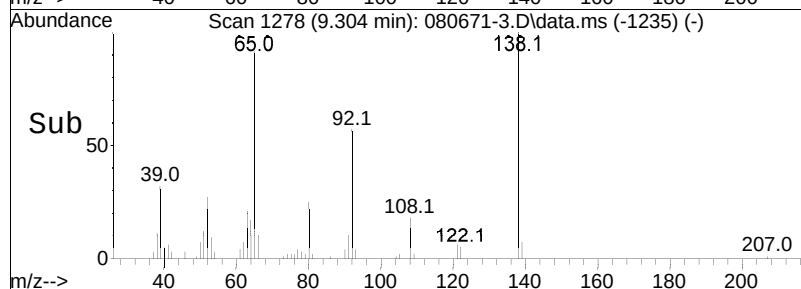
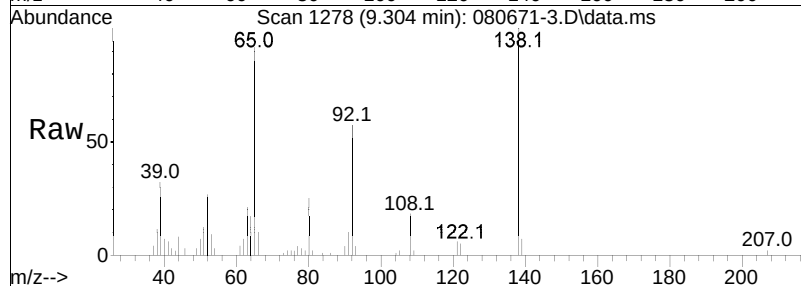
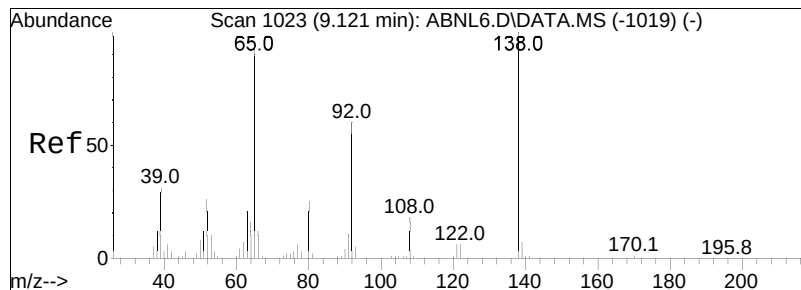




#45
 2,4,5-Trichlorophenol
 Concen: 1.48 ug/ml
 RT: 9.033 min Scan# 1232
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

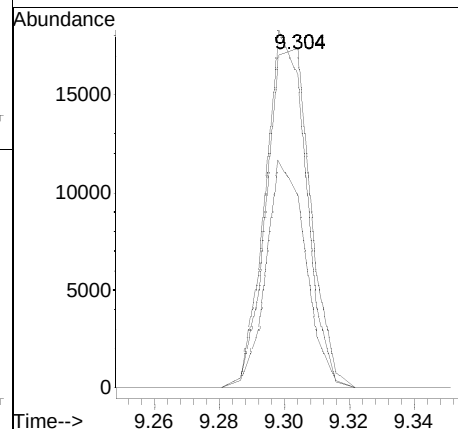
Tgt Ion:	196	Resp:	22316
Ion Ratio	Lower	Upper	
196	100		
200	32.5	25.4	38.0
198	97.5	78.0	117.0

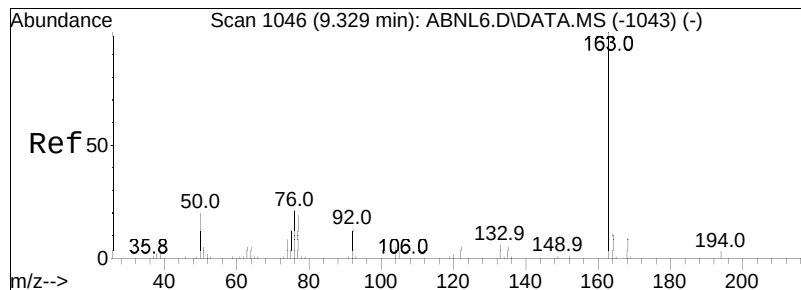




#48
 2-Nitroaniline
 Concen: 1.66 ug/ml
 RT: 9.304 min Scan# 1278
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

Tgt Ion	Ratio	Resp	Lower	Upper
138	100	16286		
92	60.3		53.5	80.3
65	97.4		86.3	129.5





#51

Dimethyl phthalate

Concen: 1.43 ug/ml

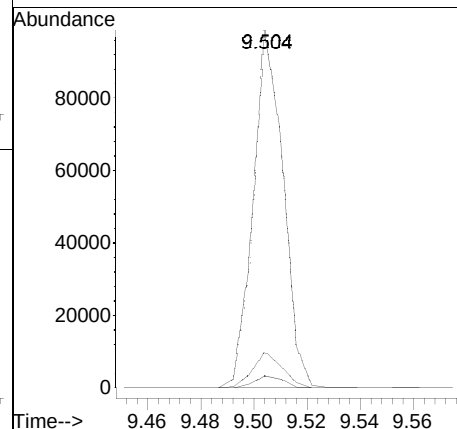
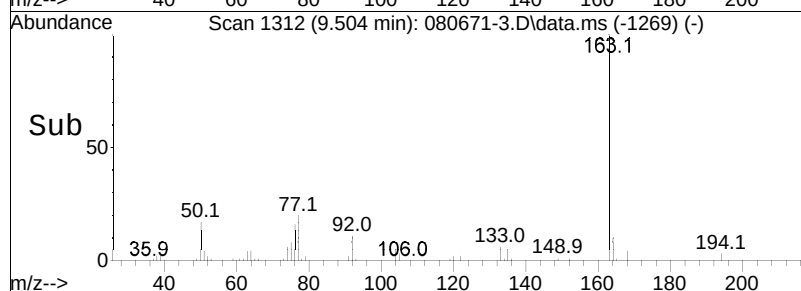
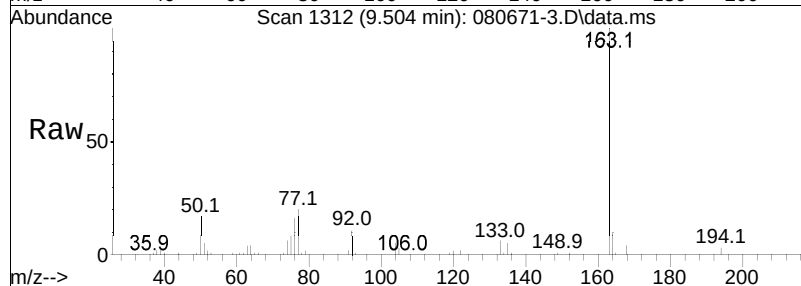
RT: 9.504 min Scan# 1312

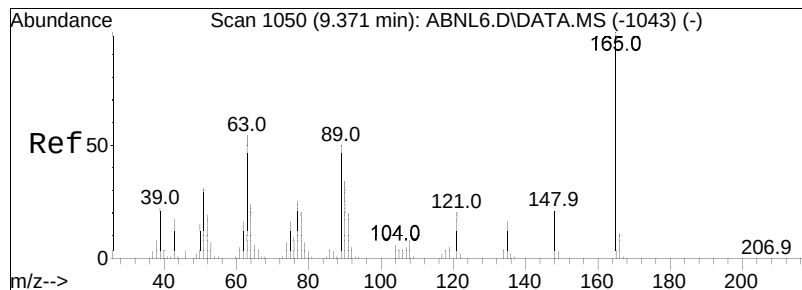
Delta R.T. 0.000 min

Lab File: 080671-3.D

Acq: 19 Jun 2025 10:20 am

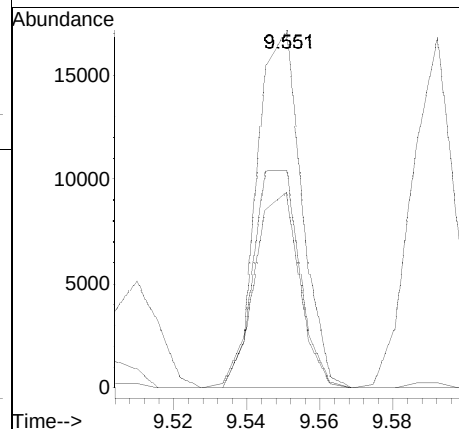
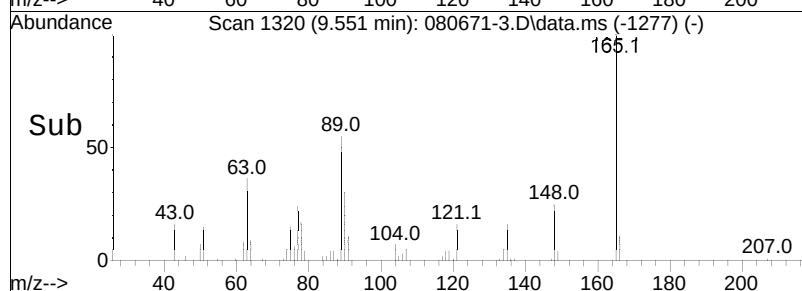
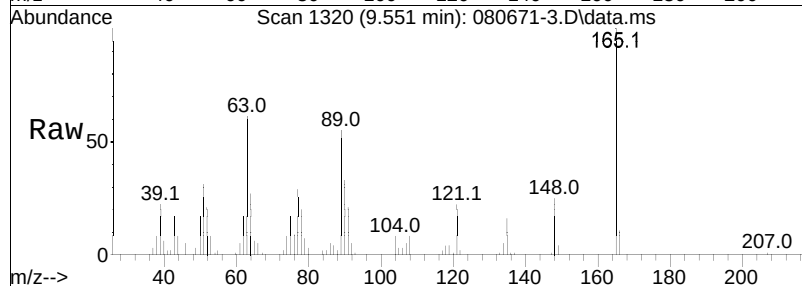
Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.0	7.9	11.9

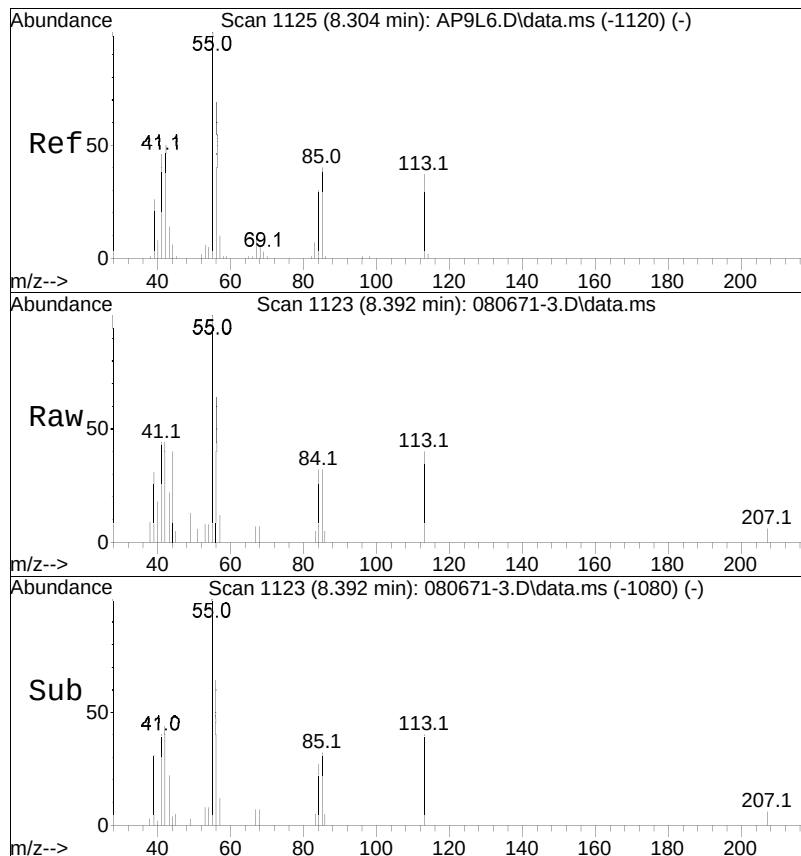




#53
 2,6-Dinitrotoluene
 Concen: 1.65 ug/ml
 RT: 9.551 min Scan# 1320
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

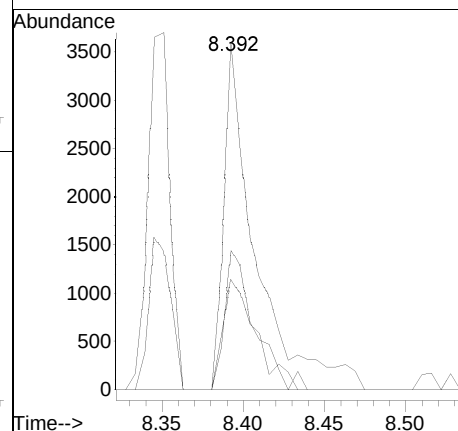
Tgt Ion	Ratio	Resp	Lower	Upper
165	100	14638		
89	54.3		54.2	81.2
63	62.5		64.2	96.2#

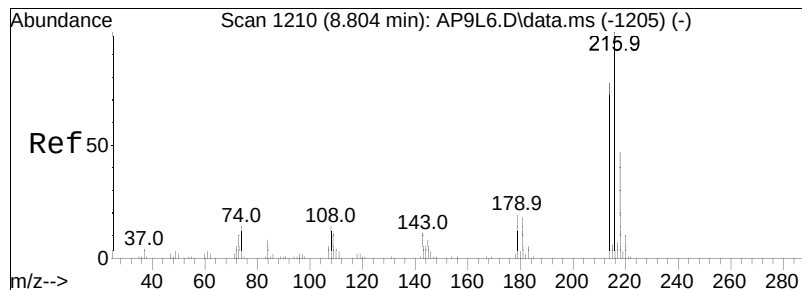




#60
 Caprolactam
 Concen: 0.50 ug/ml
 RT: 8.392 min Scan# 1123
 Delta R.T. 0.006 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

Tgt Ion:	55	Resp:	4890
Ion Ratio	Lower	Upper	
55	100		
85	32.8	19.8	29.6#
113	37.7	29.6	44.4





#61

1,2,4,5-Tetrachlorobenzene

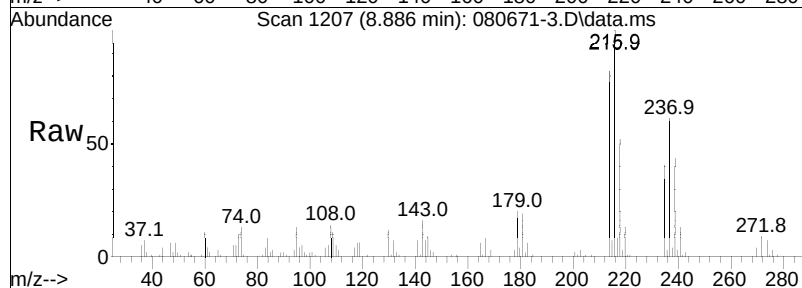
Concen: 1.12 ug/ml

RT: 8.886 min Scan# 1207

Delta R.T. -0.000 min

Lab File: 080671-3.D

Acq: 19 Jun 2025 10:20 am



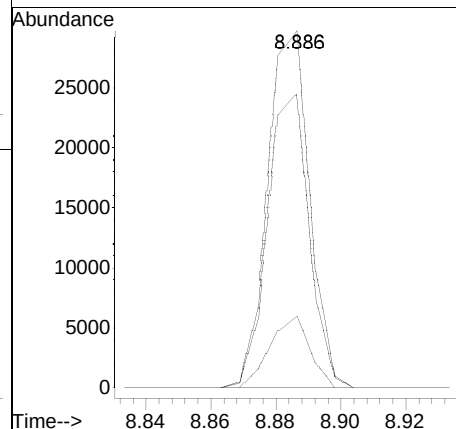
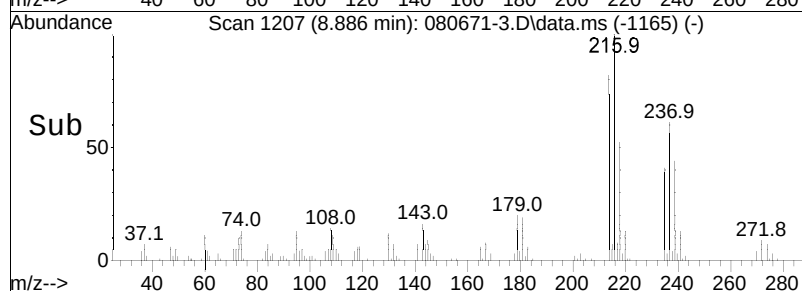
Tgt Ion: 216 Resp: 26593

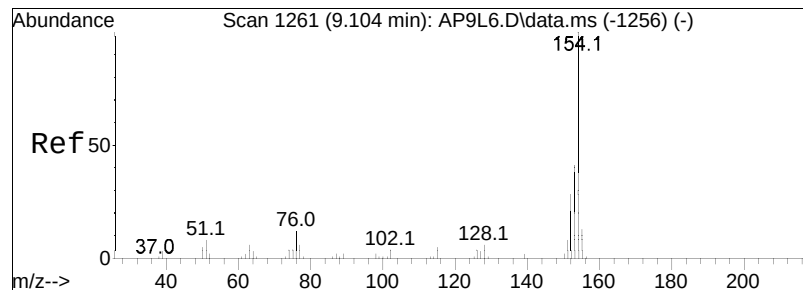
Ion Ratio Lower Upper

216 100

214 81.6 63.7 95.5

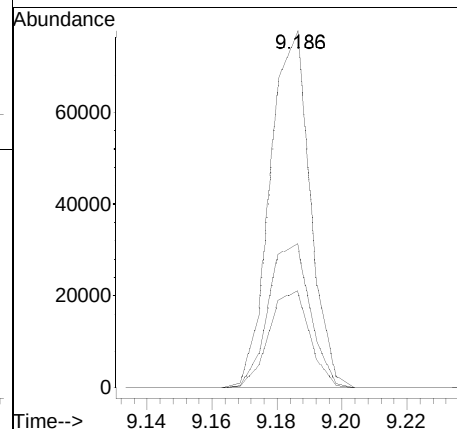
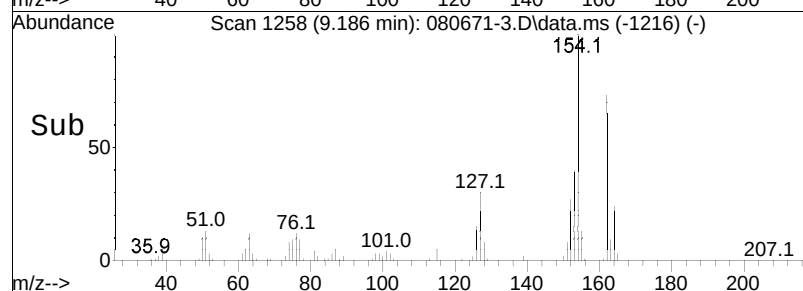
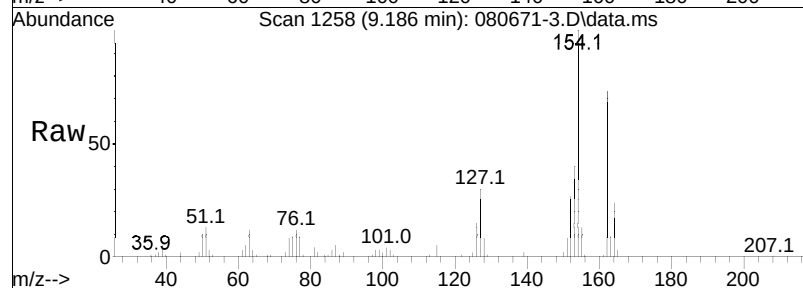
179 19.1 19.0 28.6

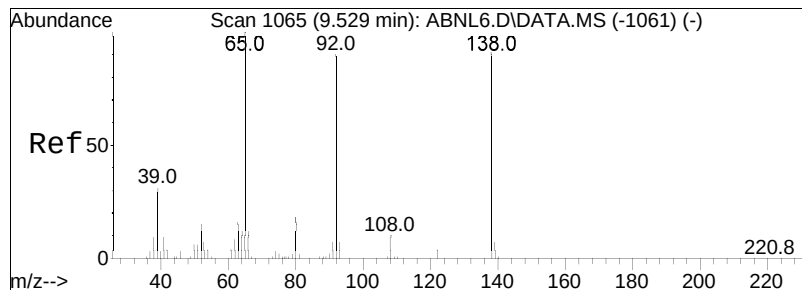




#62
 Biphenyl
 Concen: 1.27 ug/ml
 RT: 9.186 min Scan# 1258
 Delta R.T. -0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

Tgt Ion:	154	Resp:	66168
Ion Ratio	Lower	Upper	
154	100		
153	42.3	32.3	48.5
152	27.8	22.5	33.7





#64

3-Nitroaniline

Concen: 1.25 ug/ml

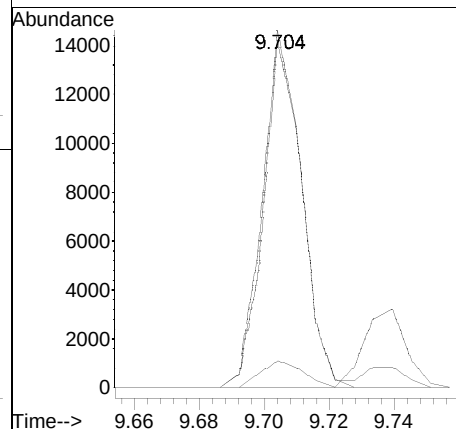
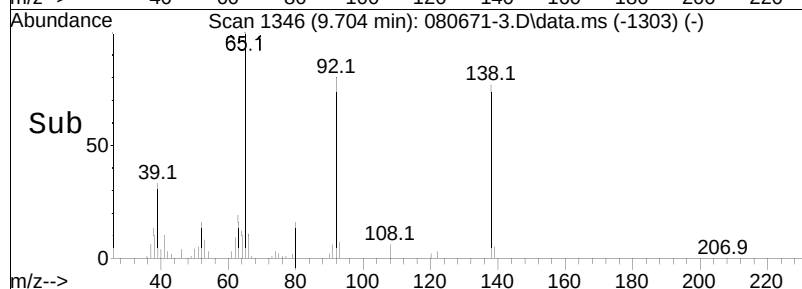
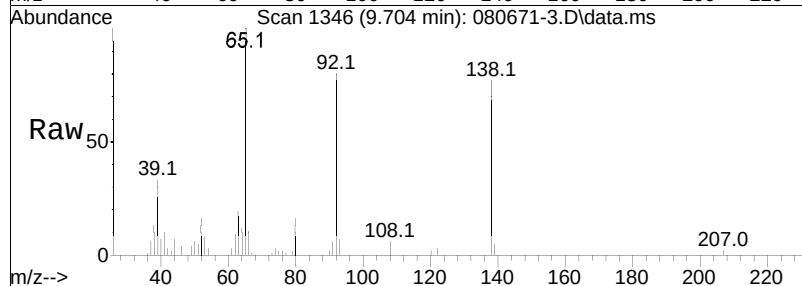
RT: 9.704 min Scan# 1346

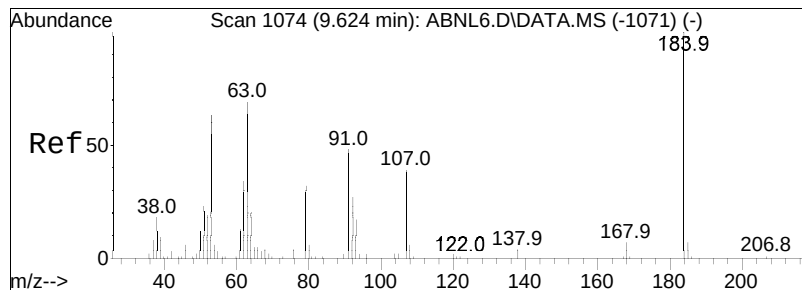
Delta R.T. 0.000 min

Lab File: 080671-3.D

Acq: 19 Jun 2025 10:20 am

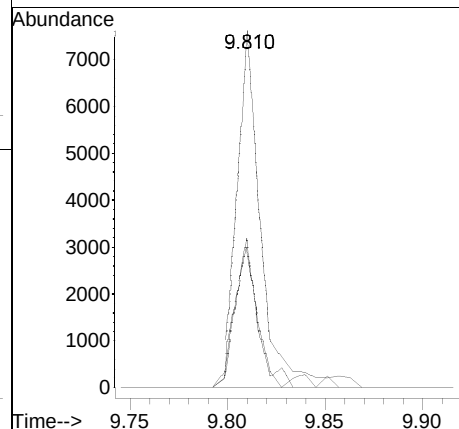
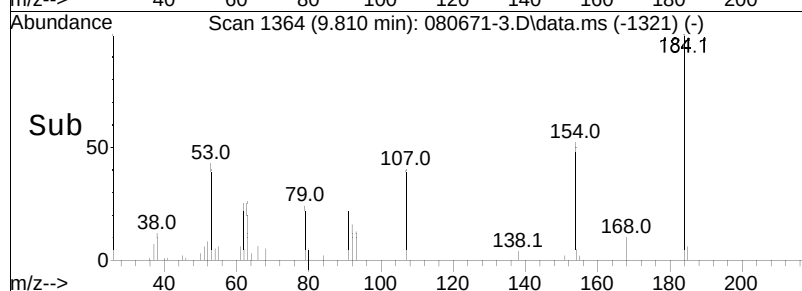
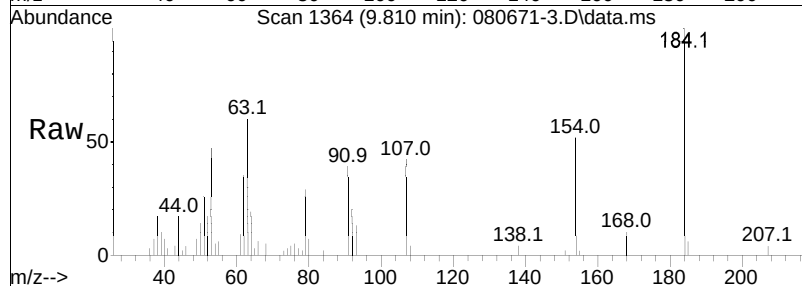
Tgt Ion:	138	Resp:	11566
Ion Ratio	Lower	Upper	
138	100		
92	105.3	93.4	140.2
108	8.5	9.5	14.3#

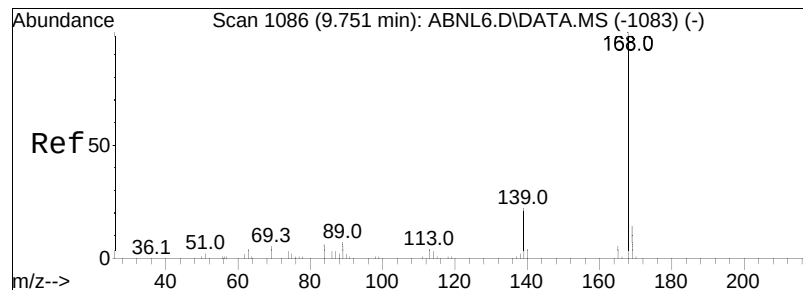




#66
 2,4-Dinitrophenol
 Concen: 1.47 ug/ml
 RT: 9.810 min Scan# 1364
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

Tgt Ion	Ratio	Lower	Upper
184	100		
107	37.8	37.7	56.5
91	37.2	46.3	69.5





#67

Dibenzofuran

Concen: 1.28 ug/ml

RT: 9.939 min Scan# 1386

Delta R.T. 0.000 min

Lab File: 080671-3.D

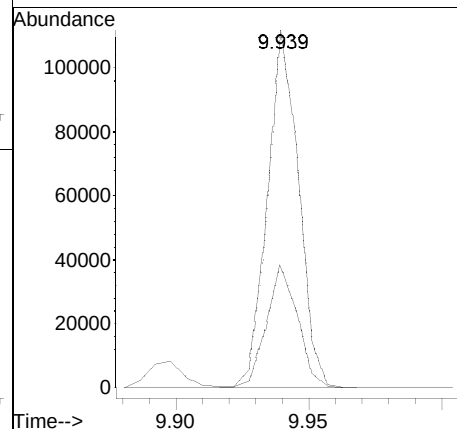
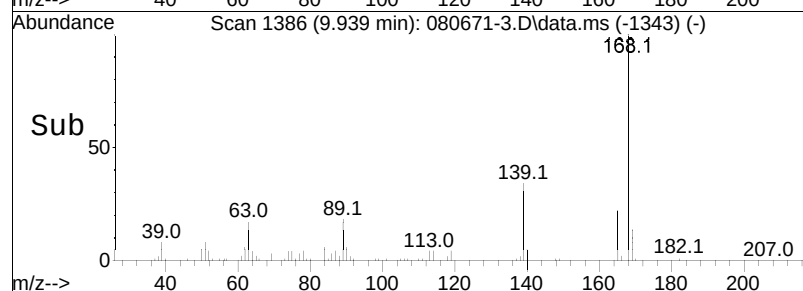
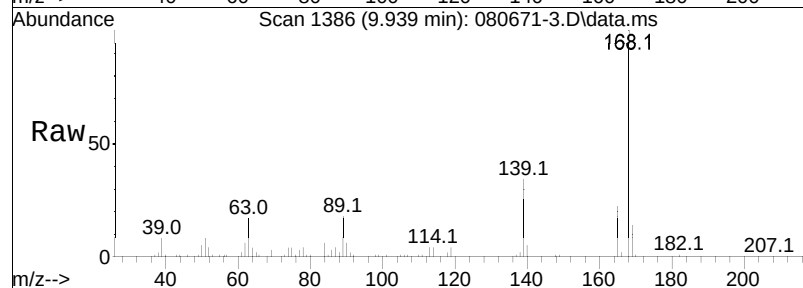
Acq: 19 Jun 2025 10:20 am

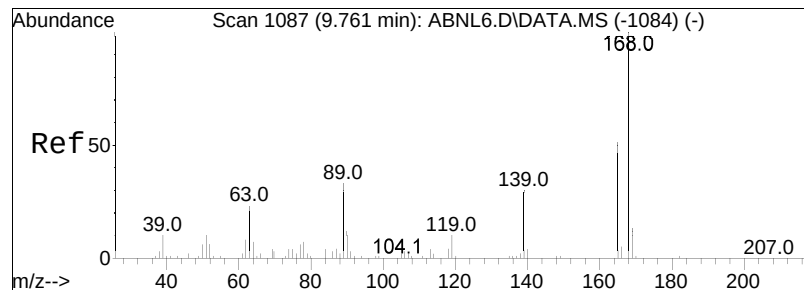
Tgt Ion:168 Resp: 90057

Ion Ratio Lower Upper

168 100

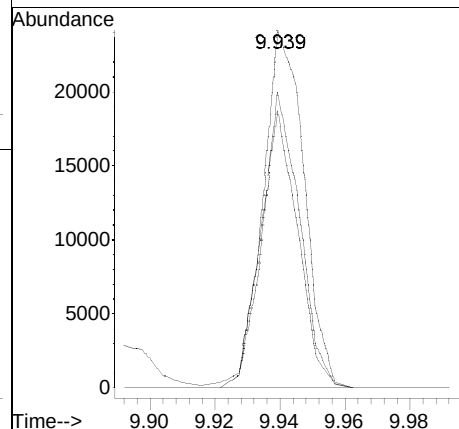
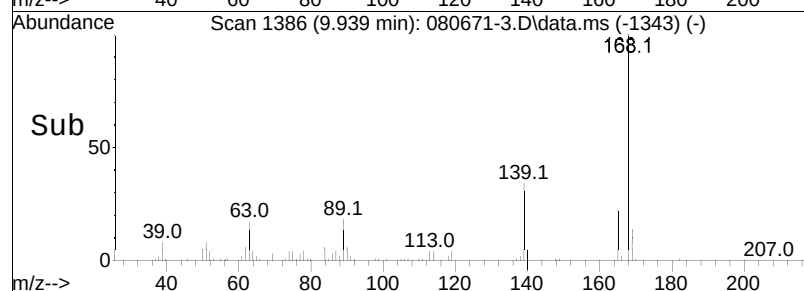
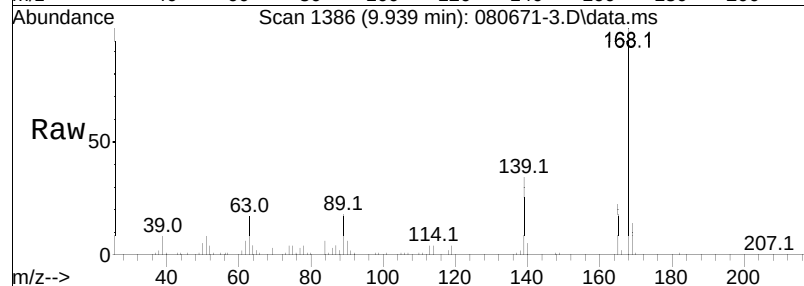
139 34.2 31.4 47.2

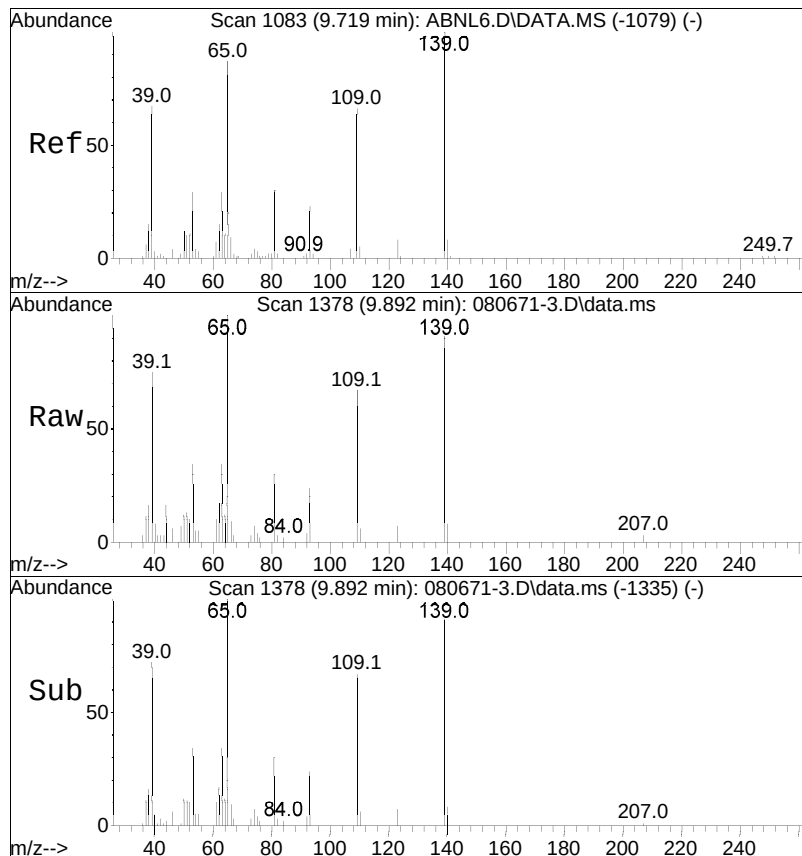




#68
 2,4-Dinitrotoluene
 Concen: 1.74 ug/ml
 RT: 9.939 min Scan# 1386
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

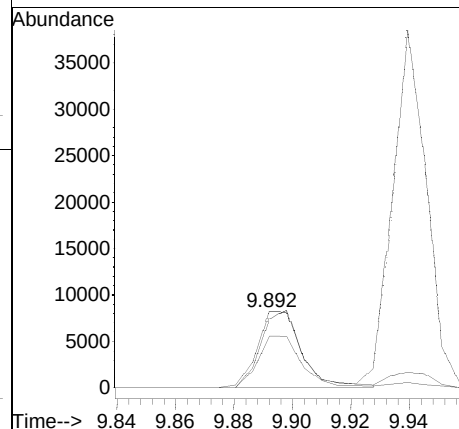
Tgt Ion	Ratio	Lower	Upper
165	100		
89	74.9	72.0	108.0
63	71.6	52.7	79.1

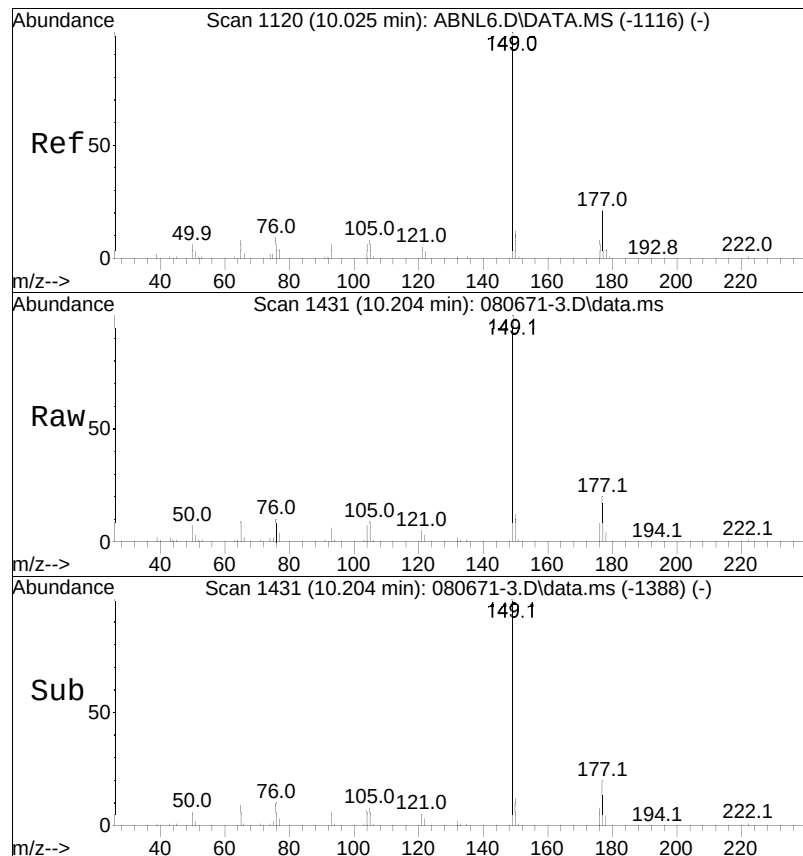




#69
 4-Nitrophenol
 Concen: 1.22 ug/ml
 RT: 9.892 min Scan# 1378
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

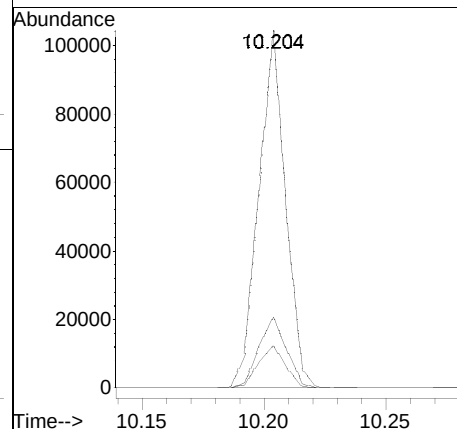
Tgt Ion	Ratio	Lower	Upper
65	100		
109	66.5	47.4	71.2
139	93.4	76.6	115.0

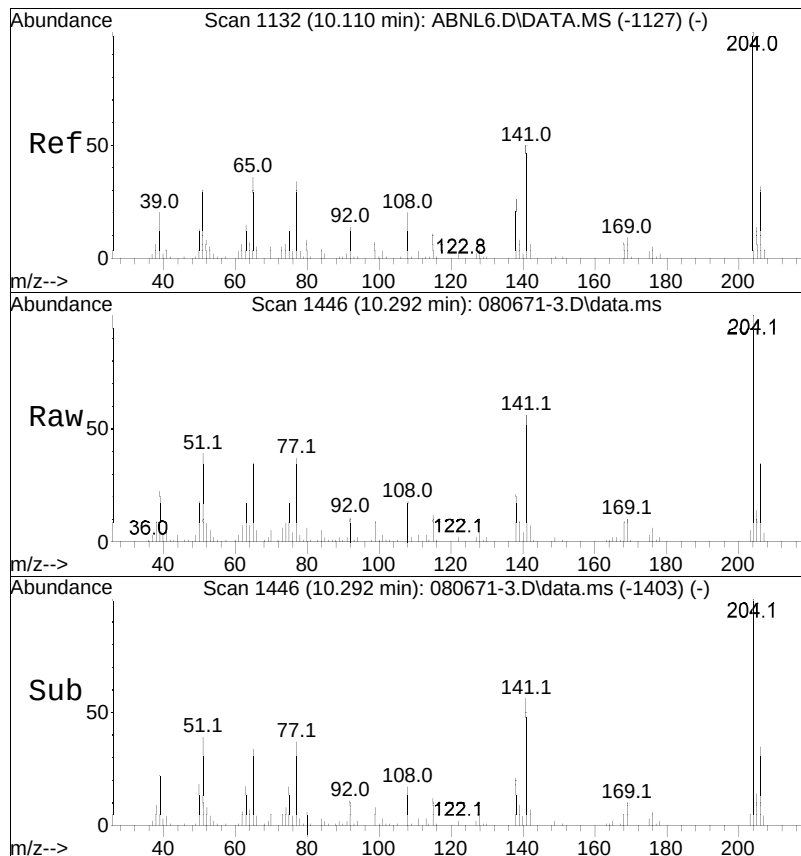




#72
 Diethyl phthalate
 Concen: 1.58 ug/ml
 RT: 10.204 min Scan# 1431
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

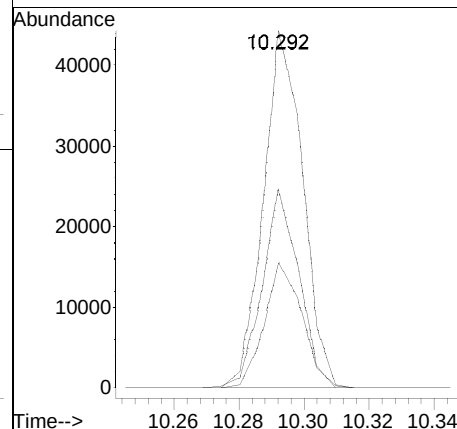
Tgt Ion	Ratio	Lower	Upper
149	100		
177	20.7	16.1	24.1
150	12.1	9.4	14.2

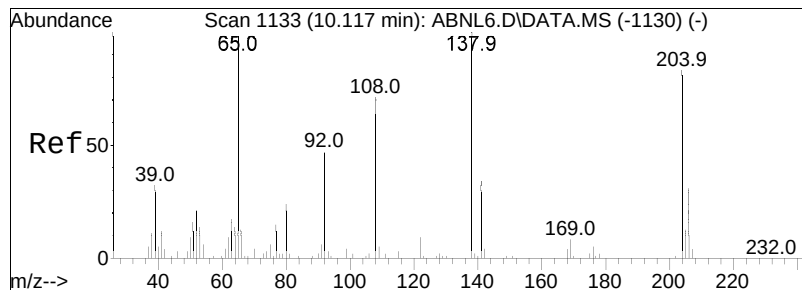




#74
 4-Chlorophenyl phenyl ether
 Concen: 1.36 ug/ml
 RT: 10.292 min Scan# 1446
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

Tgt Ion:	204	Resp:	36863
Ion Ratio	Lower	Upper	
204	100		
206	33.7	25.8	38.6
141	51.9	53.6	80.4#





#75

4-Nitroaniline

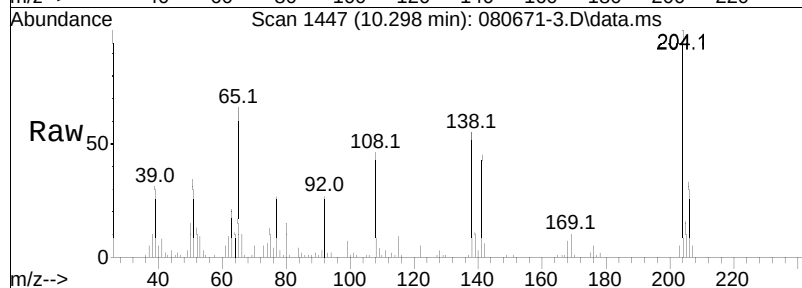
Concen: 1.81 ug/ml

RT: 10.298 min Scan# 1447

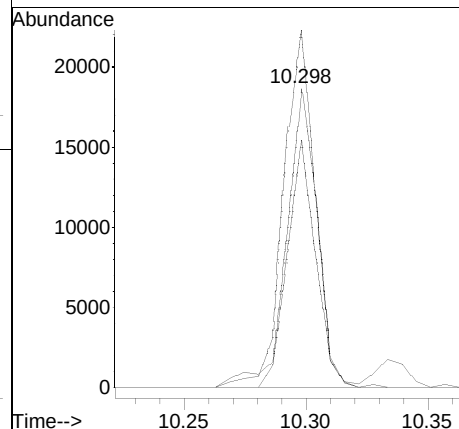
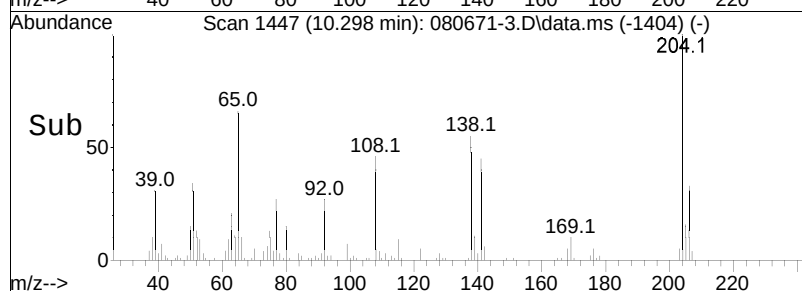
Delta R.T. 0.000 min

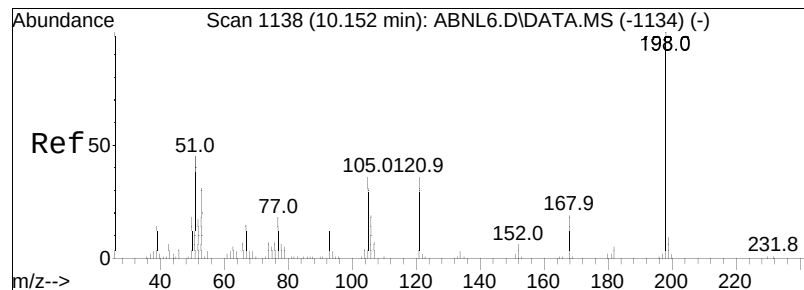
Lab File: 080671-3.D

Acq: 19 Jun 2025 10:20 am



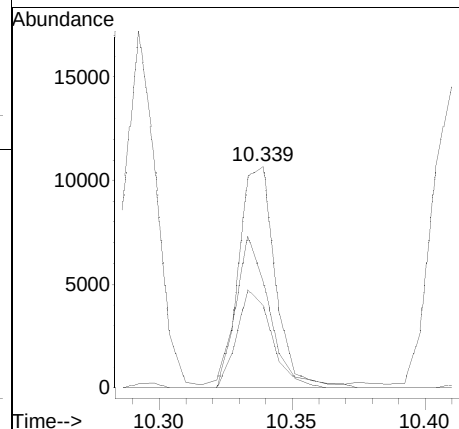
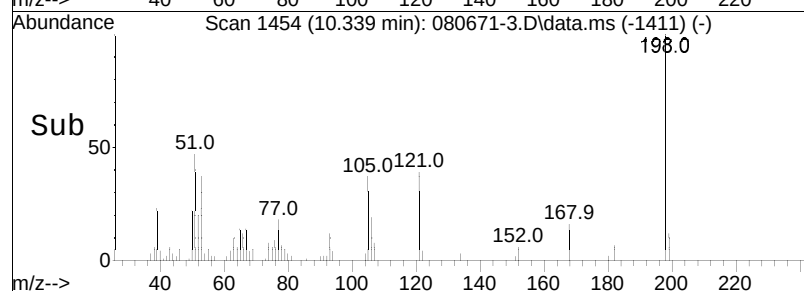
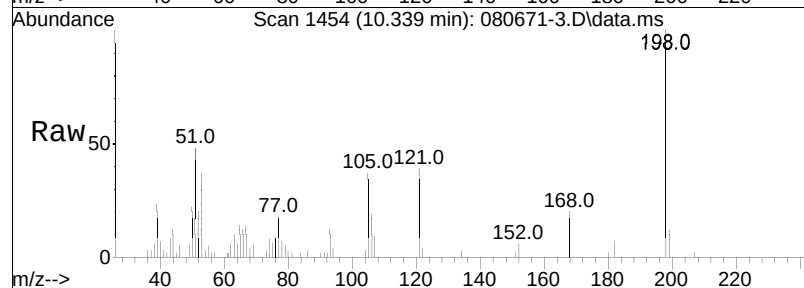
Tgt Ion:	138	Resp:	16268
Ion Ratio	Lower	Upper	
138	100		
108	76.1	52.1	78.1
65	122.1	115.0	172.6

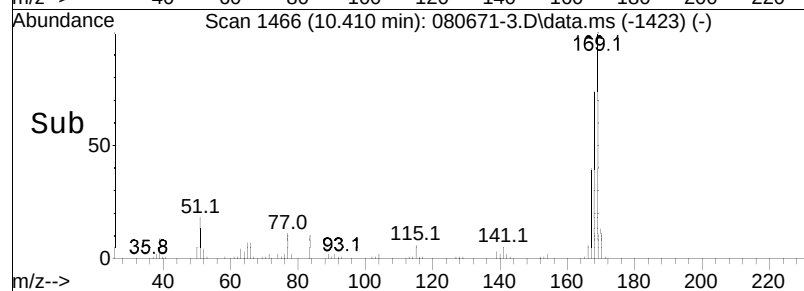
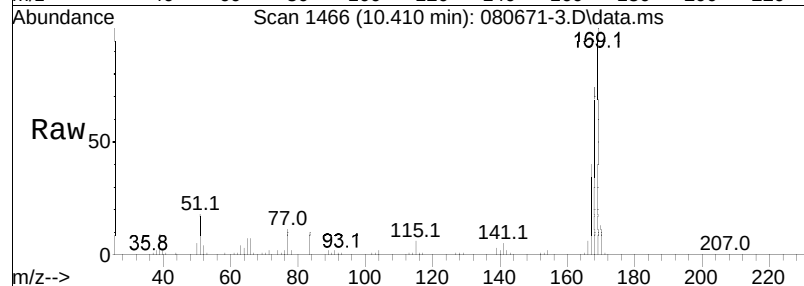
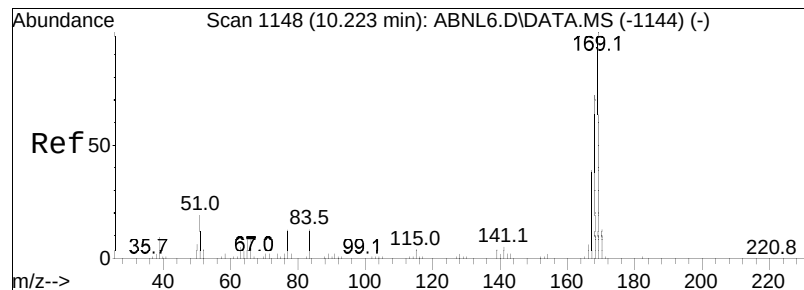




#76
 4,6-Dinitro-o-cresol
 Concen: 1.64 ug/ml
 RT: 10.339 min Scan# 1454
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

Tgt Ion	Ratio	Lower	Upper
198	100		
51	61.6	76.0	114.0#
105	42.4	45.6	68.4#





#77

NDPA/DPA

Concen: 1.48 ug/ml

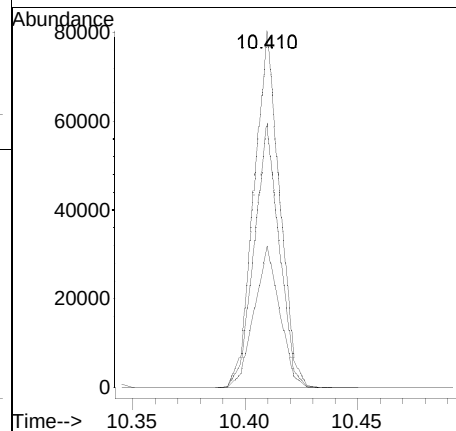
RT: 10.410 min Scan# 1466

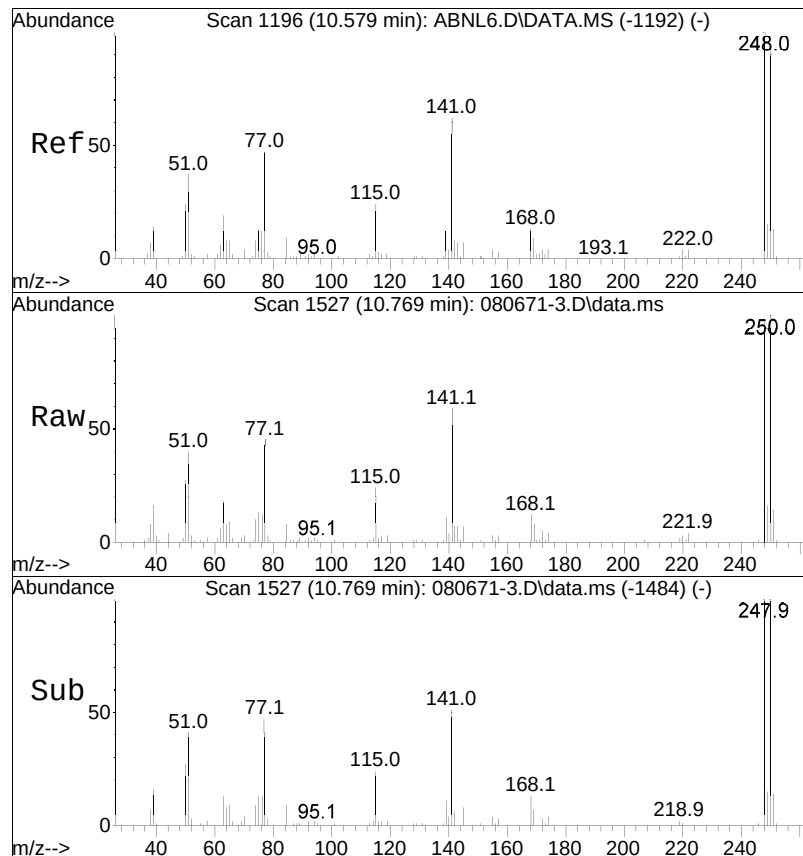
Delta R.T. 0.000 min

Lab File: 080671-3.D

Acq: 19 Jun 2025 10:20 am

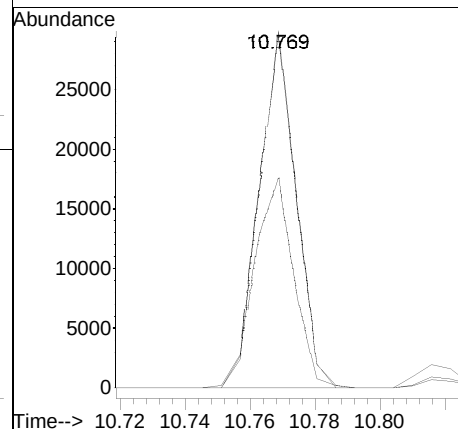
Tgt Ion	Ratio	Lower	Upper
169	100		
168	72.3	54.0	81.0
167	39.7	28.6	42.8

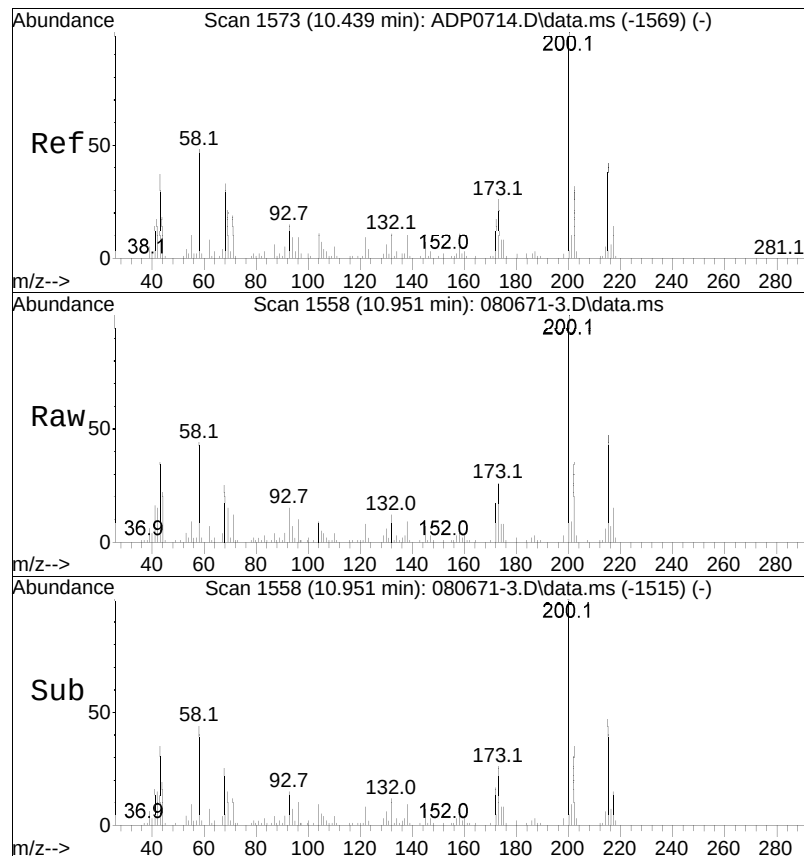




#80
 4-Bromophenyl phenyl ether
 Concen: 1.37 ug/ml
 RT: 10.769 min Scan# 1527
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

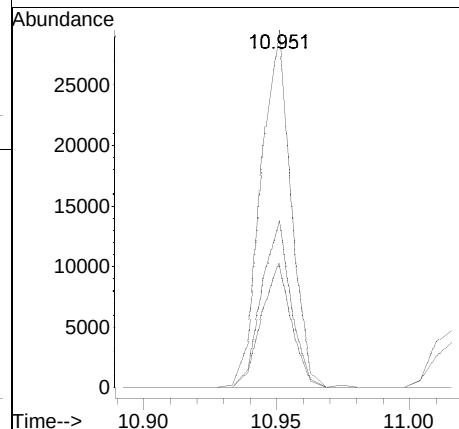
Tgt Ion:	248	Resp:	23307
Ion Ratio	Lower	Upper	
248	100		
141	63.0	76.6	114.8#
250	100.0	77.3	115.9

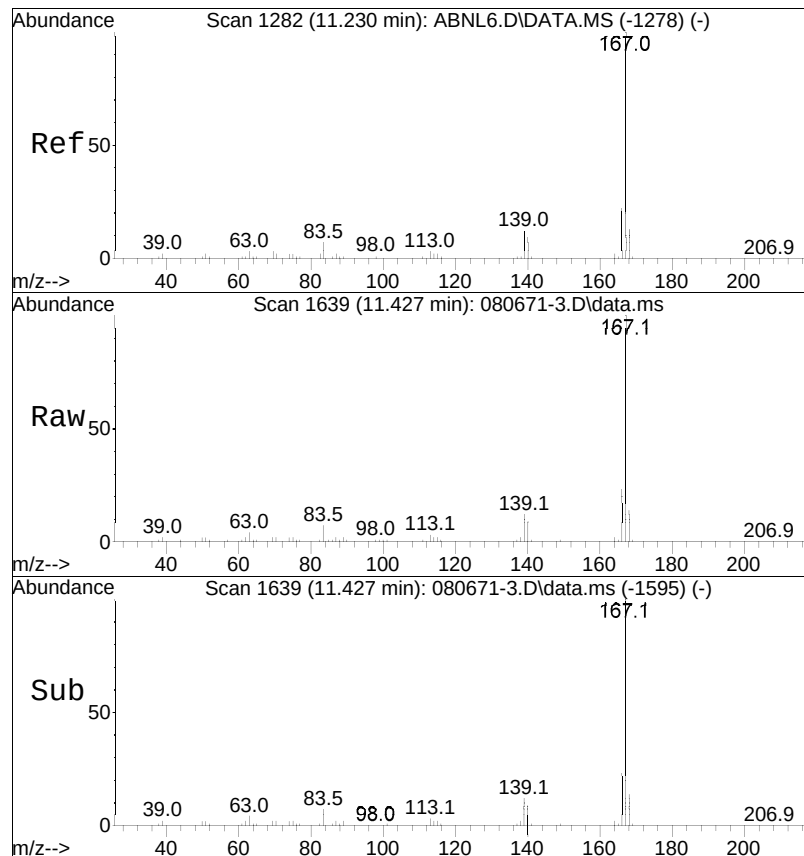




#87
 Atrazine
 Concen: 1.72 ug/ml
 RT: 10.951 min Scan# 1558
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

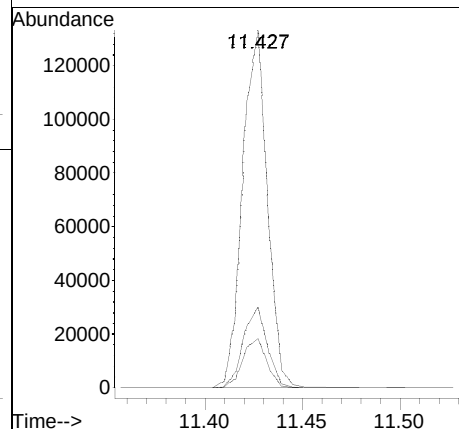
Tgt	Ion	Ratio	Resp	Lower	Upper
200	200	100	23118		
202	202	34.7		25.8	38.6
215	215	45.5		40.2	60.4

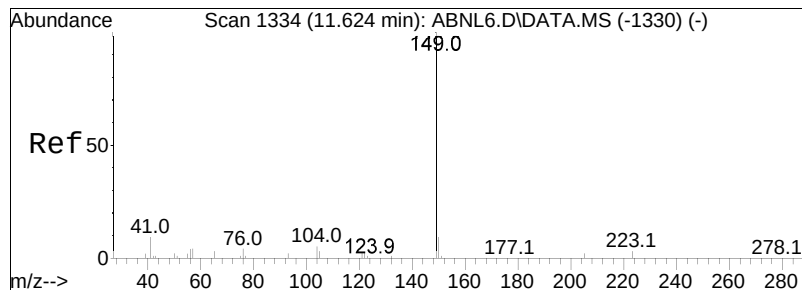




#91
 Carbazole
 Concen: 1.57 ug/ml
 RT: 11.427 min Scan# 1639
 Delta R.T. 0.006 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

Tgt Ion:	167	Resp:	116323
Ion Ratio	Lower	Upper	
167	100		
168	13.5	10.6	15.8
166	22.1	17.4	26.0





#92

Di-n-butylphthalate

Concen: 1.58 ug/ml

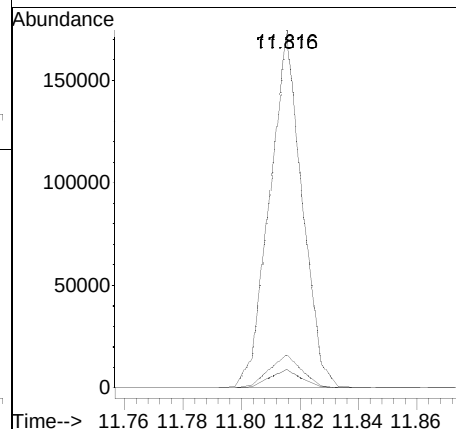
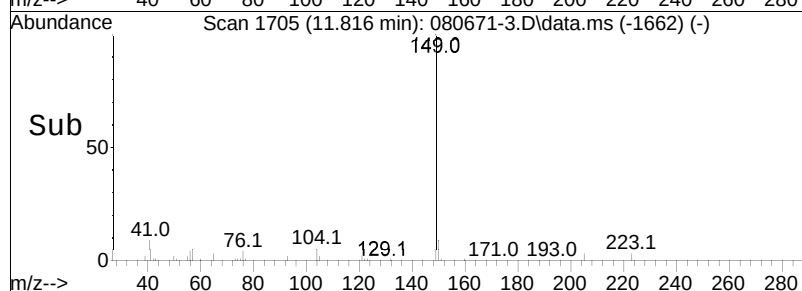
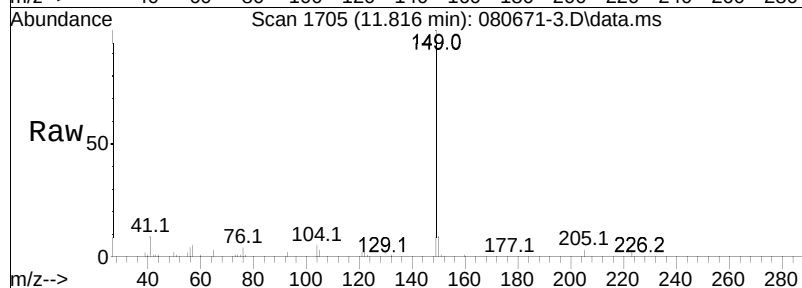
RT: 11.816 min Scan# 1705

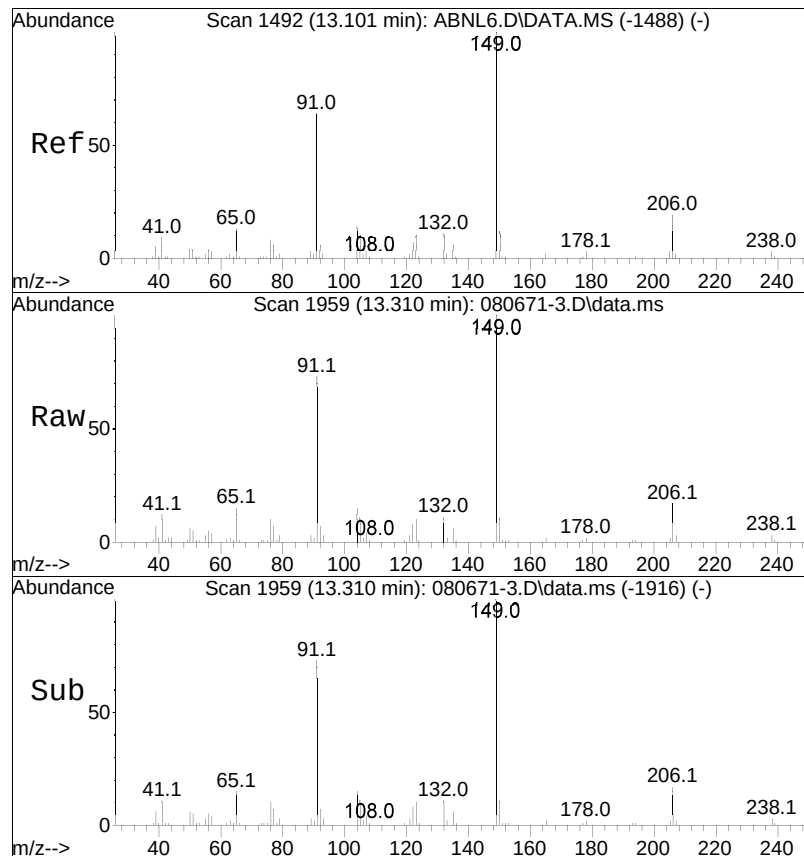
Delta R.T. 0.000 min

Lab File: 080671-3.D

Acq: 19 Jun 2025 10:20 am

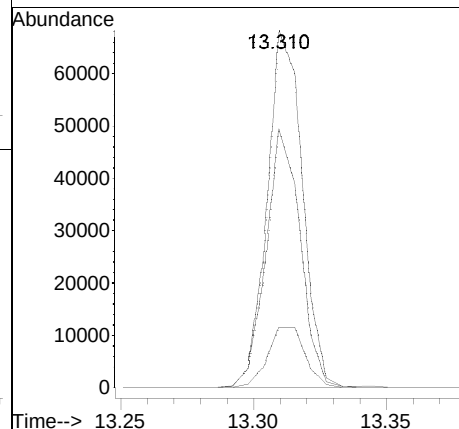
Tgt	Ion:149	Resp:	131985
Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	5.1	4.5	6.7

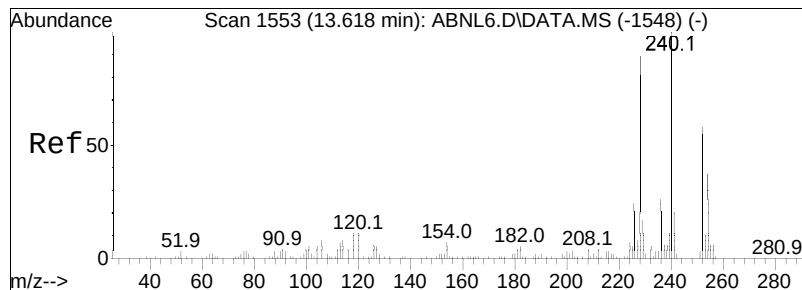




#97
 Butyl benzyl phthalate
 Concen: 1.88 ug/ml
 RT: 13.310 min Scan# 1959
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

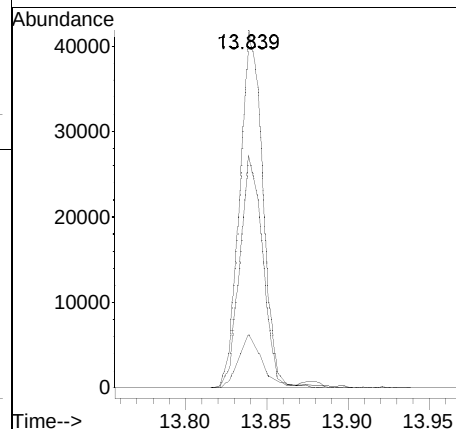
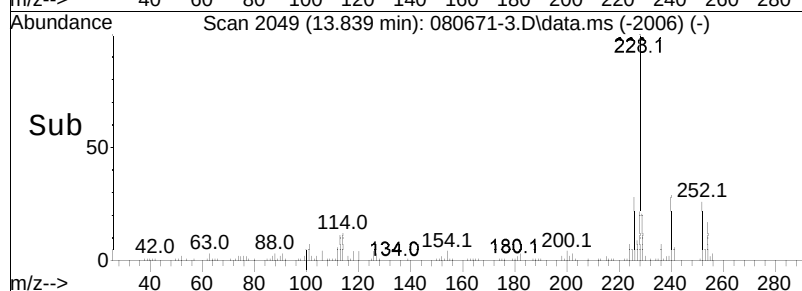
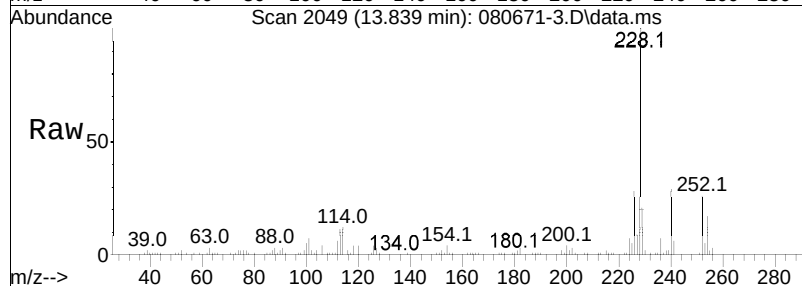
Tgt Ion:	149	Resp:	61830
Ion Ratio	Lower	Upper	
149	100		
91	70.9	63.3	94.9
206	18.2	13.9	20.9

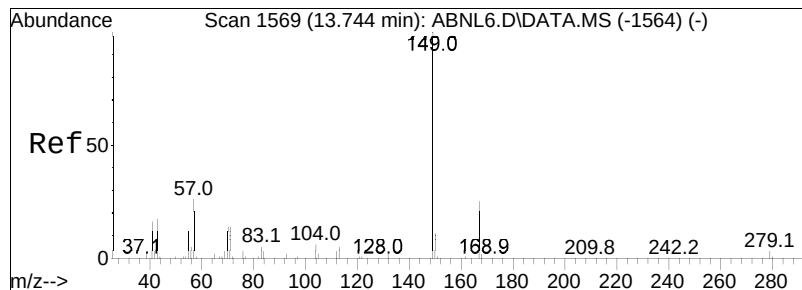




#106
 3,3'-Dichlorobenzidine
 Concen: 1.14 ug/ml
 RT: 13.839 min Scan# 2049
 Delta R.T. 0.000 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

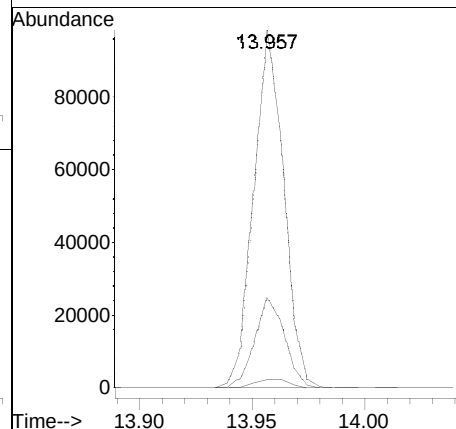
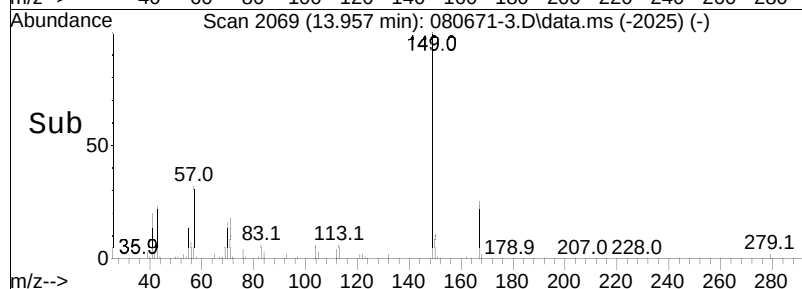
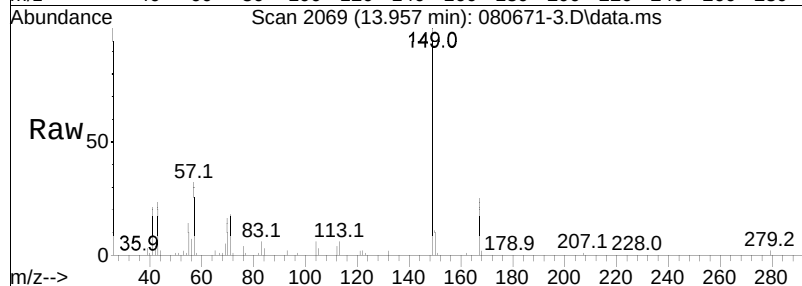
Tgt Ion	Ratio	Lower	Upper
252	100		
126	15.0	14.5	21.7
254	64.3	51.2	76.8

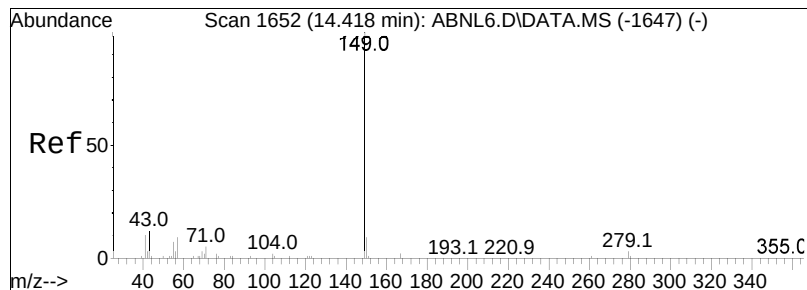




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 1.60 ug/ml
 RT: 13.957 min Scan# 2069
 Delta R.T. 0.006 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

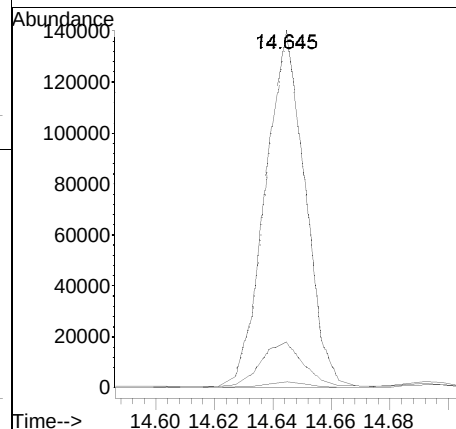
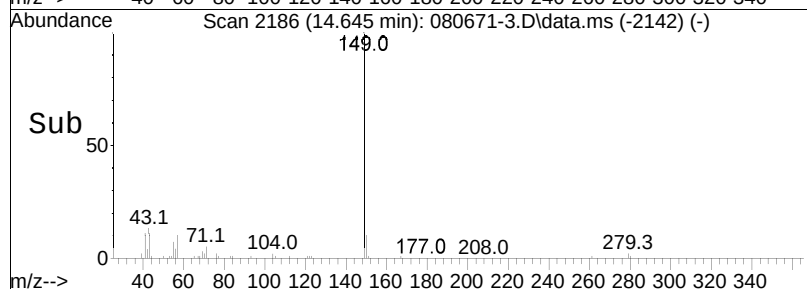
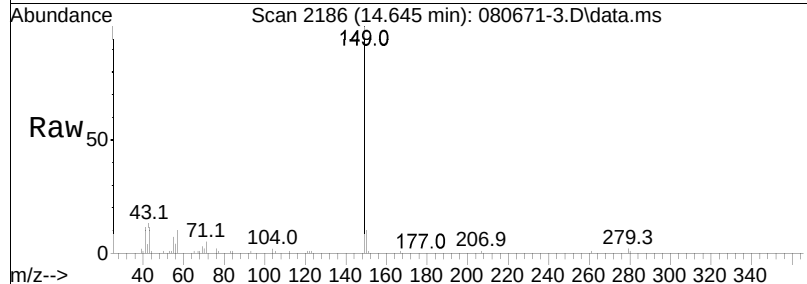
Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.3	22.1	33.1
279	2.6	3.0	4.4#





#109
 Di-n-octylphthalate
 Concen: 1.59 ug/ml
 RT: 14.645 min Scan# 2186
 Delta R.T. 0.006 min
 Lab File: 080671-3.D
 Acq: 19 Jun 2025 10:20 am

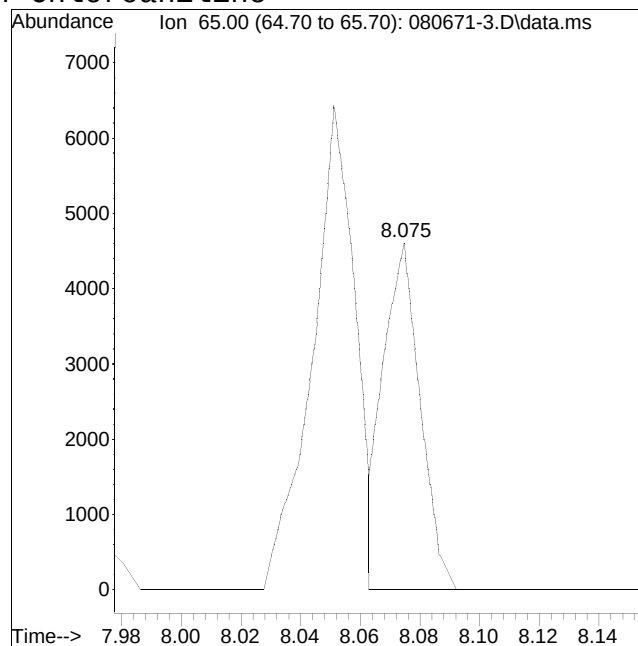
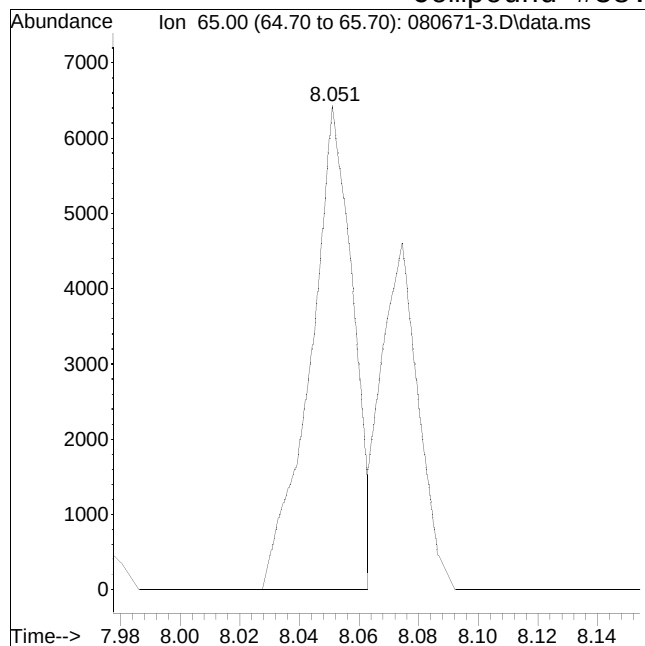
Tgt Ion	Ratio	Lower	Upper
149	100		
43	13.4	18.8	28.2#
167	1.5	1.3	1.9



Manual Integration Report

Data Path : I:\8270\SV106\250619RVT\ QMethod : FS250311SV106.m
Data File : 080671-3.D Operator : SV106:jg
Date Inj'd : 6/19/2025 10:20 am Instrument : SV 106
Sample : WG2080671-3,32,,gmr Quant Date : 6/19/2025 10:40 am

Compound #38: 4-Chloroaniline



Original Peak Response = 6571

Manual Peak Response = 3805 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\Dakota\250619RVTa\
 Data File : 080671-6.D
 Acq On : 19 Jun 2025 3:41 pm
 Operator : Dakota:jg
 Sample : WG2080671-6,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 24 15:23:23 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.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...	4.654	152	37891	4.000	ug/ml	0.00
Standard Area 1 = 40269			Recovery =	94.09%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	37891	4.000	ug/ml	0.00
Standard Area 3 = 39277			Recovery =	96.47%		
37) IS1_Naphthalene-d8	5.885	136	126626	4.000	ug/ml	# 0.00
Standard Area 1 = 141165			Recovery =	89.70%		
57) IS2_Naphthalene-d8	5.885	136	126626	4.000	ug/ml	# 0.00
Standard Area 3 = 138132			Recovery =	91.67%		
65) IS1_Acenaphthene-d10	7.585	164	95367	4.000	ug/ml	0.00
Standard Area 1 = 108362			Recovery =	88.01%		
85) IS2_Acenaphthene-d10	7.585	164	95367	4.000	ug/ml	0.00
Standard Area 3 = 102291			Recovery =	93.23%		
88) IS3_Acenaphthene-d10	7.585	164	95367	4.000	ug/ml	0.00
Standard Area 2 = 80426			Recovery =	118.58%		
90) IS1_Phenanthrene-d10	9.012	188	224846	4.000	ug/ml	0.00
Standard Area 1 = 250799			Recovery =	89.65%		
102) IS3_Phenanthrene-d10	9.012	188	224846	4.000	ug/ml	0.00
Standard Area 2 = 191146			Recovery =	117.63%		
106) IS1_Chrysene-d12	11.629	240	281674	4.000	ug/ml	# 0.00
Standard Area 1 = 307987			Recovery =	91.46%		
115) IS1_Perylene-d12	13.087	264	341501	4.000	ug/ml	0.00
Standard Area 1 = 355260			Recovery =	96.13%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	8735	0.898	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	44.90%		
7) Phenol-d6	4.337	99	9083	0.757	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	37.85%		
19) Nitrobenzene-d5	5.195	82	9196	0.715	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	71.50%		
48) 2-Fluorobiphenyl	6.954	172	24906	0.755	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	75.50%		
81) 2,4,6-Tribromophenol	8.347	330	10473	1.865	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	93.25%		
98) 4-Terphenyl-d14	10.585	244	49184	0.818	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	81.80%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 080671-6.D
 Acq On : 19 Jun 2025 3:41 pm
 Operator : Dakota:jg
 Sample : WG2080671-6,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 24 15:23:23 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.988	74	7384	1.137	ug/ml#	96
3) Pyridine	2.050	79	2591	0.228	ug/ml#	11
5) Aniline	4.337	93	7658	0.481	ug/ml#	1
6) 2-Chlorophenol	4.449	128	14292	1.327	ug/ml	93
8) Phenol	4.350	94	10772	0.737	ug/ml#	60
9) Bis(2-chloroethyl)ether	4.418	93	13009	1.379	ug/ml	87
10) 1,3-Dichlorobenzene	4.598	146	16716M3	1.170	ug/ml	
11) 1,4-Dichlorobenzene	4.670	146	16396	1.113	ug/ml	90
12) 1,2-Dichlorobenzene	4.816	146	16648M3	1.216	ug/ml	
13) Benzyl alcohol	4.807	79	12510	1.315	ug/ml	96
14) Bis(2-chloroisopropyl)...	4.956	45	26133	1.289	ug/ml#	92
15) 2-Methylphenol	4.937	108	11986	1.248	ug/ml	96
17) n-Nitrosodi-n-propylamine	5.074	70	12482	1.452	ug/ml#	86
18) 3-Methylphenol/4-Methy...	5.093	108	12056	1.172	ug/ml	94
20) Nitrobenzene	5.211	77	17697	1.406	ug/ml	90
21) Isophorone	5.453	82	32472	1.404	ug/ml#	92
22) 2-Nitrophenol	5.528	139	7760	1.396	ug/ml#	96
23) 2,4-Dimethylphenol	5.602	107	15071	1.361	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.689	93	20523	1.506	ug/ml#	95
25) 2,4-Dichlorophenol	5.764	162	17789	1.549	ug/ml#	91
26) 1,2,4-Trichlorobenzene	5.842	180	17553	1.222	ug/ml	97
28) Benzaldehyde	4.222	105	13512	1.700	ug/ml	96
29) Acetophenone	5.055	105	23315	1.661	ug/ml#	84
39) Benzoic Acid	5.655	105	6698	2.236	ug/ml	85
40) 4-Chloroaniline	5.978	65	5795	1.307	ug/ml	76
42) p-Chloro-m-cresol	6.473	107	14285	1.585	ug/ml	89
45) Hexachlorocyclopentadiene	6.755	237	9347	0.866	ug/ml	98
46) 2,4,6-Trichlorophenol	6.870	196	16841	1.802	ug/ml	96
47) 2,4,5-Trichlorophenol	6.898	196	17116	1.651	ug/ml	93
50) 2-Nitroaniline	7.159	138	11645	1.718	ug/ml	91
53) Dimethyl phthalate	7.361	163	53039	1.656	ug/ml#	96
55) 2,6-Dinitrotoluene	7.402	165	10655	1.663	ug/ml#	82
62) Caprolactam	6.280	55	4333	0.809	ug/ml#	92
63) 1,2,4,5-Tetrachloroben...	6.749	216	21025	1.496	ug/ml#	96
64) Biphenyl	7.044	154	45792	1.522	ug/ml	96
66) 3-Nitroaniline	7.557	138	10614	1.635	ug/ml	92
68) 2,4-Dinitrophenol	7.657	184	6546	1.633	ug/ml#	80

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 080671-6.D
 Acq On : 19 Jun 2025 3:41 pm
 Operator : Dakota:jg
 Sample : WG2080671-6,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 24 15:23:23 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69)	Dibenzofuran	7.787	168	63574	1.423	ug/ml	90
70)	2,4-Dinitrotoluene	7.787	165	15700	1.645	ug/ml	88
71)	4-Nitrophenol	7.747	65	6446	1.094	ug/ml	95
73)	2,3,4,6-Tetrachlorophenol	7.918	232	15806	1.669	ug/ml	92
74)	Diethyl phthalate	8.048	149	52407	1.567	ug/ml	98
76)	4-Chlorophenyl phenyl ...	8.135	204	27146	1.506	ug/ml#	81
77)	4-Nitroaniline	8.142	138	11144	1.634	ug/ml#	91
78)	4,6-Dinitro-o-cresol	8.176	198	9375	1.588	ug/ml#	57
79)	NDPA/DPA	8.250	169	47946	1.577	ug/ml	93
80)	Azobenzene	8.285	77	43346	1.400	ug/ml#	92
82)	4-Bromophenyl phenyl e...	8.605	248	18004	1.580	ug/ml#	76
87)	Pentachloronitrobenzene	8.860	237	9837	2.237	ug/ml#	70
89)	Atrazine	8.785	200	17434	1.727	ug/ml	92
93)	Carbazole	9.251	167	96564	1.620	ug/ml	100
94)	Di-n-butylphthalate	9.640	149	94949	1.535	ug/ml	97
96)	Benzidine	0.000		0	N.D.		
99)	Butyl benzyl phthalate	11.107	149	44726	1.666	ug/ml#	84
104)	Parathion	9.798	109	9334	2.088	ug/ml	94
108)	3,3'-Dichlorobenzidine	11.623	252	38543	1.179	ug/ml#	94
110)	Bis(2-ethylhexyl)phtha...	11.741	149	70300	1.510	ug/ml	94
111)	Di-n-octylphthalate	12.415	149	118814	1.571	ug/ml#	79

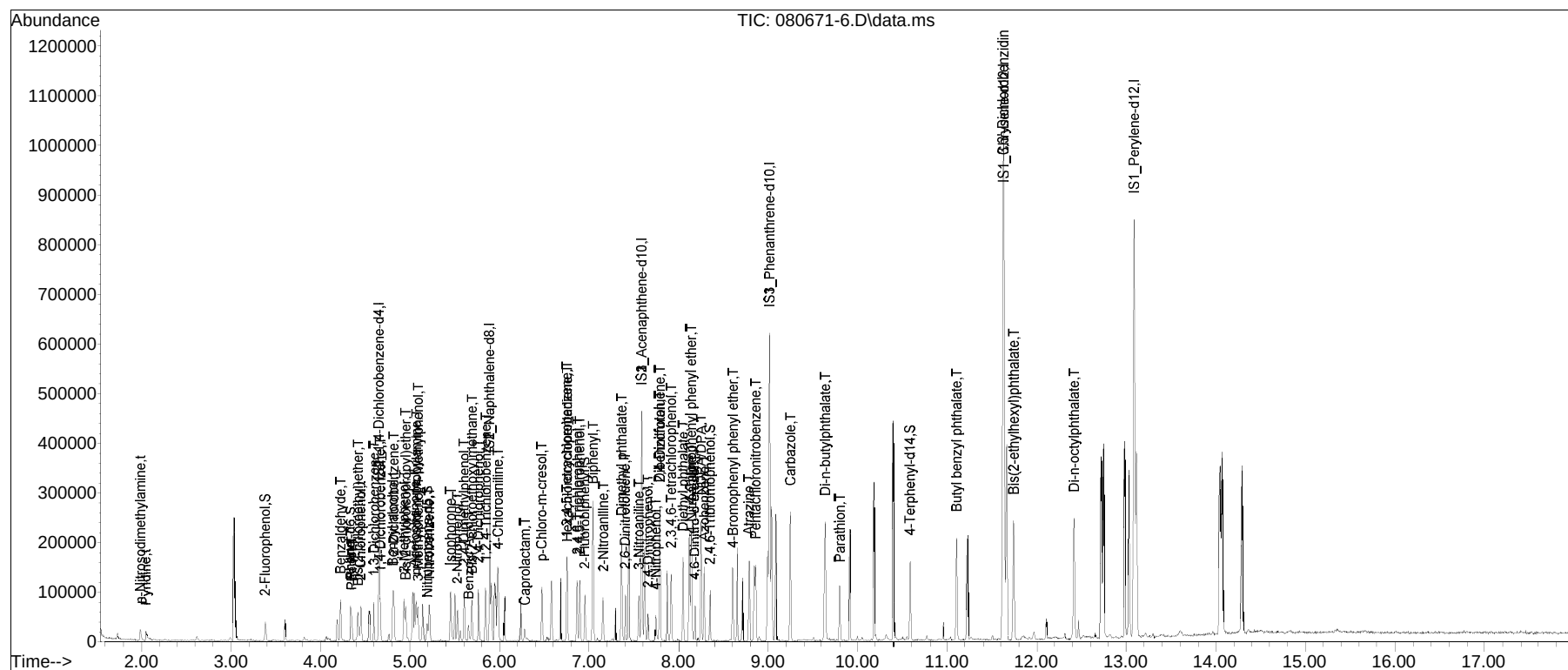
(#) = qualifier out of range (m) = manual integration (+) = signals summed

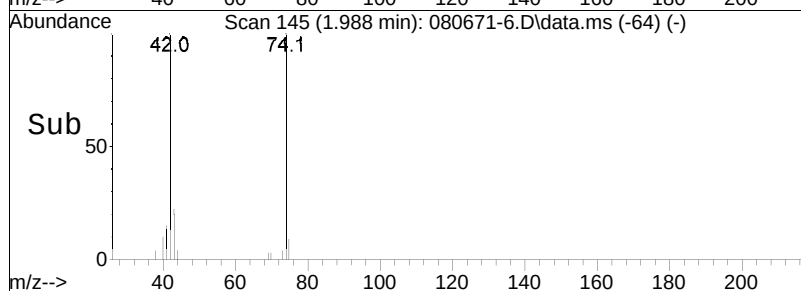
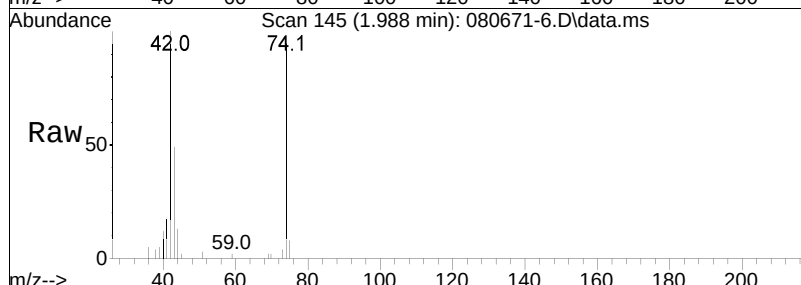
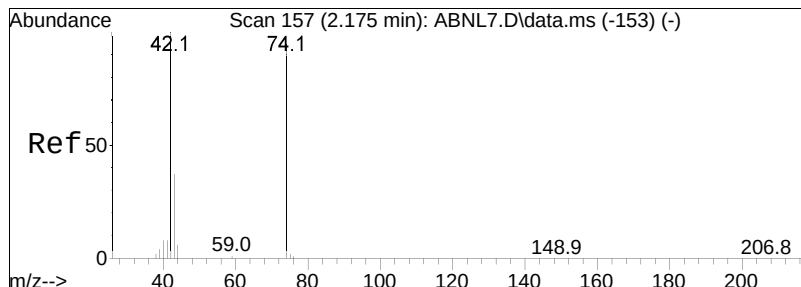
Quantitation Report (QT Reviewed)

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Data Path : I:\8270\Dakota\250619RVTA\  
Data File : 080671-6.D  
Acq On    : 19 Jun 2025    3:41 pm  
Operator  : Dakota:jg  
Sample    : WG2080671-6,32,,gmr  
Misc      : WG2080969,WG2080671,ical22203  
ALS Vial  : 11    Sample Multiplier: 1
```

Quant Time: Jun 24 15:23:23 2025
Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 19 11:56:44 2025
Response via : Initial Calibration

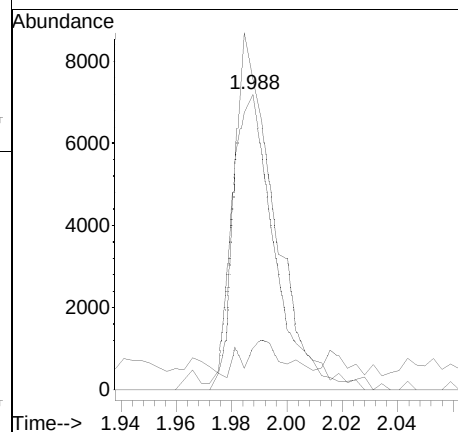
Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP90619.D•

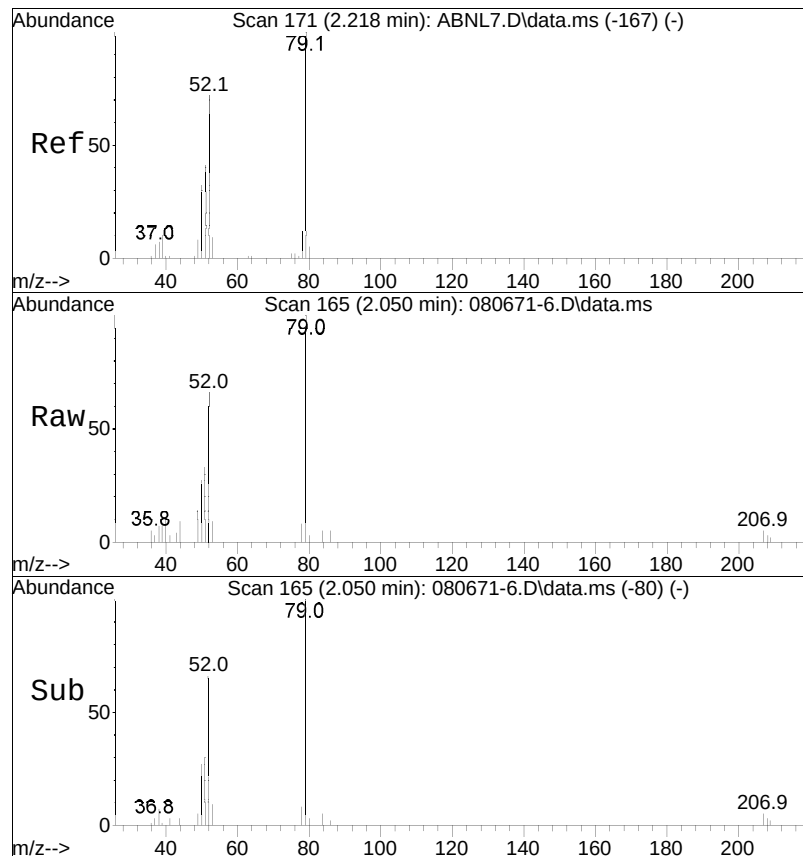




#2
 n-Nitrosodimethylamine
 Concen: 1.14 ug/ml
 RT: 1.988 min Scan# 145
 Delta R.T. 0.003 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

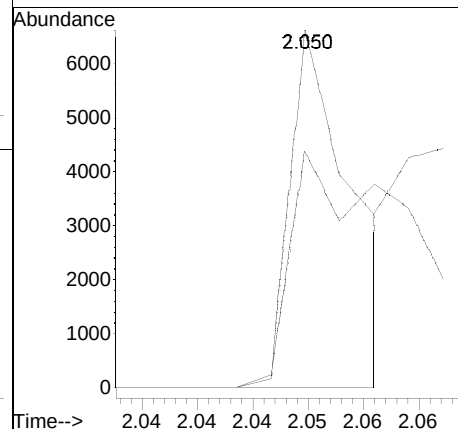
Tgt Ion: 74 Resp: 7384
 Ion Ratio Lower Upper
 74 100
 42 121.3 100.0 150.0
 44 12.8 6.7 10.1#

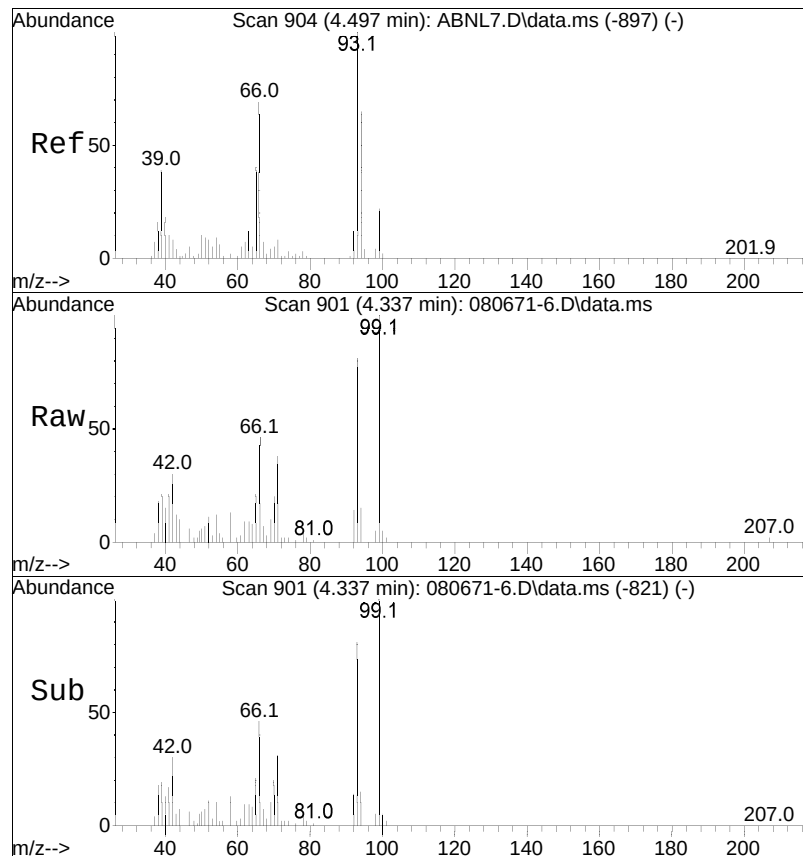




#3
 Pyridine
 Concen: 0.23 ug/ml
 RT: 2.050 min Scan# 165
 Delta R.T. 0.016 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

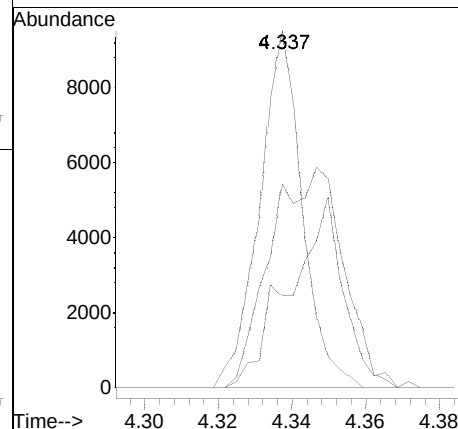
Tgt Ion: 79 Resp: 2591
 Ion Ratio Lower Upper
 79 100
 52 213.5 93.1 139.7#

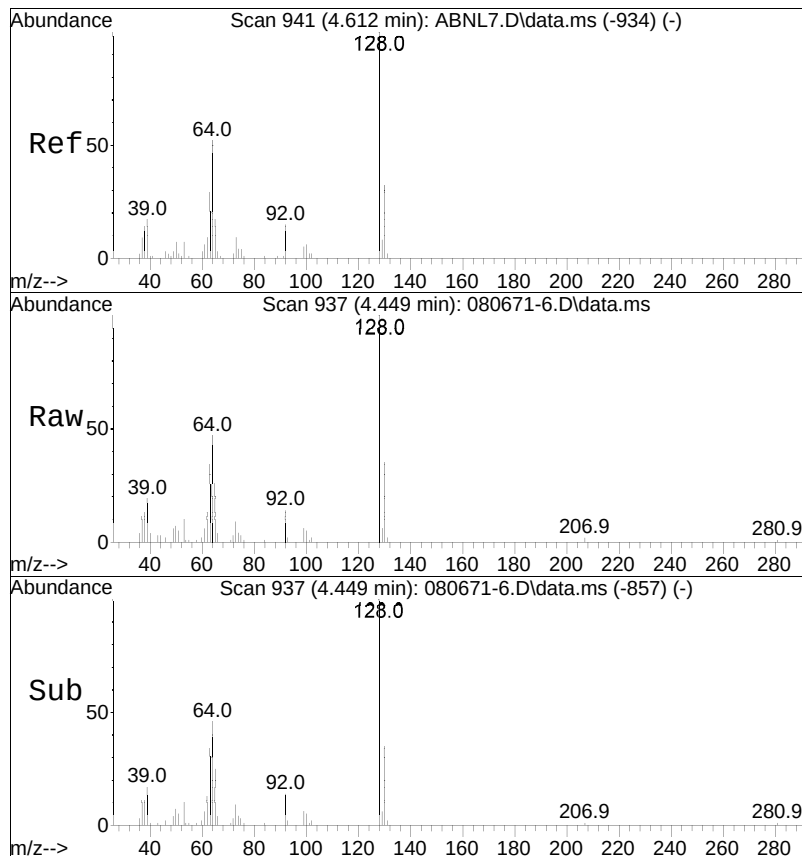




#5
 Aniline
 Concen: 0.48 ug/ml
 RT: 4.337 min Scan# 901
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

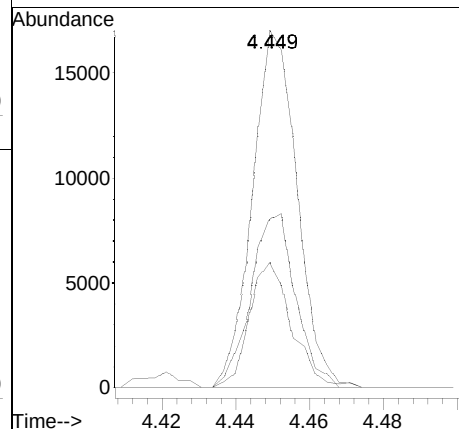
Tgt Ion:	93	Resp:	7658
Ion Ratio	Lower	Upper	
93	100		
66	104.2	32.6	49.0#
65	67.7	17.6	26.4#

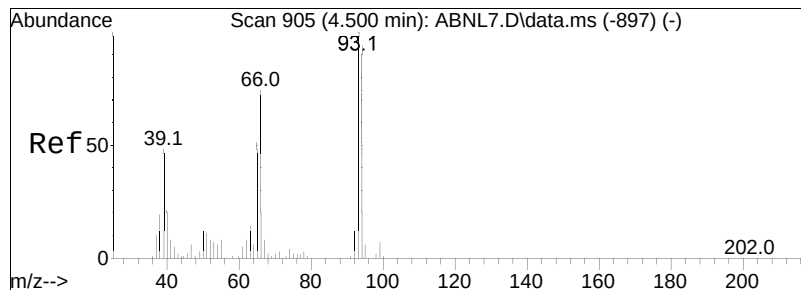




#6
 2-Chlorophenol
 Concen: 1.33 ug/ml
 RT: 4.449 min Scan# 937
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

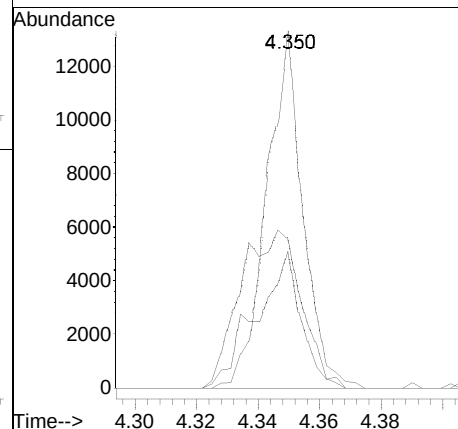
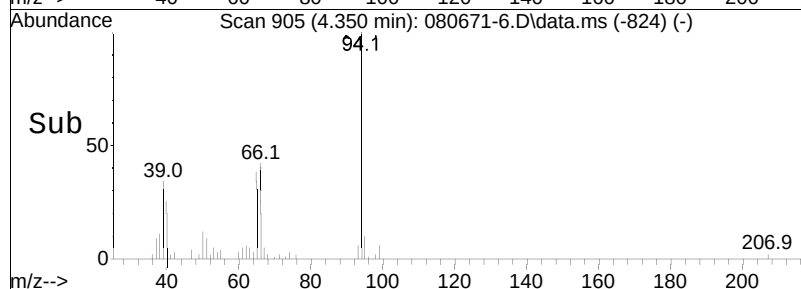
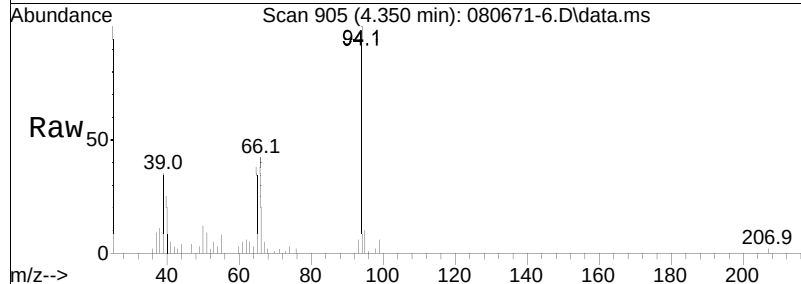
Tgt	Ion:128	Resp:	14292
Ion	Ratio	Lower	Upper
128	100		
64	48.9	45.1	67.7
130	33.4	26.2	39.4

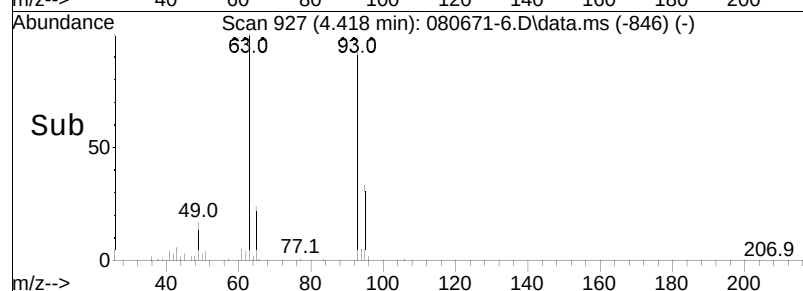
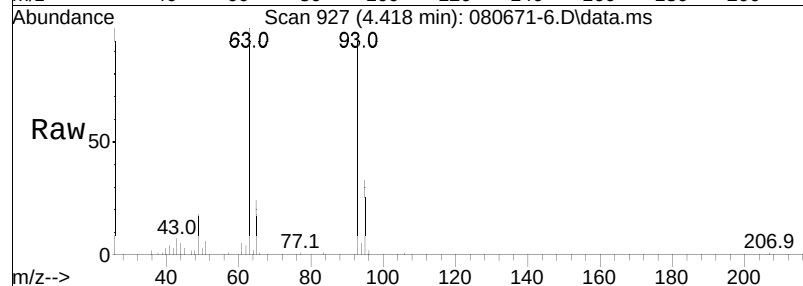
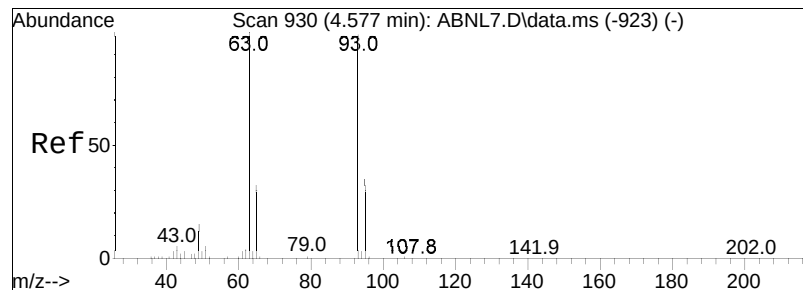




#8
 Phenol
 Concen: 0.74 ug/ml
 RT: 4.350 min Scan# 905
 Delta R.T. 0.003 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

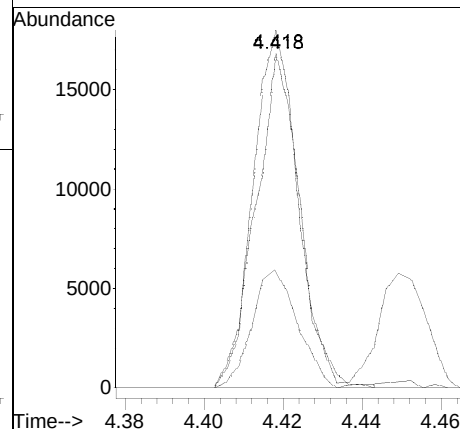
Tgt Ion	Ratio	Lower	Upper
94	100		
65	48.1	26.0	39.0#
66	74.1	33.8	50.8#

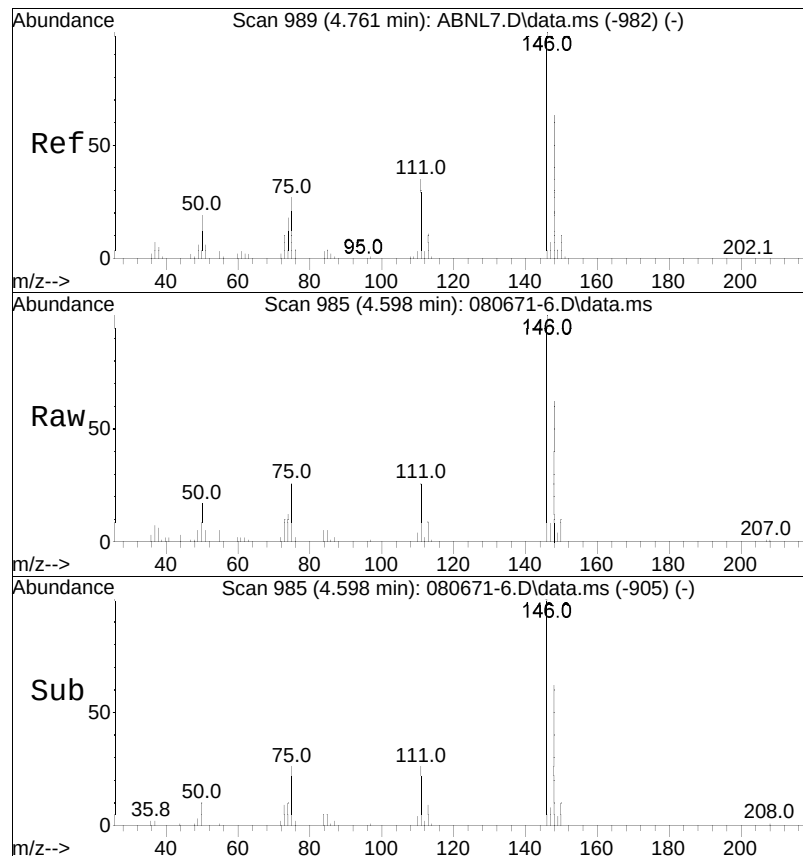




#9
 Bis(2-chloroethyl)ether
 Concen: 1.38 ug/ml
 RT: 4.418 min Scan# 927
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

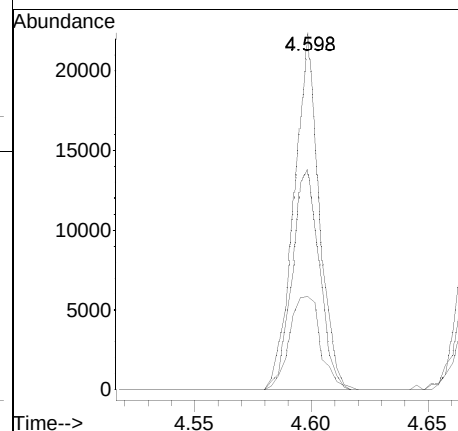
Tgt Ion	Ratio	Lower	Upper
93	100		
63	107.1	74.6	111.8
95	37.1	25.9	38.9

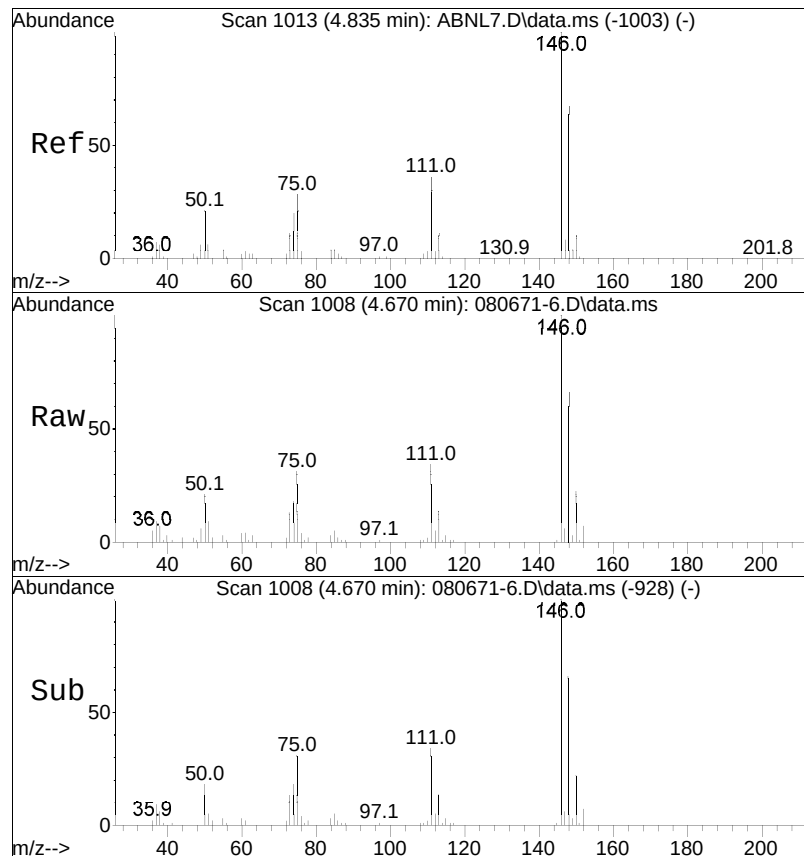




#10
 1,3-Dichlorobenzene
 Concen: 1.17 ug/ml M3
 RT: 4.598 min Scan# 985
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

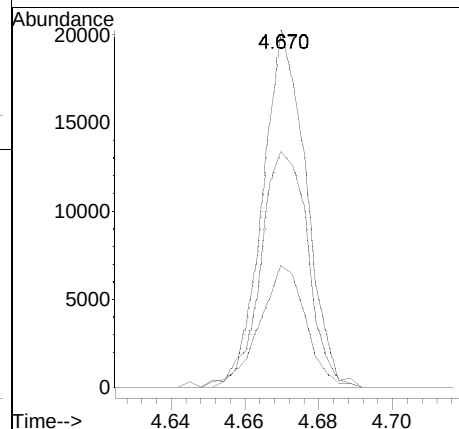
Tgt	Ion:146	Resp:	16716
Ion	Ratio	Lower	Upper
146	100		
111	36.5	34.3	51.5
148	70.9	50.8	76.2

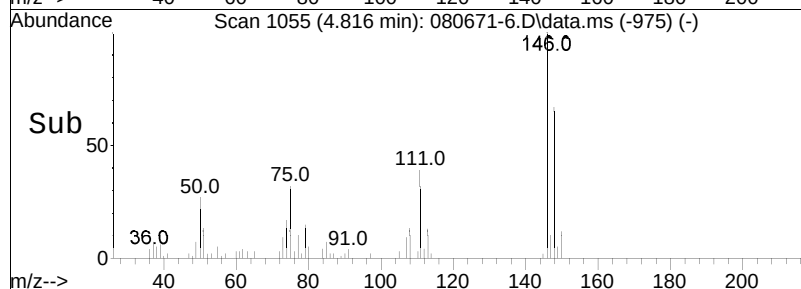
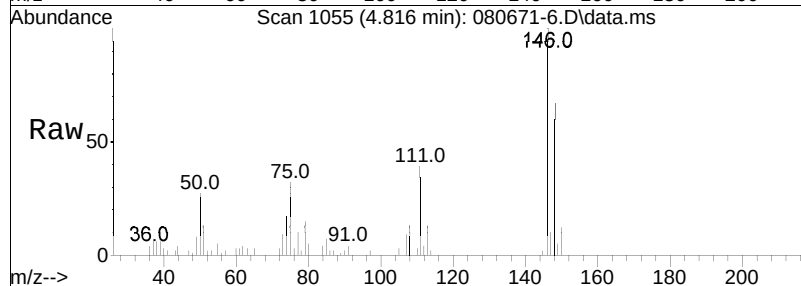
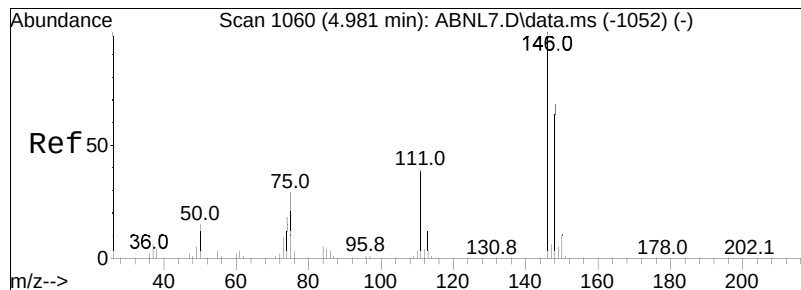




#11
 1,4-Dichlorobenzene
 Concen: 1.11 ug/ml
 RT: 4.670 min Scan# 1008
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

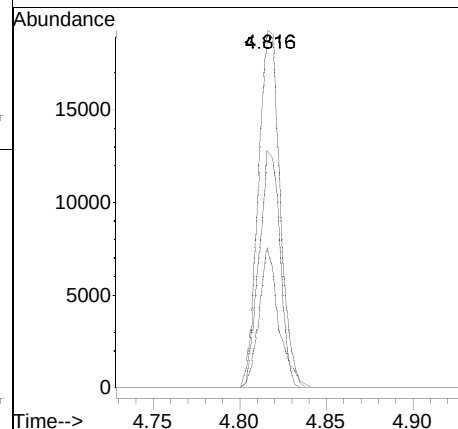
Tgt Ion:	146	Resp:	16396
Ion Ratio	Lower	Upper	
146	100		
148	72.3	50.7	76.1
111	37.2	33.4	50.0

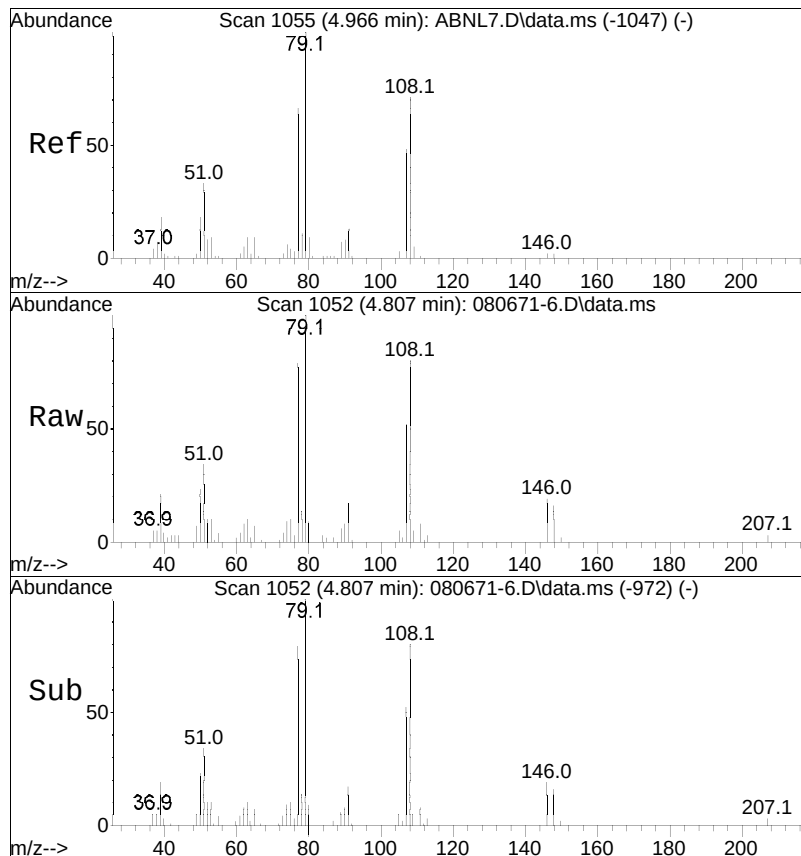




#12
 1,2-Dichlorobenzene
 Concen: 1.22 ug/ml M3
 RT: 4.816 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

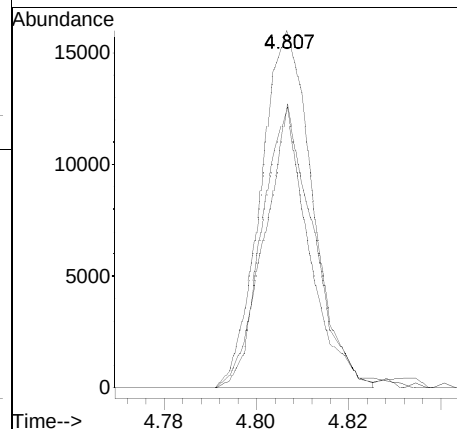
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.7	34.6	52.0
148	70.2	50.2	75.4

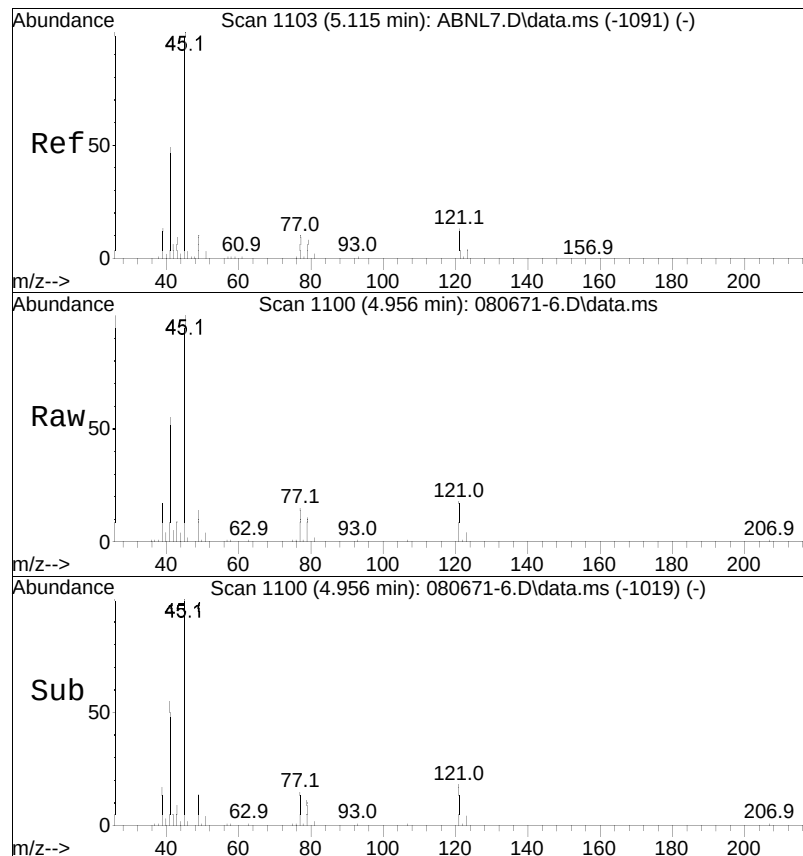




#13
 Benzyl alcohol
 Concen: 1.31 ug/ml
 RT: 4.807 min Scan# 1052
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

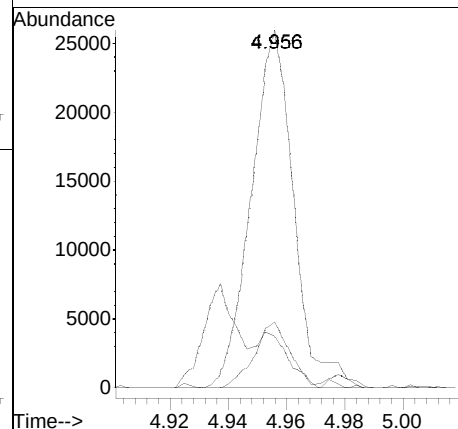
Tgt Ion:	79	Resp:	12510
Ion Ratio	Lower	Upper	
79	100		
77	71.9	54.9	82.3
108	75.5	63.1	94.7

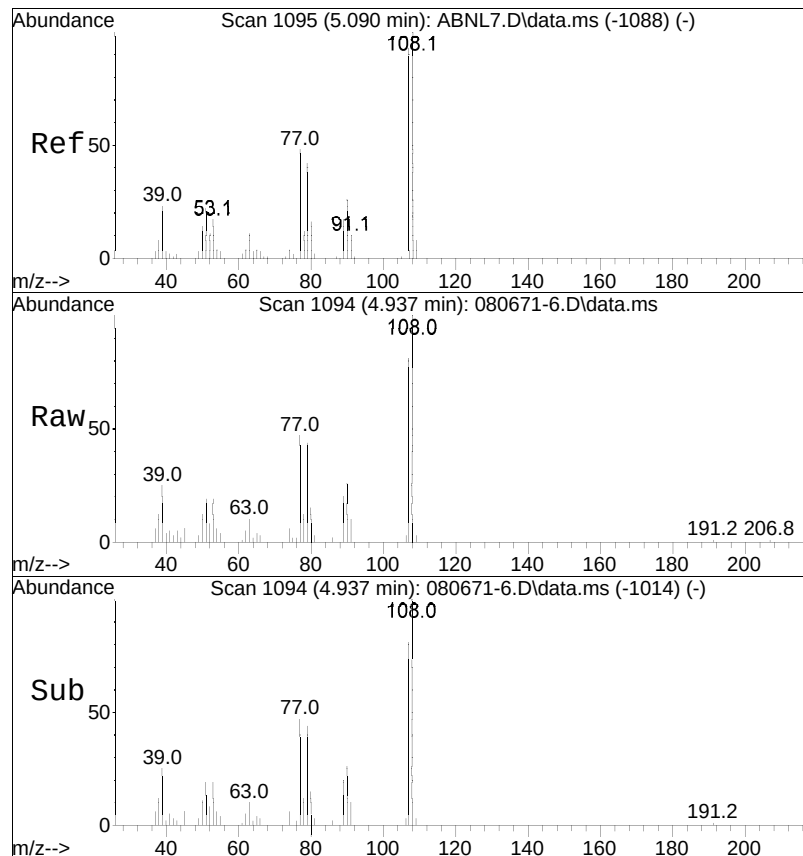




#14
 Bis(2-chloroisopropyl)ether
 Concen: 1.29 ug/ml
 RT: 4.956 min Scan# 1100
 Delta R.T. 0.003 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

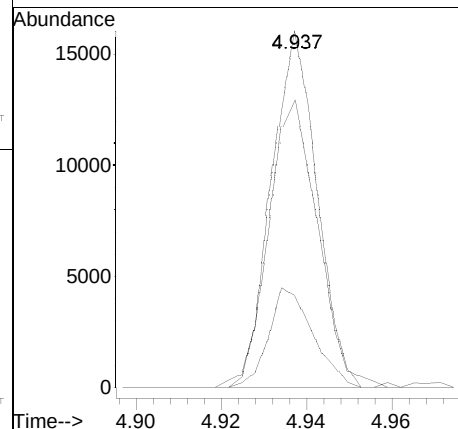
Tgt Ion:	45	Resp:	26133
Ion Ratio	Lower	Upper	
45	100		
121	15.5	9.8	14.6#
77	9.9	6.1	9.1#

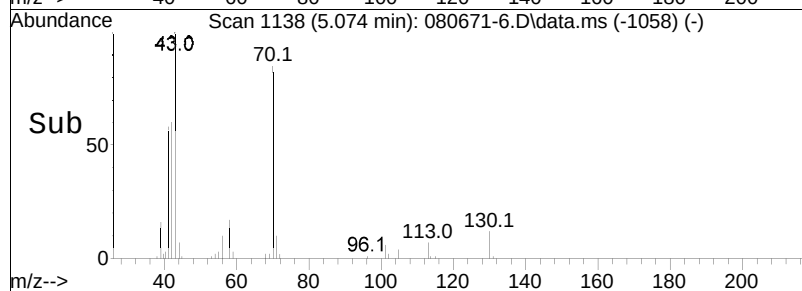
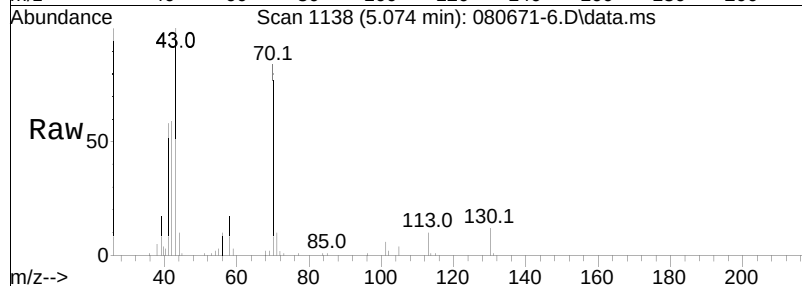
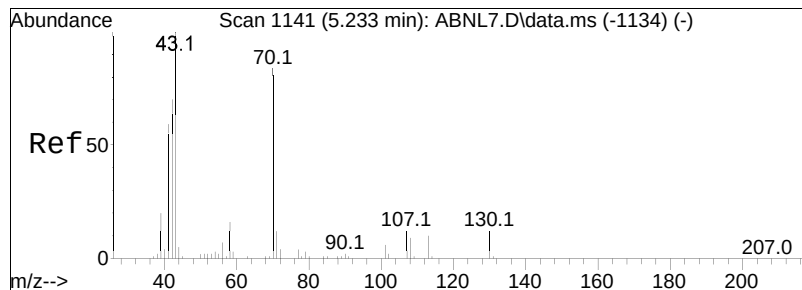




#15
 2-Methylphenol
 Concen: 1.25 ug/ml
 RT: 4.937 min Scan# 1094
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

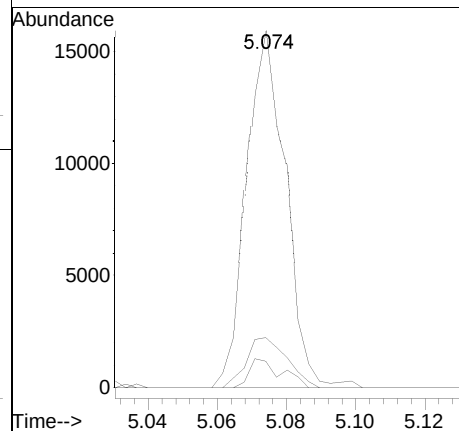
Tgt Ion:	108	Resp:	11986
Ion Ratio	Lower	Upper	
108	100		
107	85.9	70.7	106.1
90	27.1	18.7	28.1

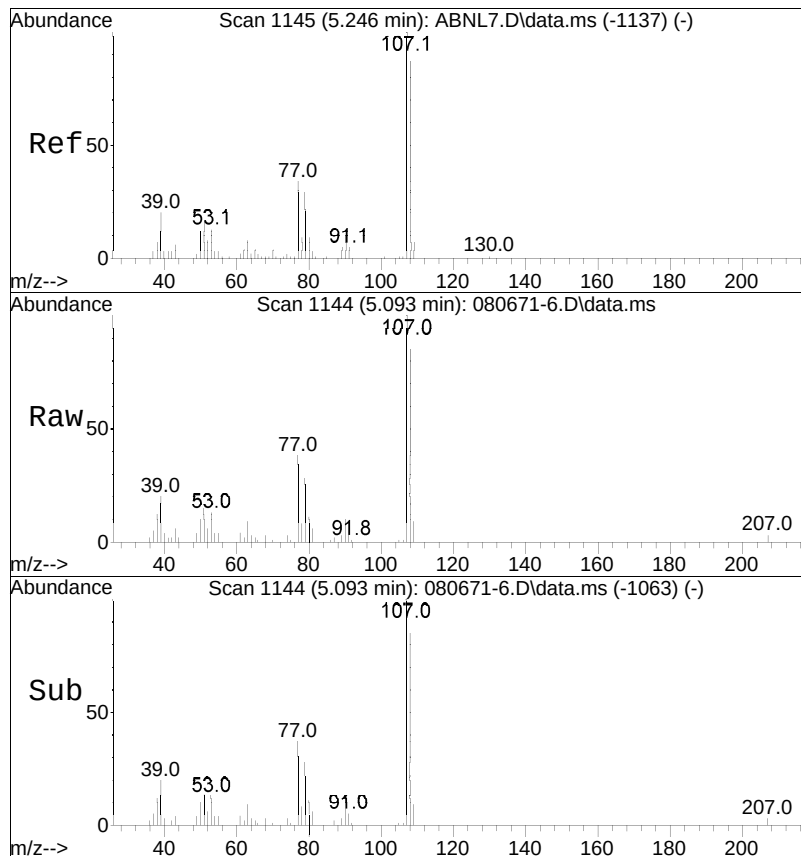




#17
 n-Nitrosodi-n-propylamine
 Concen: 1.45 ug/ml
 RT: 5.074 min Scan# 1138
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

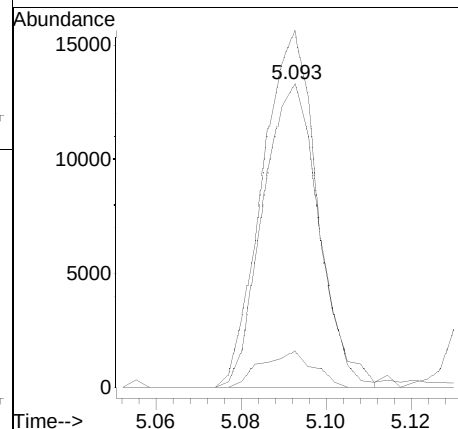
Tgt Ion	Ratio	Lower	Upper
70	100		
130	14.6	18.2	27.4#
101	6.6	7.8	11.8#

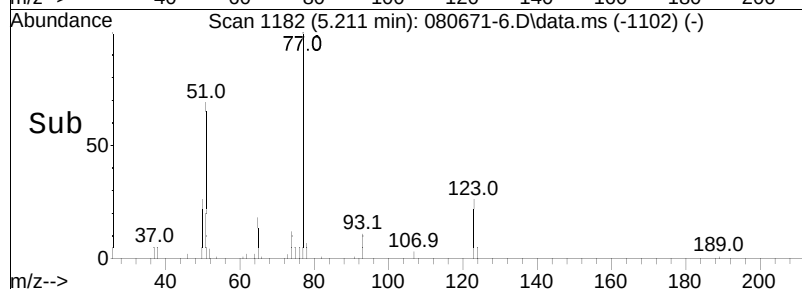
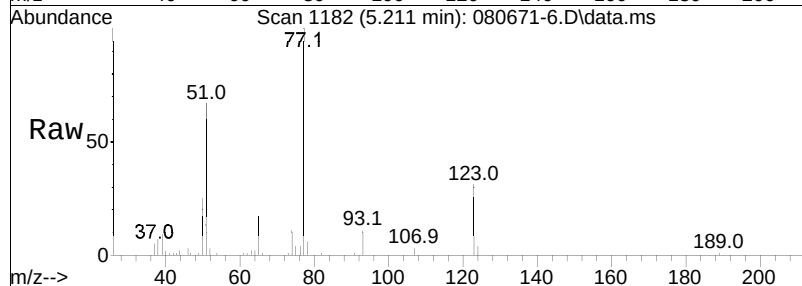
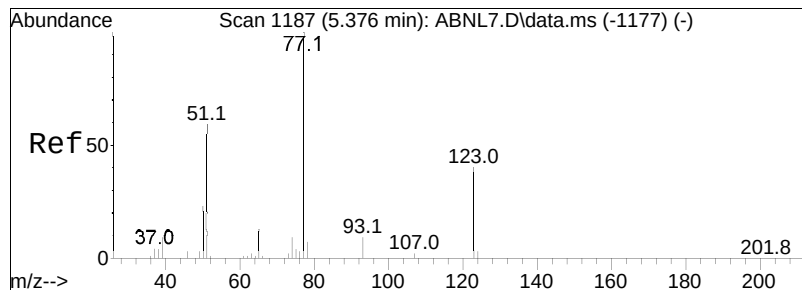




#18
 3-Methylphenol/4-Methylphenol
 Concen: 1.17 ug/ml
 RT: 5.093 min Scan# 1144
 Delta R.T. 0.003 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

Tgt	Ion:108	Resp:	12056
Ion	Ratio	Lower	Upper
108	100		
107	117.3	88.6	132.8
90	11.4	8.8	13.2





#20

Nitrobenzene

Concen: 1.41 ug/ml

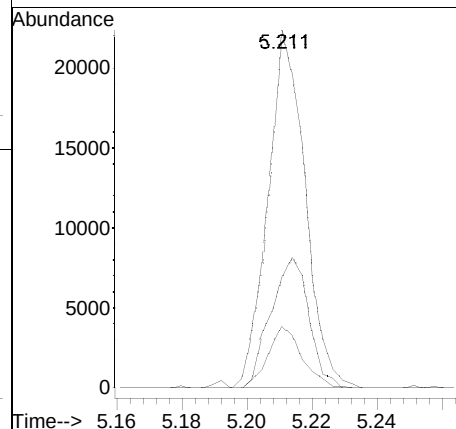
RT: 5.211 min Scan# 1182

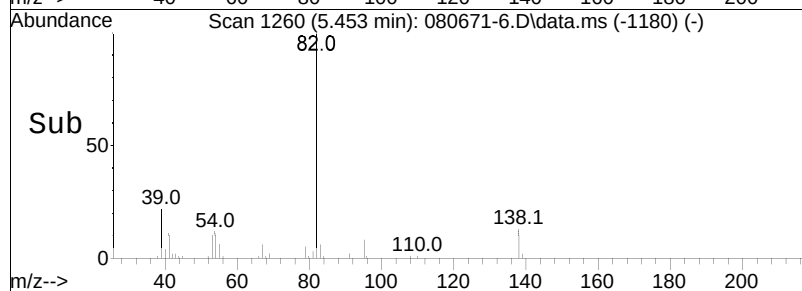
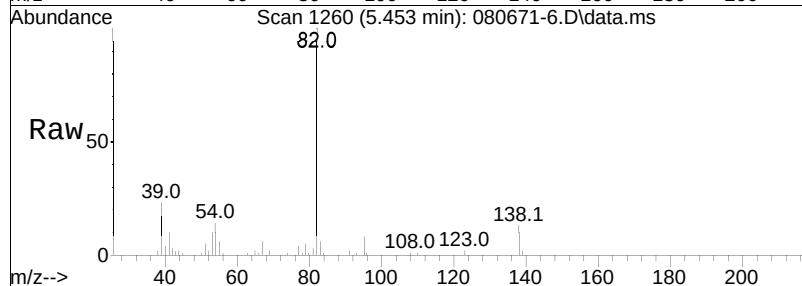
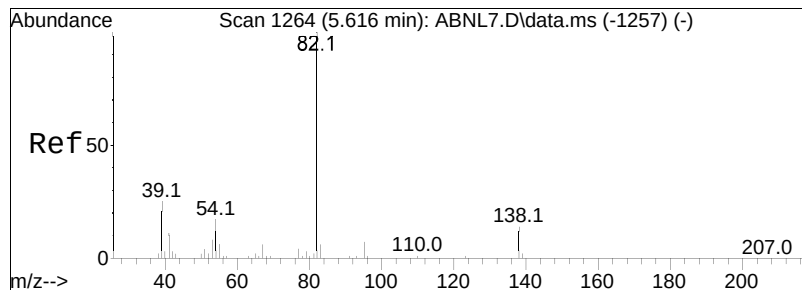
Delta R.T. 0.000 min

Lab File: 080671-6.D

Acq: 19 Jun 2025 3:41 pm

Tgt Ion: 77	Resp: 17697
Ion Ratio	Lower Upper
77 100	
123 37.2	36.3 54.5
65 15.9	11.6 17.4





#21

Isophorone

Concen: 1.40 ug/ml

RT: 5.453 min Scan# 1260

Delta R.T. 0.000 min

Lab File: 080671-6.D

Acq: 19 Jun 2025 3:41 pm

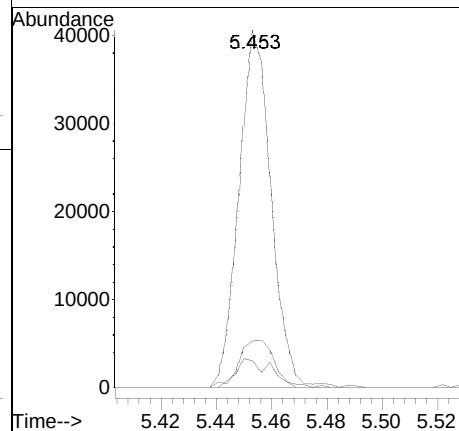
Tgt Ion: 82 Resp: 32472

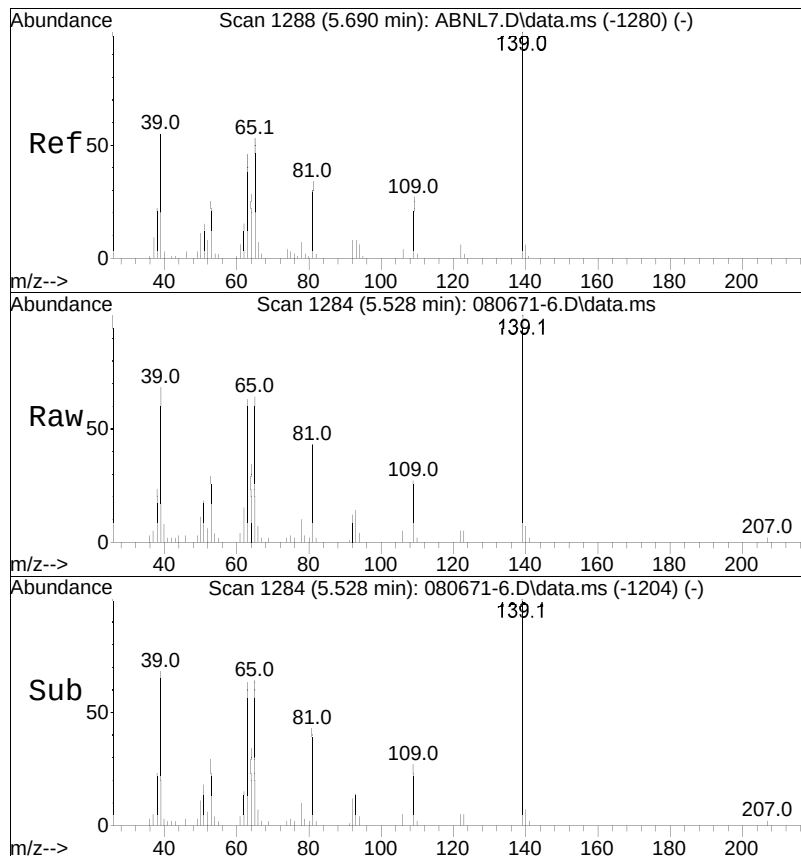
Ion Ratio Lower Upper

82 100

138 14.6 14.7 22.1#

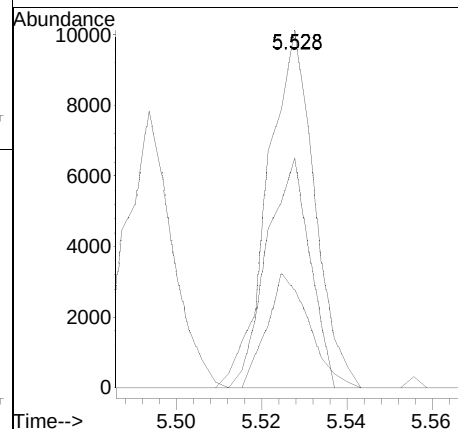
95 8.7 5.2 7.8#

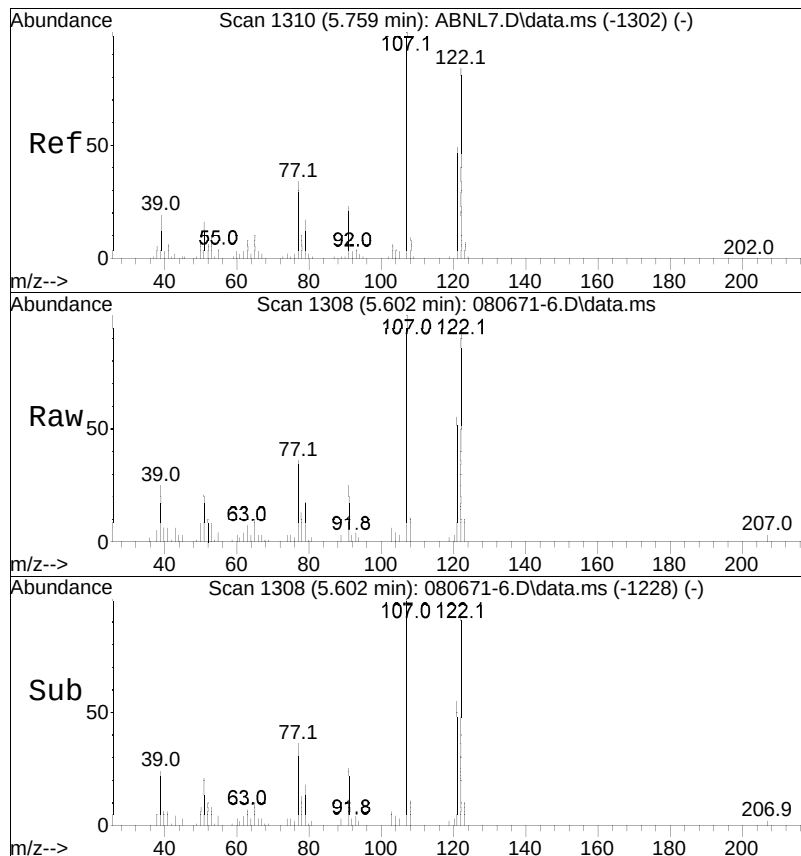




#22
 2-Nitrophenol
 Concen: 1.40 ug/ml
 RT: 5.528 min Scan# 1284
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

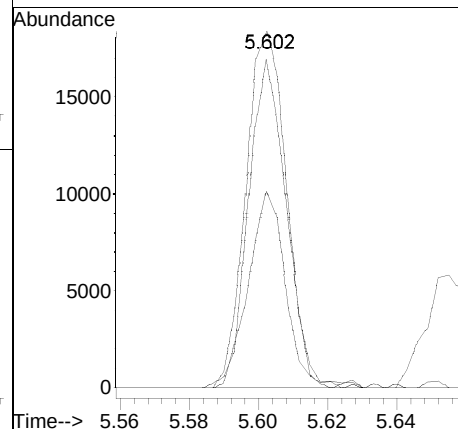
Tgt Ion:	139	Resp:	7760
Ion Ratio	Lower	Upper	
139	100		
109	29.1	19.4	29.0#
65	59.1	46.1	69.1

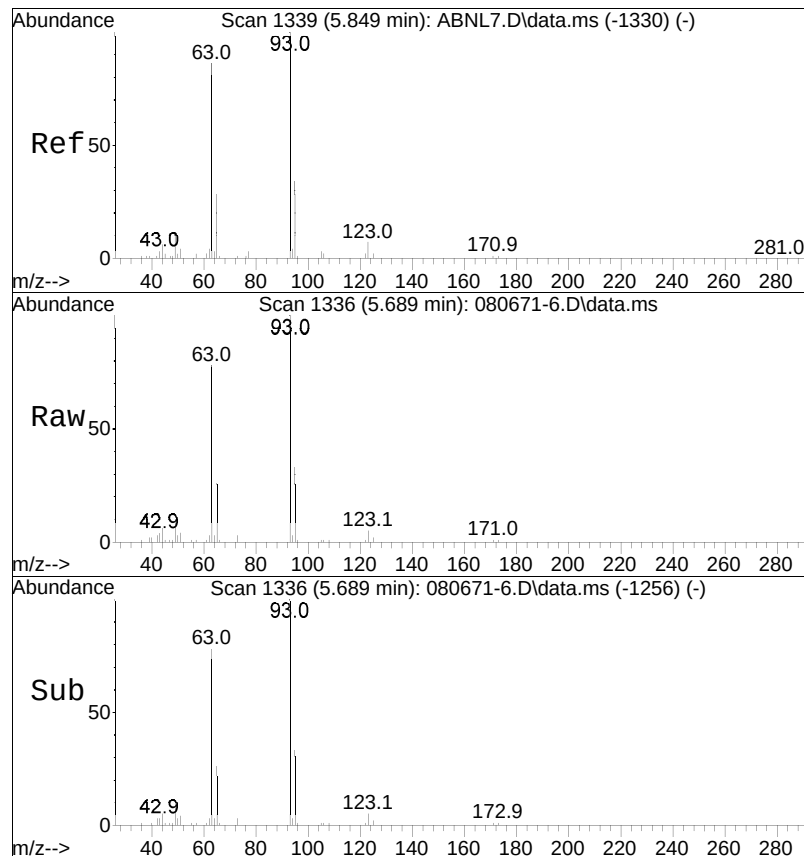




#23
 2,4-Dimethylphenol
 Concen: 1.36 ug/ml
 RT: 5.602 min Scan# 1308
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

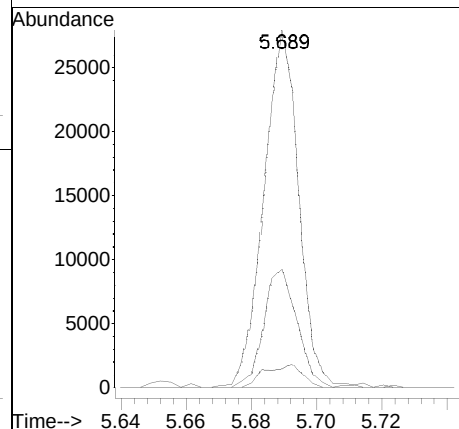
Tgt Ion	Ratio	Lower	Upper
107	100		
121	49.8	40.0	60.0
122	83.8	70.2	105.4

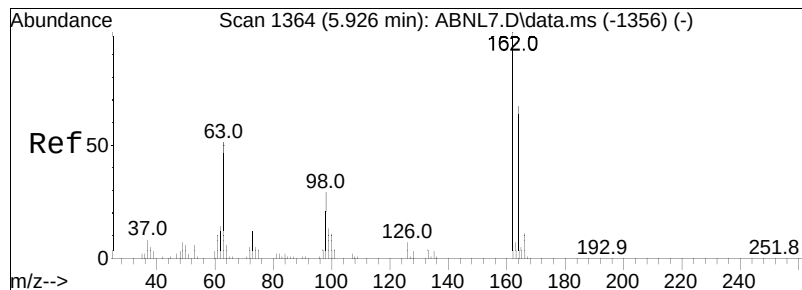




#24
 Bis(2-chloroethoxy)methane
 Concen: 1.51 ug/ml
 RT: 5.689 min Scan# 1336
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

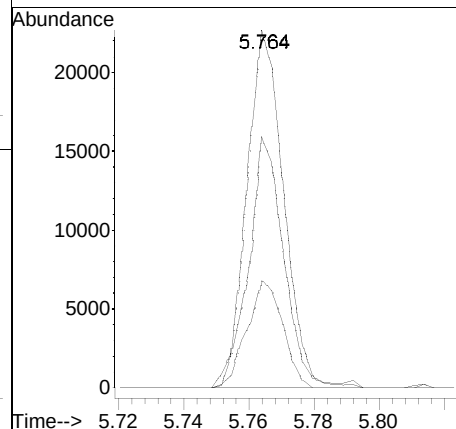
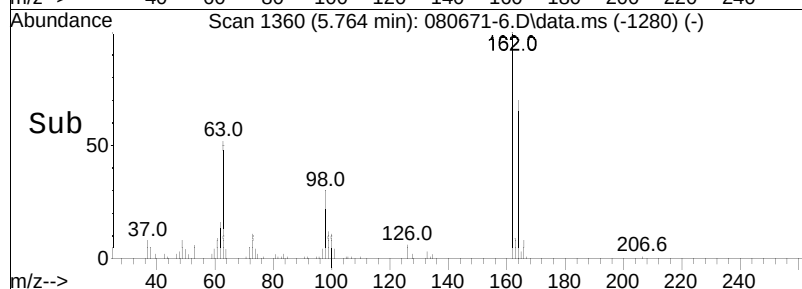
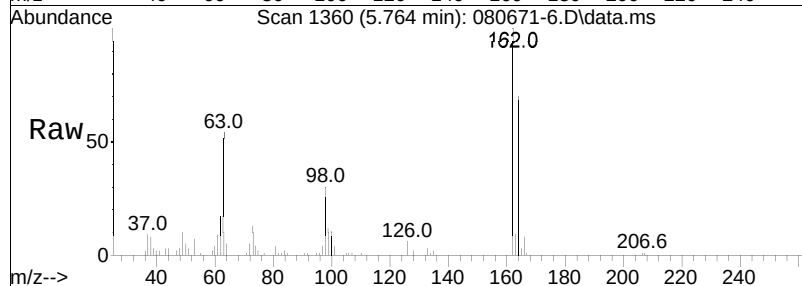
Tgt Ion	Ratio	Lower	Upper
93	100		
95	31.8	25.8	38.8
123	7.2	10.1	15.1

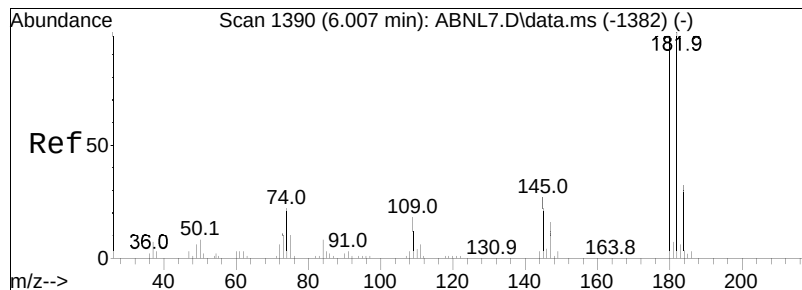




#25
 2,4-Dichlorophenol
 Concen: 1.55 ug/ml
 RT: 5.764 min Scan# 1360
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

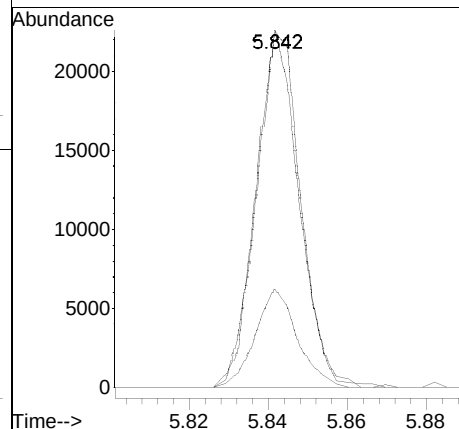
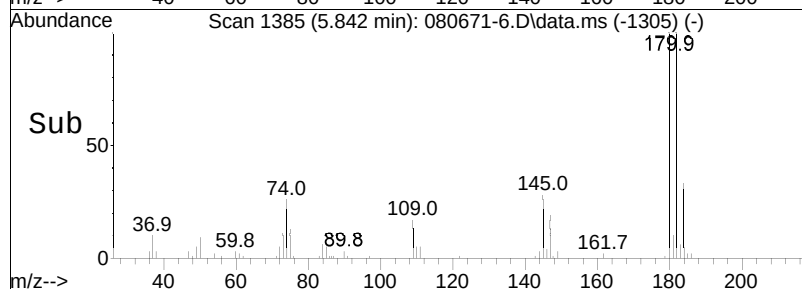
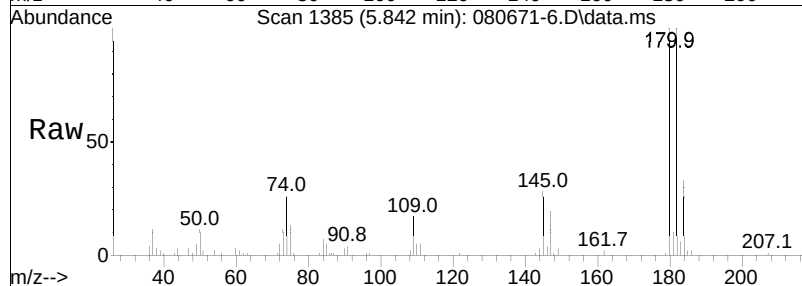
Tgt Ion	Ratio	Lower	Upper
162	100		
164	65.7	51.0	76.4
98	29.0	32.2	48.2#

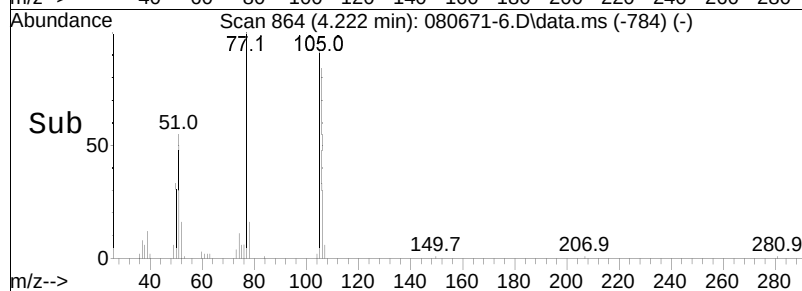
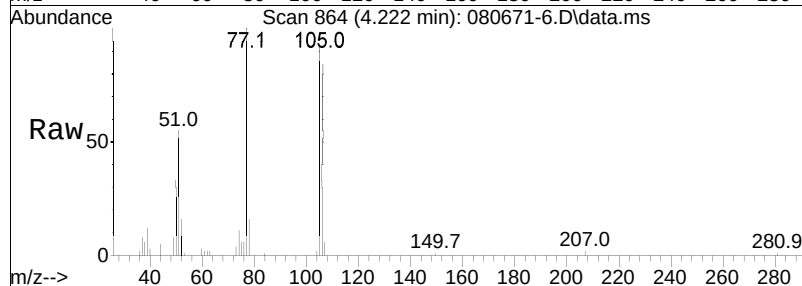
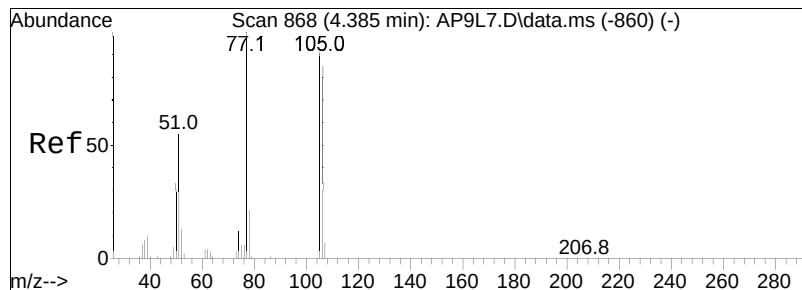




#26
 1,2,4-Trichlorobenzene
 Concen: 1.22 ug/ml
 RT: 5.842 min Scan# 1385
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.0	114.0
145	26.2	25.7	38.5





#28

Benzaldehyde

Concen: 1.70 ug/ml

RT: 4.222 min Scan# 864

Delta R.T. 0.000 min

Lab File: 080671-6.D

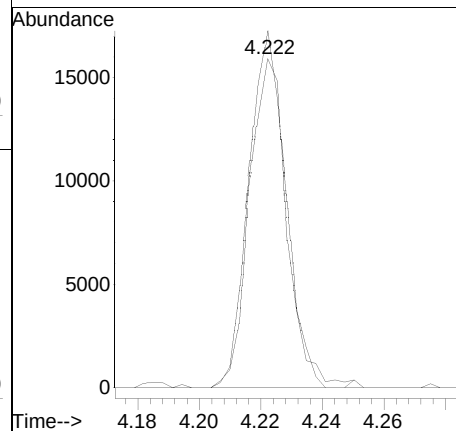
Acq: 19 Jun 2025 3:41 pm

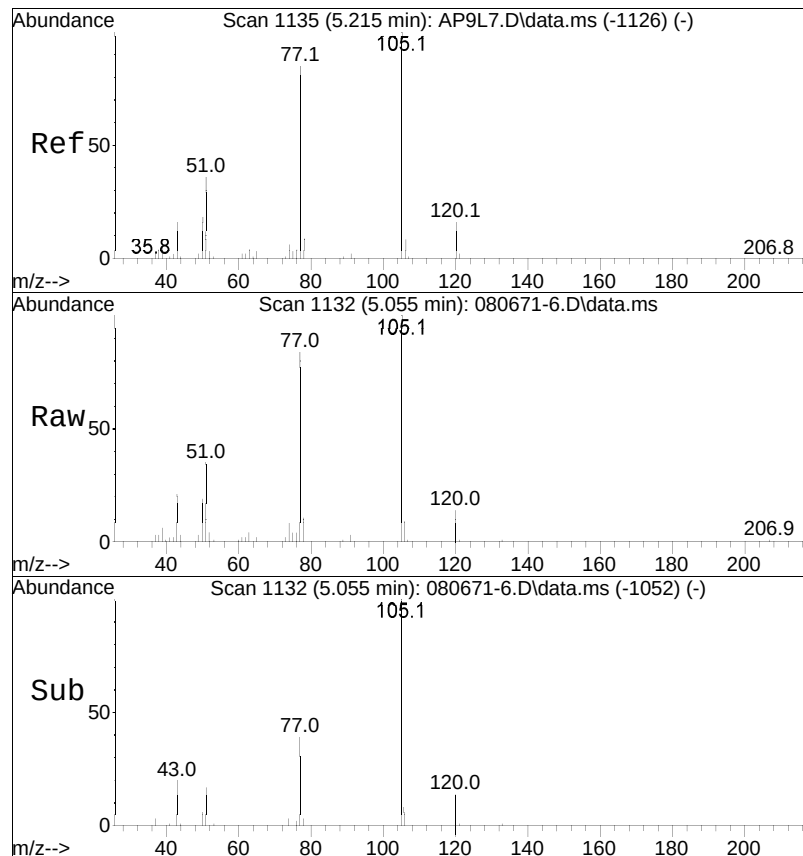
Tgt Ion:105 Resp: 13512

Ion Ratio Lower Upper

105 100

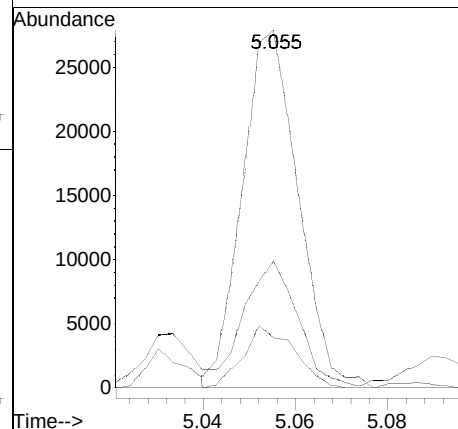
77 106.6 82.2 123.4

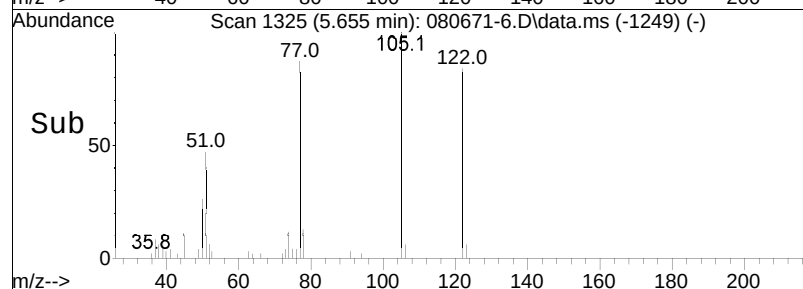
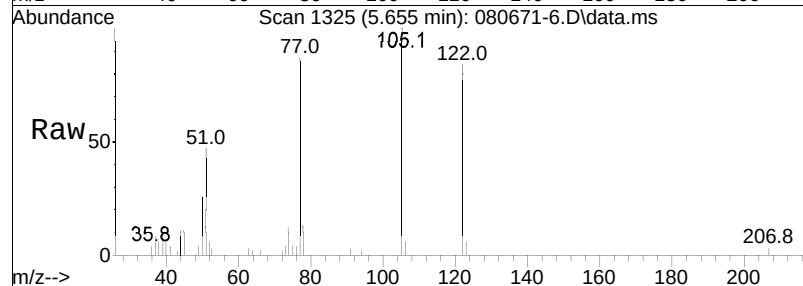
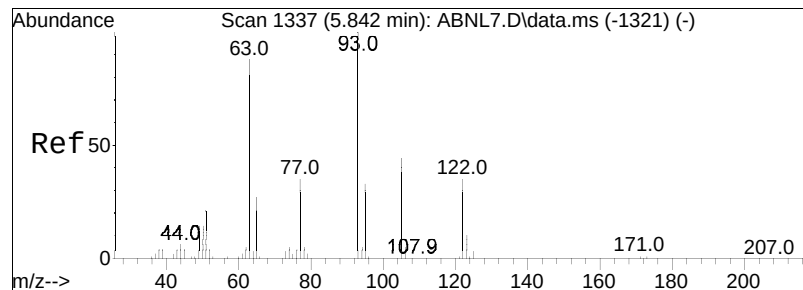




#29
 Acetophenone
 Concen: 1.66 ug/ml
 RT: 5.055 min Scan# 1132
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

Tgt	Ion:105	Resp:	23315
Ion	Ratio	Lower	Upper
105	100		
120	16.0	20.5	30.7#
51	34.0	34.9	52.3#





#39

Benzoic Acid

Concen: 2.24 ug/ml

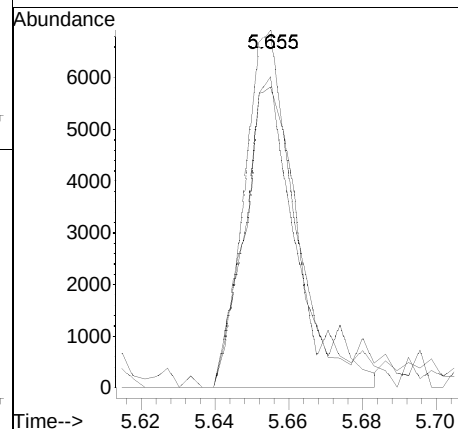
RT: 5.655 min Scan# 1325

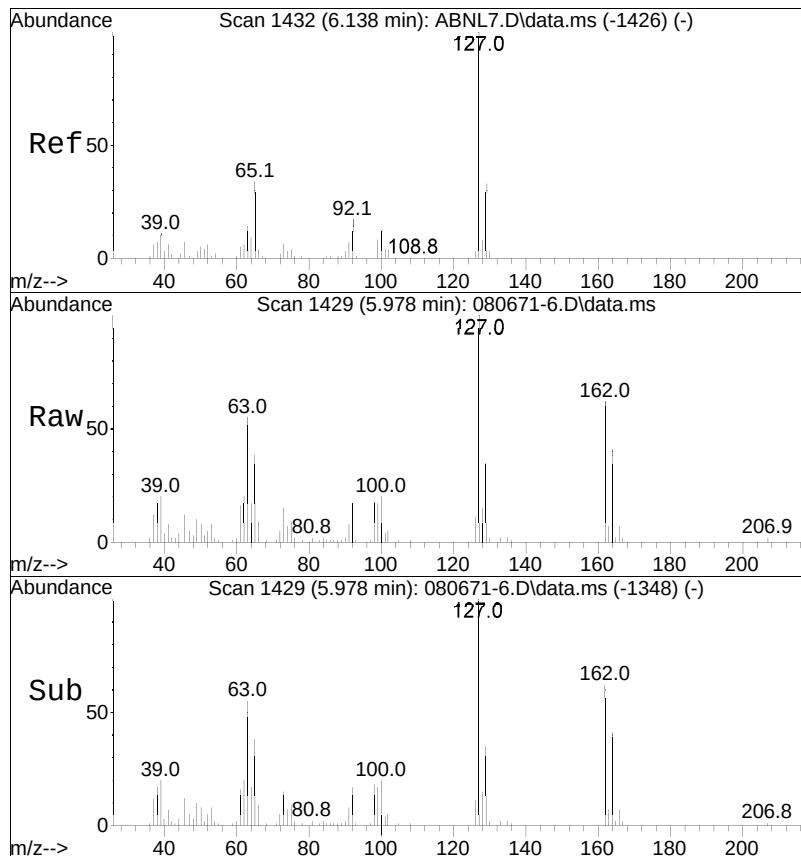
Delta R.T. -0.012 min

Lab File: 080671-6.D

Acq: 19 Jun 2025 3:41 pm

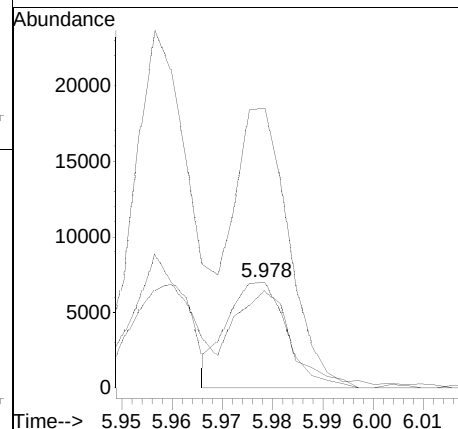
Tgt Ion:	105	Resp:	6698
Ion Ratio	Lower	Upper	
105	100		
122	87.1	59.9	89.9
77	88.7	60.1	90.1

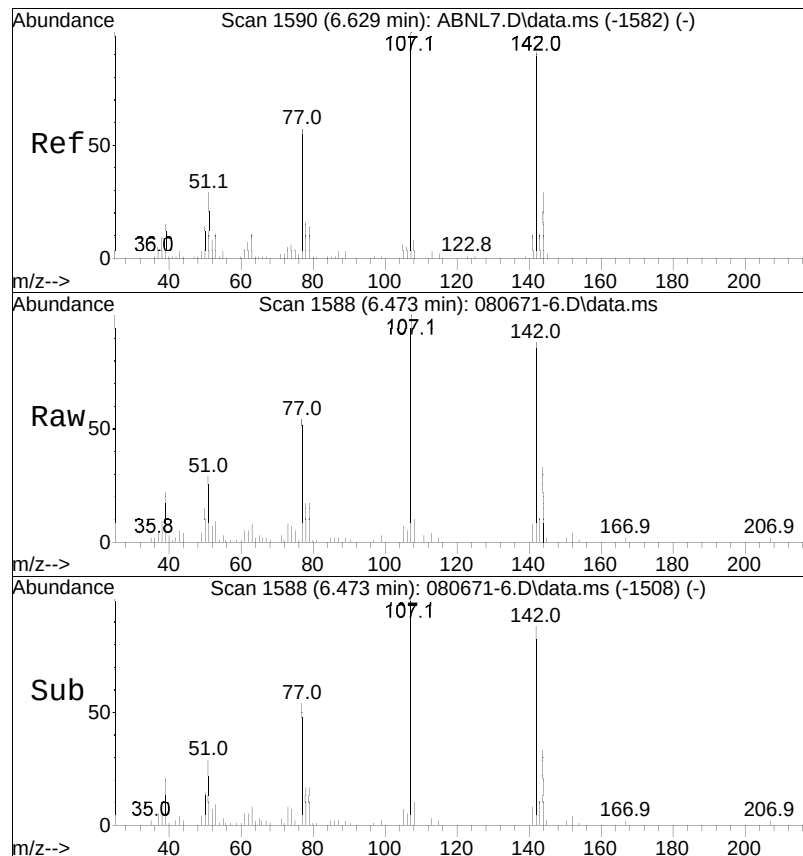




#40
 4-Chloroaniline
 Concen: 1.31 ug/ml
 RT: 5.978 min Scan# 1429
 Delta R.T. 0.003 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

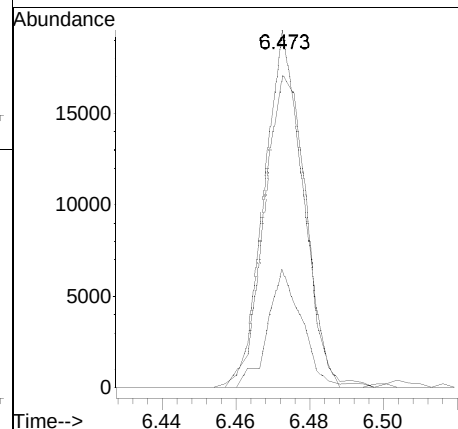
Tgt Ion:	65	Resp:	5795
Ion Ratio	Lower	Upper	
65	100		
127	241.1	237.6	356.4
129	85.5	76.3	114.5

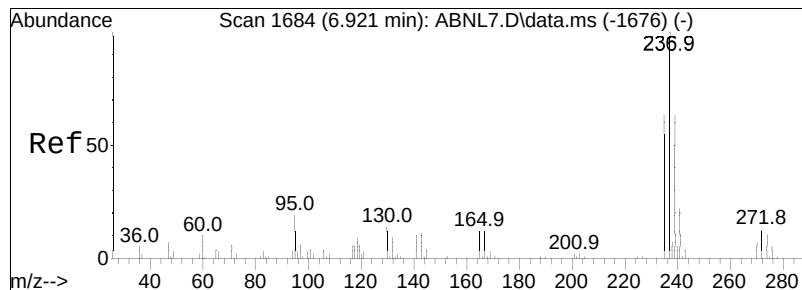




#42
 p-Chloro-m-cresol
 Concen: 1.59 ug/ml
 RT: 6.473 min Scan# 1588
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

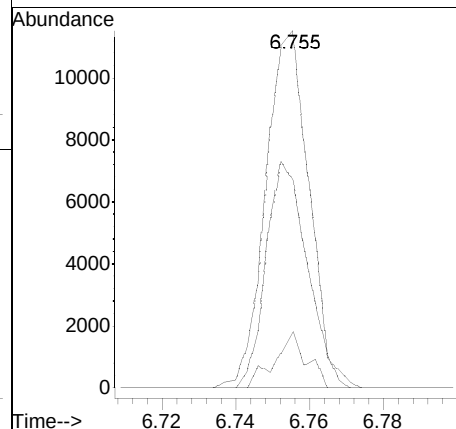
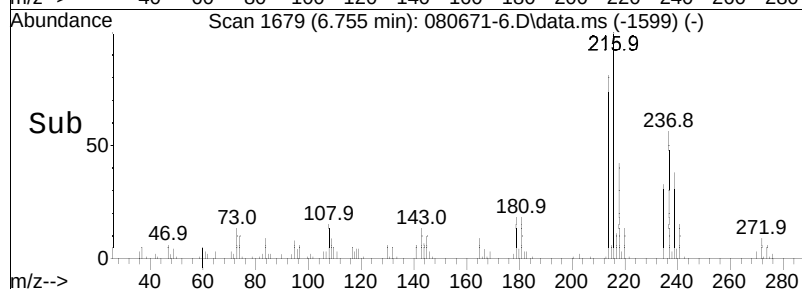
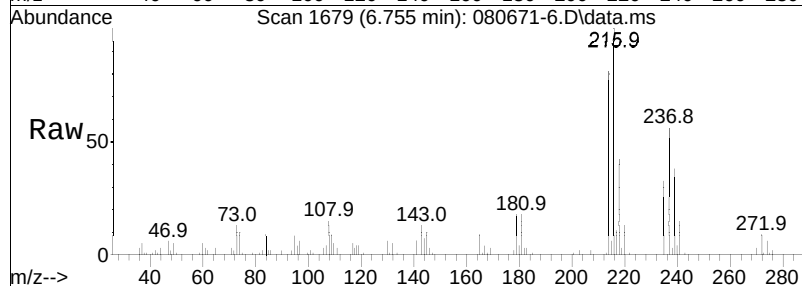
Tgt Ion:	107	Resp:	14285
Ion Ratio	Lower	Upper	
107	100		
144	29.6	20.9	31.3
142	93.3	66.1	99.1

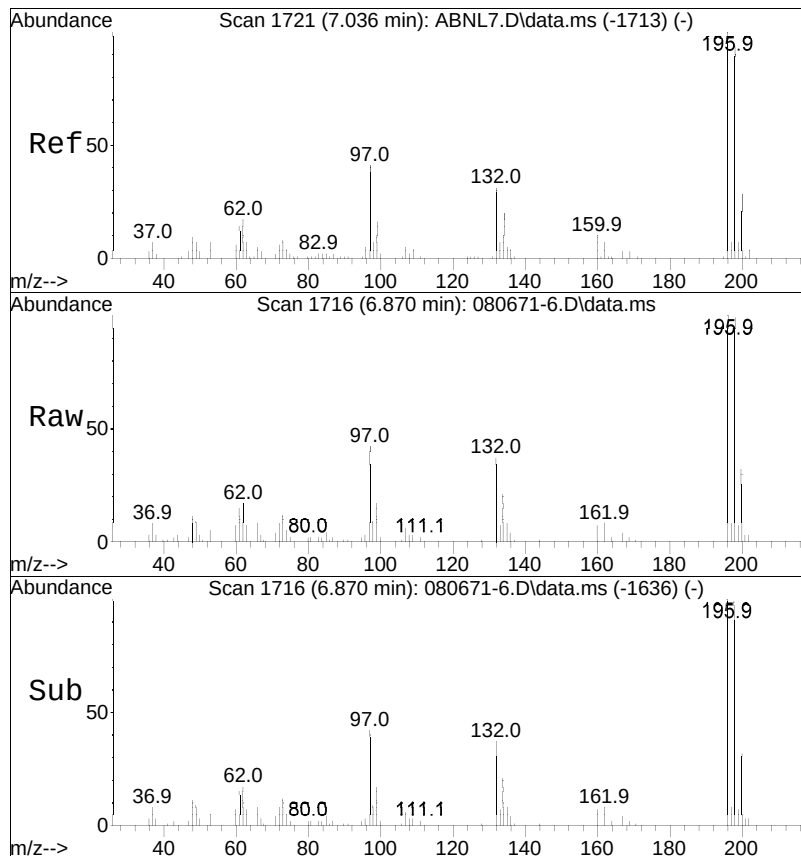




#45
 Hexachlorocyclopentadiene
 Concen: 0.87 ug/ml
 RT: 6.755 min Scan# 1679
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

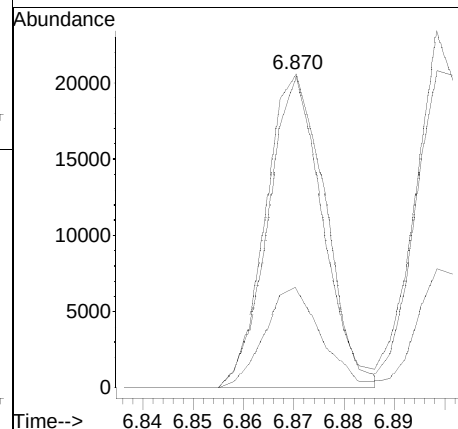
Tgt Ion	Ratio	Lower	Upper
237	100		
235	60.2	49.7	74.5
272	11.5	9.8	14.6

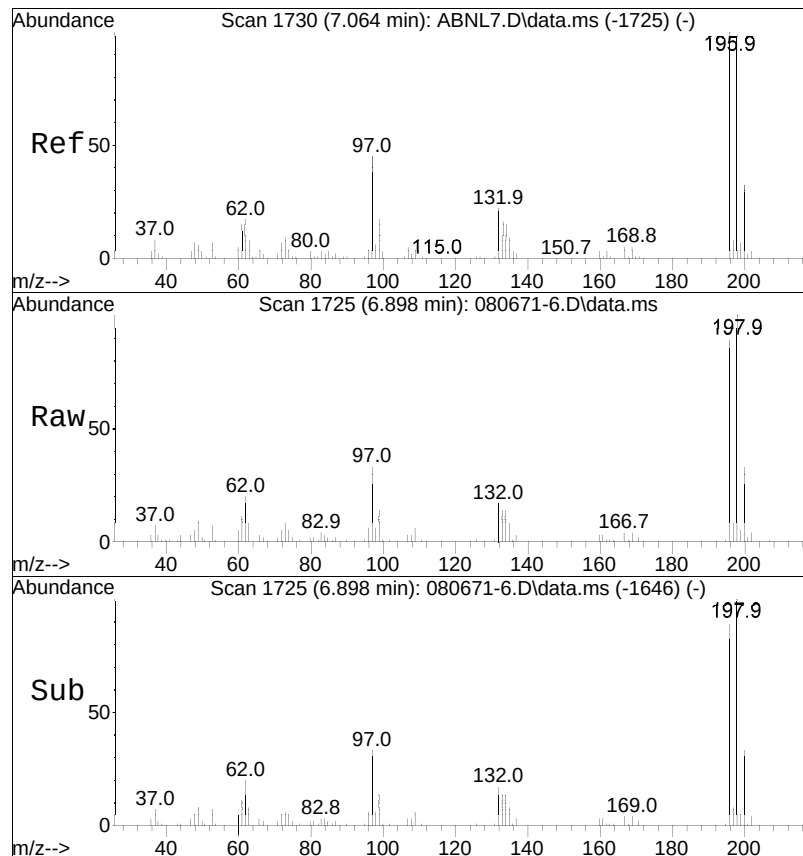




#46
 2,4,6-Trichlorophenol
 Concen: 1.80 ug/ml
 RT: 6.870 min Scan# 1716
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

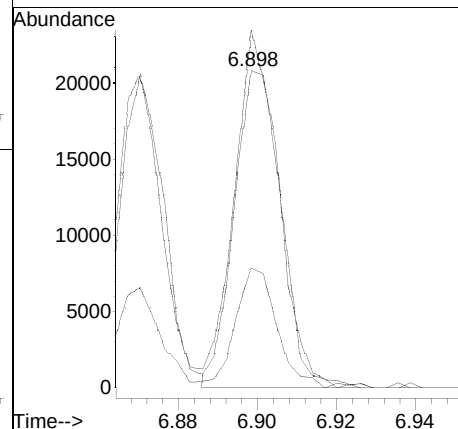
Tgt Ion:	196	Resp:	16841
Ion Ratio	Lower	Upper	
196	100		
198	92.1	77.5	116.3
200	30.8	23.8	35.6

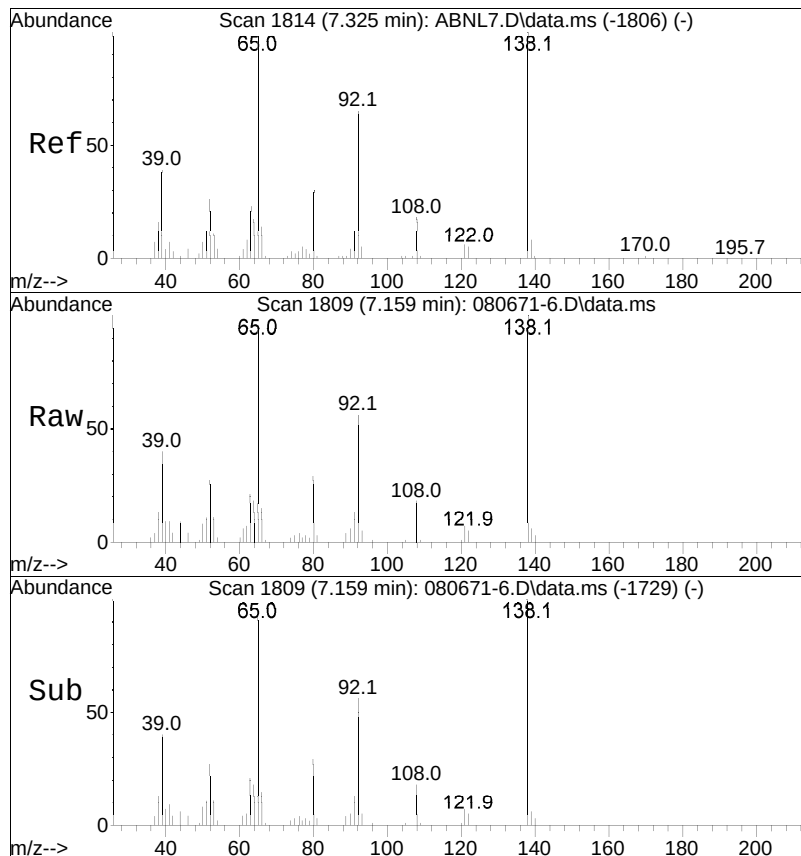




#47
 2,4,5-Trichlorophenol
 Concen: 1.65 ug/ml
 RT: 6.898 min Scan# 1725
 Delta R.T. -0.003 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

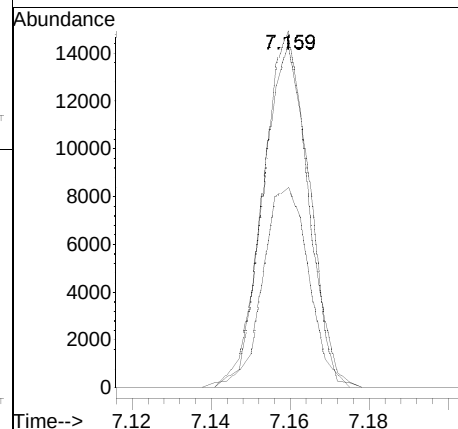
Tgt Ion:	196	Resp:	17116
Ion Ratio	Lower	Upper	
196	100		
200	32.1	25.4	38.0
198	106.9	78.0	117.0

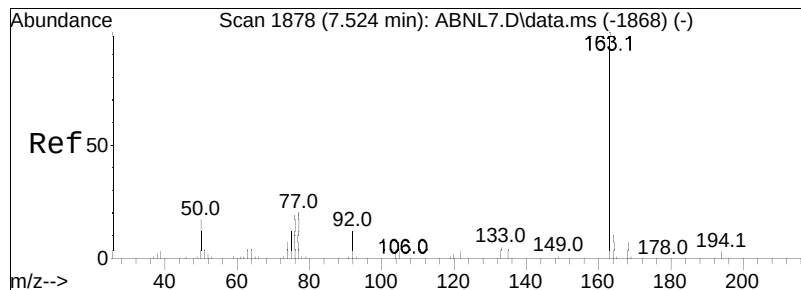




#50
 2-Nitroaniline
 Concen: 1.72 ug/ml
 RT: 7.159 min Scan# 1809
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

Tgt	Ion:138	Resp:	11645
Ion	Ratio	Lower	Upper
138	100		
92	58.2	53.5	80.3
65	100.0	86.3	129.5





#53

Dimethyl phthalate

Concen: 1.66 ug/ml

RT: 7.361 min Scan# 1874

Delta R.T. -0.000 min

Lab File: 080671-6.D

Acq: 19 Jun 2025 3:41 pm

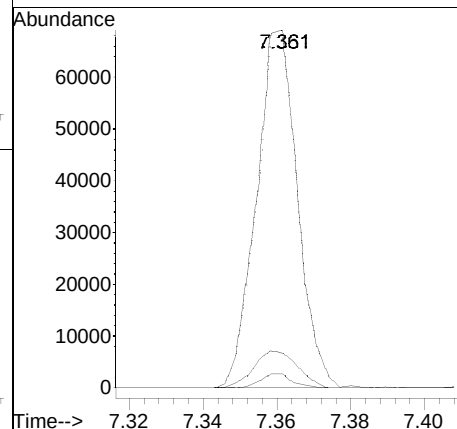
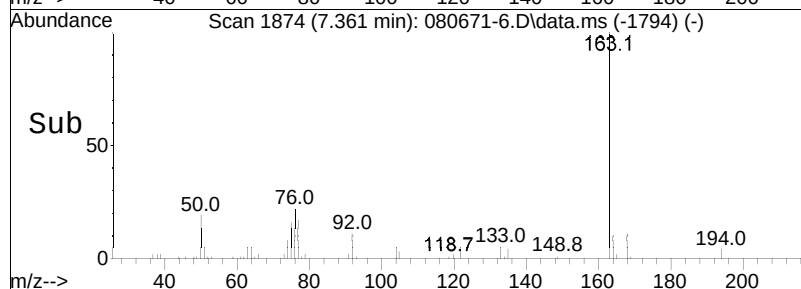
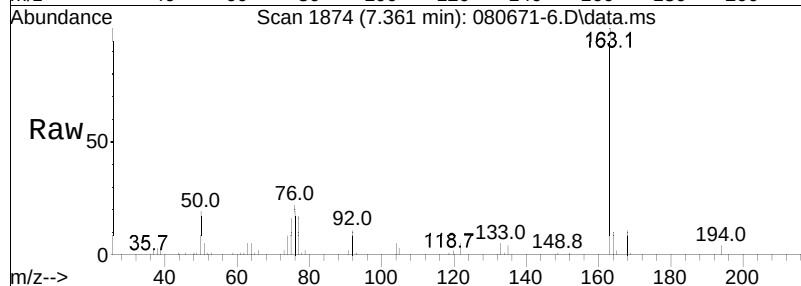
Tgt Ion:163 Resp: 53039

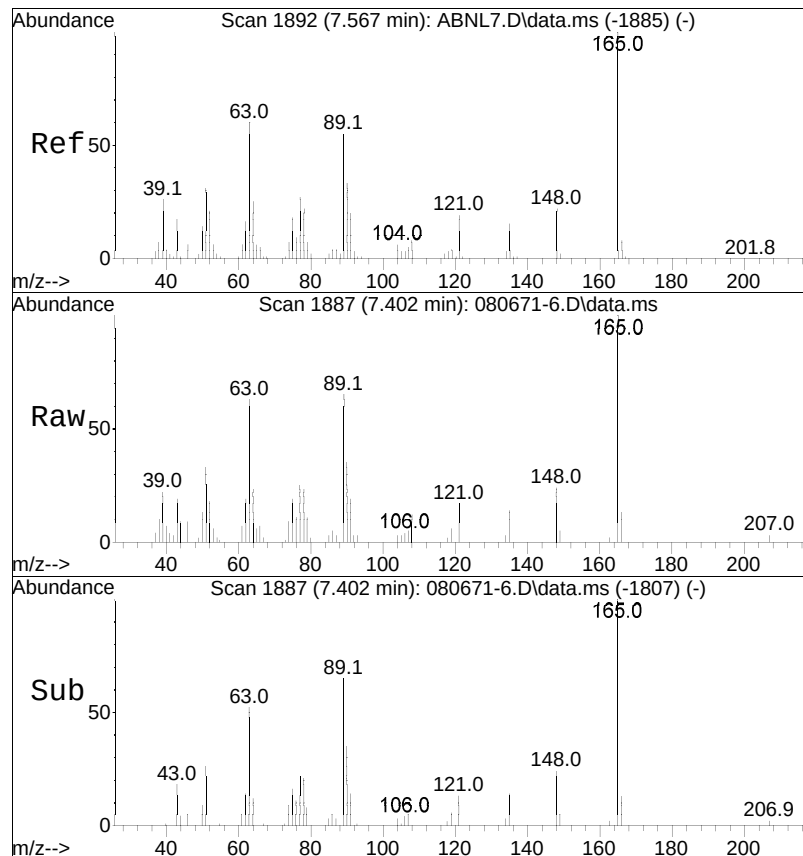
Ion Ratio Lower Upper

163 100

194 3.3 3.5 5.3#

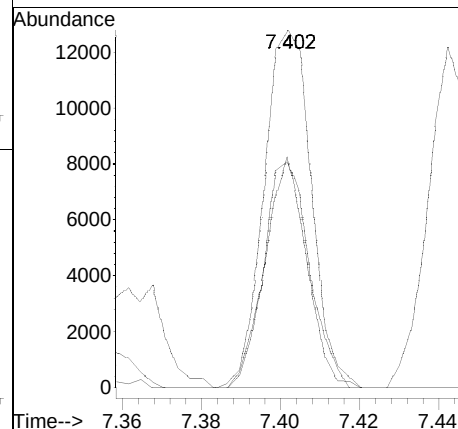
164 11.2 7.9 11.9

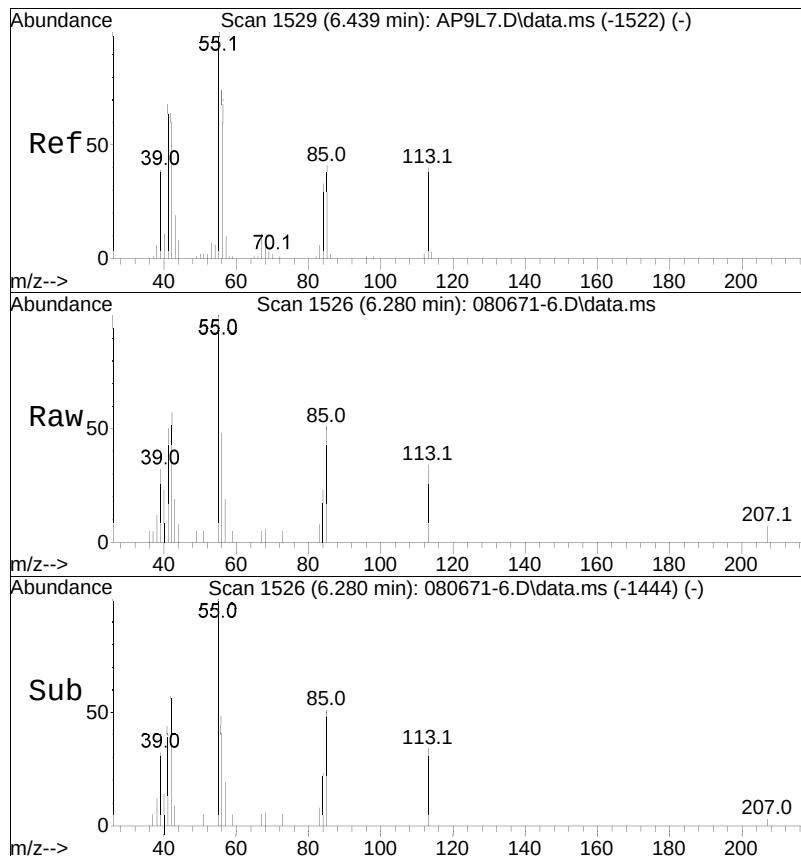




#55
 2,6-Dinitrotoluene
 Concen: 1.66 ug/ml
 RT: 7.402 min Scan# 1887
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

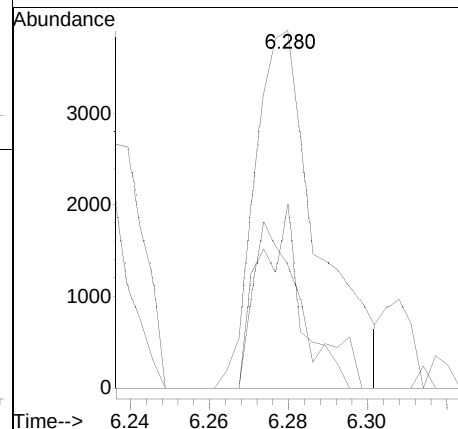
Tgt Ion:	165	Resp:	10655
Ion Ratio	Lower	Upper	
165	100		
89	56.5	54.2	81.2
63	61.7	64.2	96.2#

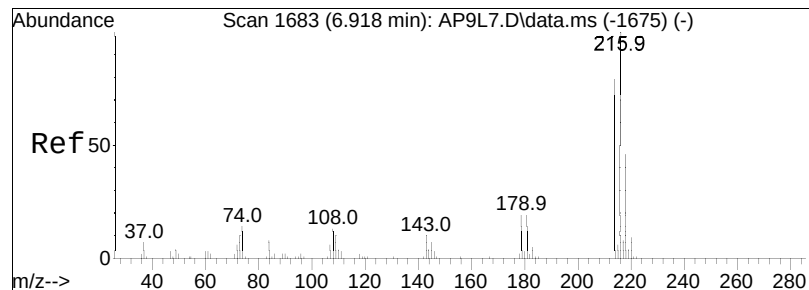




#62
 Caprolactam
 Concen: 0.81 ug/ml
 RT: 6.280 min Scan# 1526
 Delta R.T. 0.006 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

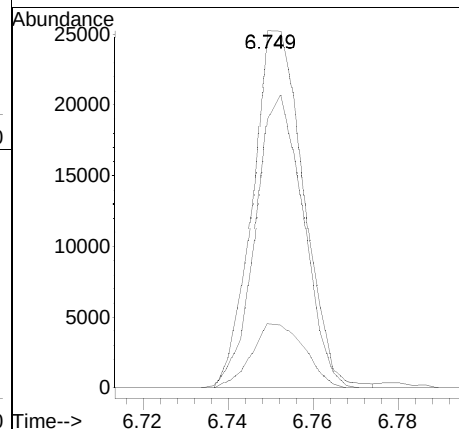
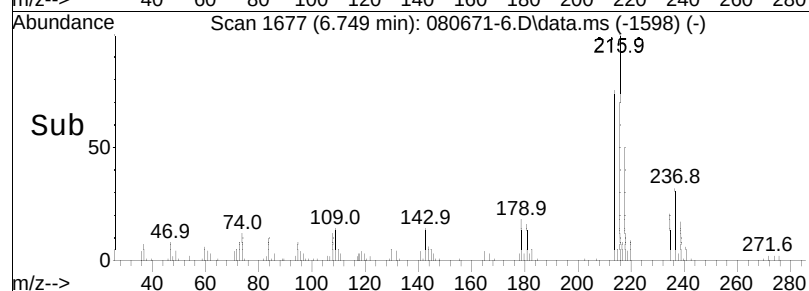
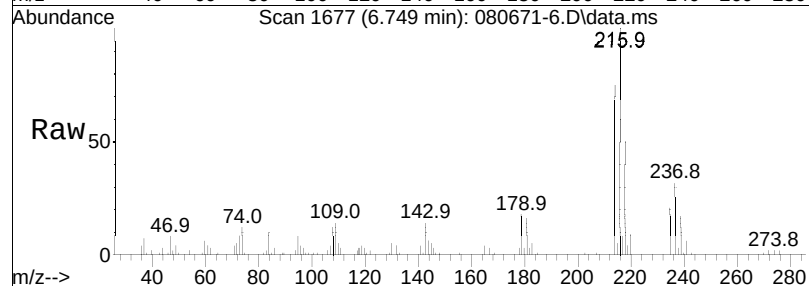
Tgt Ion:	55	Resp:	4333
Ion Ratio	Lower	Upper	
55	100		
85	33.8	19.8	29.6#
113	36.2	29.6	44.4

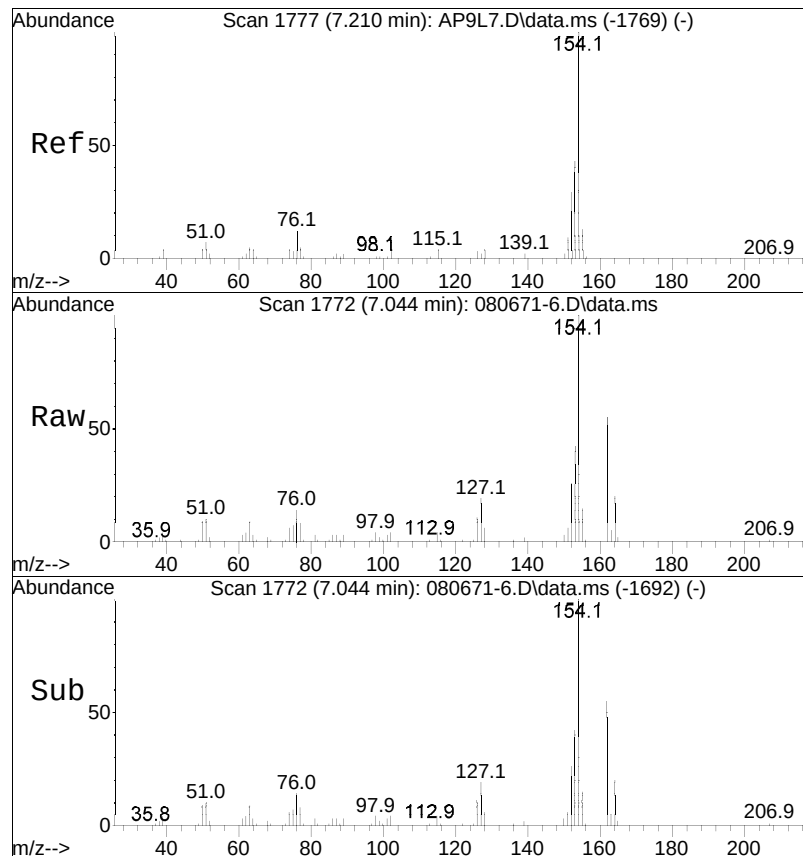




#63
 1,2,4,5-Tetrachlorobenzene
 Concen: 1.50 ug/ml
 RT: 6.749 min Scan# 1677
 Delta R.T. -0.003 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

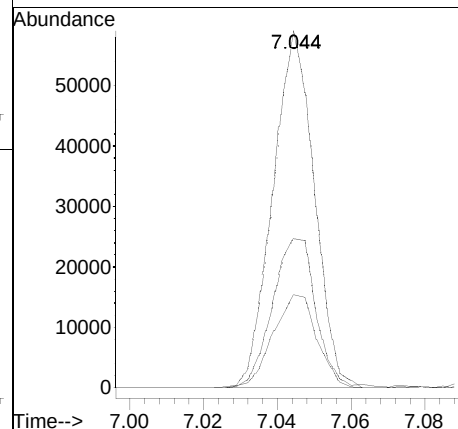
Tgt Ion	Ratio	Lower	Upper
216	100		
214	77.3	63.7	95.5
179	18.5	19.0	28.6

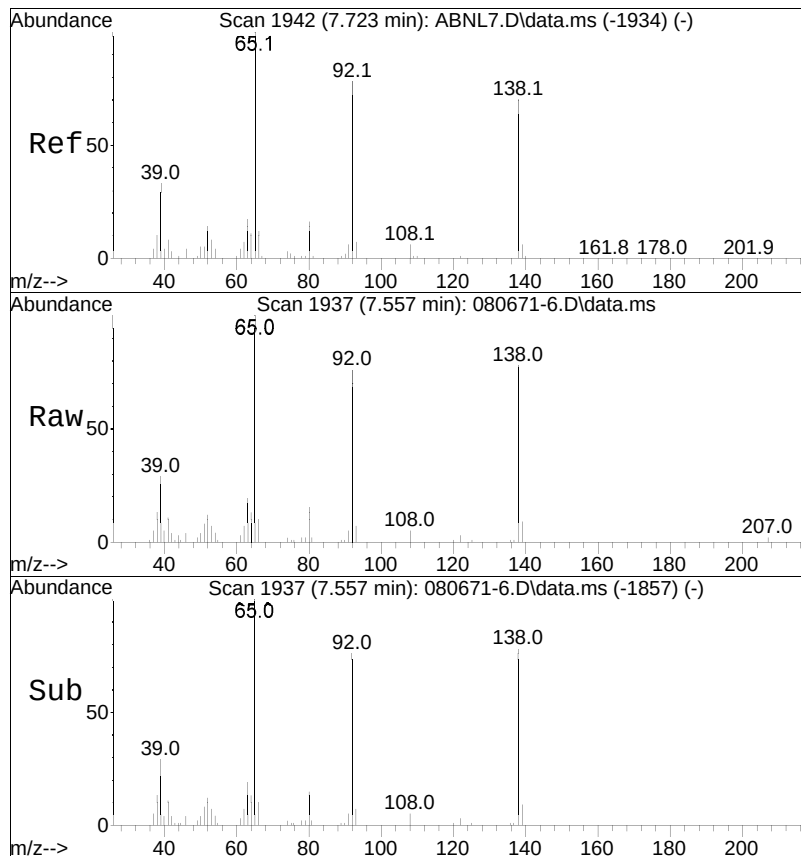




#64
 Biphenyl
 Concen: 1.52 ug/ml
 RT: 7.044 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

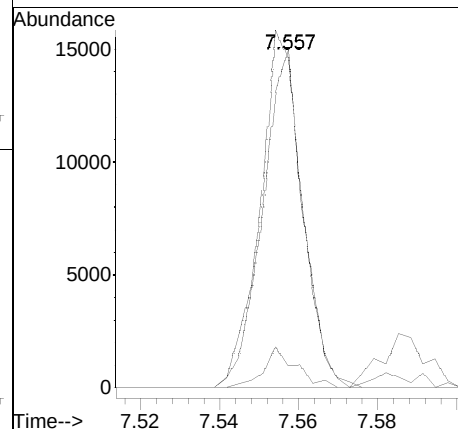
Tgt Ion:	154	Resp:	45792
Ion Ratio	Lower	Upper	
154	100		
153	44.3	32.3	48.5
152	27.8	22.5	33.7

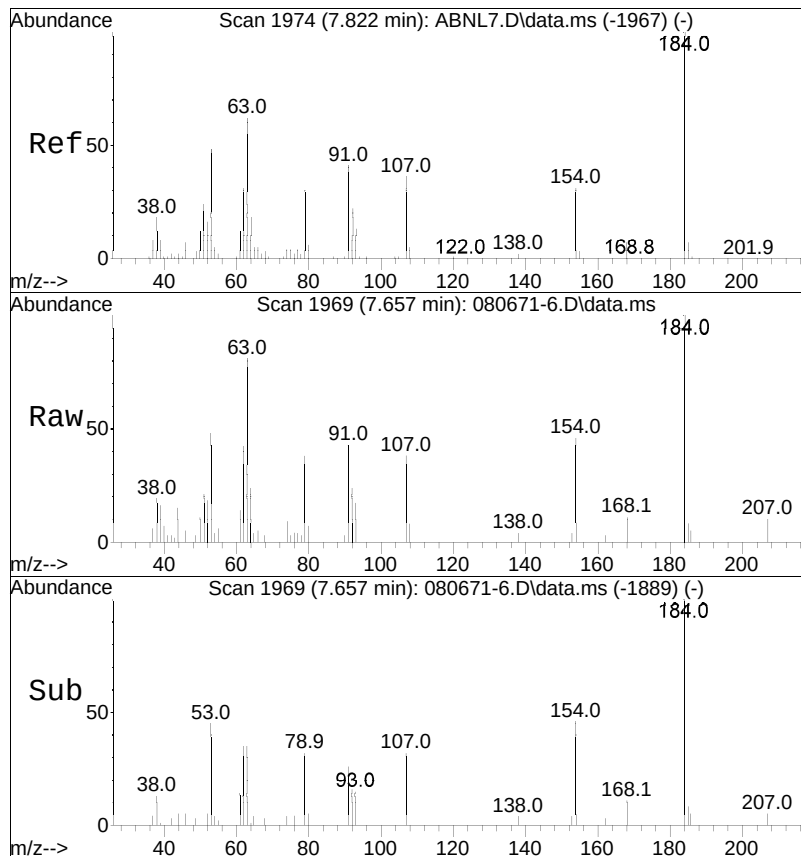




#66
 3-Nitroaniline
 Concen: 1.64 ug/ml
 RT: 7.557 min Scan# 1937
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

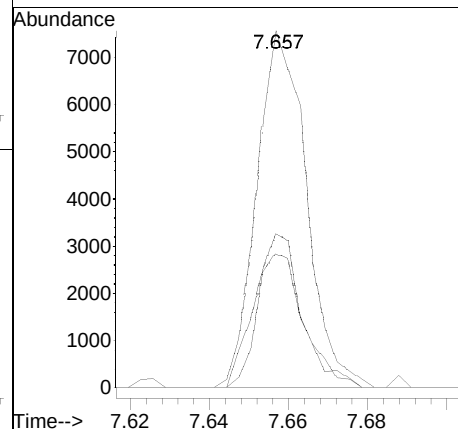
Tgt Ion:	138	Resp:	10614
Ion Ratio	Lower	Upper	
138	100		
92	107.8	93.4	140.2
108	9.5	9.5	14.3

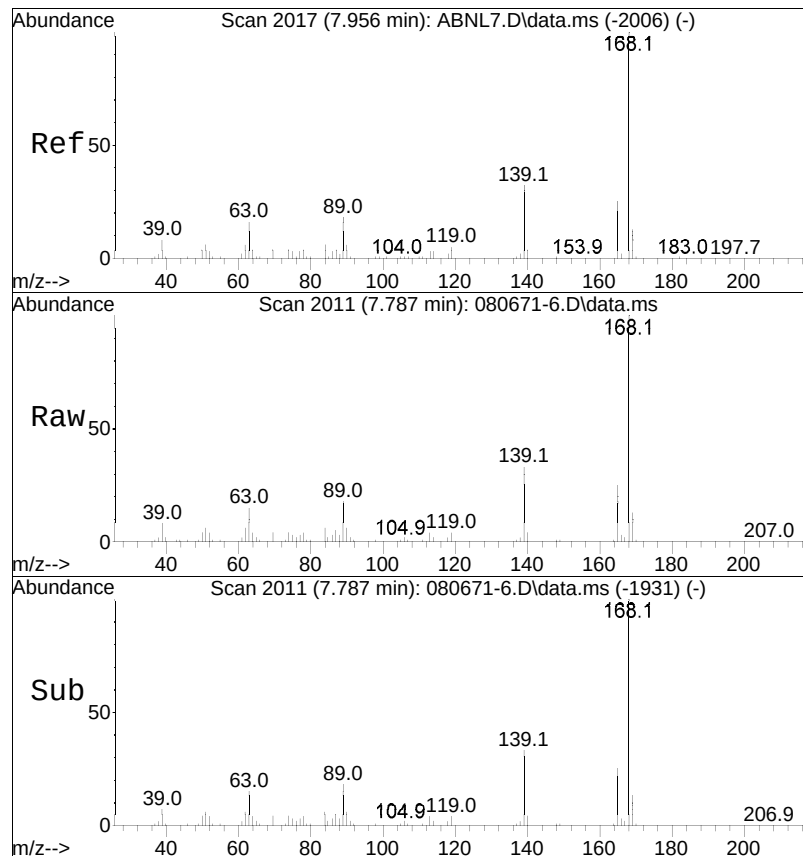




#68
 2,4-Dinitrophenol
 Concen: 1.63 ug/ml
 RT: 7.657 min Scan# 1969
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

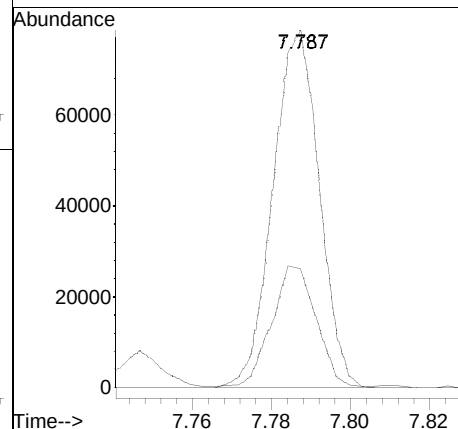
Tgt Ion:	184	Resp:	6546
Ion Ratio	Lower	Upper	
184	100		
107	35.6	37.7	56.5#
91	41.3	46.3	69.5#

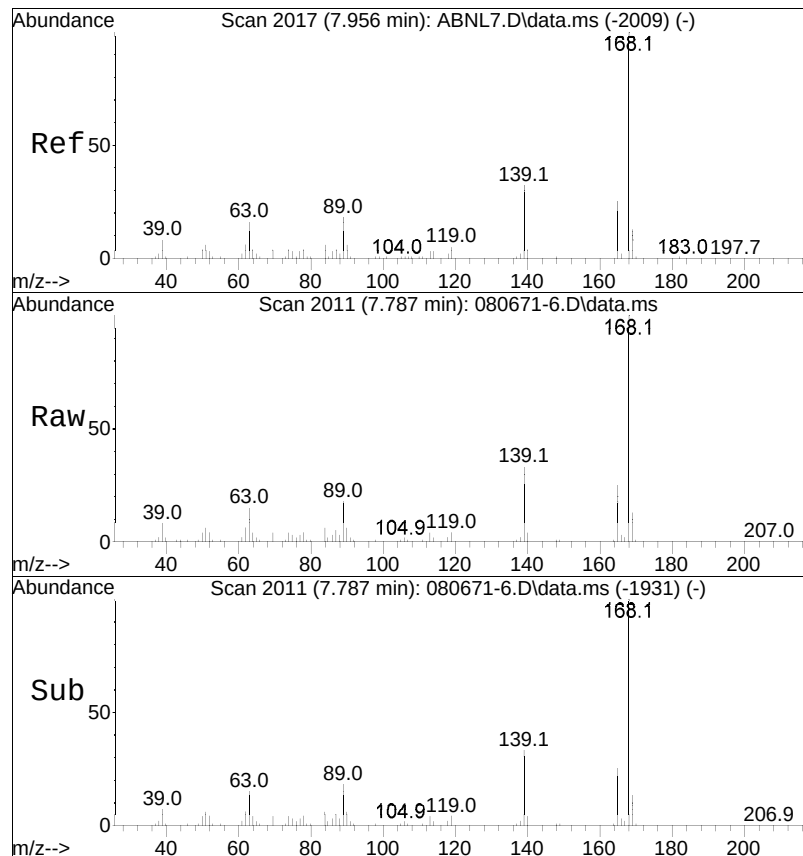




#69
 Dibenzofuran
 Concen: 1.42 ug/ml
 RT: 7.787 min Scan# 2011
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

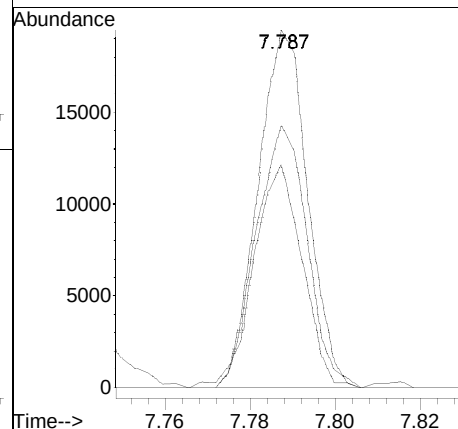
Tgt Ion	Ratio	Lower	Upper
168	100		
139	33.1	31.4	47.2

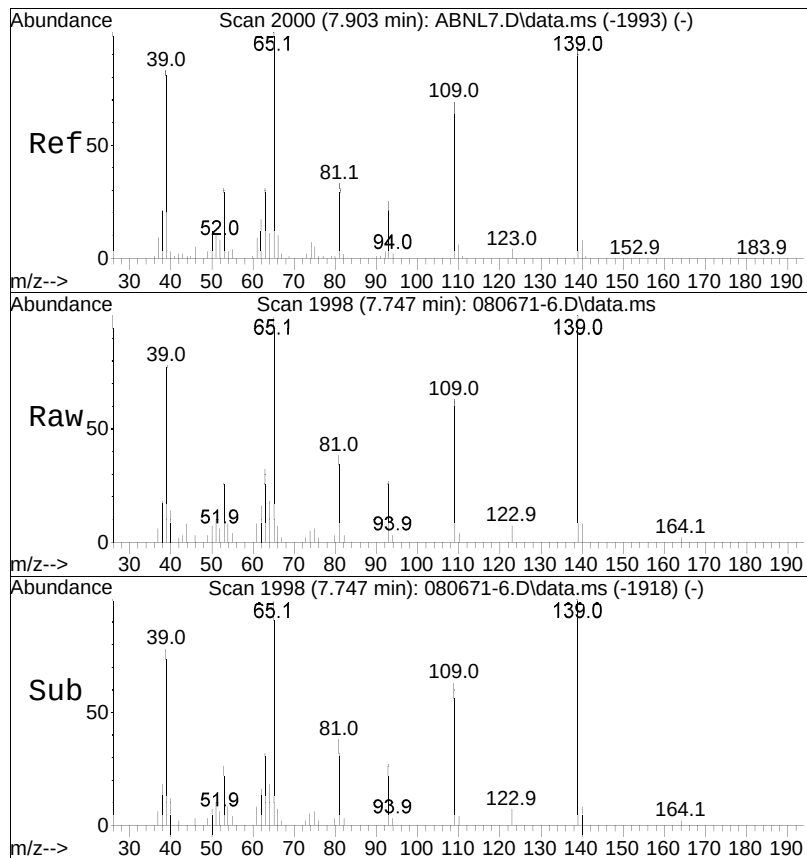




#70
 2,4-Dinitrotoluene
 Concen: 1.64 ug/ml
 RT: 7.787 min Scan# 2011
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

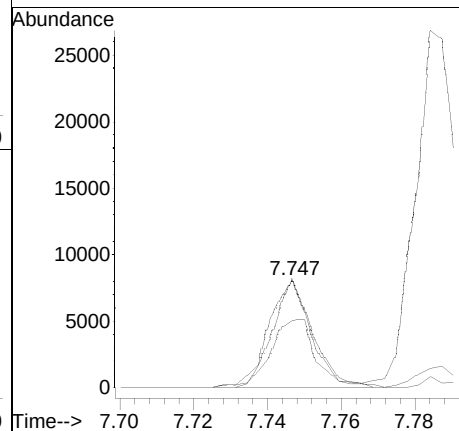
Tgt	Ion	Ratio	Resp	Lower	Upper
165	100		15700		
89	74.9	72.0		108.0	
63	60.8	52.7		79.1	

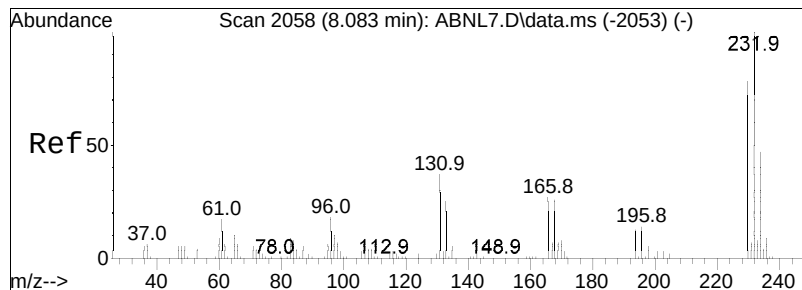




#71
 4-Nitrophenol
 Concen: 1.09 ug/ml
 RT: 7.747 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

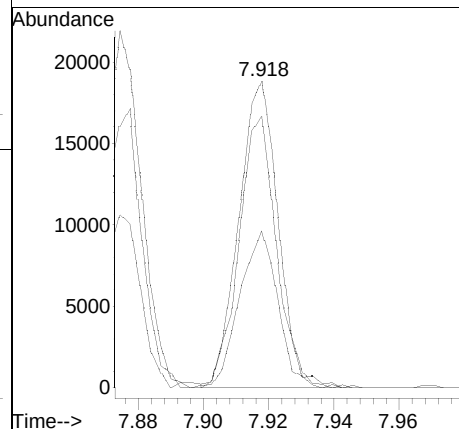
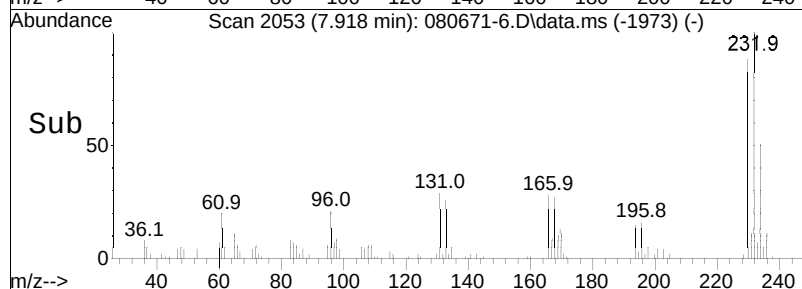
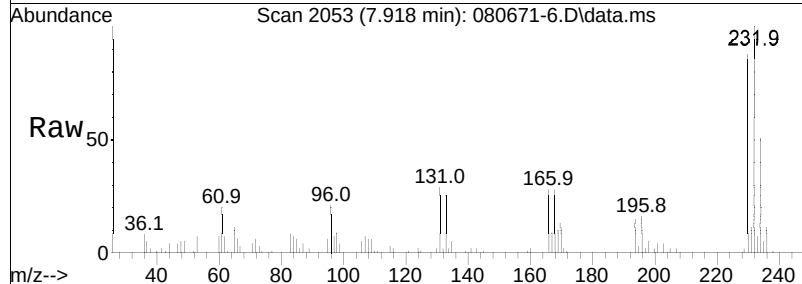
Tgt Ion	Ratio	Lower	Upper
65	100		
109	67.7	47.4	71.2
139	94.5	76.6	115.0

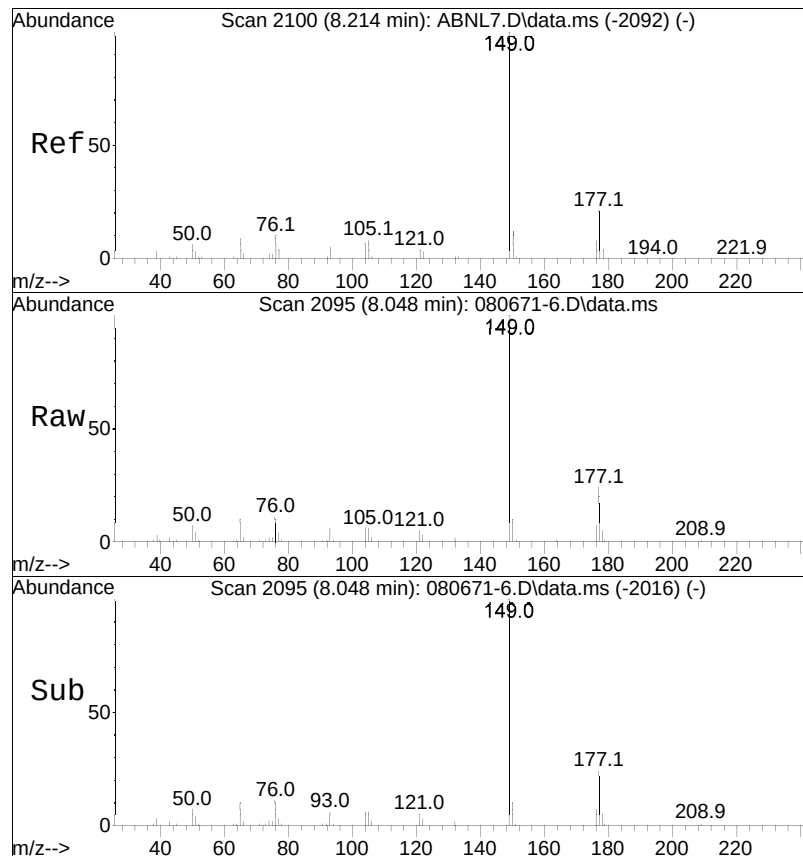




#73
 2,3,4,6-Tetrachlorophenol
 Concen: 1.67 ug/ml
 RT: 7.918 min Scan# 2053
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

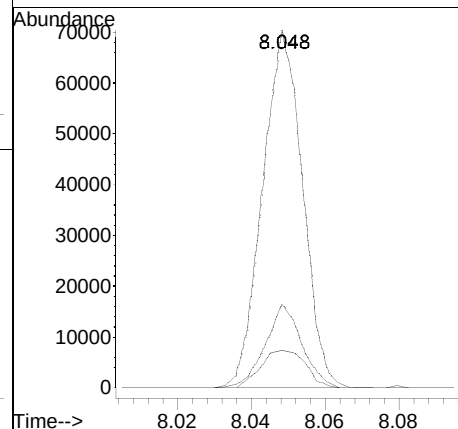
Tgt Ion	Ratio	Resp	Lower	Upper
232	100	15806		
230	84.8		61.8	92.8
234	49.8		36.2	54.2

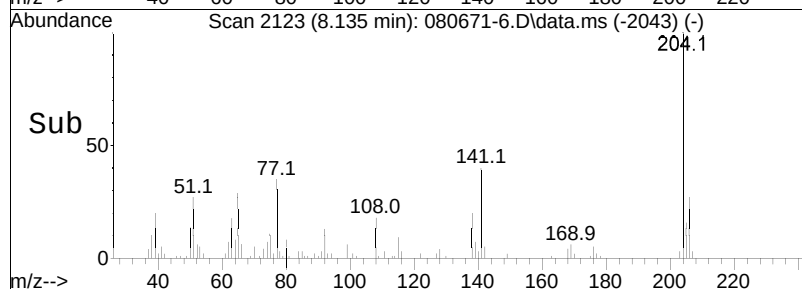
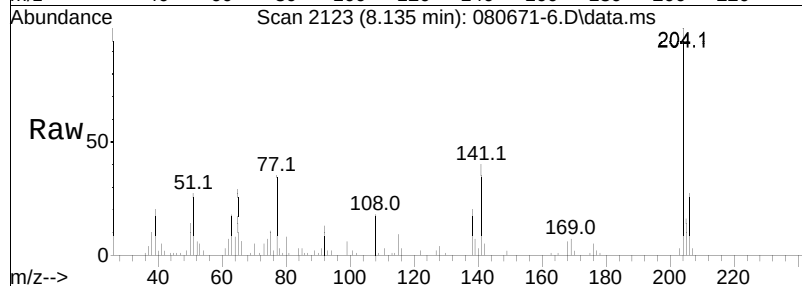
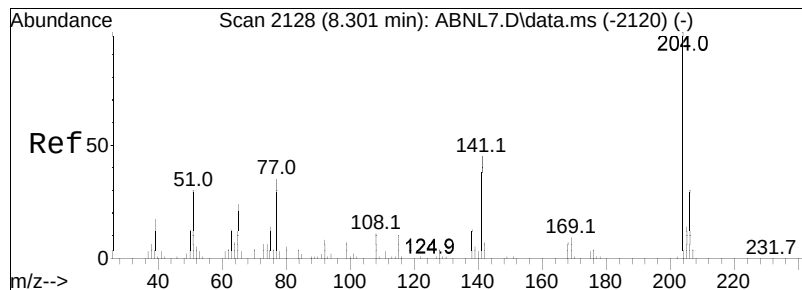




#74
 Diethyl phthalate
 Concen: 1.57 ug/ml
 RT: 8.048 min Scan# 2095
 Delta R.T. -0.003 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

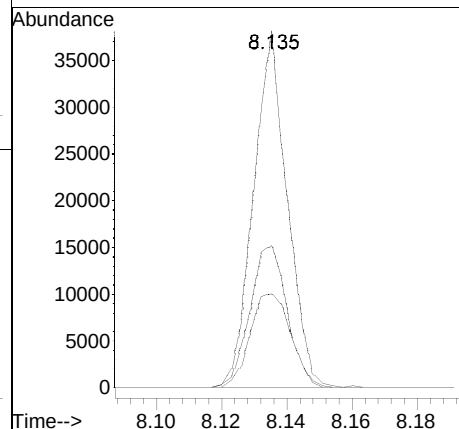
Tgt Ion	Ratio	Lower	Upper
149	100		
177	21.5	16.1	24.1
150	11.9	9.4	14.2

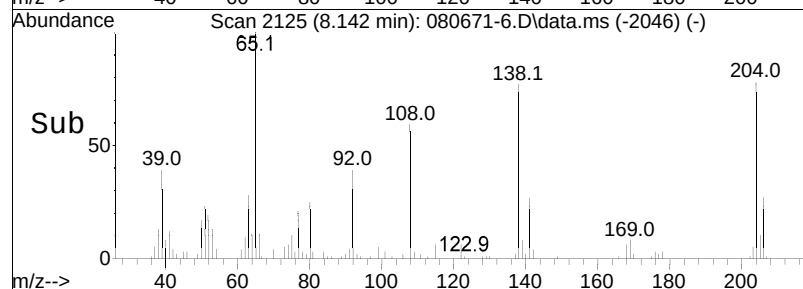
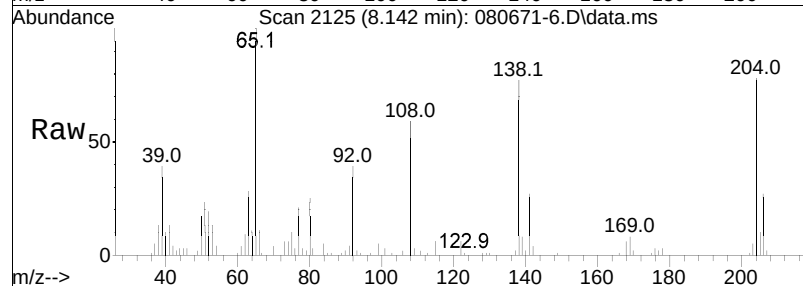
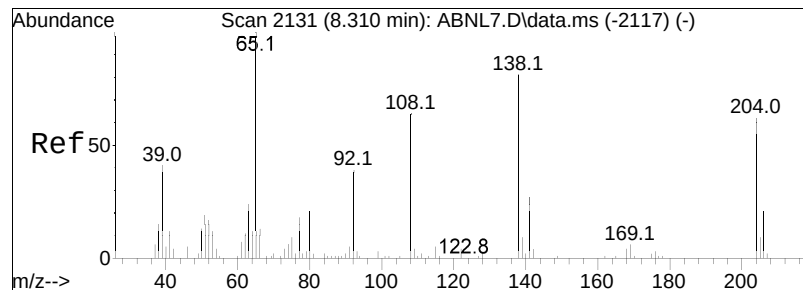




#76
 4-Chlorophenyl phenyl ether
 Concen: 1.51 ug/ml
 RT: 8.135 min Scan# 2123
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.0	25.8	38.6
141	44.3	53.6	80.4#





#77

4-Nitroaniline

Concen: 1.63 ug/ml

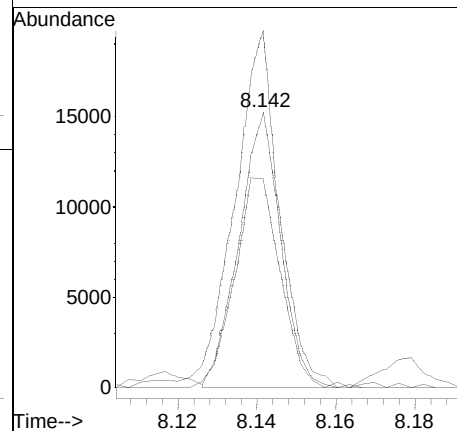
RT: 8.142 min Scan# 2125

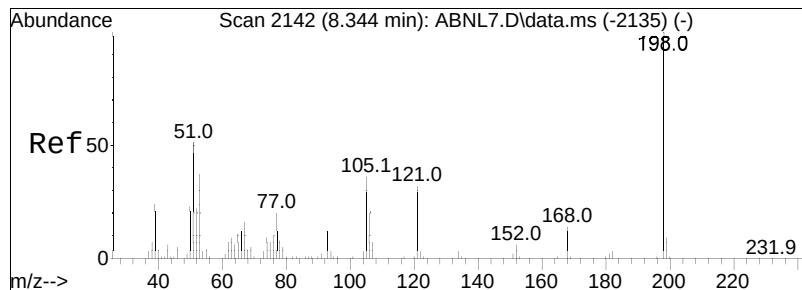
Delta R.T. -0.003 min

Lab File: 080671-6.D

Acq: 19 Jun 2025 3:41 pm

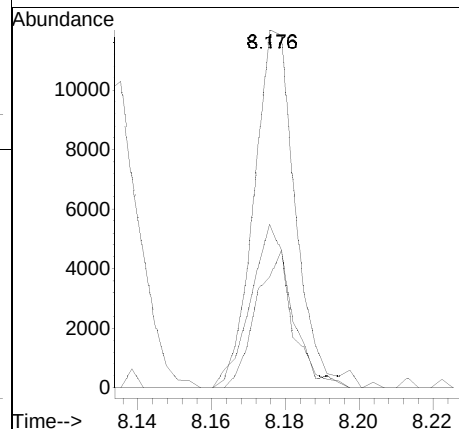
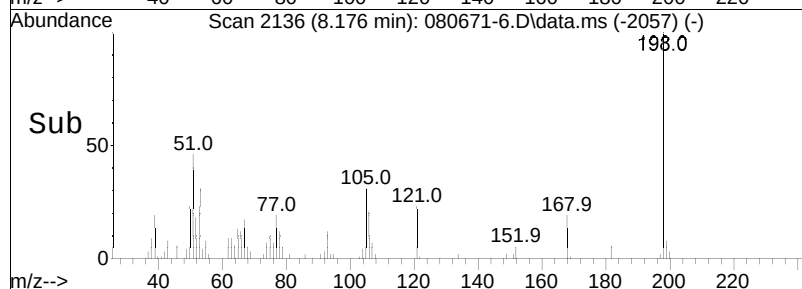
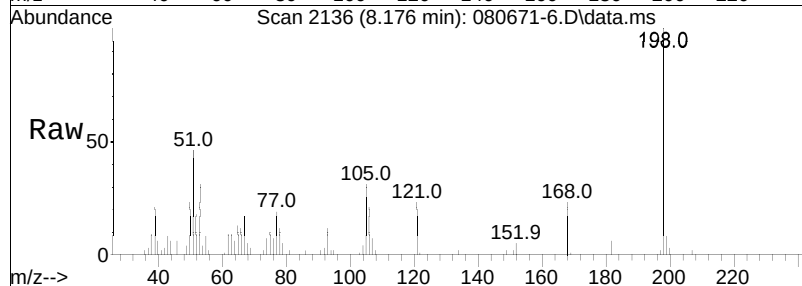
Tgt Ion	Ratio	Lower	Upper
138	100		
108	83.3	52.1	78.1#
65	140.5	115.0	172.6

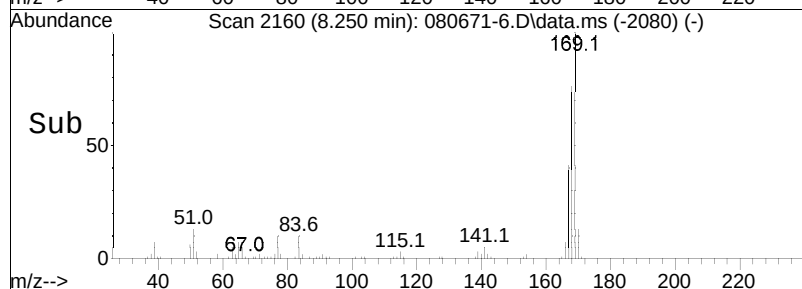
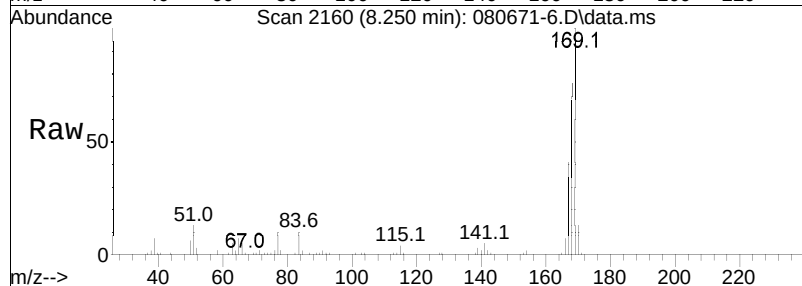
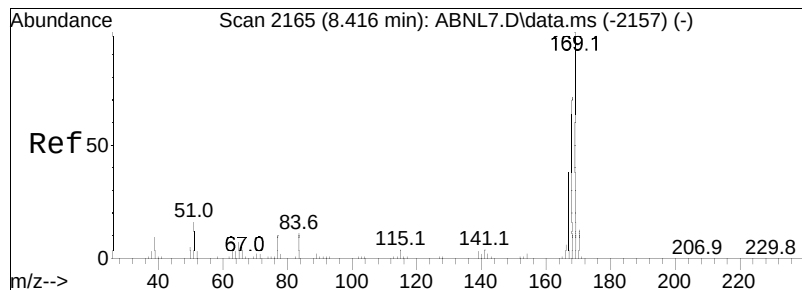




#78
 4,6-Dinitro-o-cresol
 Concen: 1.59 ug/ml
 RT: 8.176 min Scan# 2136
 Delta R.T. -0.003 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

Tgt Ion	Ratio	Lower	Upper
198	100		
51	45.3	76.0	114.0#
105	34.6	45.6	68.4#





#79

NDPA/DPA

Concen: 1.58 ug/ml

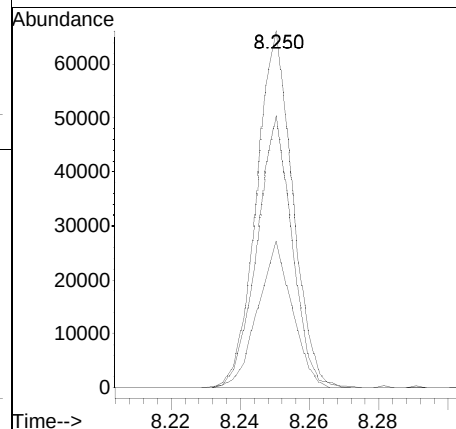
RT: 8.250 min Scan# 2160

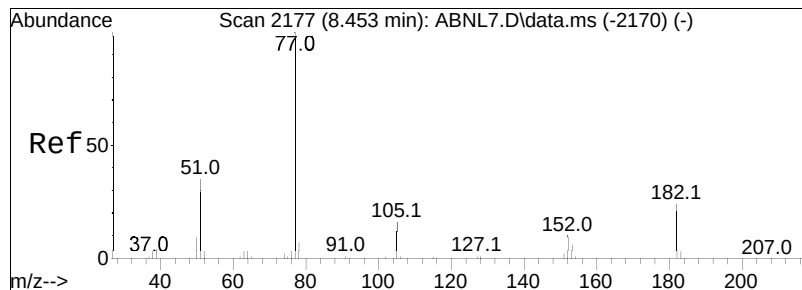
Delta R.T. 0.000 min

Lab File: 080671-6.D

Acq: 19 Jun 2025 3:41 pm

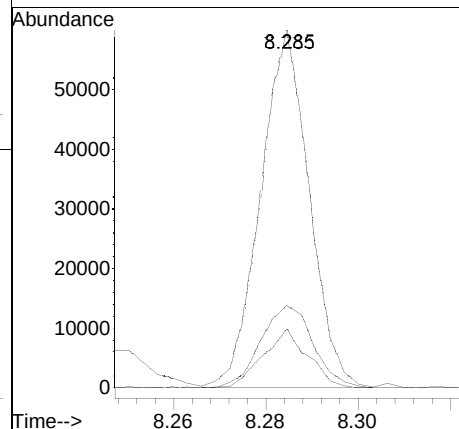
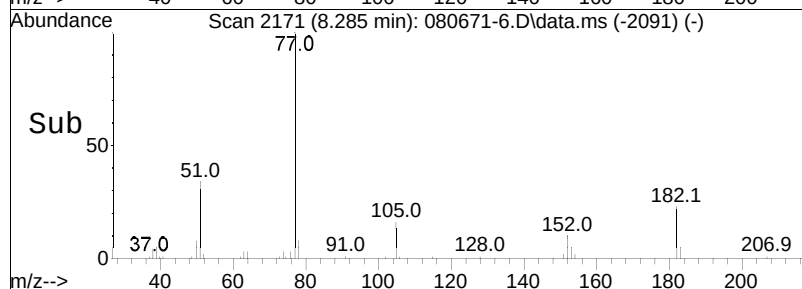
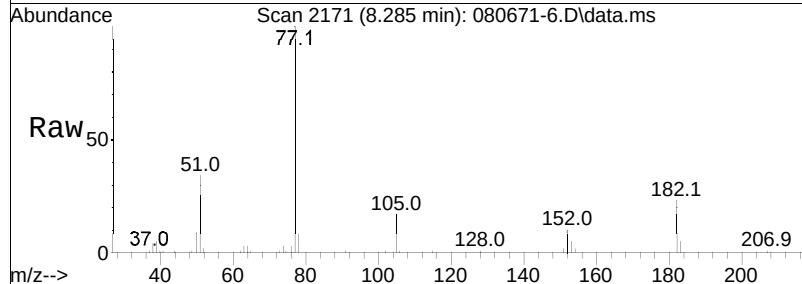
Tgt Ion:	169	Resp:	47946
Ion Ratio	Lower	Upper	
169	100		
168	73.7	54.0	81.0
167	39.3	28.6	42.8

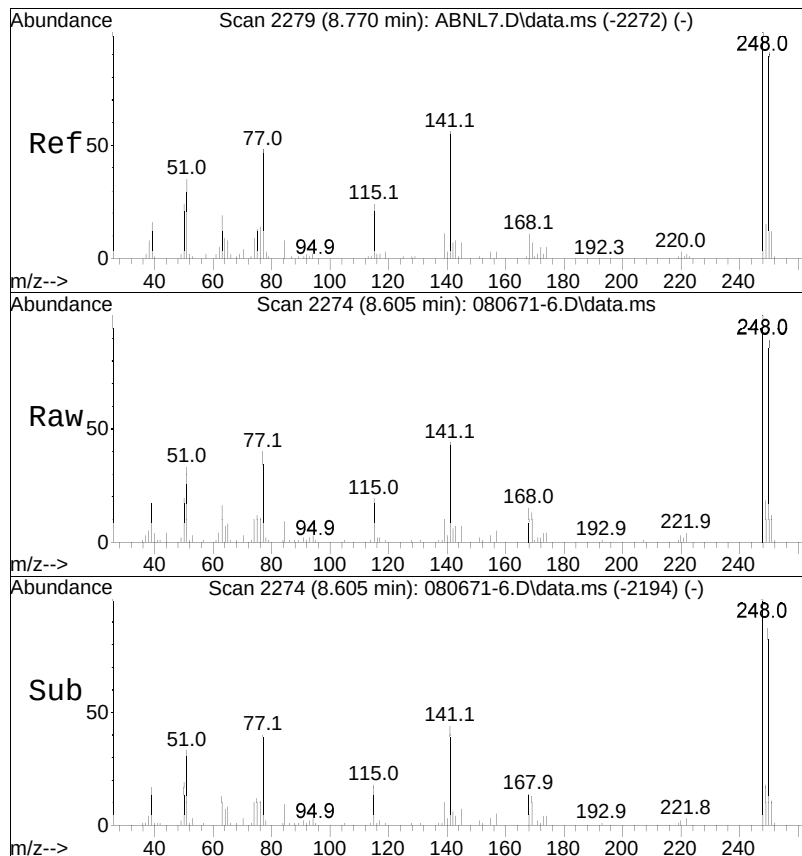




#80
 Azobenzene
 Concen: 1.40 ug/ml
 RT: 8.285 min Scan# 2171
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

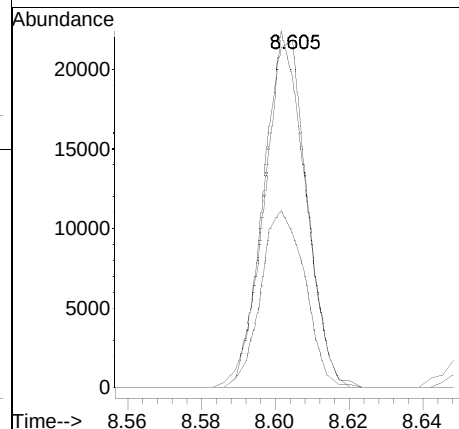
Tgt Ion	Ratio	Lower	Upper
77	100		
182	25.1	17.4	26.2
105	15.4	15.4	23.2

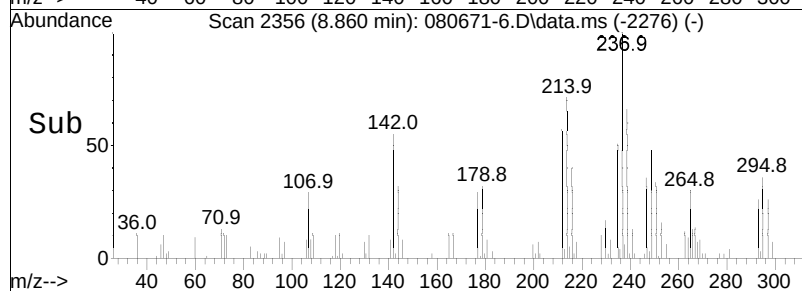
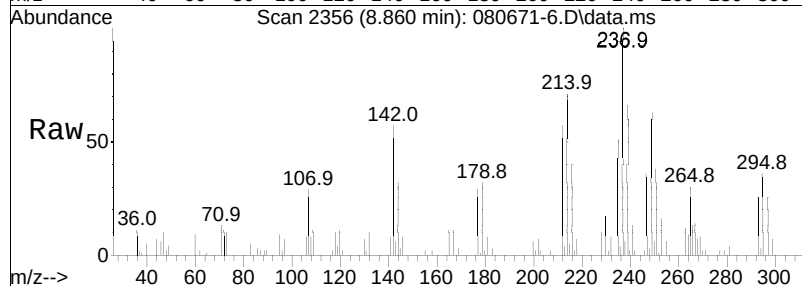
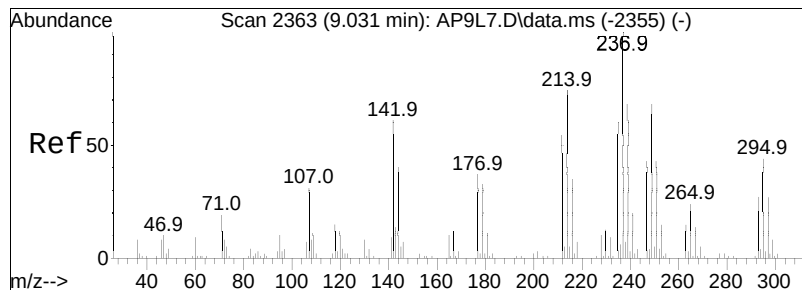




#82
 4-Bromophenyl phenyl ether
 Concen: 1.58 ug/ml
 RT: 8.605 min Scan# 2274
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

Tgt	Ion	Ratio	Lower	Upper
248	100			
141	51.1	76.6	114.8#	
250	94.4	77.3	115.9	





#87

Pentachloronitrobenzene

Concen: 2.24 ug/ml

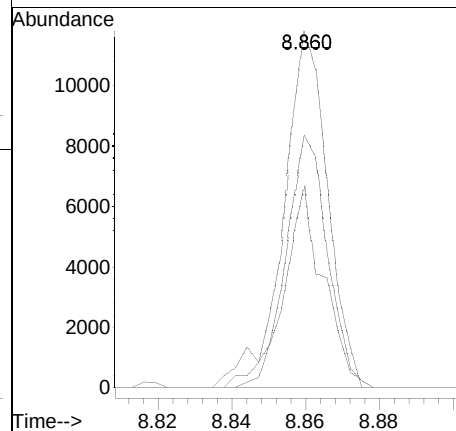
RT: 8.860 min Scan# 2356

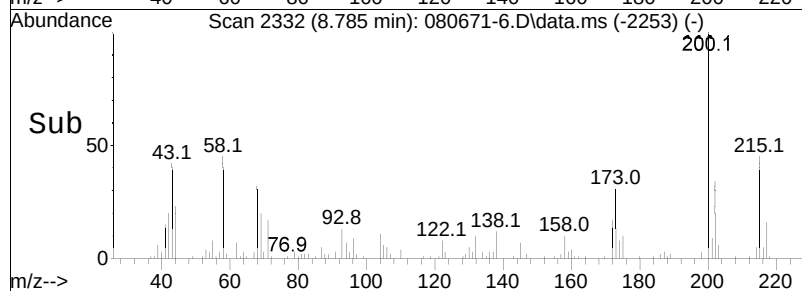
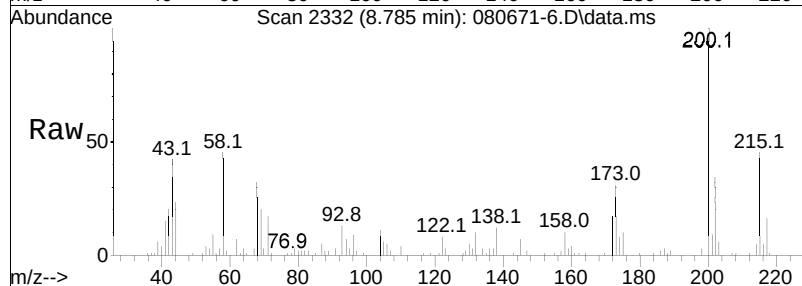
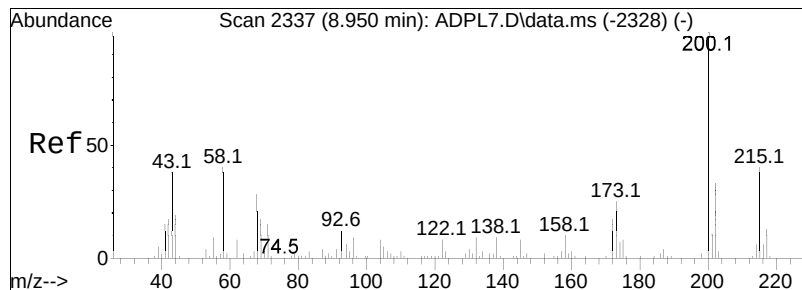
Delta R.T. 0.000 min

Lab File: 080671-6.D

Acq: 19 Jun 2025 3:41 pm

Tgt Ion	Ratio	Lower	Upper
237	100		
142	51.3	77.0	115.4#
214	66.2	58.2	87.4





#89

Atrazine

Concen: 1.73 ug/ml

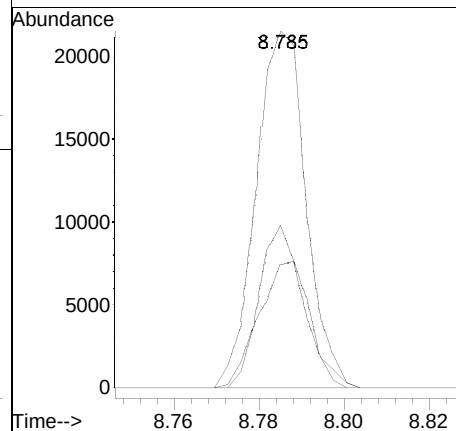
RT: 8.785 min Scan# 2332

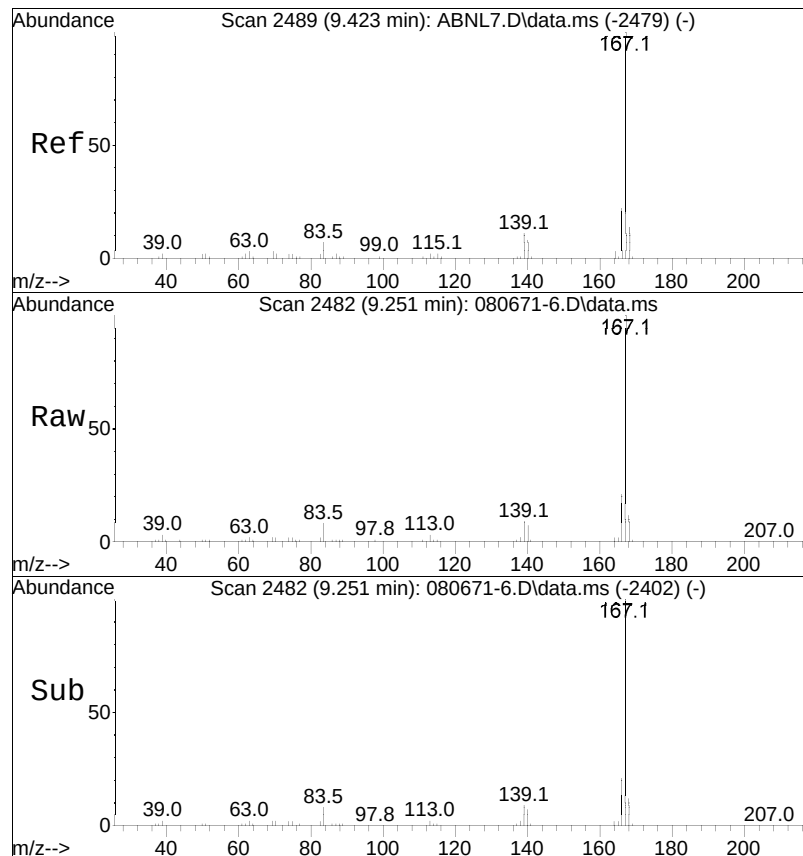
Delta R.T. -0.003 min

Lab File: 080671-6.D

Acq: 19 Jun 2025 3:41 pm

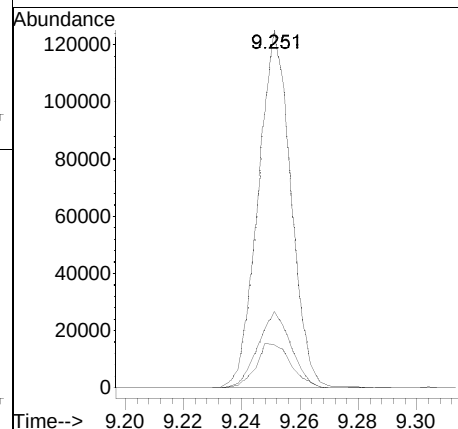
Tgt	Ion:200	Resp:	17434
Ion	Ratio	Lower	Upper
200	100		
202	33.8	25.8	38.6
215	42.7	40.2	60.4

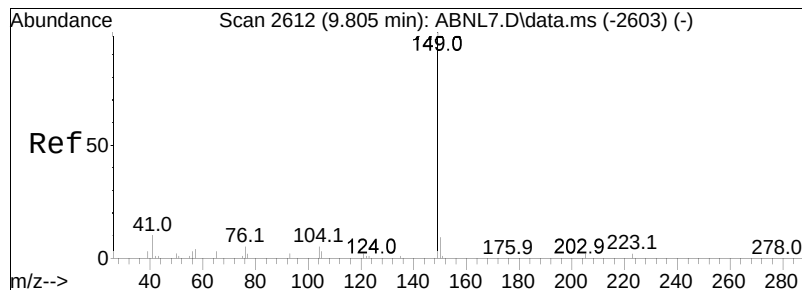




#93
 Carbazole
 Concen: 1.62 ug/ml
 RT: 9.251 min Scan# 2482
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

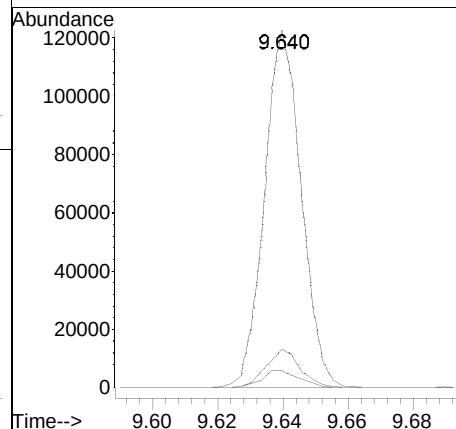
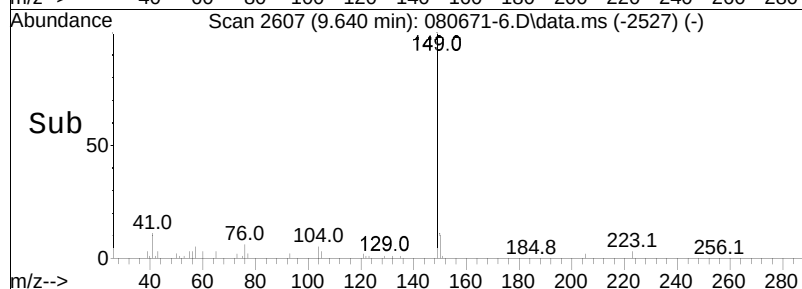
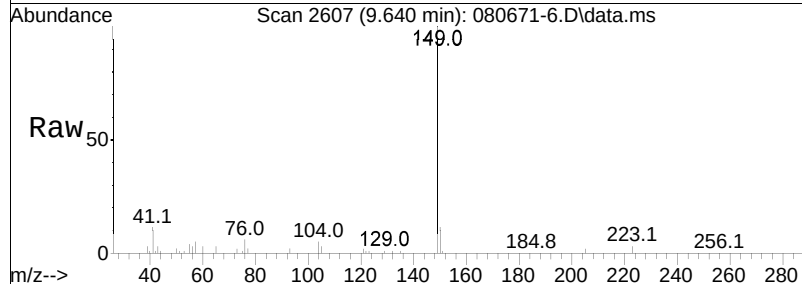
Tgt Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	21.6	17.4	26.0

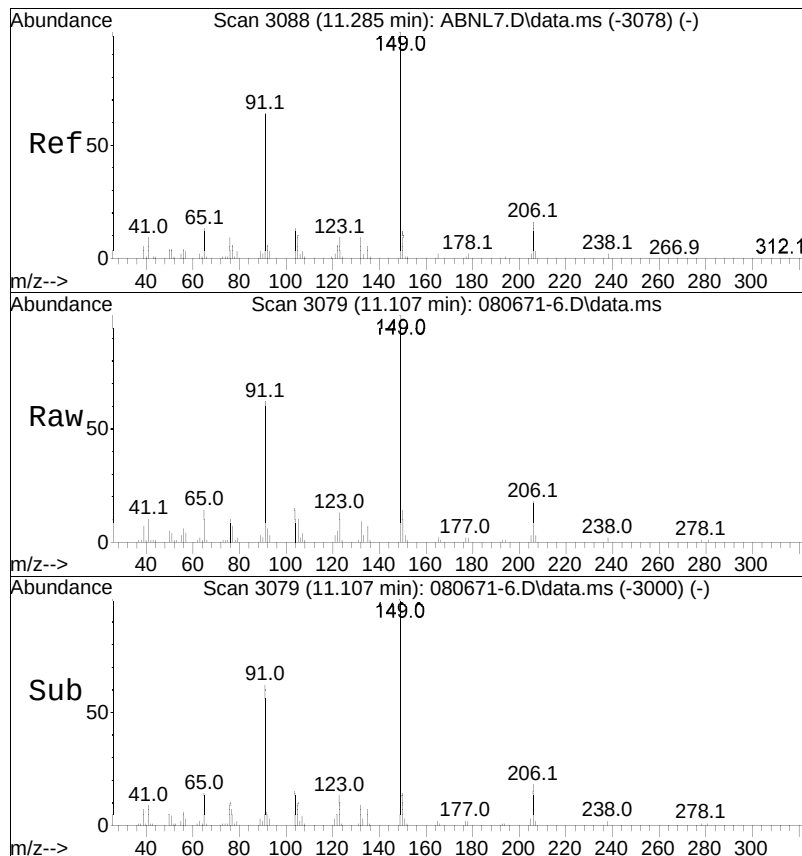




#94
 Di-n-butylphthalate
 Concen: 1.54 ug/ml
 RT: 9.640 min Scan# 2607
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

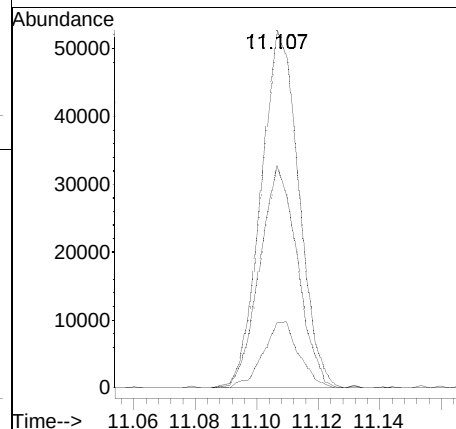
Tgt Ion:	149	Resp:	94949
Ion Ratio	Lower	Upper	
149	100		
150	10.0	7.0	10.6
104	4.8	4.5	6.7

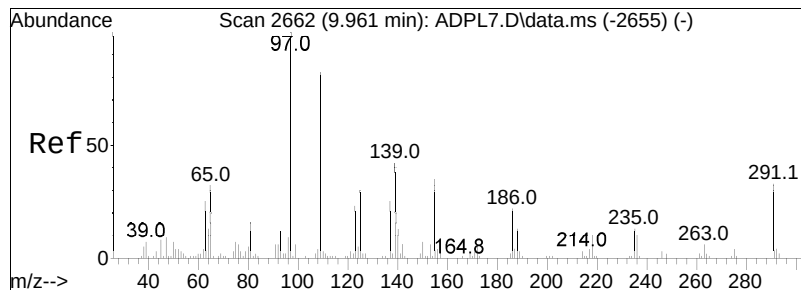




#99
 Butyl benzyl phthalate
 Concen: 1.67 ug/ml
 RT: 11.107 min Scan# 3079
 Delta R.T. -0.003 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
91	62.0	63.3	94.9#
206	17.6	13.9	20.9





#104

Parathion

Concen: 2.09 ug/ml

RT: 9.798 min Scan# 2658

Delta R.T. 0.000 min

Lab File: 080671-6.D

Acq: 19 Jun 2025 3:41 pm

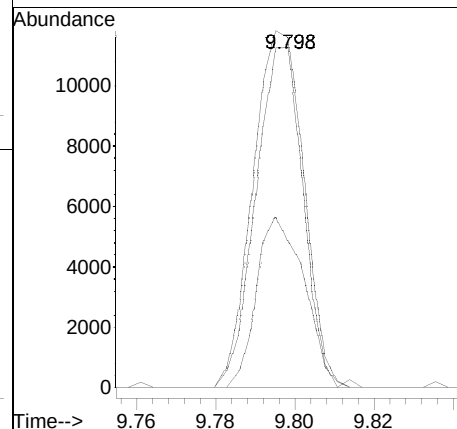
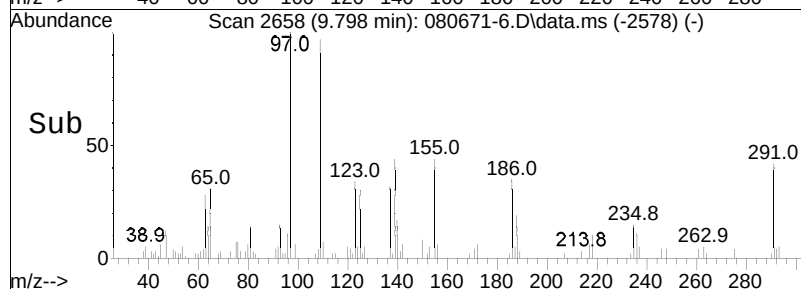
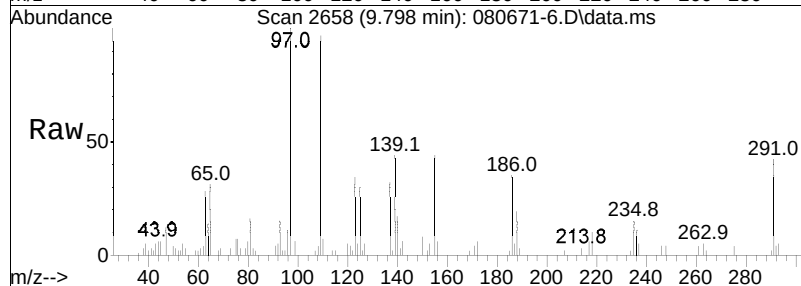
Tgt Ion:109 Resp: 9334

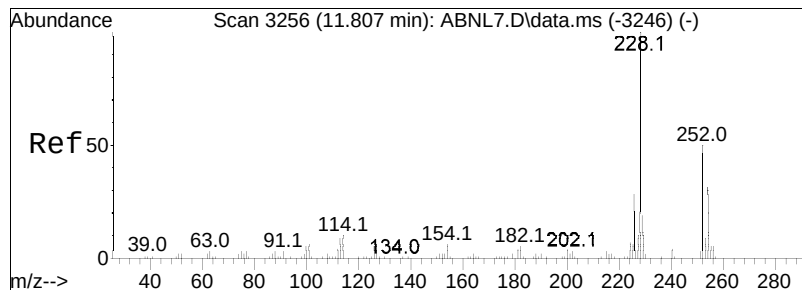
Ion Ratio Lower Upper

109 100

97 112.5 87.4 131.2

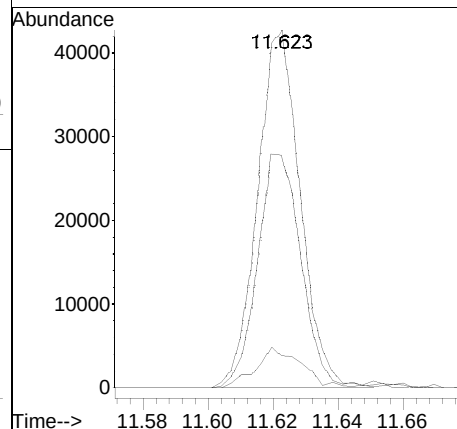
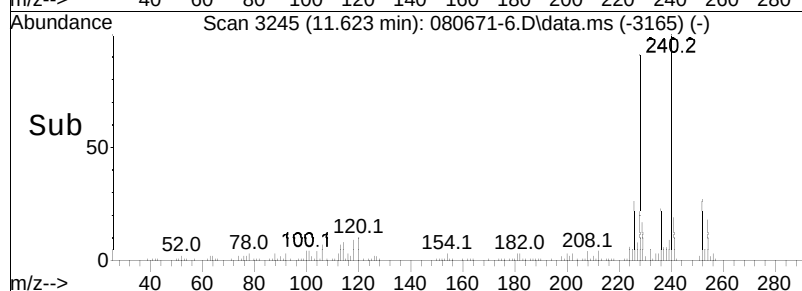
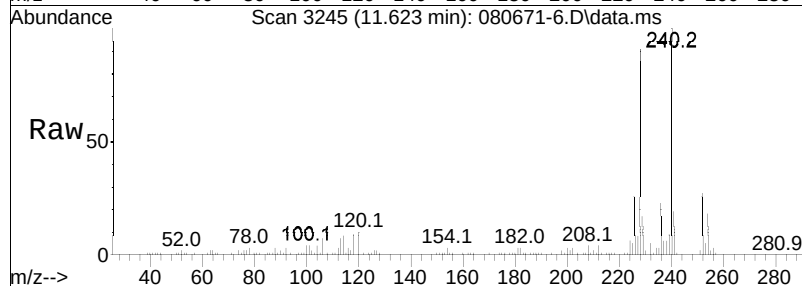
291 50.6 34.2 51.2

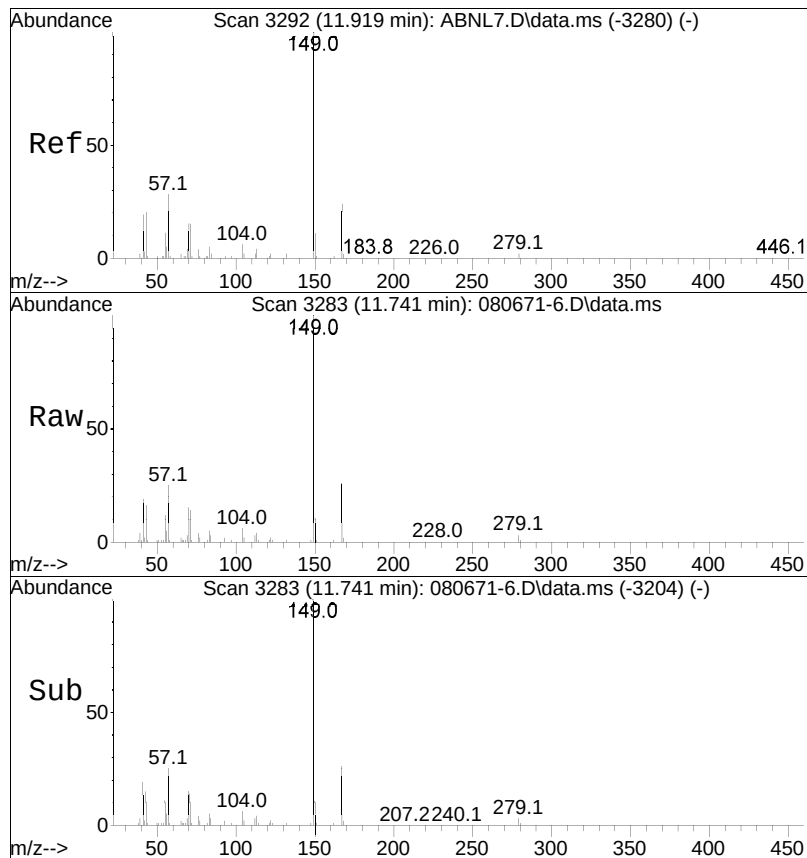




#108
 3,3'-Dichlorobenzidine
 Concen: 1.18 ug/ml
 RT: 11.623 min Scan# 3245
 Delta R.T. 0.000 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

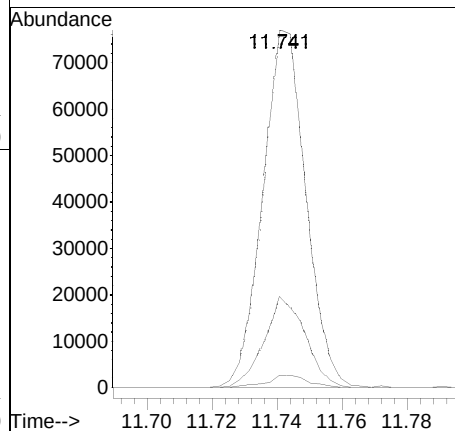
Tgt Ion	Ratio	Lower	Upper
252	100		
126	12.3	14.5	21.7#
254	67.2	51.2	76.8

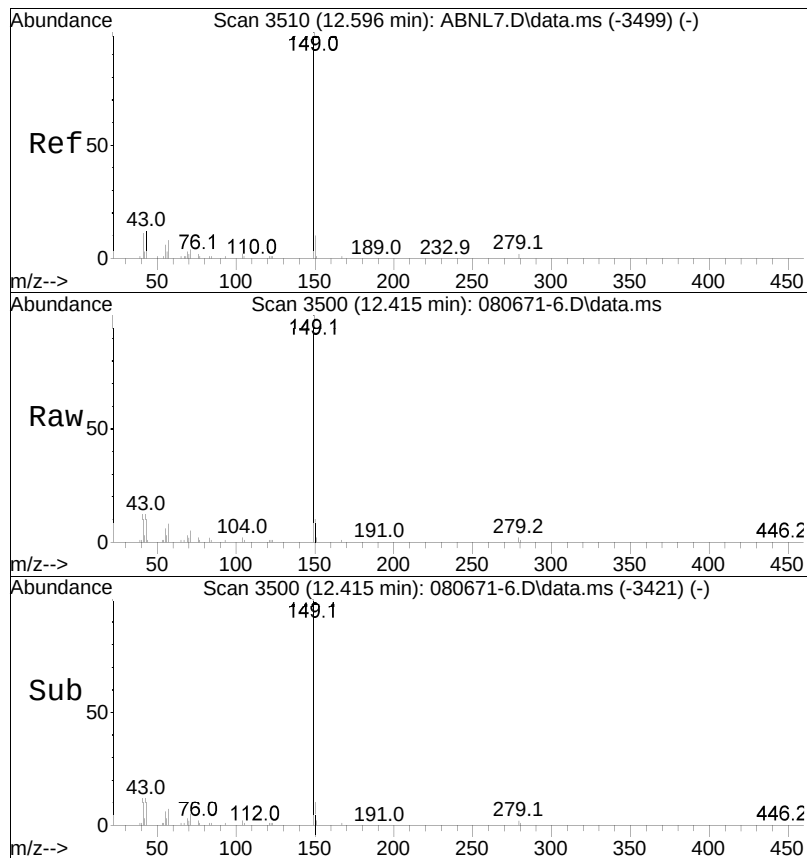




#110
 Bis(2-ethylhexyl)phthalate
 Concen: 1.51 ug/ml
 RT: 11.741 min Scan# 3283
 Delta R.T. -0.003 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

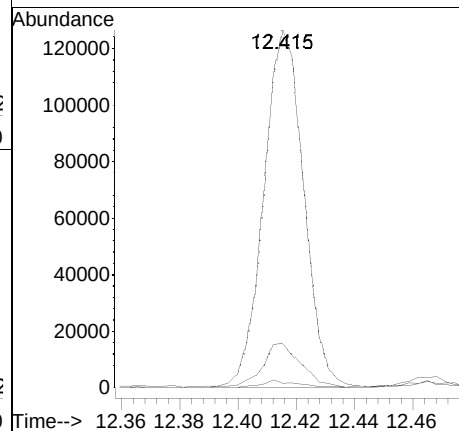
Tgt Ion:	149	Resp:	70300
Ion Ratio	Lower	Upper	
149	100		
167	24.3	22.1	33.1
279	3.1	3.0	4.4





#111
 Di-n-octylphthalate
 Concen: 1.57 ug/ml
 RT: 12.415 min Scan# 3500
 Delta R.T. -0.003 min
 Lab File: 080671-6.D
 Acq: 19 Jun 2025 3:41 pm

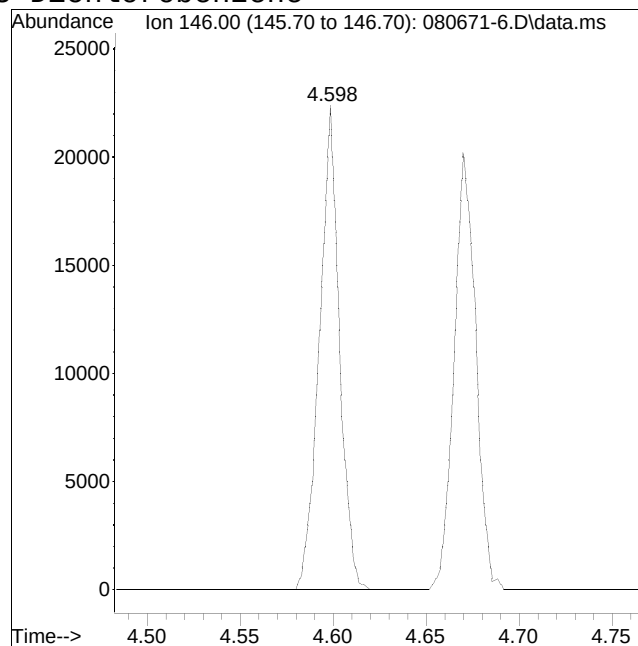
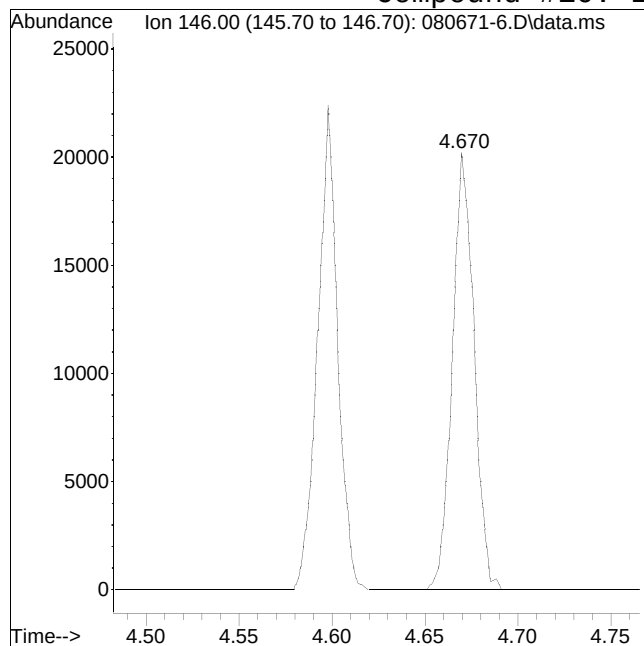
Tgt Ion	Ratio	Lower	Upper
149	100		
43	12.3	18.8	28.2#
167	1.6	1.3	1.9



Manual Integration Report

Data Path : I:\8270\Dakota\250619RVTa\QMethod : FS250416RVT_Dakota.m
Data File : 080671-6.D Operator : Dakota:jg
Date Inj'd : 6/19/2025 3:41 pm Instrument : Dakota
Sample : WG2080671-6,32,,gmr Quant Date : 6/19/2025 4:00 pm

Compound #10: 1,3-Dichlorobenzene



Original Peak Response = 16396

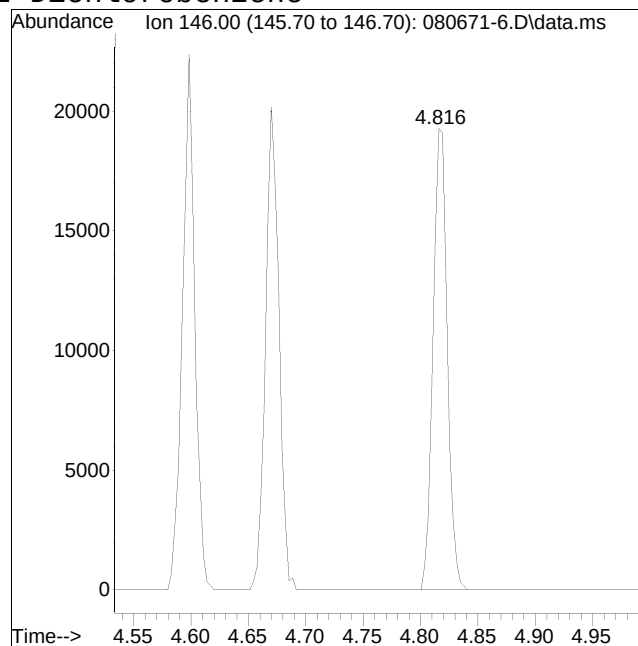
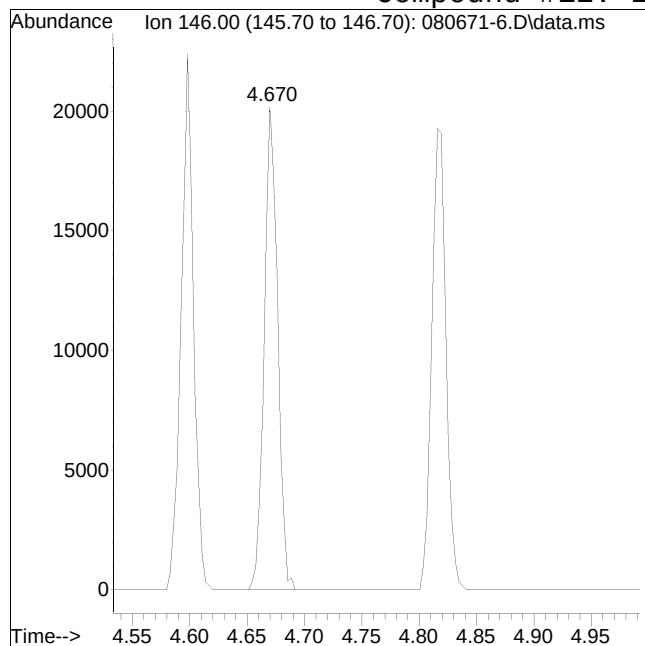
Manual Peak Response = 16716 M3

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\Dakota\250619RVTa\QMethod : FS250416RVT_Dakota.m
Data File : 080671-6.D Operator : Dakota:jg
Date Inj'd : 6/19/2025 3:41 pm Instrument : Dakota
Sample : WG2080671-6,32,,gmr Quant Date : 6/19/2025 4:00 pm

Compound #12: 1,2-Dichlorobenzene



Original Peak Response = 16396

Manual Peak Response = 16648 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\250619RVT\
 Data File : 080671-4.D
 Acq On : 19 Jun 2025 5:02 pm
 Operator : SV106:jg
 Sample : WG2080671-4,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 21 10:18:25 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:08:26 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.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...	6.557	152	64666	4.000	ug/ml	0.00
Standard Area 1 = 62704			Recovery =	103.13%		
27) IS2_1,4-Dichlorobenzen...	6.557	152	64666	4.000	ug/ml	0.00
Standard Area 3 = 60457			Recovery =	106.96%		
35) IS1_Naphthalene-d8	7.975	136	233101	4.000	ug/ml	# 0.00
Standard Area 1 = 233073			Recovery =	100.01%		
55) IS2_Naphthalene-d8	7.975	136	233101	4.000	ug/ml	# 0.00
Standard Area 3 = 221512			Recovery =	105.23%		
63) IS1_Acenaphthene-d10	9.739	164	145471	4.000	ug/ml	0.00
Standard Area 1 = 146915			Recovery =	99.02%		
83) IS2_Acenaphthene-d10	9.739	164	145471	4.000	ug/ml	0.00
Standard Area 3 = 141624			Recovery =	102.72%		
86) IS3_Acenaphthene-d10	9.739	164	145471	4.000	ug/ml	0.00
Standard Area 2 = 115193			Recovery =	126.28%		
88) IS1_Phenanthrene-d10	11.186	188	293703	4.000	ug/ml	0.00
Standard Area 1 = 296755			Recovery =	98.97%		
100) IS3_Phenanthrene-d10	11.186	188	293703	4.000	ug/ml	0.00
Standard Area 2 = 248688			Recovery =	118.10%		
104) IS1_Chrysene-d12	13.851	240	304274	4.000	ug/ml	0.00
Standard Area 1 = 309276			Recovery =	98.38%		
113) IS1_Perylene-d12	15.339	264	313977	4.000	ug/ml	0.01
Standard Area 1 = 304124			Recovery =	103.24%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.698	112	19680	1.079	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	53.95%		
7) Phenol-d6	6.186	99	14504	0.678	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	33.90%		
19) Nitrobenzene-d5	7.204	82	13792	0.779	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	77.90%		
46) 2-Fluorobiphenyl	9.092	172	36993	0.688	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	68.80%		
79) 2,4,6-Tribromophenol	10.510	330	11602	1.551	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	77.55%		
96) 4-Terphenyl-d14	12.780	244	54639	0.717	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	71.70%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : 080671-4.D
 Acq On : 19 Jun 2025 5:02 pm
 Operator : SV106:jg
 Sample : WG2080671-4,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 21 10:18:25 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:08:26 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.228	74	10776	0.928	ug/ml	100
3) Pyridine	2.340	79	2733	0.135	ug/ml#	60
5) Aniline	6.151	93	810	0.029	ug/ml#	1
6) 2-Chlorophenol	6.292	128	23697	1.204	ug/ml	97
8) Phenol	6.198	94	16002	0.678	ug/ml	94
9) Bis(2-chloroethyl)ether	6.275	93	23685	1.264	ug/ml#	70
10) 1,3-Dichlorobenzene	6.481	146	27759	1.115	ug/ml	97
11) 1,4-Dichlorobenzene	6.575	146	30174	1.185	ug/ml	97
12) 1,2-Dichlorobenzene	6.751	146	28414	1.179	ug/ml	97
13) Benzyl alcohol	6.757	79	16275	1.106	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.945	45	51917	1.188	ug/ml#	77
15) 2-Methylphenol	6.928	108	17841	0.860	ug/ml	98
17) n-Nitrosodi-n-propylamine	7.080	70	18265	1.322	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.110	108	19547	1.089	ug/ml	97
20) Nitrobenzene	7.228	77	28558	1.580	ug/ml	98
21) Isophorone	7.504	82	45919	1.237	ug/ml	99
22) 2-Nitrophenol	7.580	139	12821	1.558	ug/ml	97
23) 2,4-Dimethylphenol	7.680	107	15742	0.813	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.769	93	31391	1.185	ug/ml#	97
25) 2,4-Dichlorophenol	7.845	162	24055	1.309	ug/ml#	94
26) 1,2,4-Trichlorobenzene	7.927	180	27925	1.185	ug/ml	97
28) Benzaldehyde	5.992	105	23656	1.534	ug/ml	98
29) Acetophenone	7.045	105	39237	1.475	ug/ml#	94
37) Benzoic Acid	7.739	105	9362	1.392	ug/ml	98
38) 4-Chloroaniline	8.075	65	3665M3	0.478	ug/ml	
40) p-Chloro-m-cresol	8.598	107	20955	1.106	ug/ml	98
43) Hexachlorocyclopentadiene	8.886	237	18082	1.035	ug/ml	95
44) 2,4,6-Trichlorophenol	9.010	196	20011	1.367	ug/ml	98
45) 2,4,5-Trichlorophenol	9.039	196	22022	1.483	ug/ml	97
48) 2-Nitroaniline	9.304	138	13521	1.396	ug/ml	91
51) Dimethyl phthalate	9.504	163	71750	1.355	ug/ml	99
53) 2,6-Dinitrotoluene	9.551	165	13518	1.539	ug/ml	86
60) Caprolactam	8.392	55	4156	0.433	ug/ml#	85
61) 1,2,4,5-Tetrachloroben...	8.886	216	31175	1.332	ug/ml	97
62) Biphenyl	9.186	154	71761	1.391	ug/ml	99
64) 3-Nitroaniline	9.704	138	10258	1.118	ug/ml#	87
66) 2,4-Dinitrophenol	9.810	184	6458	1.467	ug/ml#	85

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : 080671-4.D
 Acq On : 19 Jun 2025 5:02 pm
 Operator : SV106:jg
 Sample : WG2080671-4,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 21 10:18:25 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:08:26 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67)	Dibenzofuran	9.939	168	89513	1.286	ug/ml	93
68)	2,4-Dinitrotoluene	9.945	165	18902	1.585	ug/ml	90
69)	4-Nitrophenol	9.898	65	8692	1.242	ug/ml	90
71)	2,3,4,6-Tetrachlorophenol	10.074	232	20153	1.610	ug/ml	97
72)	Diethyl phthalate	10.204	149	70108	1.419	ug/ml	98
74)	4-Chlorophenyl phenyl ...	10.292	204	36781	1.371	ug/ml#	88
75)	4-Nitroaniline	10.298	138	10155	1.137	ug/ml	96
76)	4,6-Dinitro-o-cresol	10.339	198	10319	1.663	ug/ml#	69
77)	NDPA/DPA	10.410	169	60216	1.408	ug/ml	97
78)	Azobenzene	10.445	77	59873	1.468	ug/ml#	91
80)	4-Bromophenyl phenyl e...	10.768	248	23279	1.382	ug/ml#	83
85)	Pentachloronitrobenzene	11.033	237	10212	1.952	ug/ml#	80
87)	Atrazine	10.951	200	21220	1.596	ug/ml	95
91)	Carbazole	11.427	167	104083	1.434	ug/ml	100
92)	Di-n-butylphthalate	11.815	149	118907	1.450	ug/ml	98
94)	Benzidine	0.000		0	N.D.		
97)	Butyl benzyl phthalate	13.309	149	49144	1.594	ug/ml	89
102)	Parathion	11.974	109	10106	2.629	ug/ml#	94
106)	3,3'-Dichlorobenzidine	13.839	252	22306	0.684	ug/ml	93
108)	Bis(2-ethylhexyl)phtha...	13.957	149	71512	1.425	ug/ml#	96
109)	Di-n-octylphthalate	14.645	149	106784	1.476	ug/ml#	79

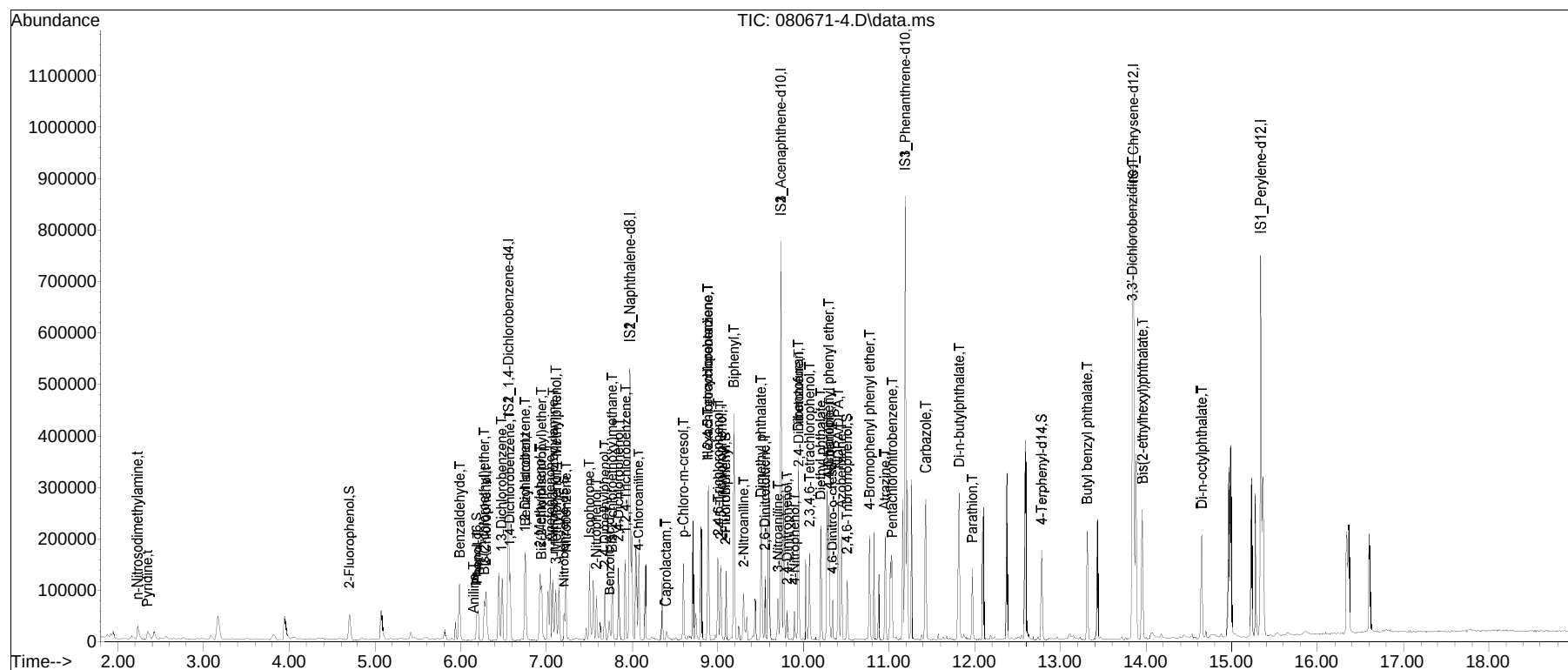
(#) = qualifier out of range (m) = manual integration (+) = signals summed

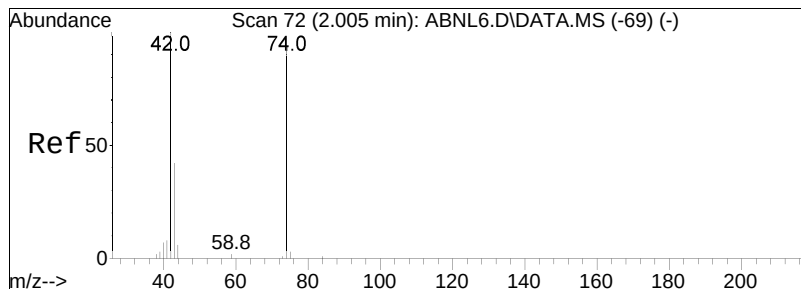
Quantitation Report (QT Reviewed)

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Data Path   : I:\8270\SV106\250619RVT\  
Data File  : 080671-4.D  
Acq On     : 19 Jun 2025    5:02 pm  
Operator   : SV106:jg  
Sample     : WG2080671-4, 32,, gmr  
Misc       : WG2080865, WG2080671, ical22075  
ALS Vial   : 23    Sample Multiplier: 1
```

Quant Time: Jun 21 10:18:25 2025
Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 19 11:08:26 2025
Response via : Initial Calibration

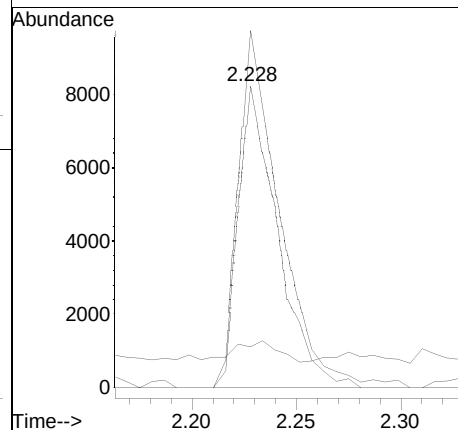
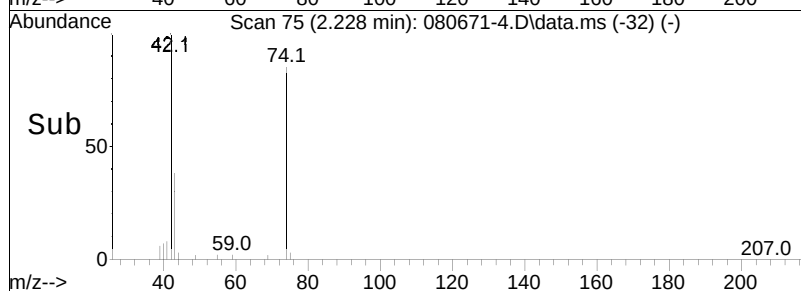
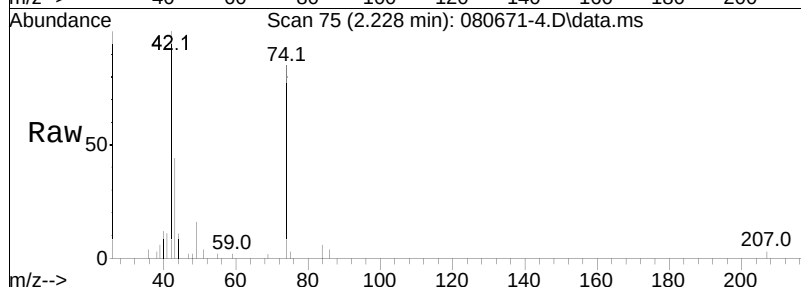
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90619.D•

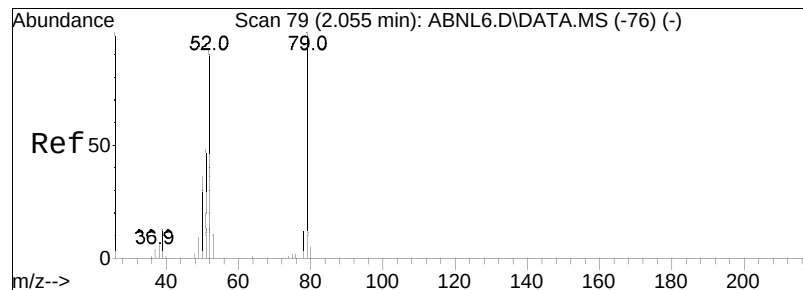




#2
 n-Nitrosodimethylamine
 Concen: 0.93 ug/ml
 RT: 2.228 min Scan# 75
 Delta R.T. 0.006 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

Tgt Ion:	74	Resp:	10776
Ion Ratio	Lower	Upper	
74	100		
42	124.6	100.0	150.0
44	7.6	6.7	10.1





#3

Pyridine

Concen: 0.14 ug/ml

RT: 2.340 min Scan# 94

Delta R.T. 0.065 min

Lab File: 080671-4.D

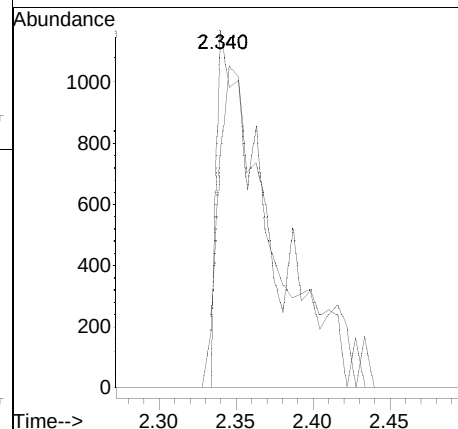
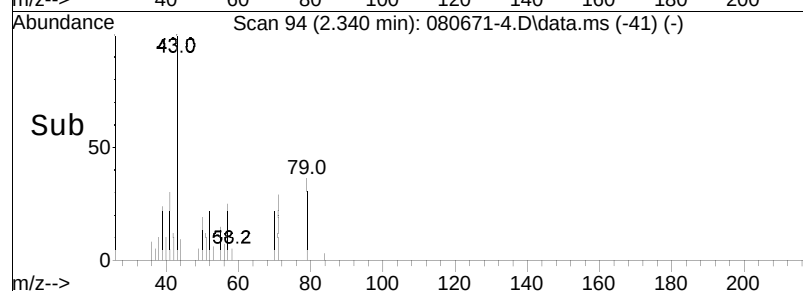
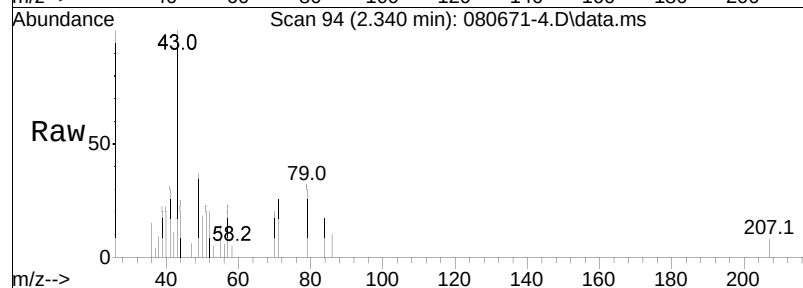
Acq: 19 Jun 2025 5:02 pm

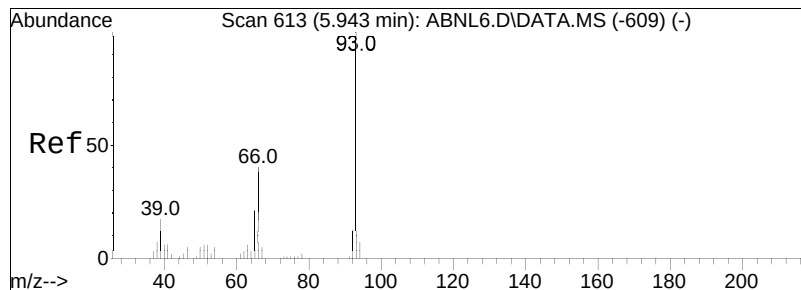
Tgt Ion: 79 Resp: 2733

Ion Ratio Lower Upper

79 100

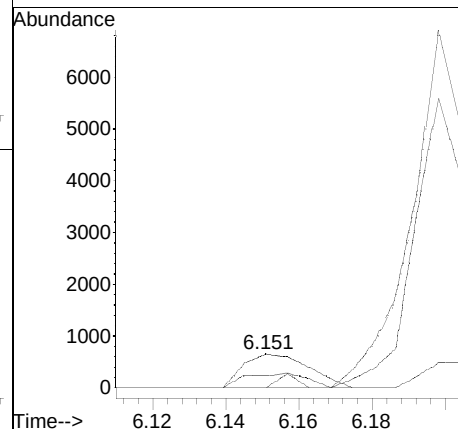
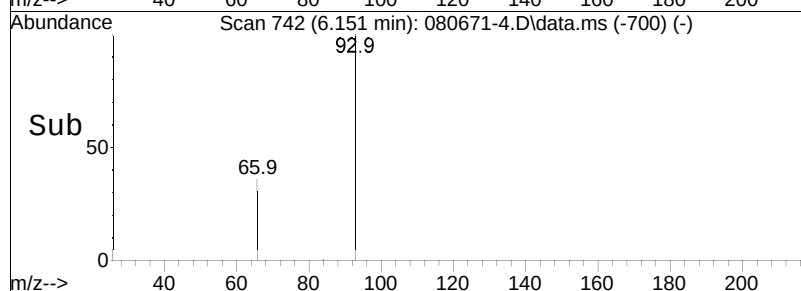
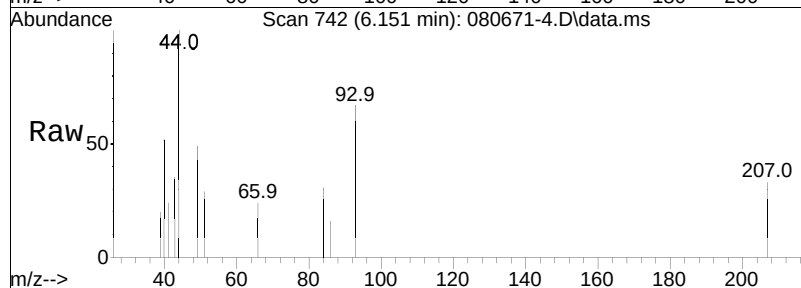
52 72.6 93.1 139.7#

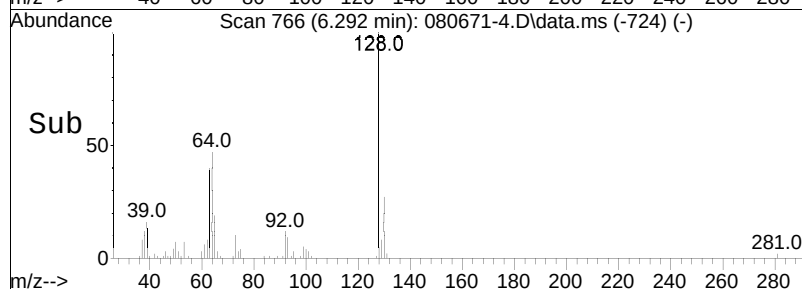
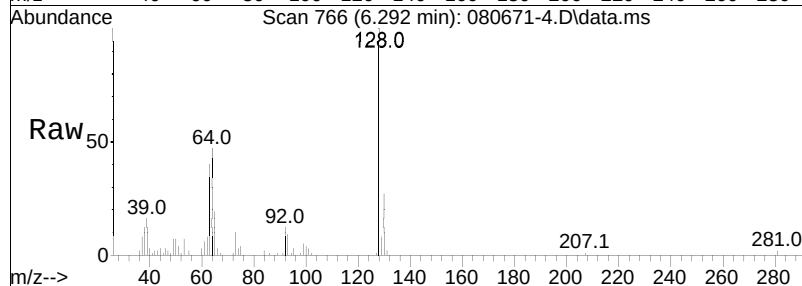
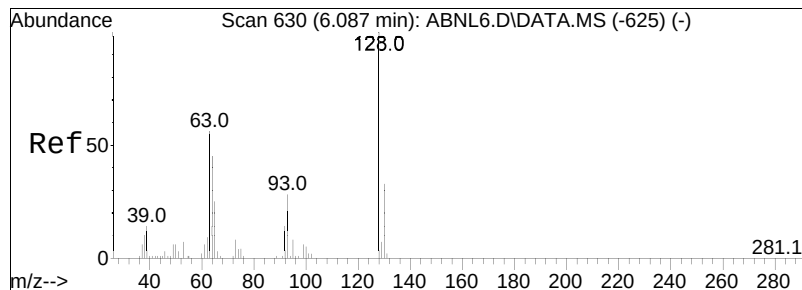




#5
 Aniline
 Concen: 0.03 ug/ml
 RT: 6.151 min Scan# 742
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

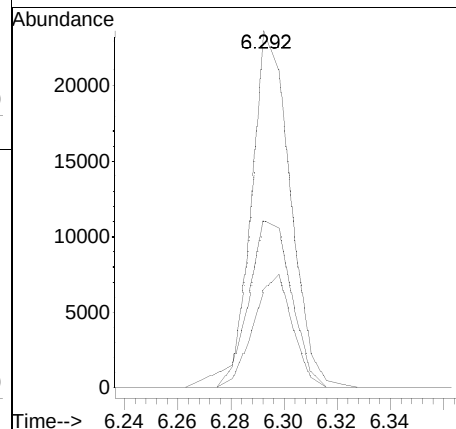
Tgt Ion	Ratio	Lower	Upper
93	100		
66	904.3	32.6	49.0#
65	706.5	17.6	26.4#

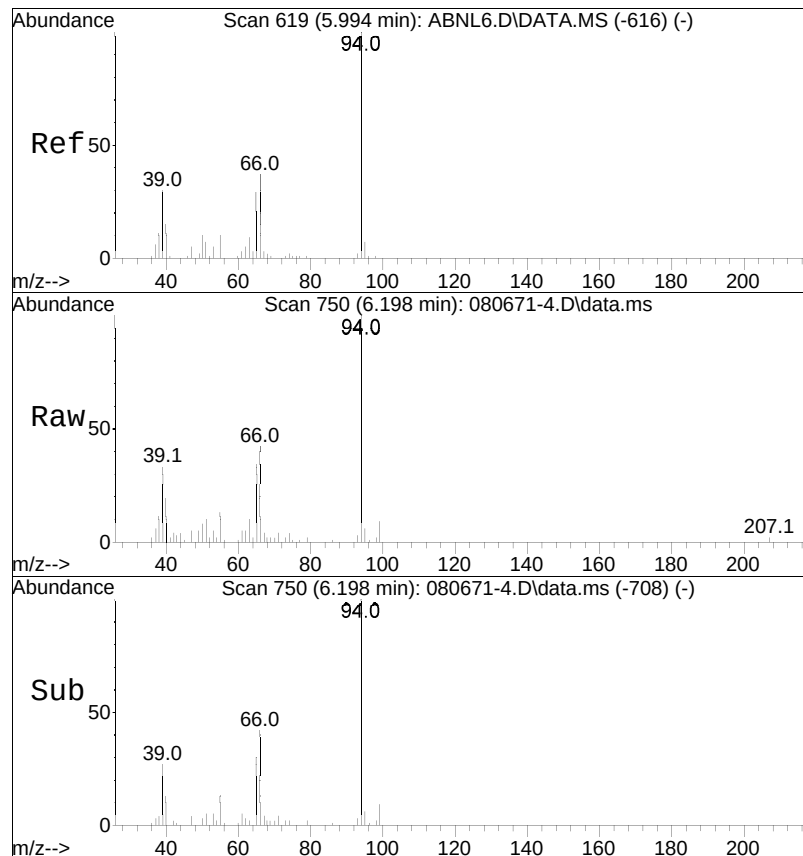




#6
 2-Chlorophenol
 Concen: 1.20 ug/ml
 RT: 6.292 min Scan# 766
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

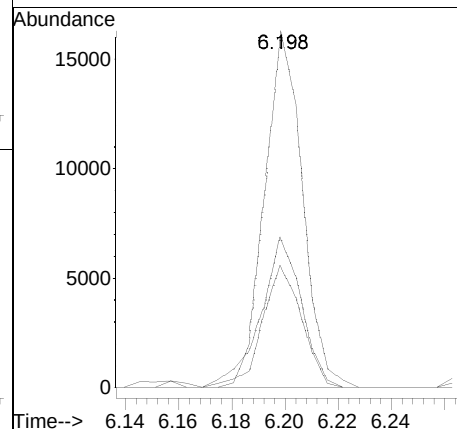
Tgt Ion	Ratio	Lower	Upper
128	100		
64	53.8	45.1	67.7
130	32.3	26.2	39.4

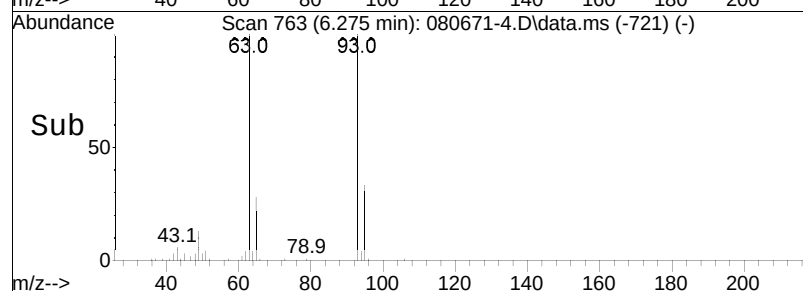
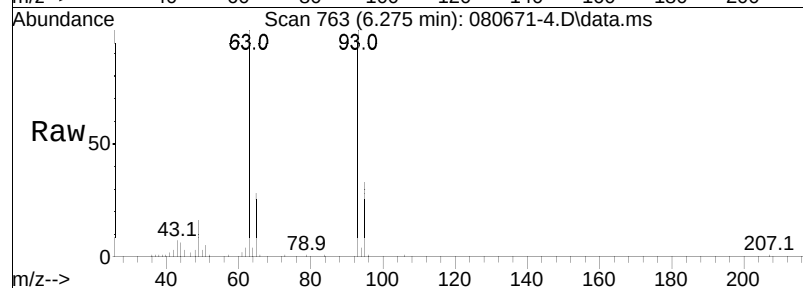
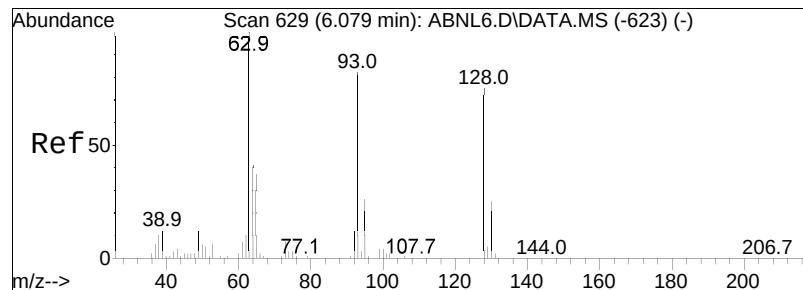




#8
 Phenol
 Concen: 0.68 ug/ml
 RT: 6.198 min Scan# 750
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

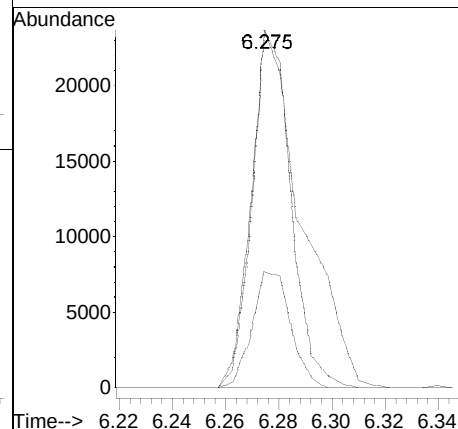
Tgt Ion:	94	Resp:	16002
Ion Ratio	Lower	Upper	
94	100		
65	35.8	26.0	39.0
66	45.8	33.8	50.8

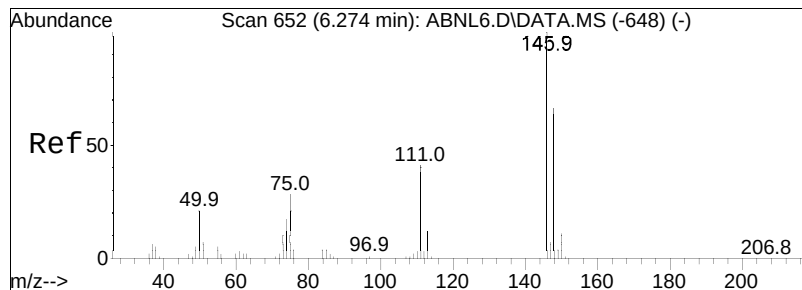




#9
 Bis(2-chloroethyl)ether
 Concen: 1.26 ug/ml
 RT: 6.275 min Scan# 763
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

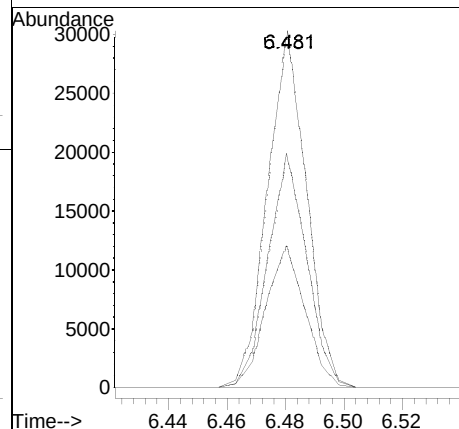
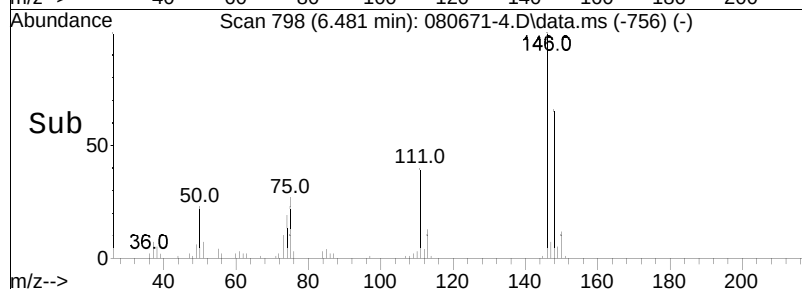
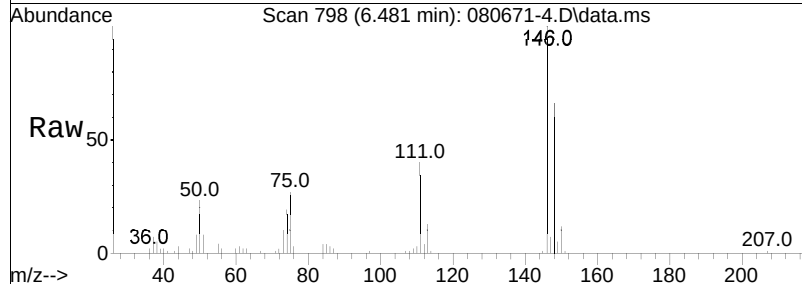
Tgt Ion:	93	Resp:	23685
Ion Ratio	Lower	Upper	
93	100		
63	131.5	74.6	111.8#
95	32.6	25.9	38.9

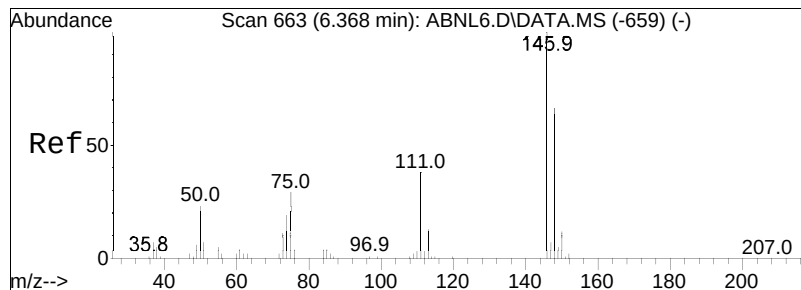




#10
 1,3-Dichlorobenzene
 Concen: 1.11 ug/ml
 RT: 6.481 min Scan# 798
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

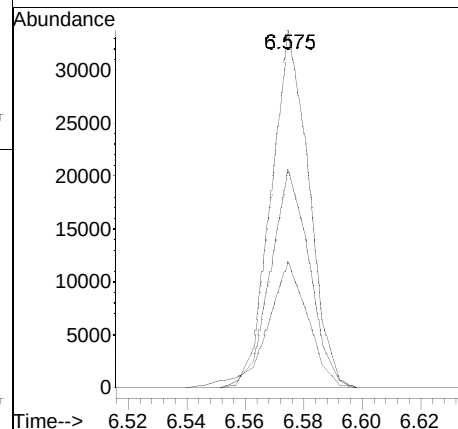
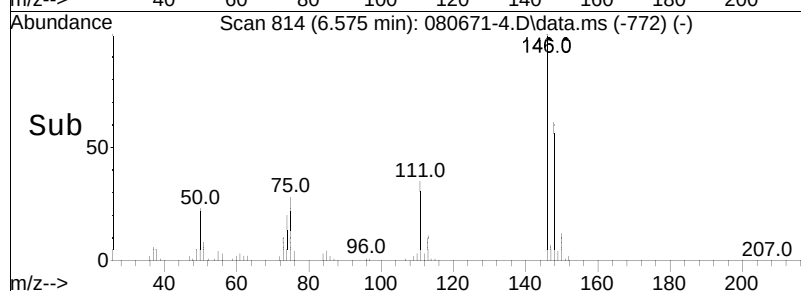
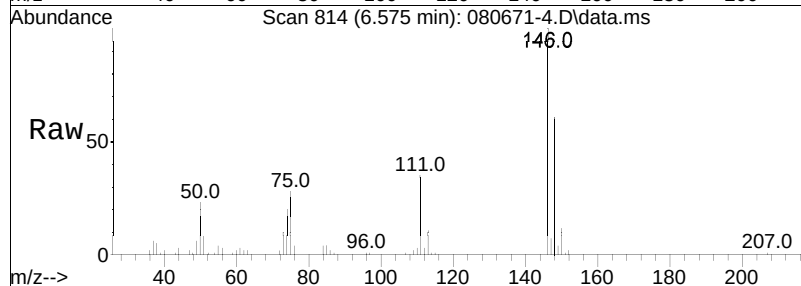
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	34.3	51.5
148	65.5	50.8	76.2

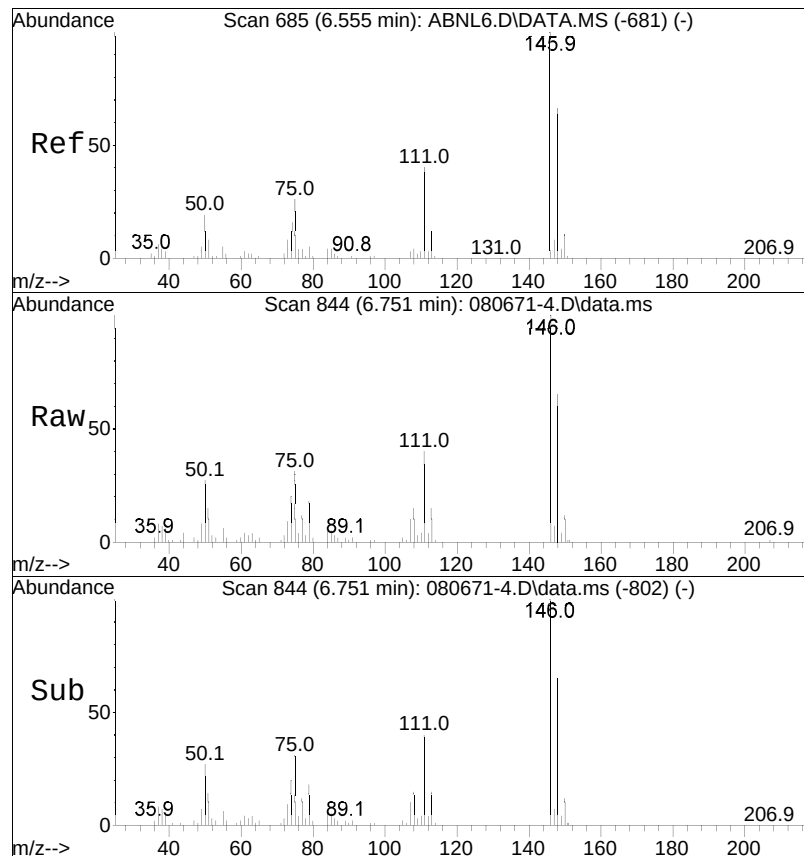




#11
 1,4-Dichlorobenzene
 Concen: 1.19 ug/ml
 RT: 6.575 min Scan# 814
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

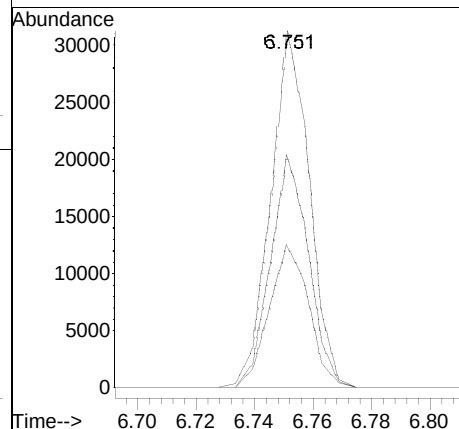
Tgt Ion	Ratio	Lower	Upper
146	100		
148	62.9	50.7	76.1
111	38.0	33.4	50.0

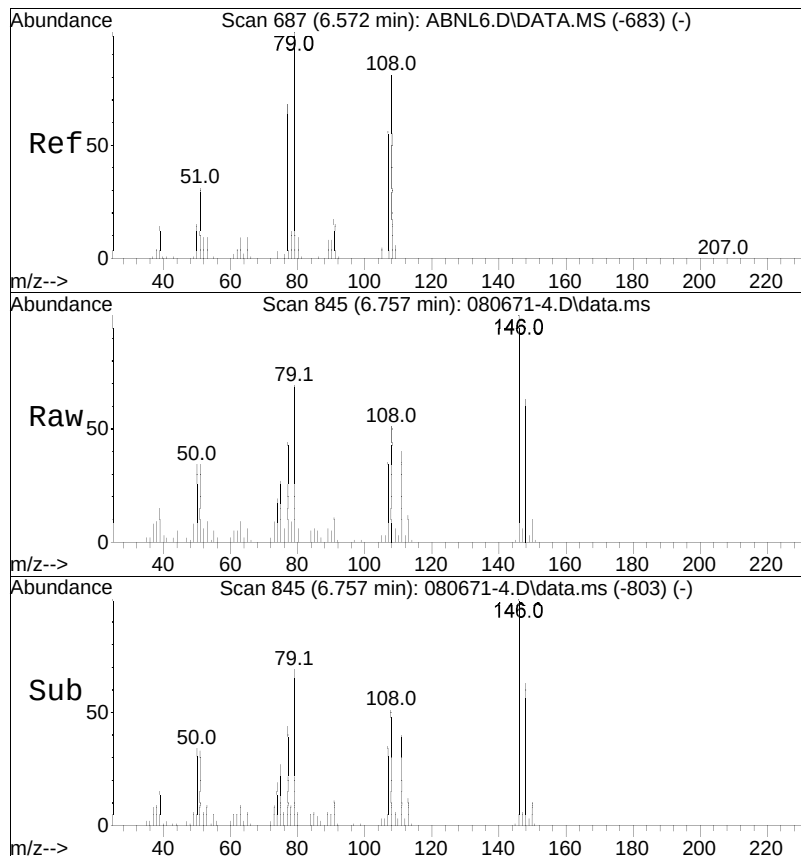




#12
 1,2-Dichlorobenzene
 Concen: 1.18 ug/ml
 RT: 6.751 min Scan# 844
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

Tgt Ion:	146	Resp:	28414
Ion Ratio	Lower	Upper	
146	100		
111	41.1	34.6	52.0
148	64.3	50.2	75.4





#13

Benzyl alcohol

Concen: 1.11 ug/ml

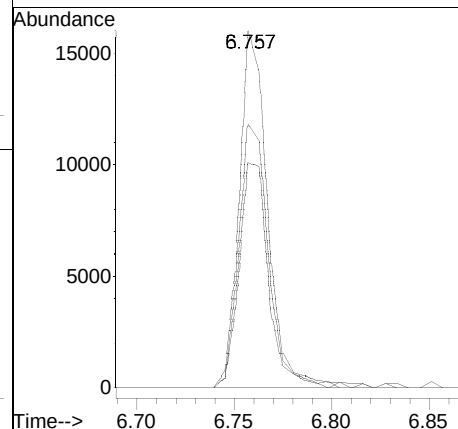
RT: 6.757 min Scan# 845

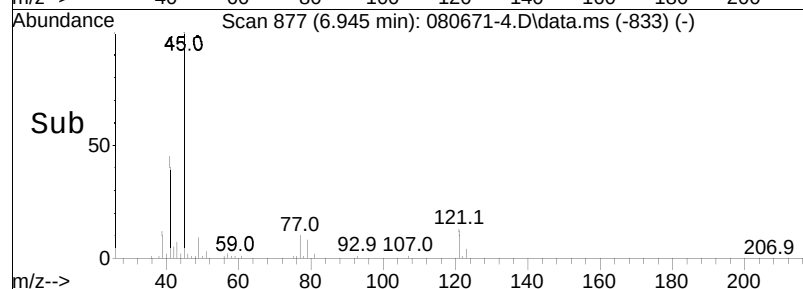
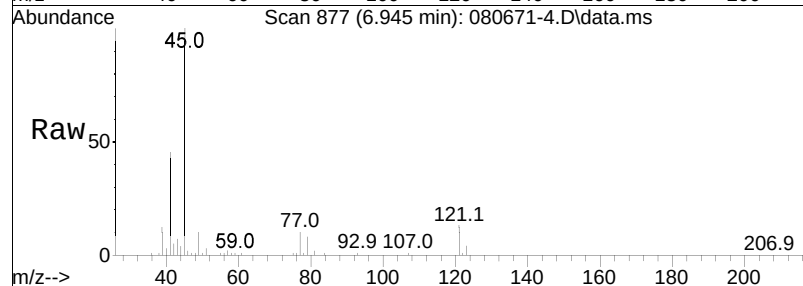
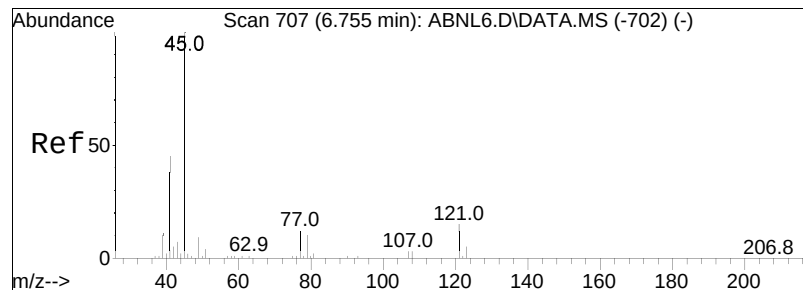
Delta R.T. -0.000 min

Lab File: 080671-4.D

Acq: 19 Jun 2025 5:02 pm

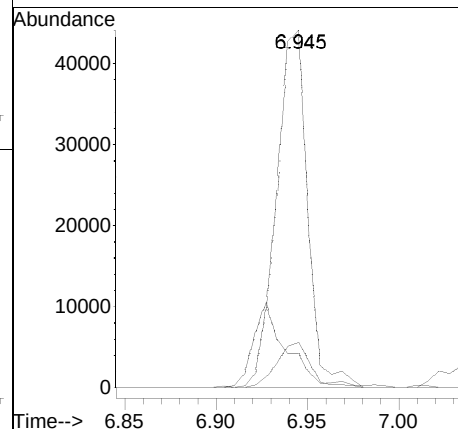
Tgt Ion:	79	Resp:	16275
Ion Ratio	Lower	Upper	
79	100		
77	65.1	54.9	82.3
108	76.0	63.1	94.7

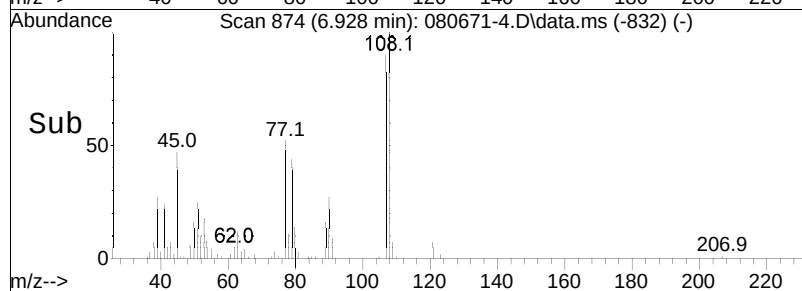
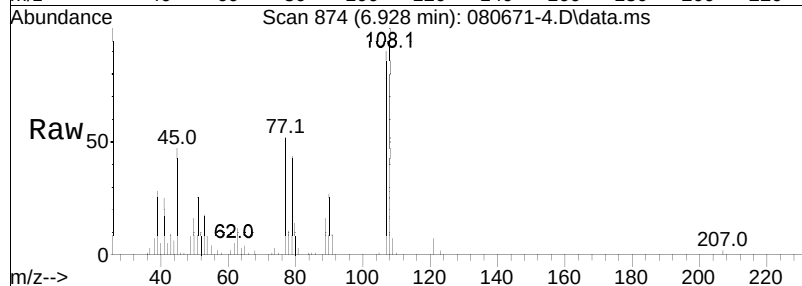
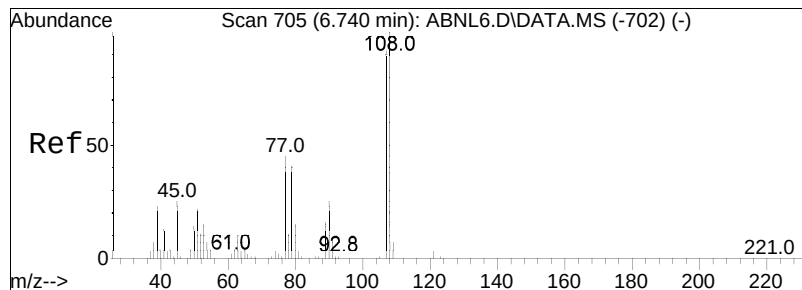




#14
 Bis(2-chloroisopropyl)ether
 Concen: 1.19 ug/ml
 RT: 6.945 min Scan# 877
 Delta R.T. 0.012 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

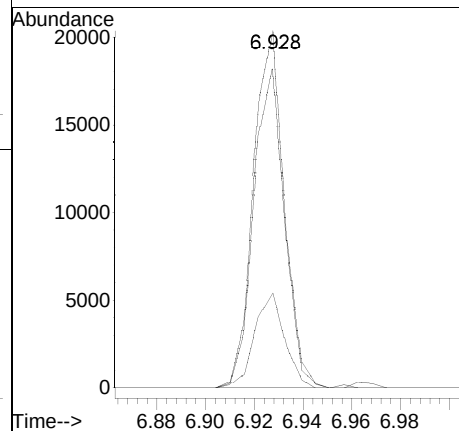
Tgt Ion:	45	121	77	Ratio	100	13.7	26.0	Resp:	51917	Lower	Upper

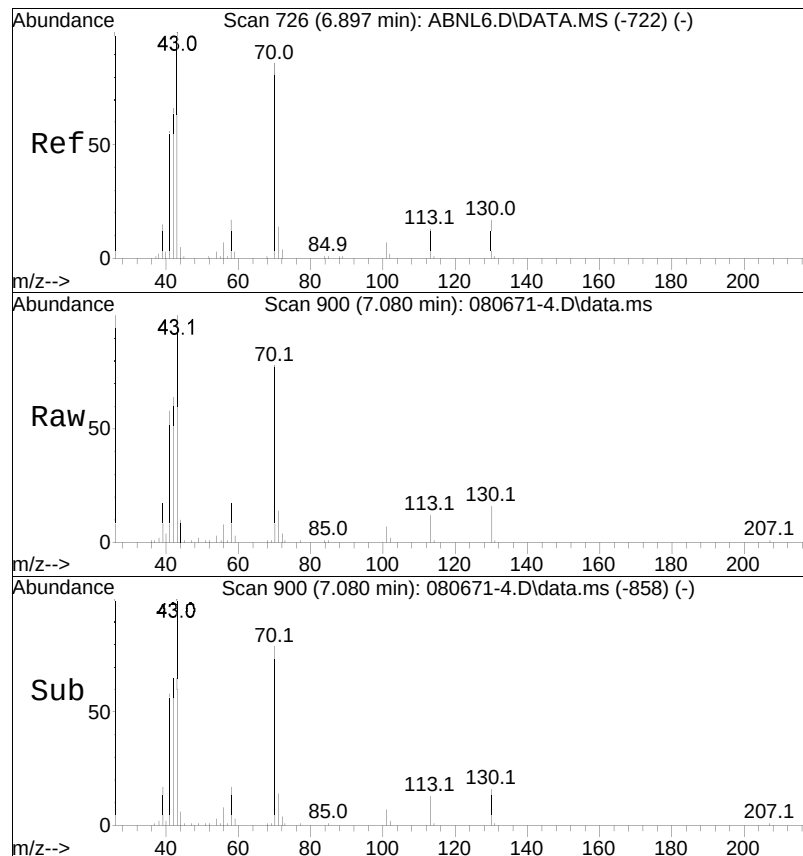




#15
 2-Methylphenol
 Concen: 0.86 ug/ml
 RT: 6.928 min Scan# 874
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

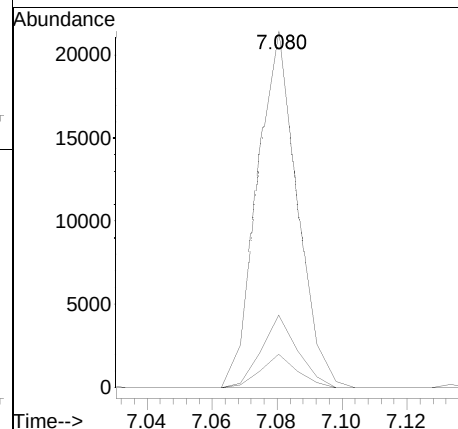
Tgt Ion	Ratio	Lower	Upper
108	100		
107	89.0	70.7	106.1
90	25.9	18.7	28.1

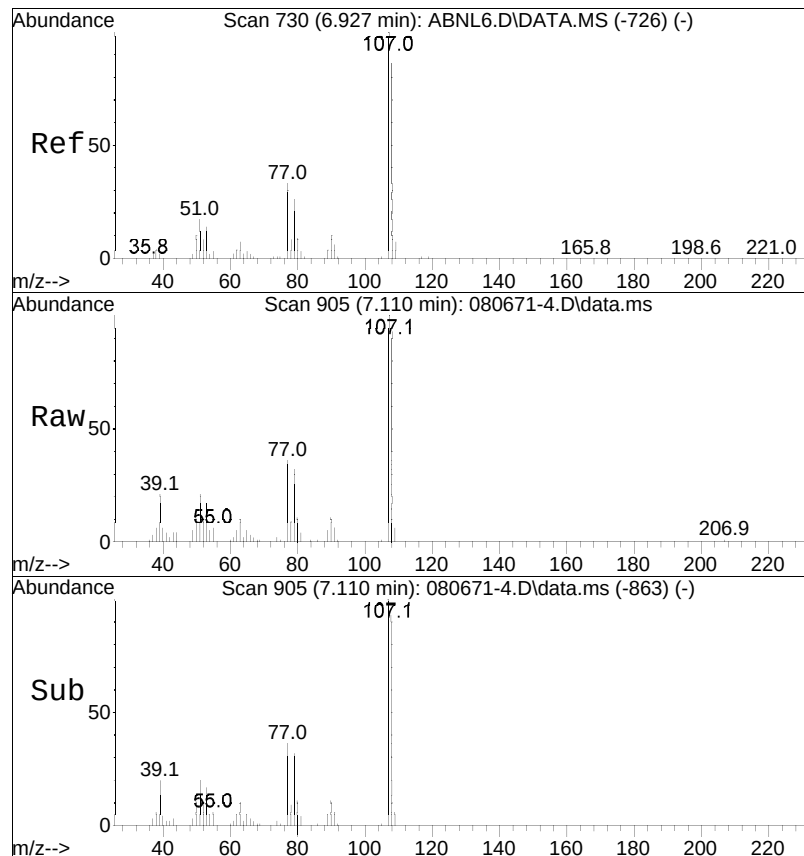




#17
 n-Nitrosodi-n-propylamine
 Concen: 1.32 ug/ml
 RT: 7.080 min Scan# 900
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

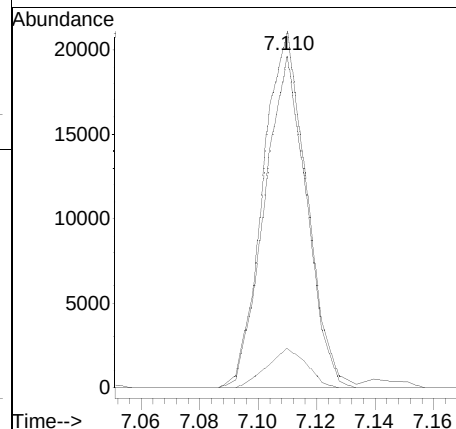
Tgt Ion:	70	Resp:	18265
Ion Ratio	Lower	Upper	
70	100		
130	18.4	18.2	27.4
101	8.6	7.8	11.8

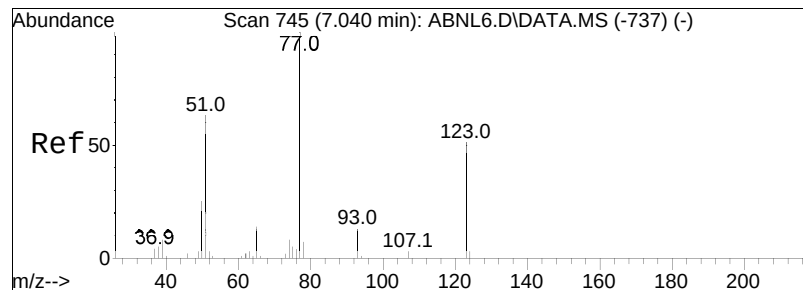




#18
 3-Methylphenol/4-Methylphenol
 Concen: 1.09 ug/ml
 RT: 7.110 min Scan# 905
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

Tgt Ion:	108	Resp:	19547
Ion Ratio	Lower	Upper	
108	100		
107	114.2	88.6	132.8
90	11.4	8.8	13.2





#20

Nitrobenzene

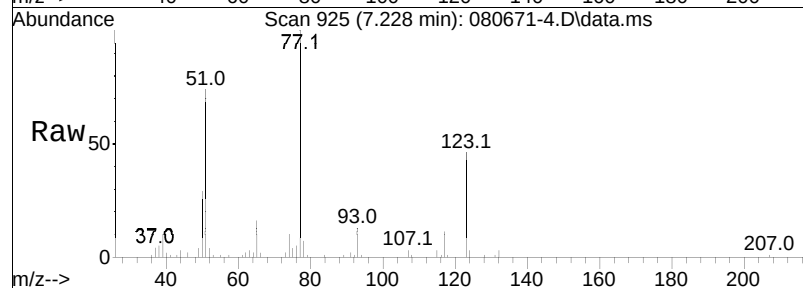
Concen: 1.58 ug/ml

RT: 7.228 min Scan# 925

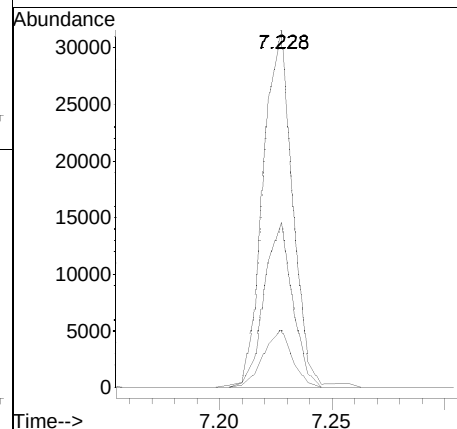
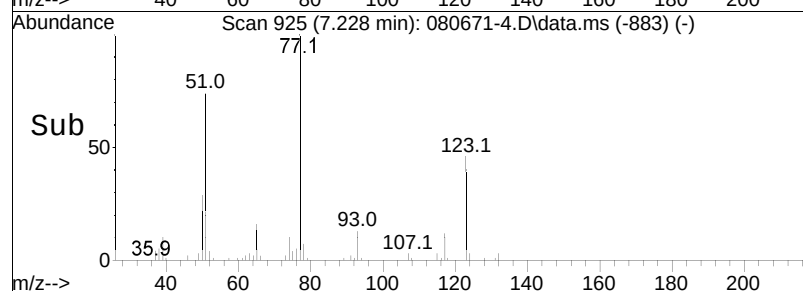
Delta R.T. -0.000 min

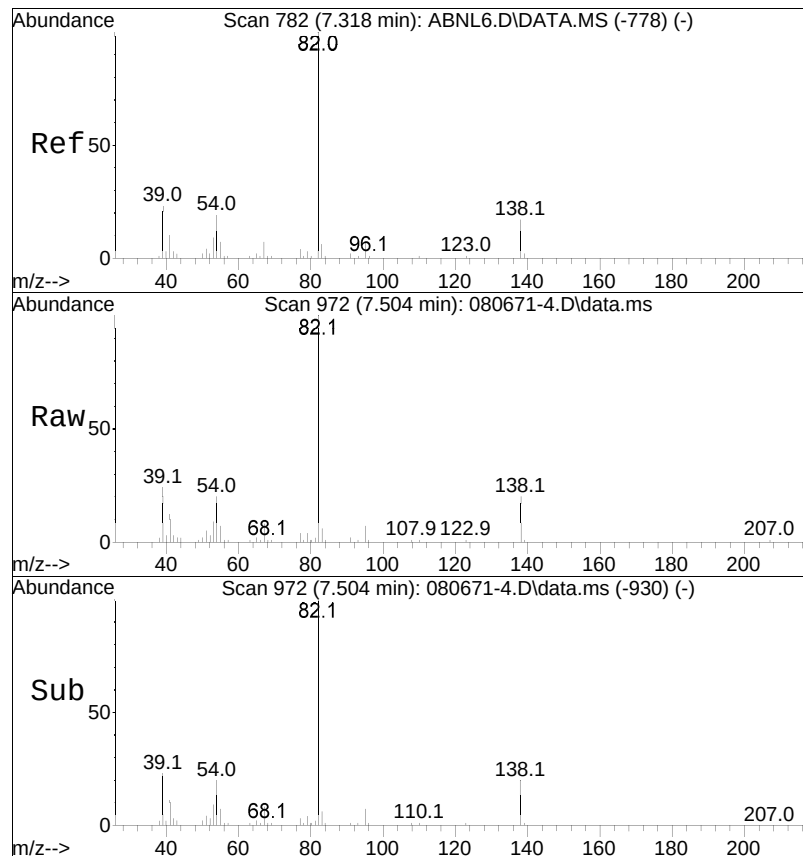
Lab File: 080671-4.D

Acq: 19 Jun 2025 5:02 pm



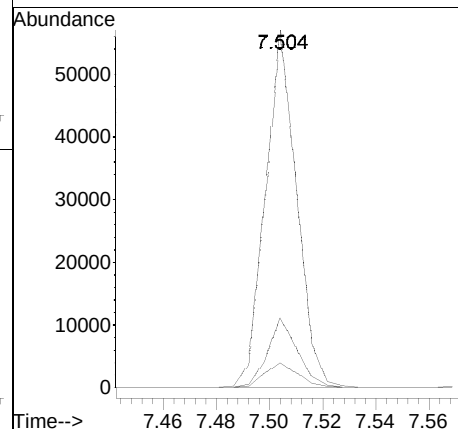
Tgt Ion:	77	Resp:	28558
Ion Ratio	Lower	Upper	
77	100		
123	44.8	36.3	54.5
65	16.0	11.6	17.4

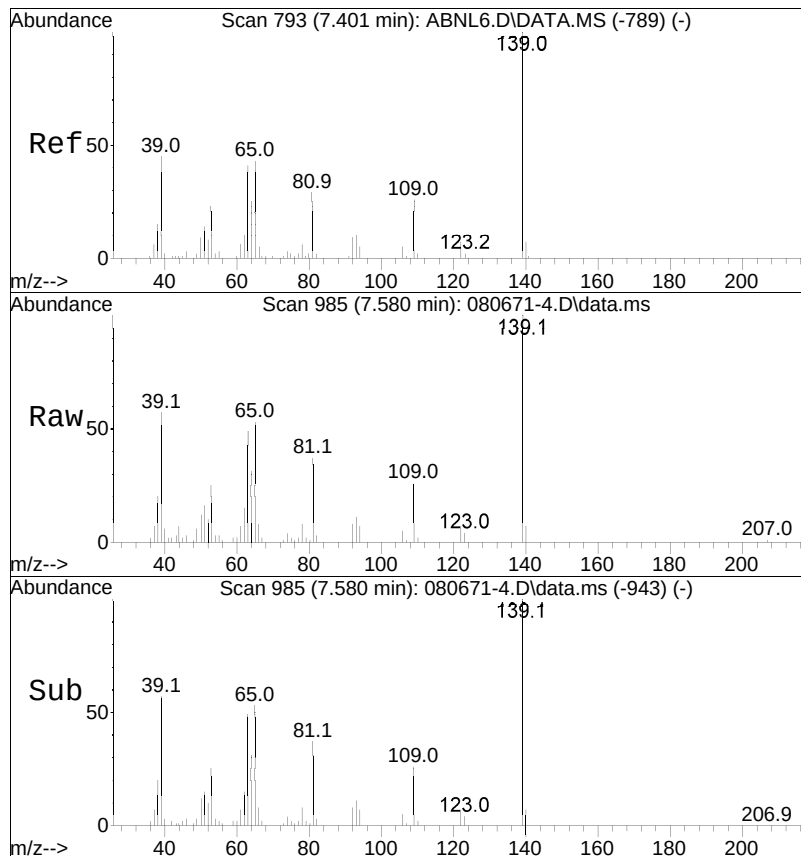




#21
 Isophorone
 Concen: 1.24 ug/ml
 RT: 7.504 min Scan# 972
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

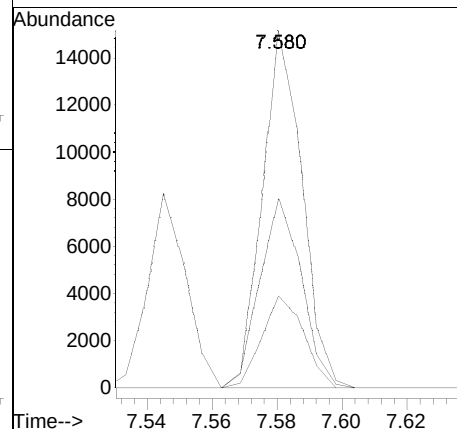
Tgt Ion	Ratio	Lower	Upper
82	100		
138	18.8	14.7	22.1
95	7.5	5.2	7.8

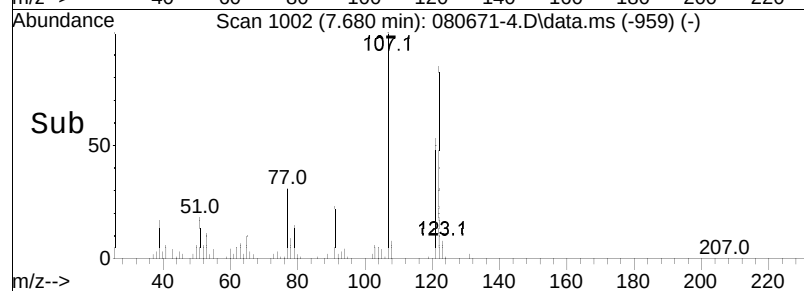
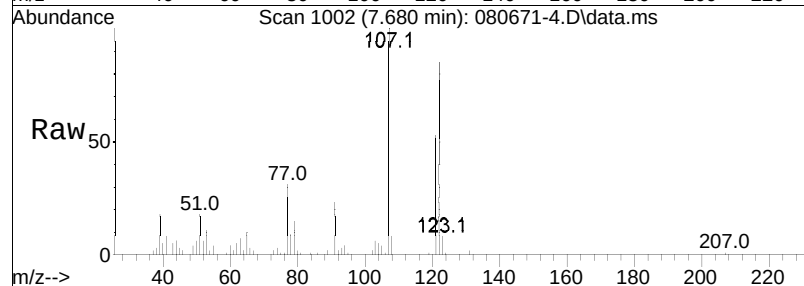
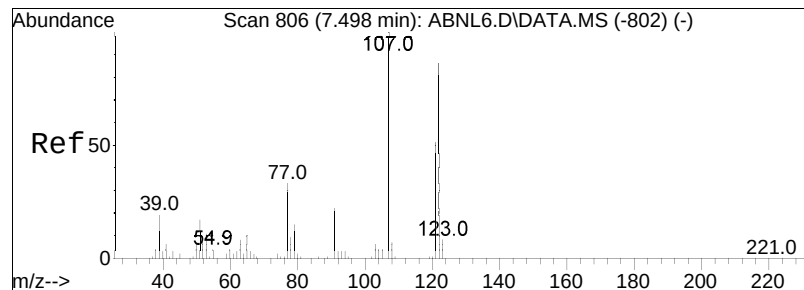




#22
 2-Nitrophenol
 Concen: 1.56 ug/ml
 RT: 7.580 min Scan# 985
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

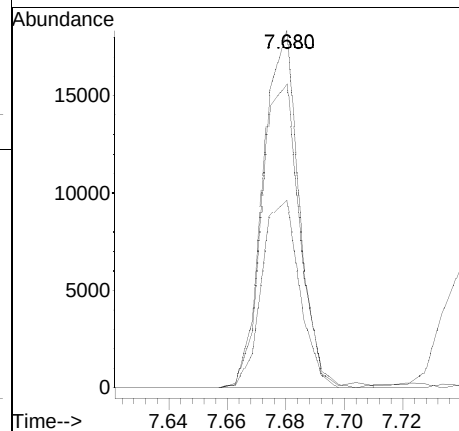
Tgt Ion	Ratio	Lower	Upper
139	100		
109	27.3	19.4	29.0
65	55.9	46.1	69.1

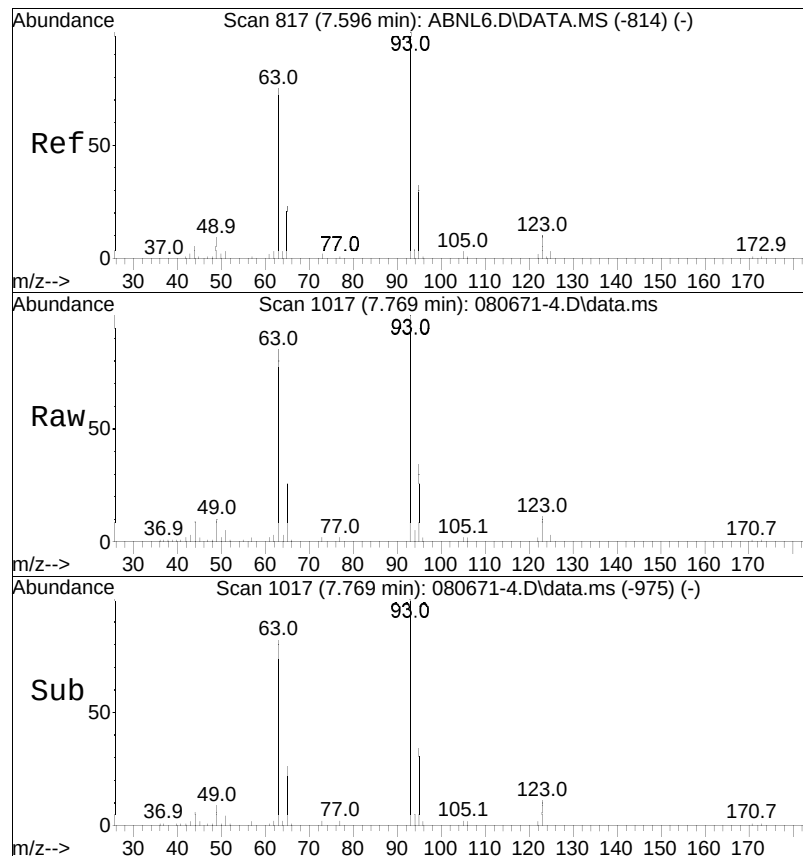




#23
 2,4-Dimethylphenol
 Concen: 0.81 ug/ml
 RT: 7.680 min Scan# 1002
 Delta R.T. 0.006 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

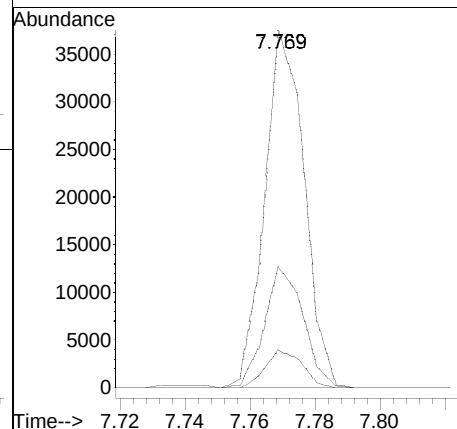
Tgt Ion	Ratio	Lower	Upper
107	100		
121	55.1	40.0	60.0
122	89.7	70.2	105.4

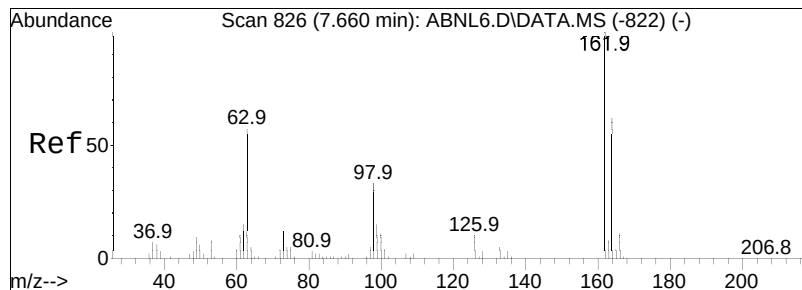




#24
 Bis(2-chloroethoxy)methane
 Concen: 1.18 ug/ml
 RT: 7.769 min Scan# 1017
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

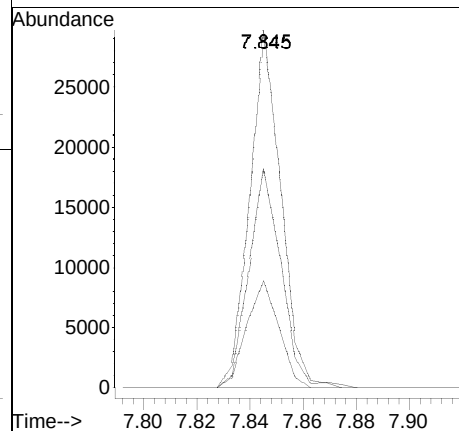
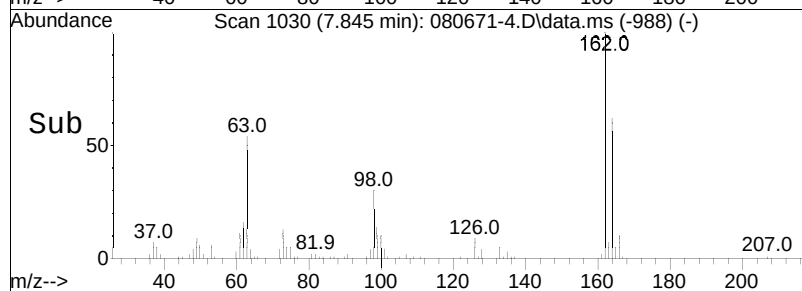
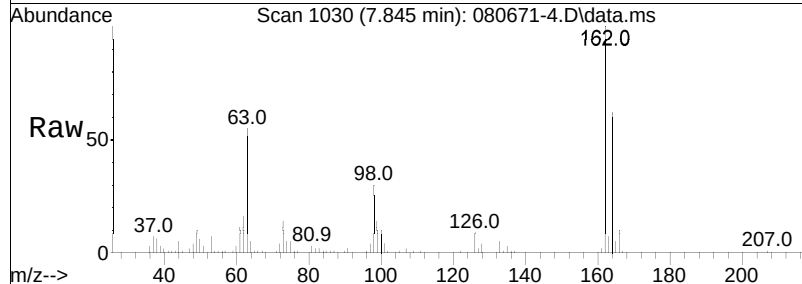
Tgt Ion:	93	Resp:	31391
Ion Ratio	Lower	Upper	
93	100		
95	33.4	25.8	38.8
123	10.1	10.1	15.1#

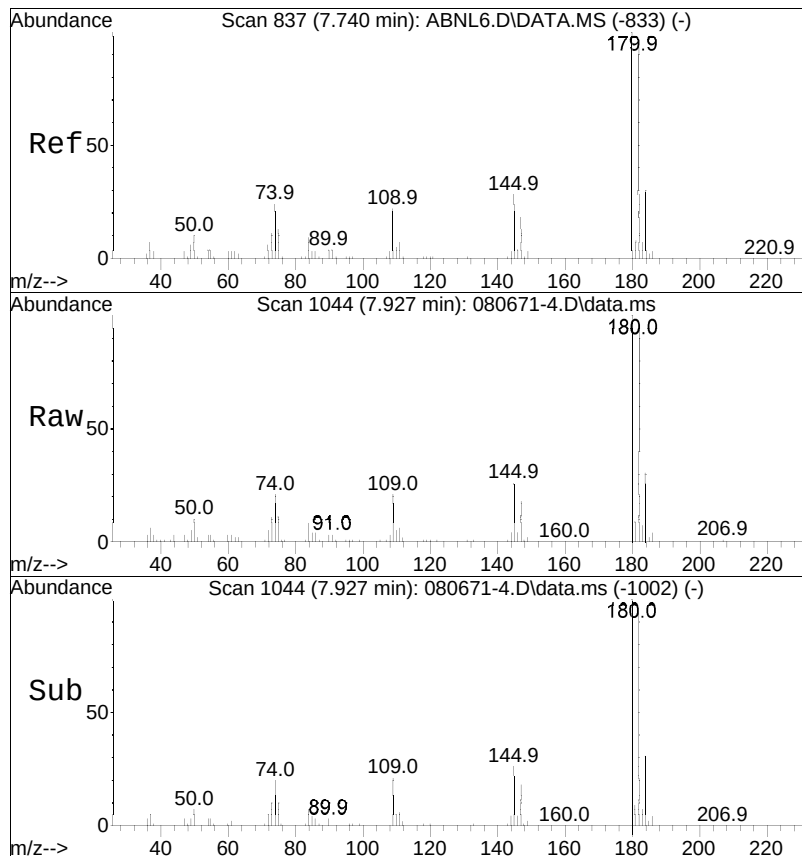




#25
 2,4-Dichlorophenol
 Concen: 1.31 ug/ml
 RT: 7.845 min Scan# 1030
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

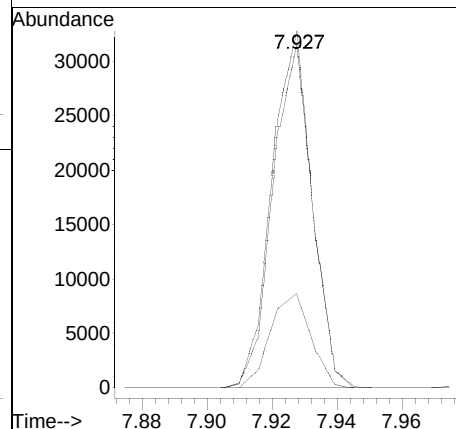
Tgt Ion:	162	Resp:	24055
Ion Ratio	Lower	Upper	
162	100		
164	63.2	51.0	76.4
98	31.0	32.2	48.2#

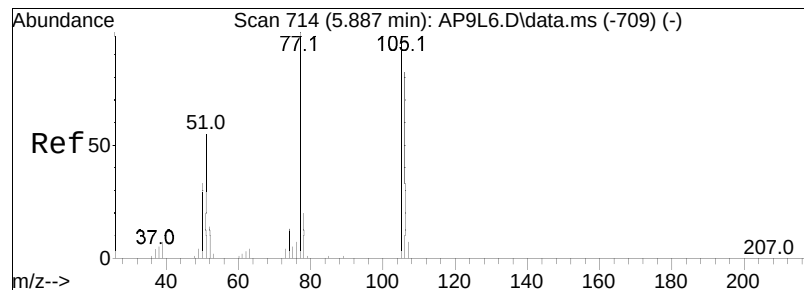




#26
 1,2,4-Trichlorobenzene
 Concen: 1.19 ug/ml
 RT: 7.927 min Scan# 1044
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

Tgt	Ion:180	Resp:	27925
Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.0	114.0
145	26.9	25.7	38.5





#28

Benzaldehyde

Concen: 1.53 ug/ml

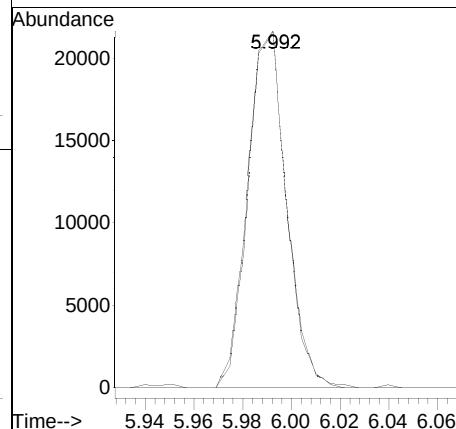
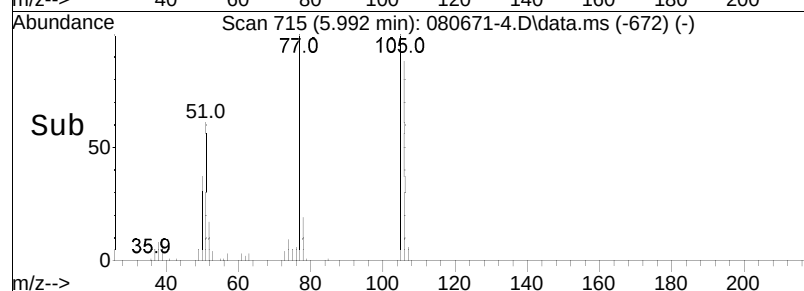
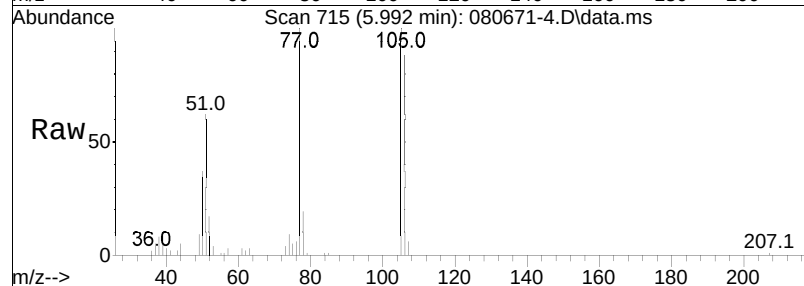
RT: 5.992 min Scan# 715

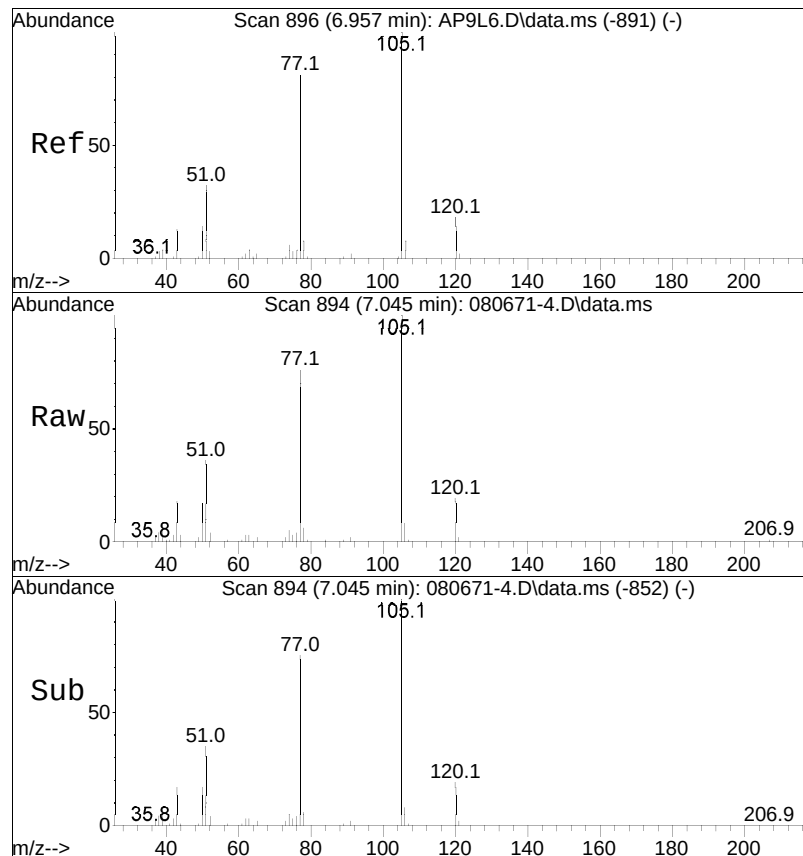
Delta R.T. 0.006 min

Lab File: 080671-4.D

Acq: 19 Jun 2025 5:02 pm

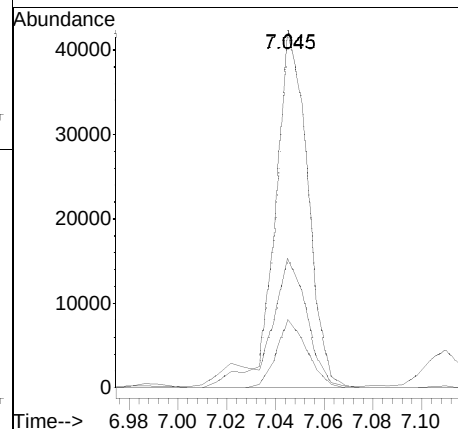
Tgt Ion	Ratio	Lower	Upper
105	100		
77	101.0	82.2	123.4

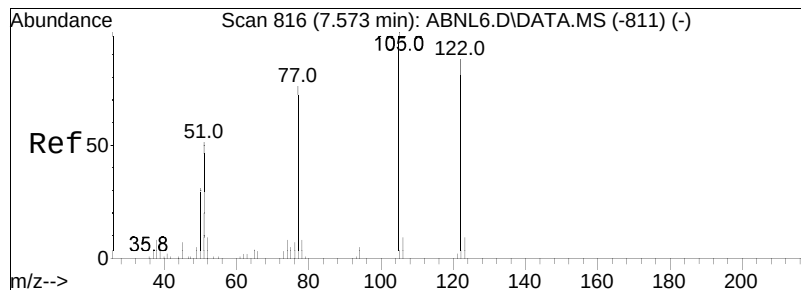




#29
 Acetophenone
 Concen: 1.47 ug/ml
 RT: 7.045 min Scan# 894
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

Tgt Ion:	105	Resp:	39237
Ion Ratio	Lower	Upper	
105	100		
120	18.0	20.5	30.7#
51	43.6	34.9	52.3





#37

Benzoic Acid

Concen: 1.39 ug/ml

RT: 7.739 min Scan# 1012

Delta R.T. -0.012 min

Lab File: 080671-4.D

Acq: 19 Jun 2025 5:02 pm

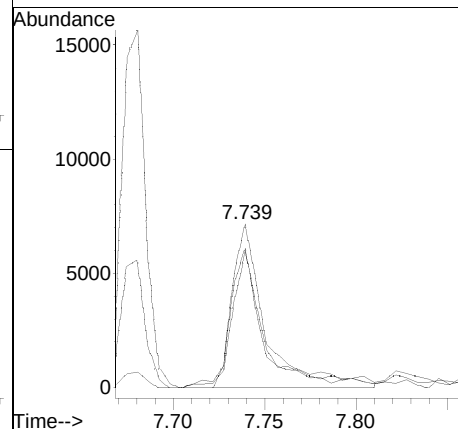
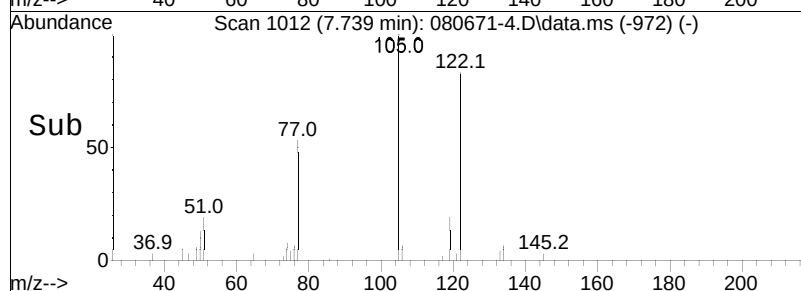
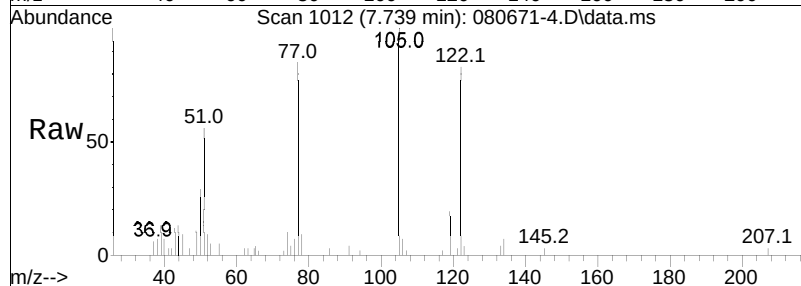
Tgt Ion:105 Resp: 9362

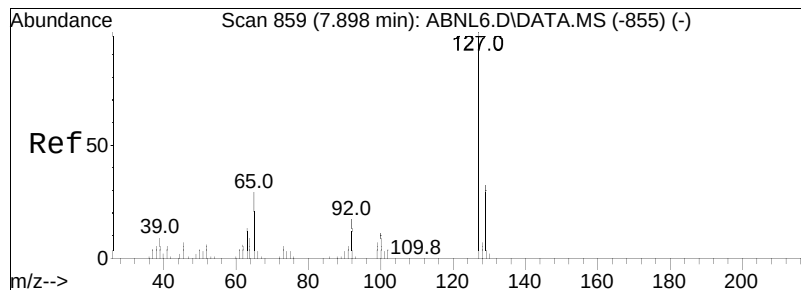
Ion Ratio Lower Upper

105 100

122 76.2 59.9 89.9

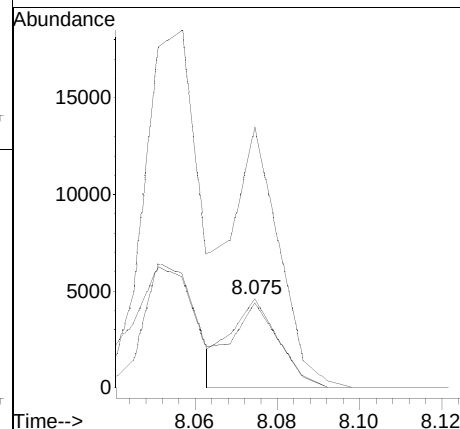
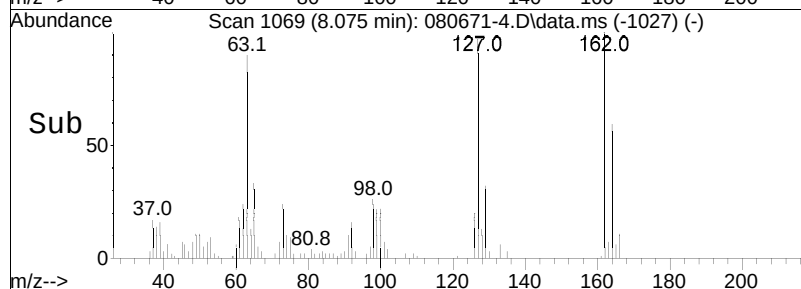
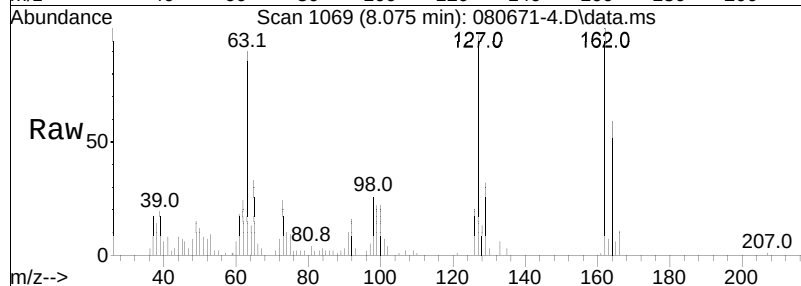
77 78.0 60.1 90.1

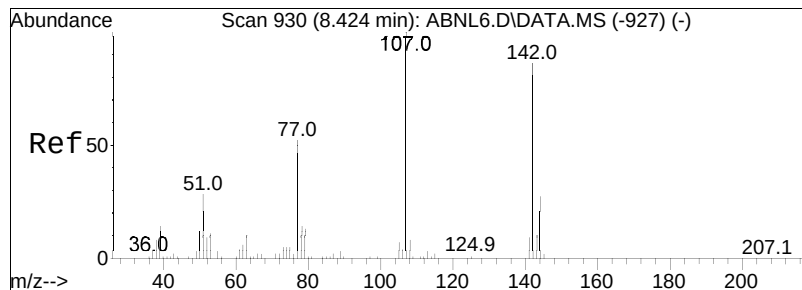




#38
 4-Chloroaniline
 Concen: 0.48 ug/ml M3
 RT: 8.075 min Scan# 1069
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

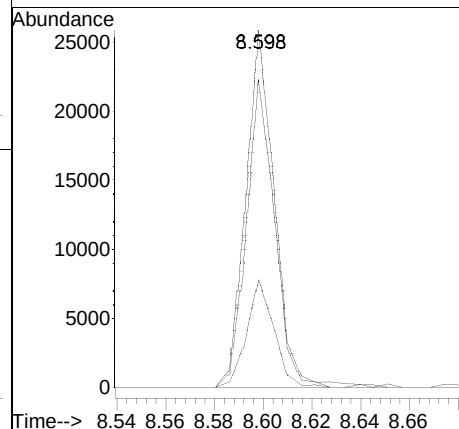
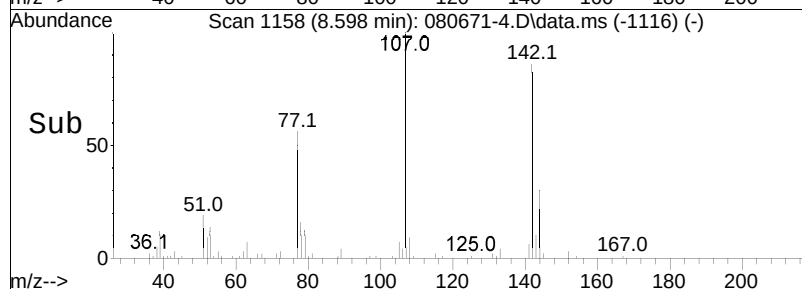
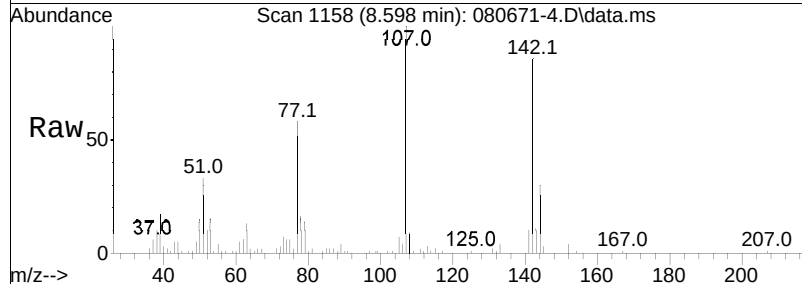
Tgt Ion	Ratio	Lower	Upper
65	100		
127	539.0	237.6	356.4#
129	176.9	76.3	114.5#

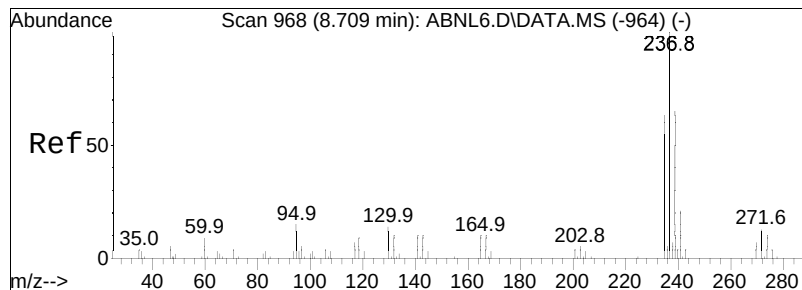




#40
 p-Chloro-m-cresol
 Concen: 1.11 ug/ml
 RT: 8.598 min Scan# 1158
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

Tgt Ion:	107	Resp:	20955
Ion Ratio	Lower	Upper	
107	100		
144	28.7	20.9	31.3
142	83.9	66.1	99.1





#43

Hexachlorocyclopentadiene

Concen: 1.03 ug/ml

RT: 8.886 min Scan# 1207

Delta R.T. -0.000 min

Lab File: 080671-4.D

Acq: 19 Jun 2025 5:02 pm

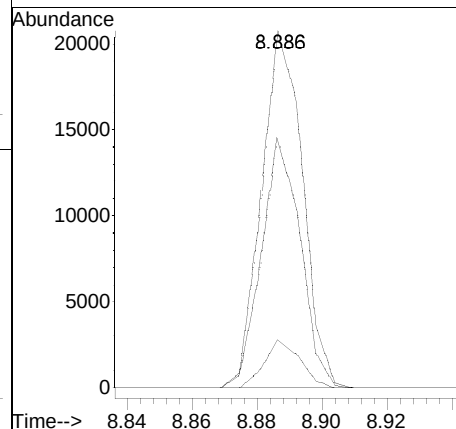
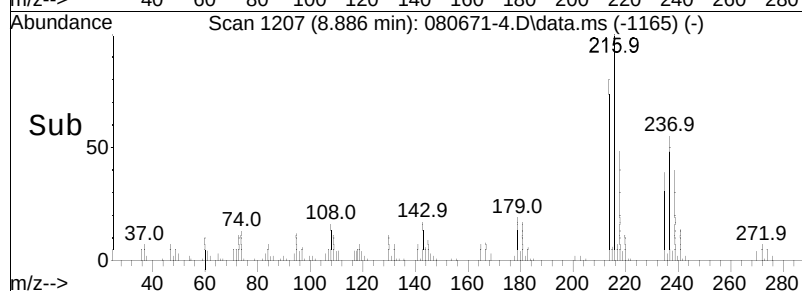
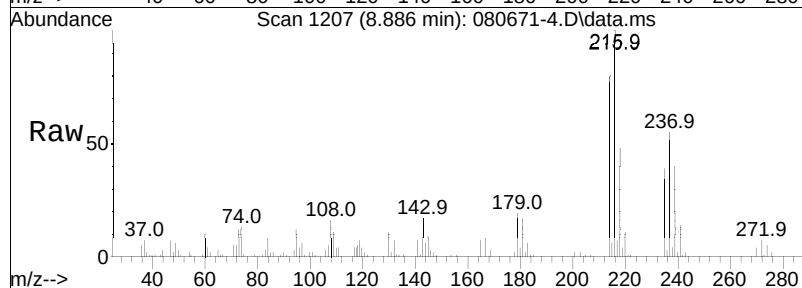
Tgt Ion: 237 Resp: 18082

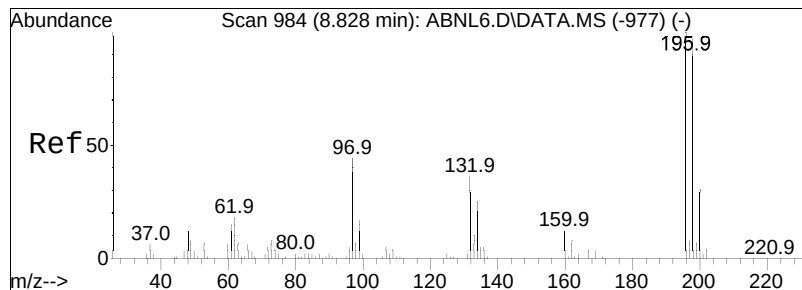
Ion Ratio Lower Upper

237 100

235 66.7 49.7 74.5

272 11.8 9.8 14.6





#44

2,4,6-Trichlorophenol

Concen: 1.37 ug/ml

RT: 9.010 min Scan# 1228

Delta R.T. -0.000 min

Lab File: 080671-4.D

Acq: 19 Jun 2025 5:02 pm

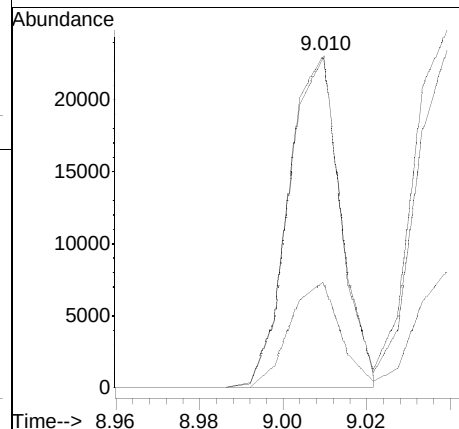
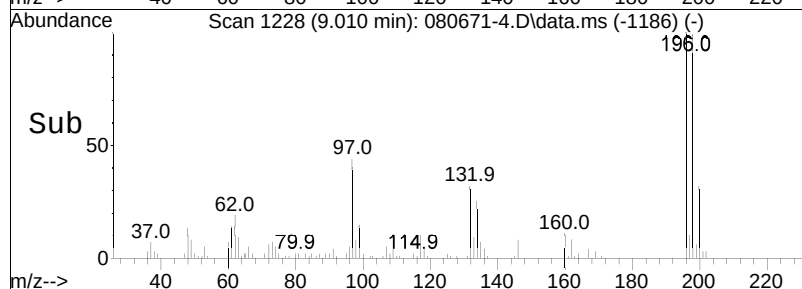
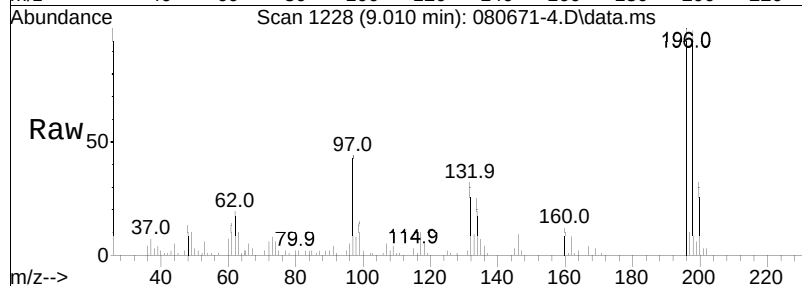
Tgt Ion:196 Resp: 20011

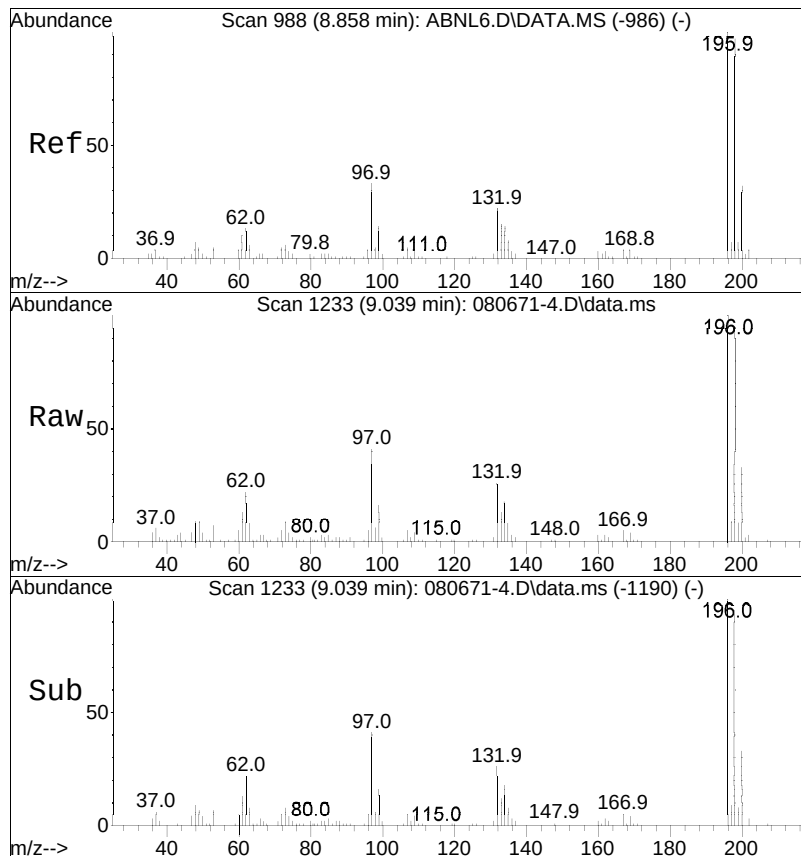
Ion Ratio Lower Upper

196 100

198 99.0 77.5 116.3

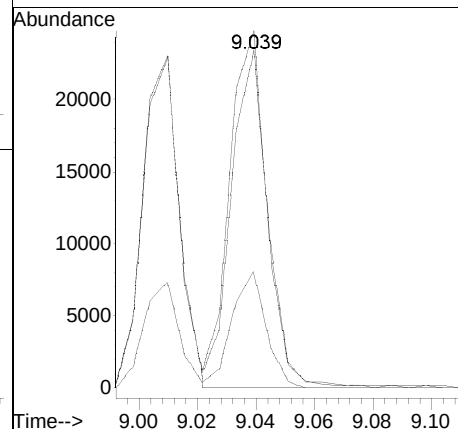
200 31.1 23.8 35.6

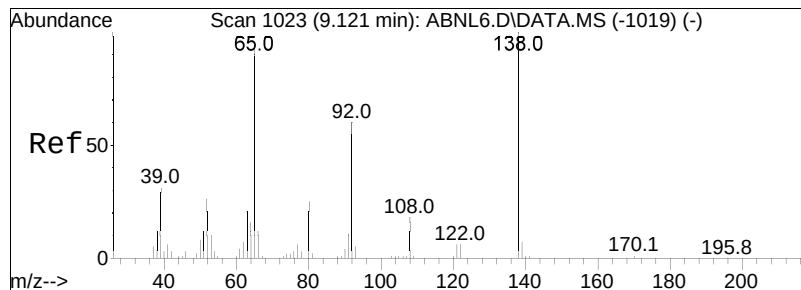




#45
 2,4,5-Trichlorophenol
 Concen: 1.48 ug/ml
 RT: 9.039 min Scan# 1233
 Delta R.T. 0.006 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

Tgt Ion:	196	Resp:	22022
Ion Ratio	Lower	Upper	
196	100		
200	29.9	25.4	38.0
198	94.4	78.0	117.0





#48

2-Nitroaniline

Concen: 1.40 ug/ml

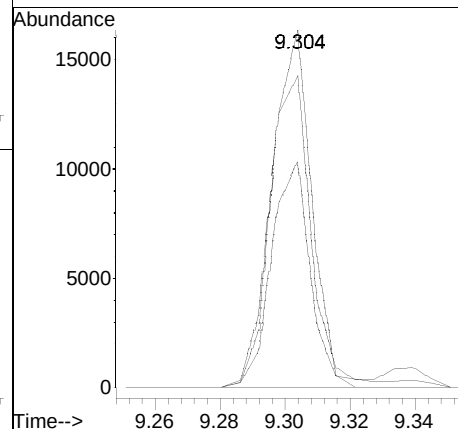
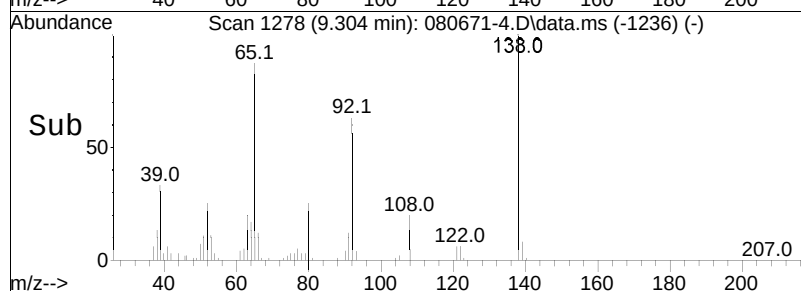
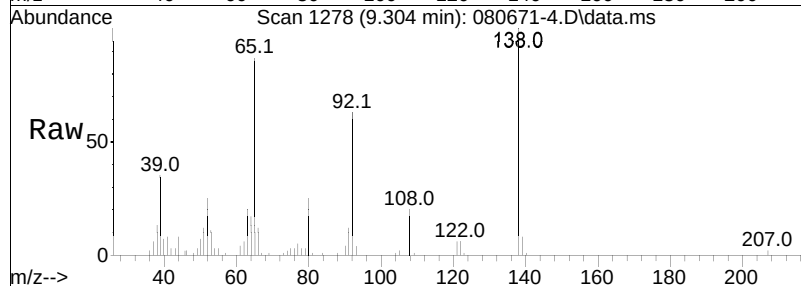
RT: 9.304 min Scan# 1278

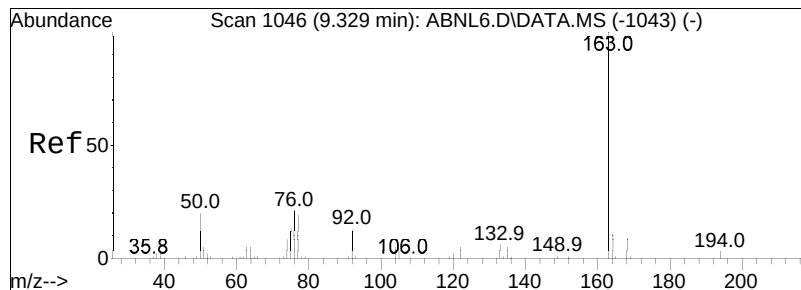
Delta R.T. -0.000 min

Lab File: 080671-4.D

Acq: 19 Jun 2025 5:02 pm

Tgt	Ion:138	Resp:	13521
Ion	Ratio	Lower	Upper
138	100		
92	66.3	53.5	80.3
65	93.5	86.3	129.5





#51

Dimethyl phthalate

Concen: 1.36 ug/ml

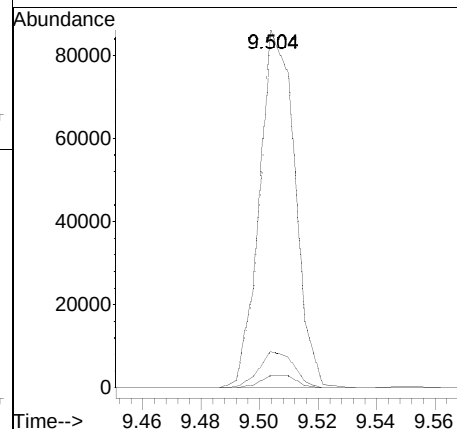
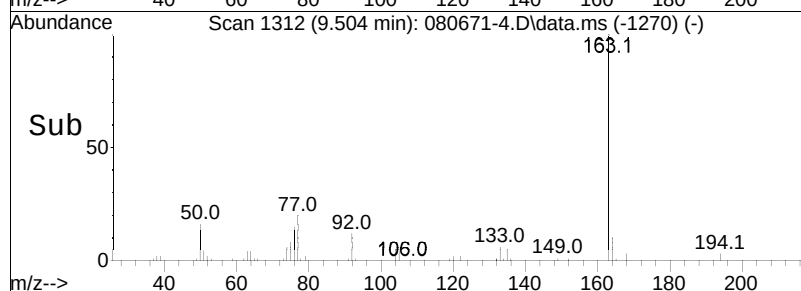
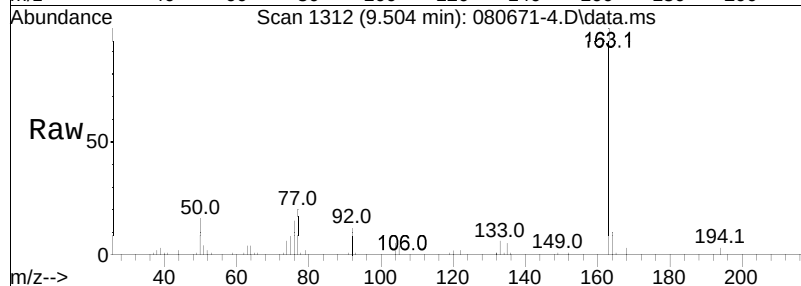
RT: 9.504 min Scan# 1312

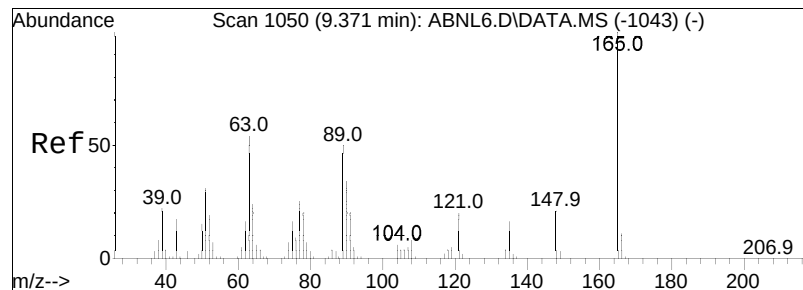
Delta R.T. -0.000 min

Lab File: 080671-4.D

Acq: 19 Jun 2025 5:02 pm

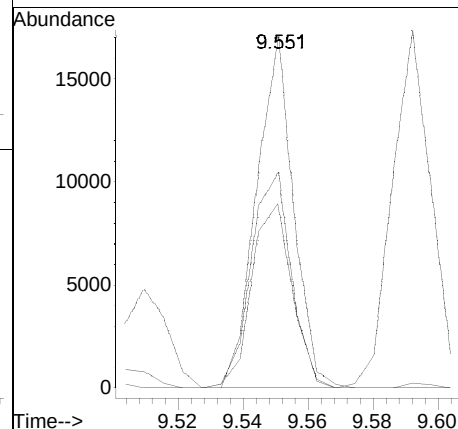
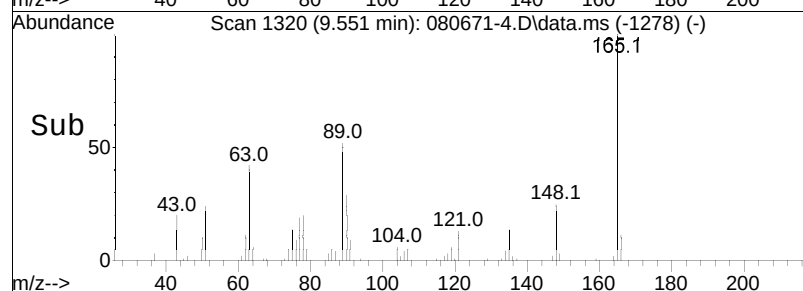
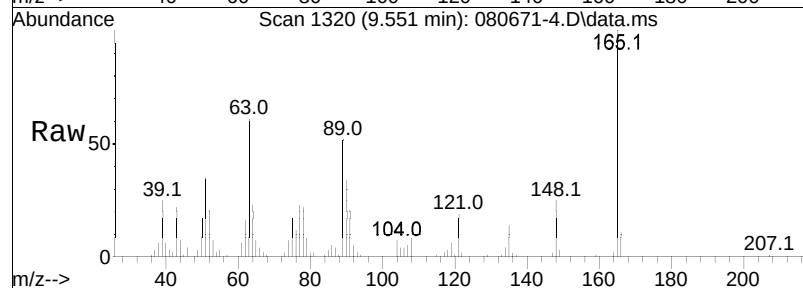
Tgt Ion:	163	Resp:	71750
Ion Ratio	Lower	Upper	
163	100		
194	3.6	3.5	5.3
164	10.3	7.9	11.9

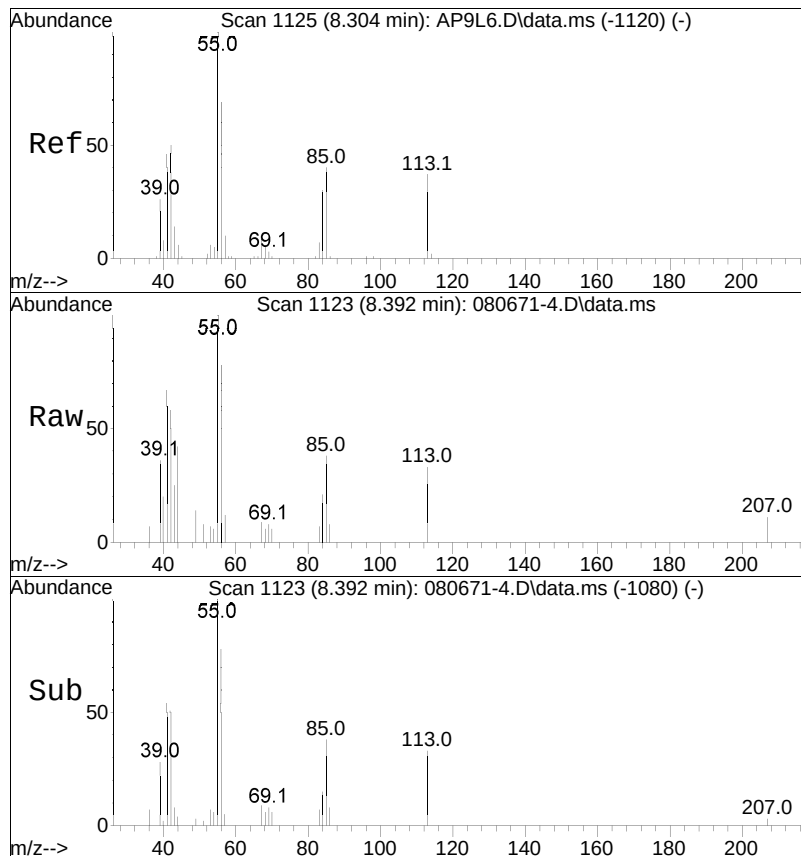




#53
 2,6-Dinitrotoluene
 Concen: 1.54 ug/ml
 RT: 9.551 min Scan# 1320
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

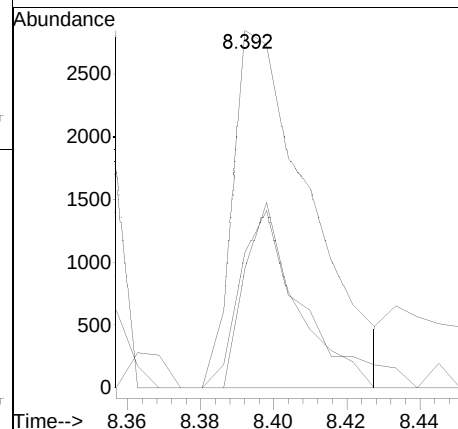
Tgt Ion	Ratio	Lower	Upper
165	100		
89	57.3	54.2	81.2
63	66.5	64.2	96.2

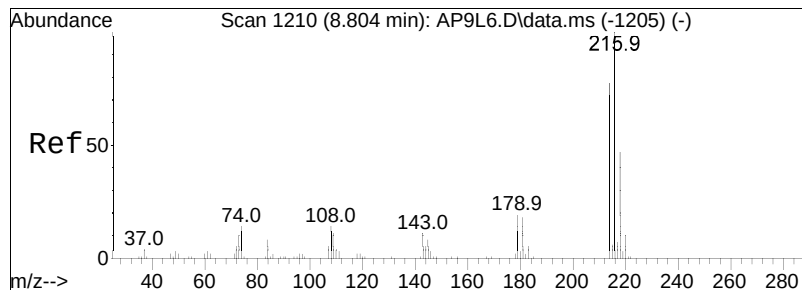




#60
 Caprolactam
 Concen: 0.43 ug/ml
 RT: 8.392 min Scan# 1123
 Delta R.T. 0.006 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

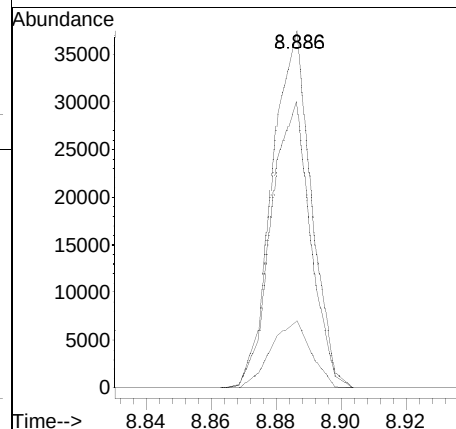
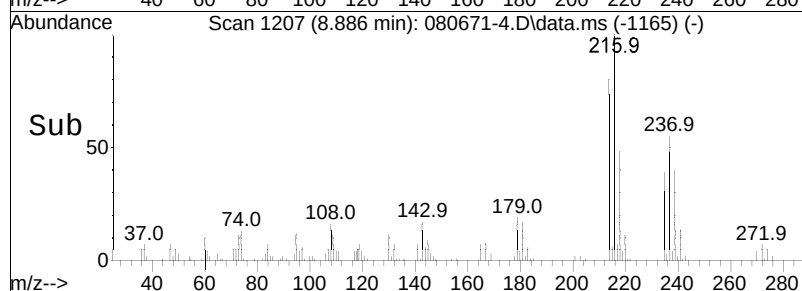
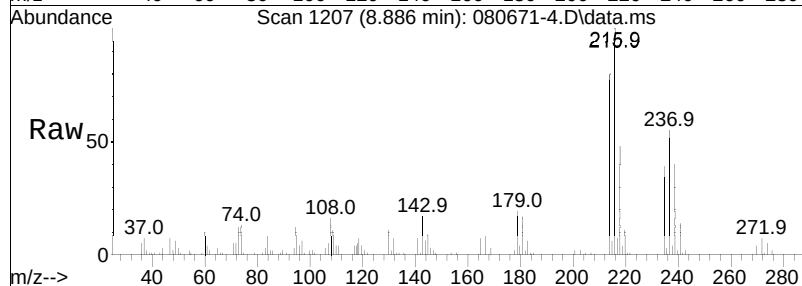
Tgt Ion	Ratio	Lower	Upper
55	100		
85	41.3	19.8	29.6#
113	35.3	29.6	44.4

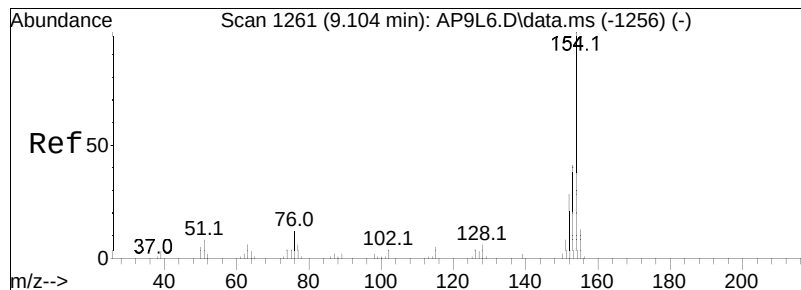




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 1.33 ug/ml
 RT: 8.886 min Scan# 1207
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

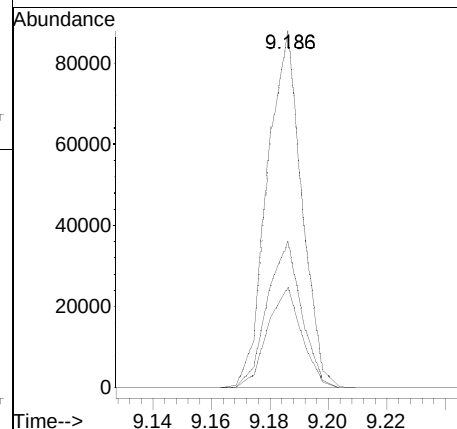
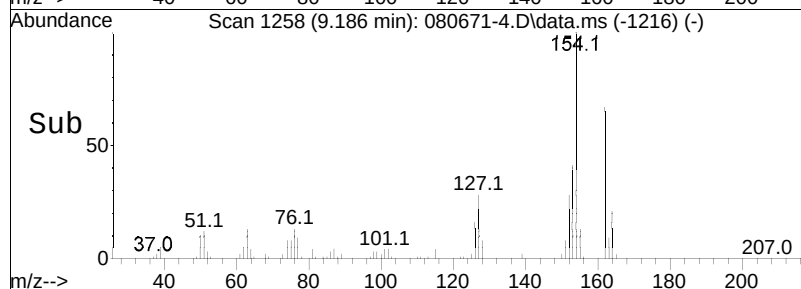
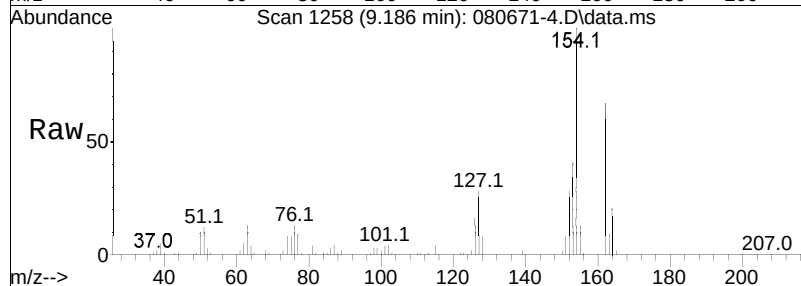
Tgt	Ion	Ratio	Resp	Lower	Upper
216	100		31175		
214	80.7	63.7		95.5	
179	19.3	19.0		28.6	

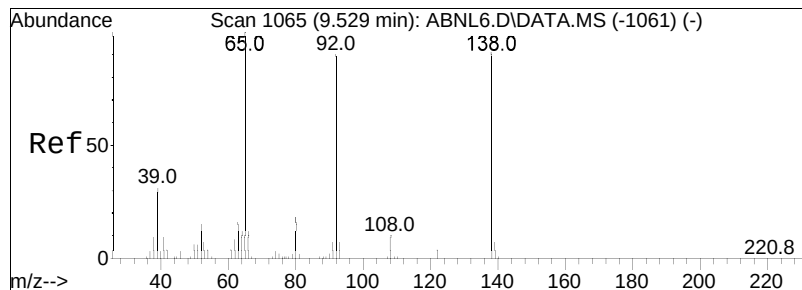




#62
 Biphenyl
 Concen: 1.39 ug/ml
 RT: 9.186 min Scan# 1258
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.9	32.3	48.5
152	28.2	22.5	33.7





#64

3-Nitroaniline

Concen: 1.12 ug/ml

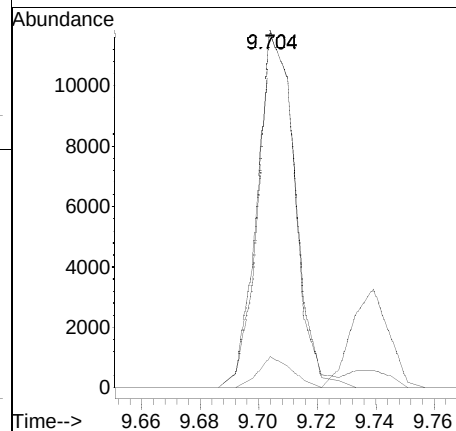
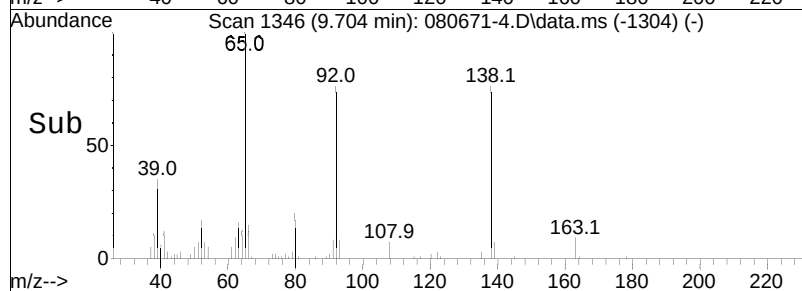
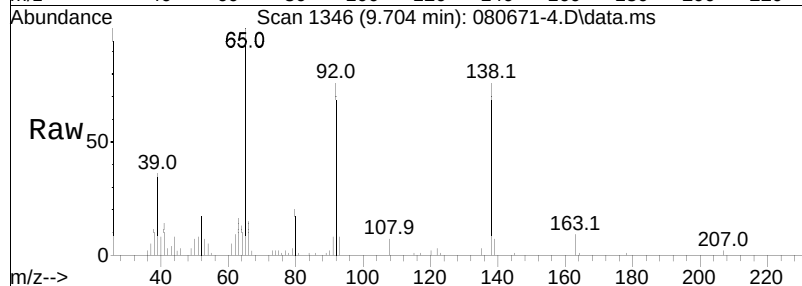
RT: 9.704 min Scan# 1346

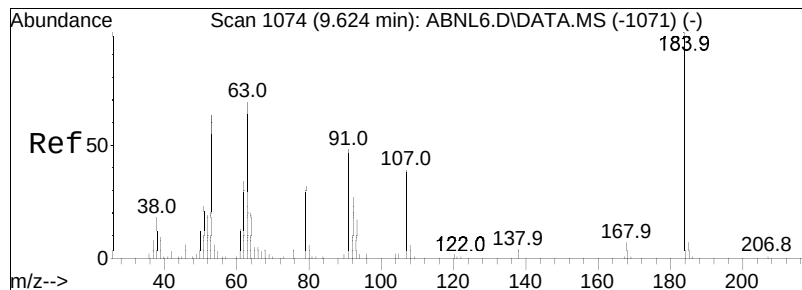
Delta R.T. -0.000 min

Lab File: 080671-4.D

Acq: 19 Jun 2025 5:02 pm

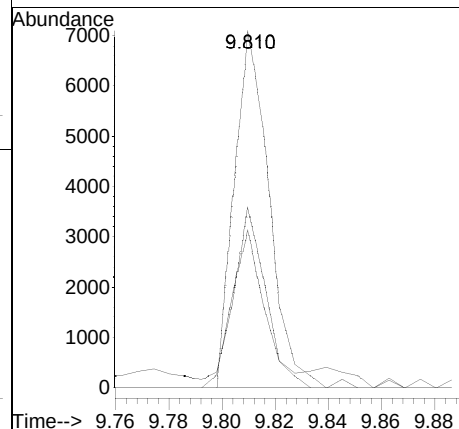
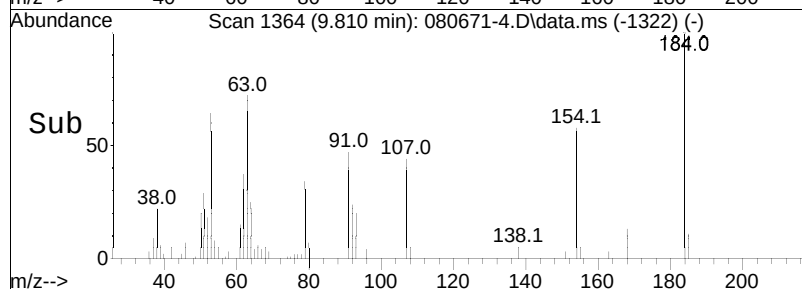
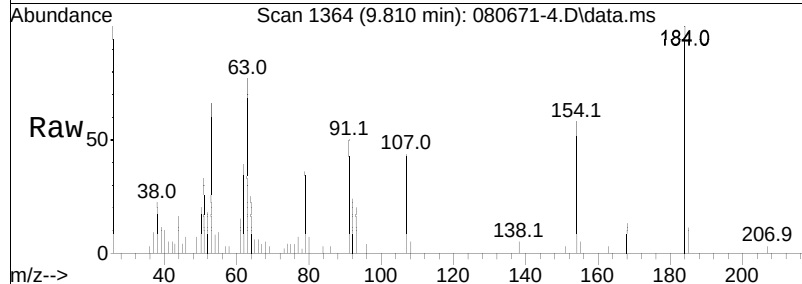
Tgt Ion	Ratio	Lower	Upper
138	100		
92	101.7	93.4	140.2
108	7.9	9.5	14.3

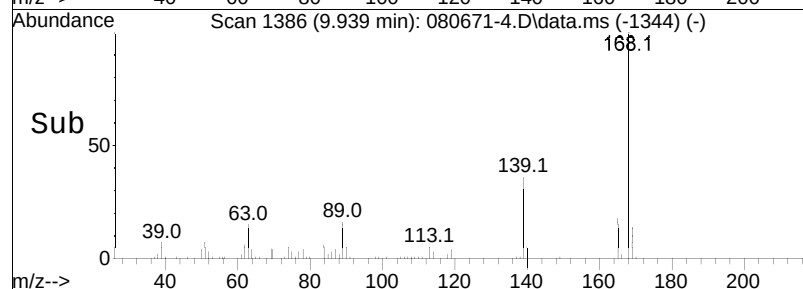
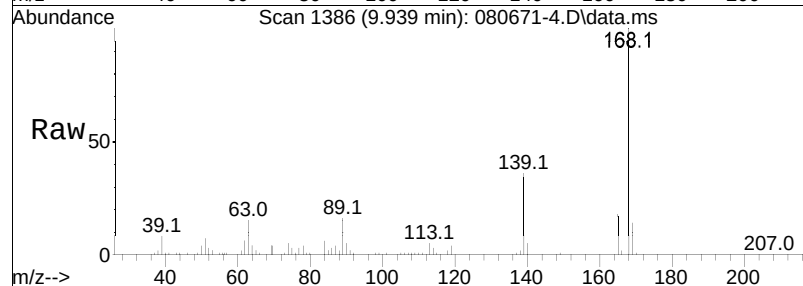
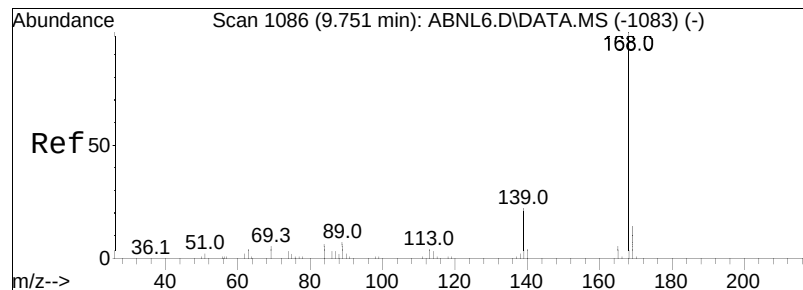




#66
 2,4-Dinitrophenol
 Concen: 1.47 ug/ml
 RT: 9.810 min Scan# 1364
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

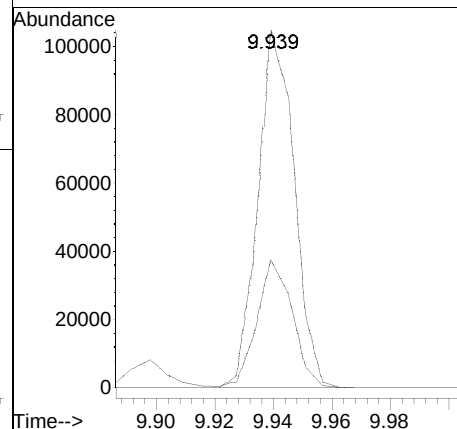
Tgt Ion	Ratio	Lower	Upper
184	100		
107	41.5	37.7	56.5
91	42.1	46.3	69.5

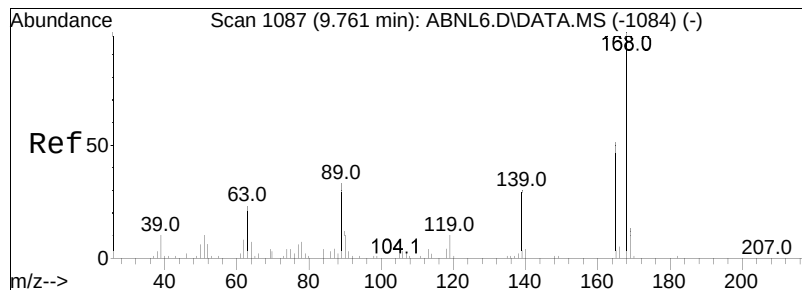




#67
 Dibenzofuran
 Concen: 1.29 ug/ml
 RT: 9.939 min Scan# 1386
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

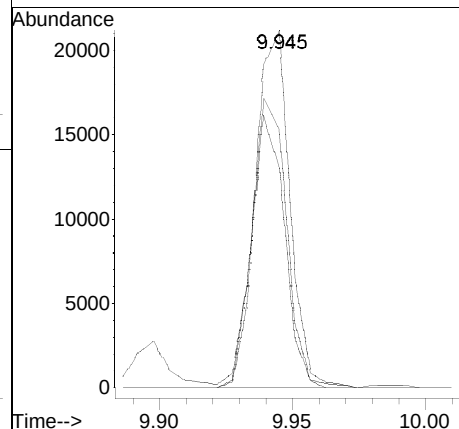
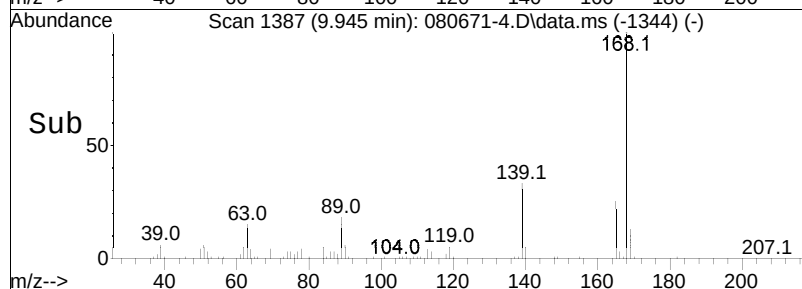
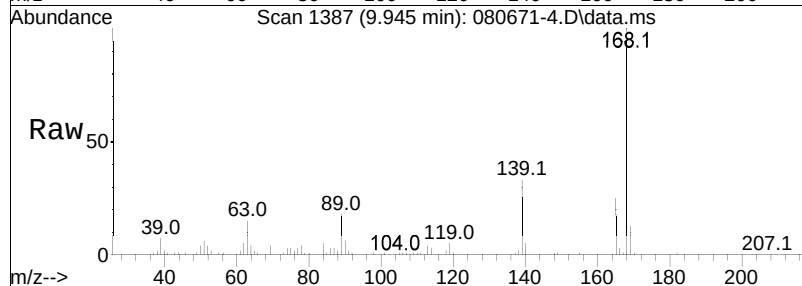
Tgt Ion	Ratio	Lower	Upper
168	100		
139	35.2	31.4	47.2

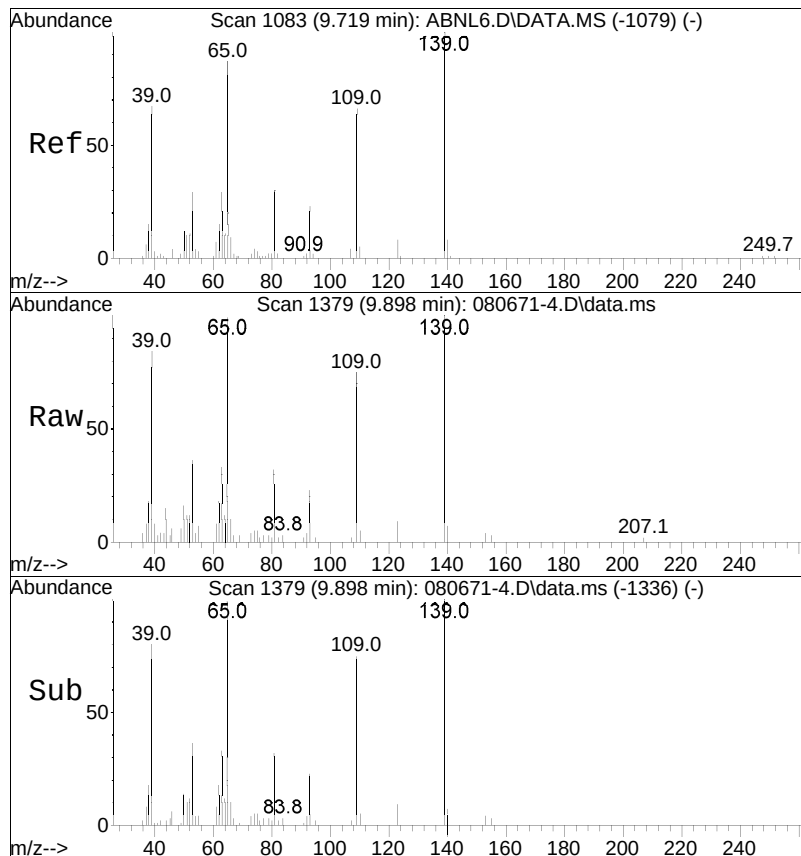




#68
 2,4-Dinitrotoluene
 Concen: 1.59 ug/ml
 RT: 9.945 min Scan# 1387
 Delta R.T. 0.006 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

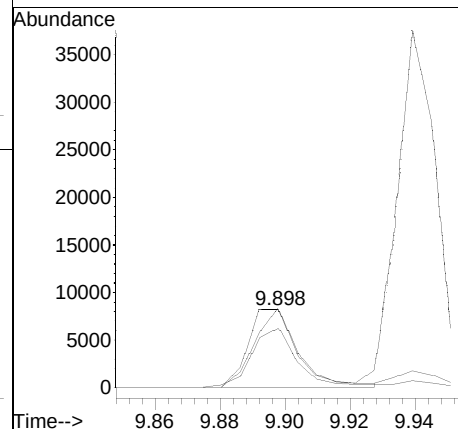
Tgt Ion	Ratio	Lower	Upper
165	100		
89	80.7	72.0	108.0
63	74.6	52.7	79.1

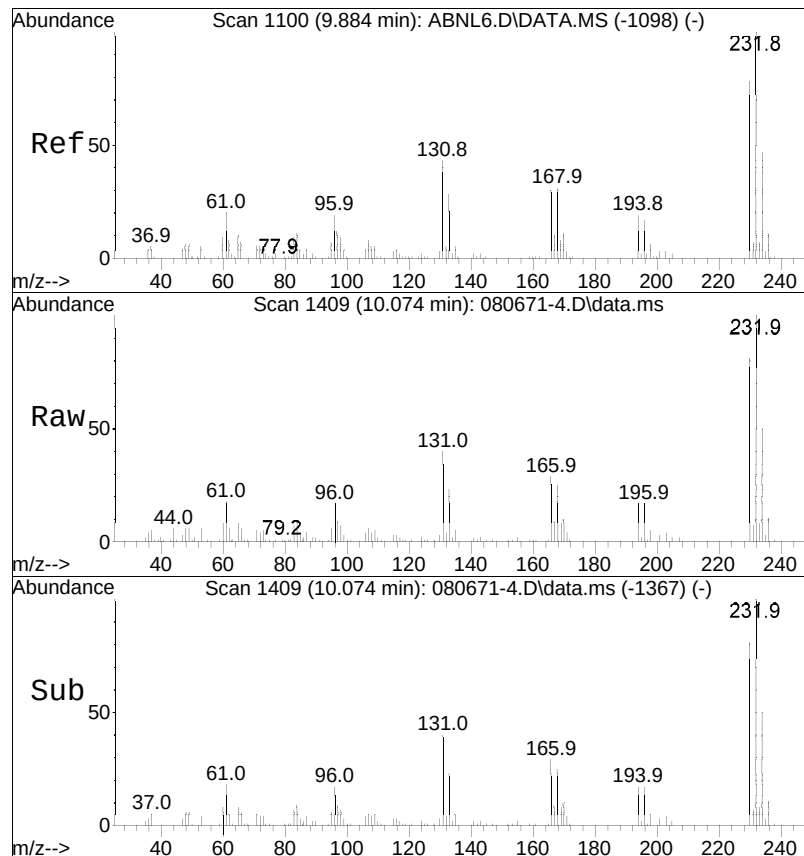




#69
 4-Nitrophenol
 Concen: 1.24 ug/ml
 RT: 9.898 min Scan# 1379
 Delta R.T. 0.006 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

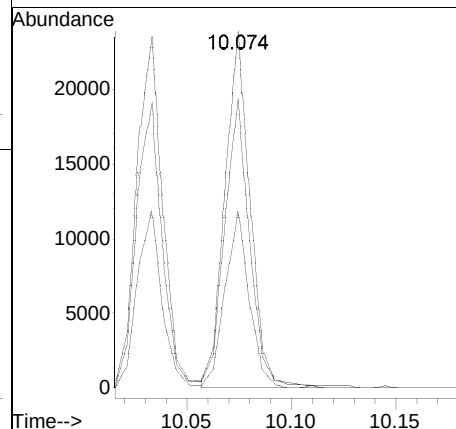
Tgt Ion:	65	Resp:	8692
Ion Ratio	Lower	Upper	
65	100		
109	70.4	47.4	71.2
139	88.7	76.6	115.0

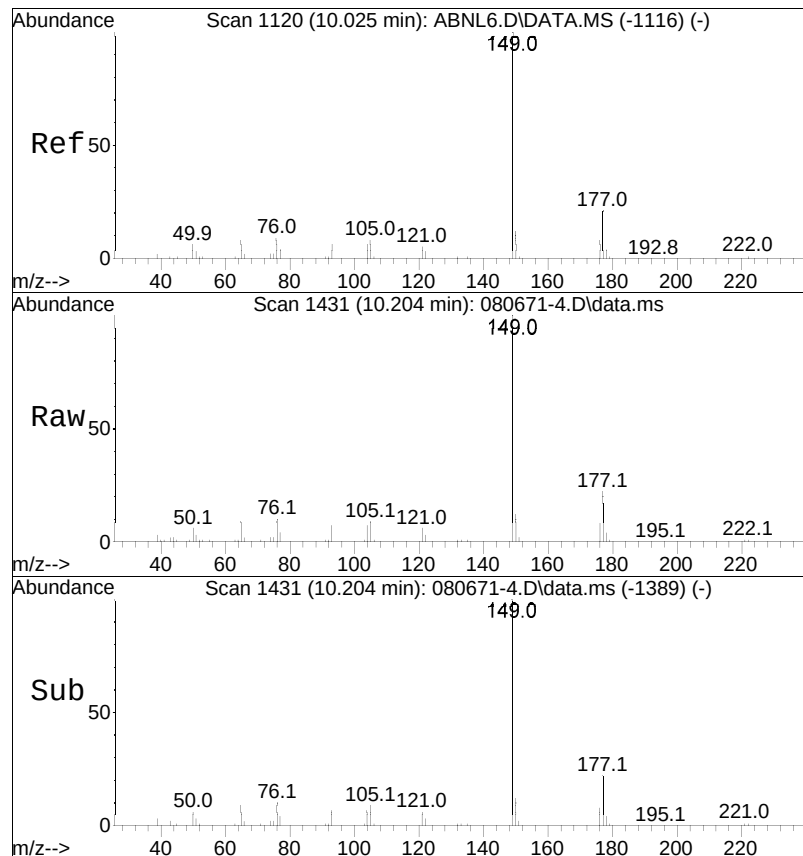




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 1.61 ug/ml
 RT: 10.074 min Scan# 1409
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

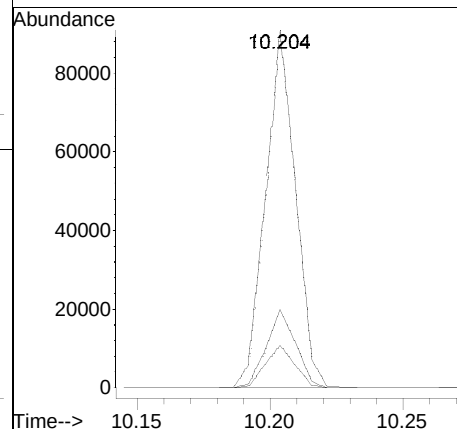
Tgt Ion:	232	Resp:	20153
Ion Ratio	Lower	Upper	
232	100		
230	80.1	61.8	92.8
234	47.0	36.2	54.2

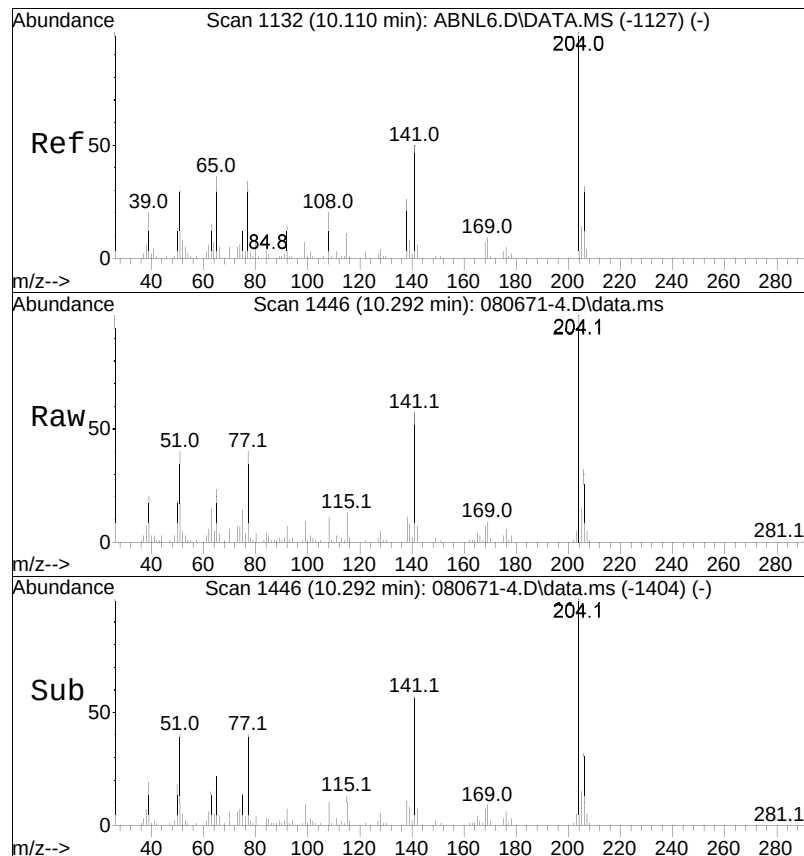




#72
 Diethyl phthalate
 Concen: 1.42 ug/ml
 RT: 10.204 min Scan# 1431
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

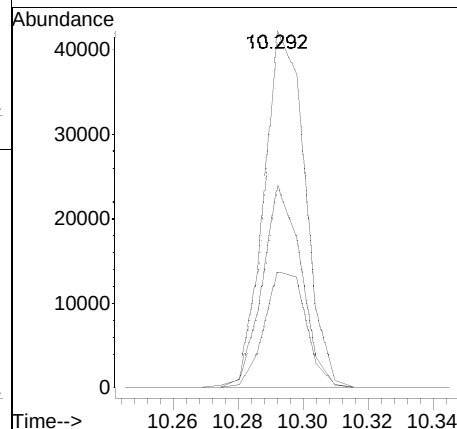
Tgt	Ion	Ratio	Lower	Upper
149	100			
177	21.6	16.1	24.1	
150	11.8	9.4	14.2	

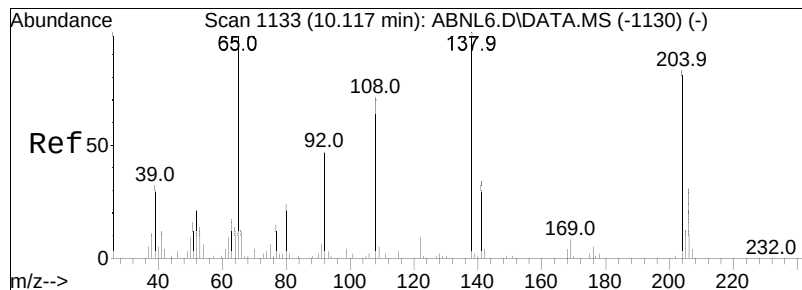




#74
 4-Chlorophenyl phenyl ether
 Concen: 1.37 ug/ml
 RT: 10.292 min Scan# 1446
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

Tgt Ion:	204	Resp:	36781
Ion Ratio	Lower	Upper	
204	100		
206	33.1	25.8	38.6
141	53.4	53.6	80.4#





#75

4-Nitroaniline

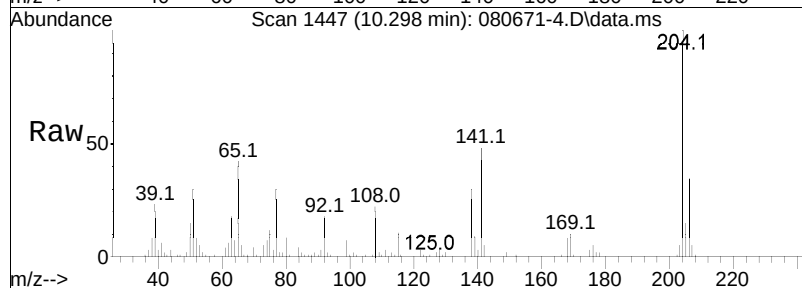
Concen: 1.14 ug/ml

RT: 10.298 min Scan# 1447

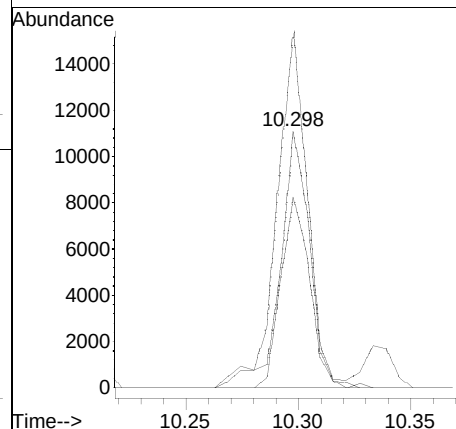
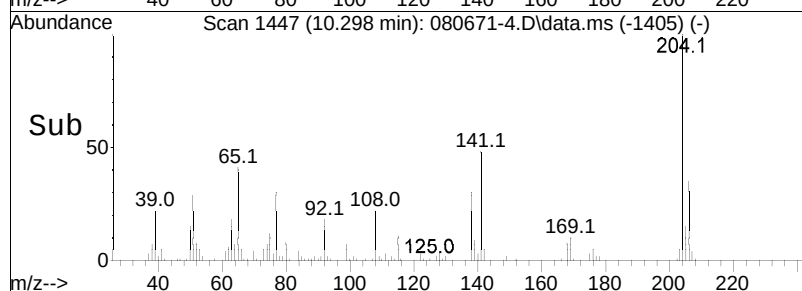
Delta R.T. -0.000 min

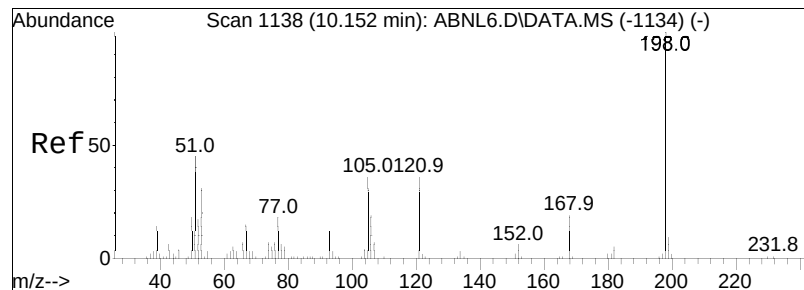
Lab File: 080671-4.D

Acq: 19 Jun 2025 5:02 pm



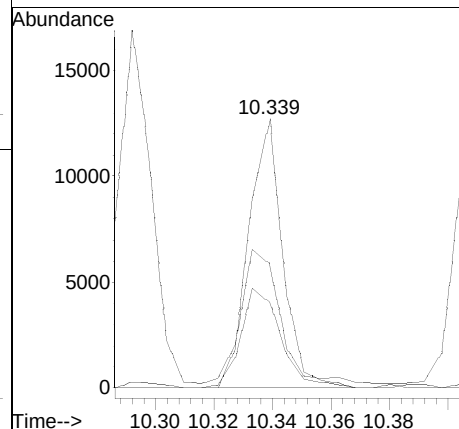
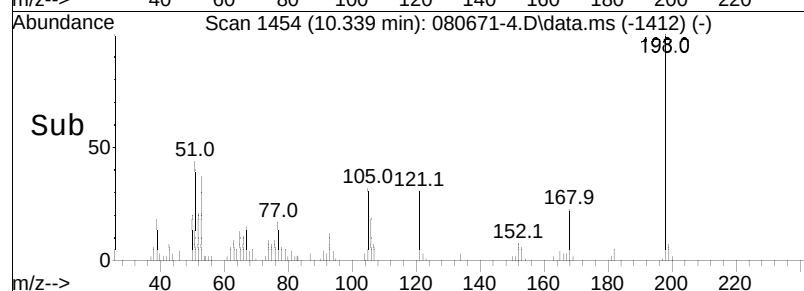
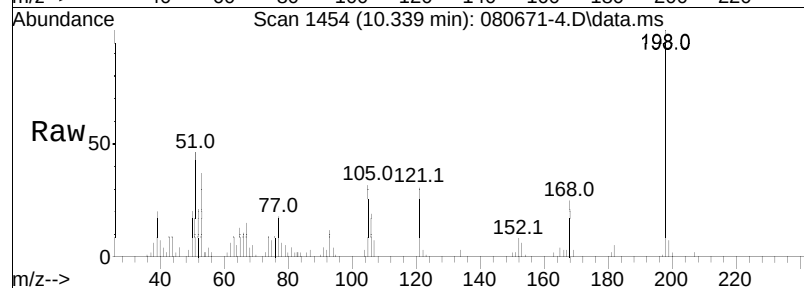
Tgt Ion:	138	Resp:	10155
Ion Ratio	Lower	Upper	
138	100		
108	71.8	52.1	78.1
65	141.3	115.0	172.6

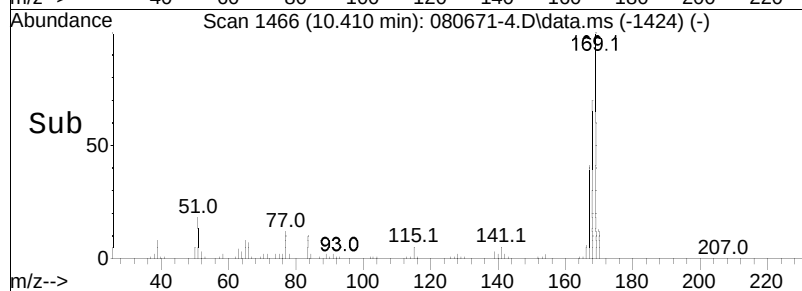
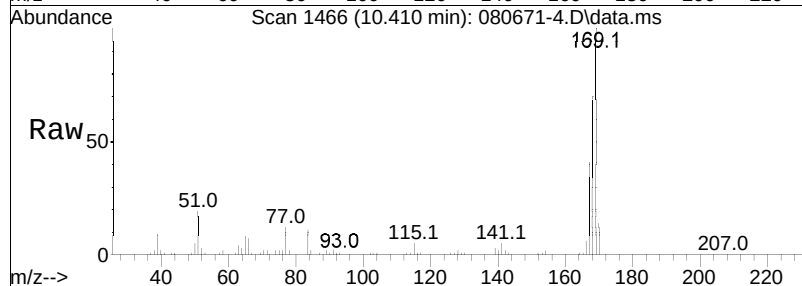
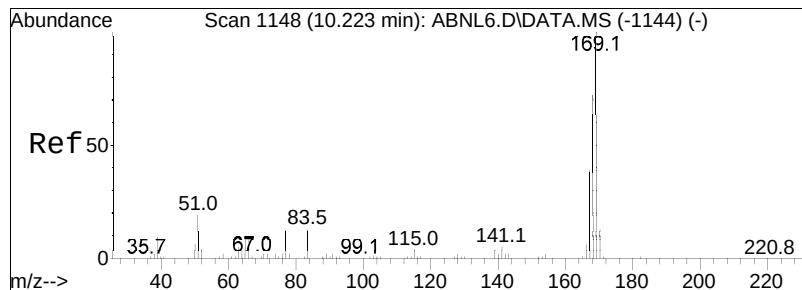




#76
 4,6-Dinitro-o-cresol
 Concen: 1.66 ug/ml
 RT: 10.339 min Scan# 1454
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

Tgt Ion	Ratio	Lower	Upper
198	100		
51	57.6	76.0	114.0#
105	43.5	45.6	68.4#





#77

NDPA/DPA

Concen: 1.41 ug/ml

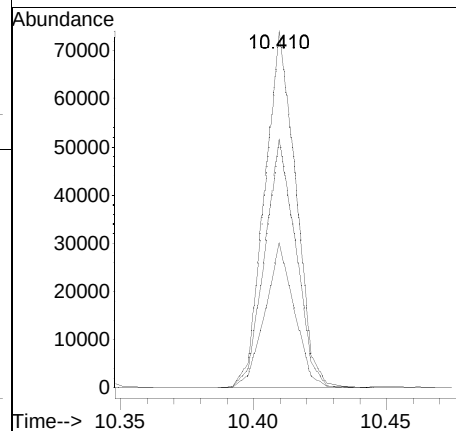
RT: 10.410 min Scan# 1466

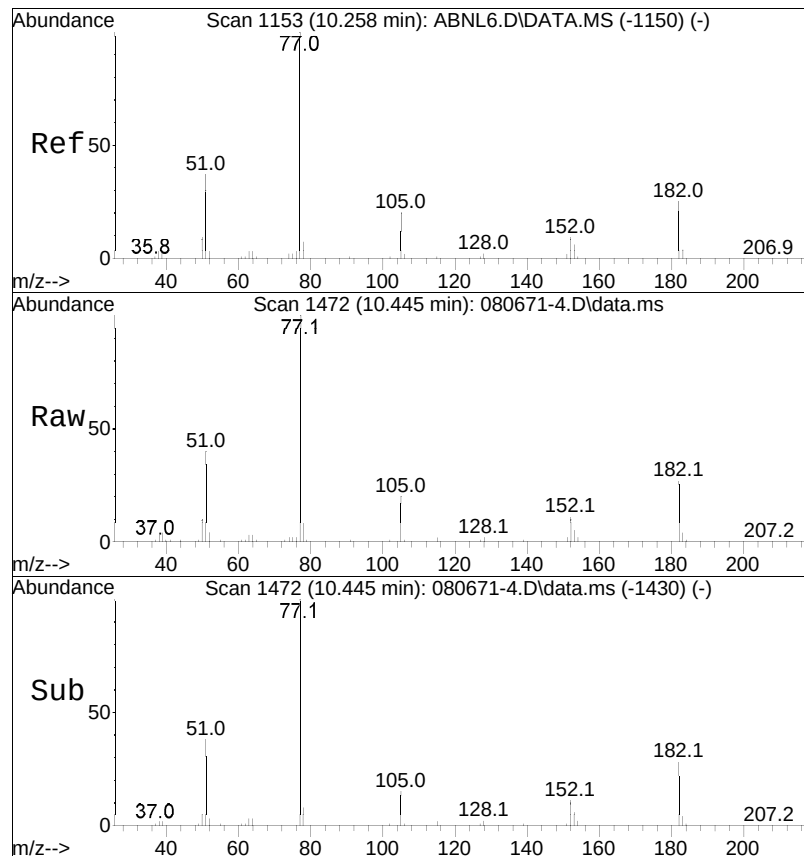
Delta R.T. -0.000 min

Lab File: 080671-4.D

Acq: 19 Jun 2025 5:02 pm

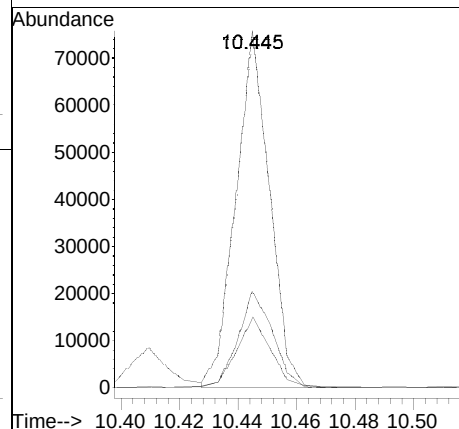
Tgt Ion:	169	Resp:	60216
Ion Ratio	Lower	Upper	
169	100		
168	69.6	54.0	81.0
167	38.7	28.6	42.8

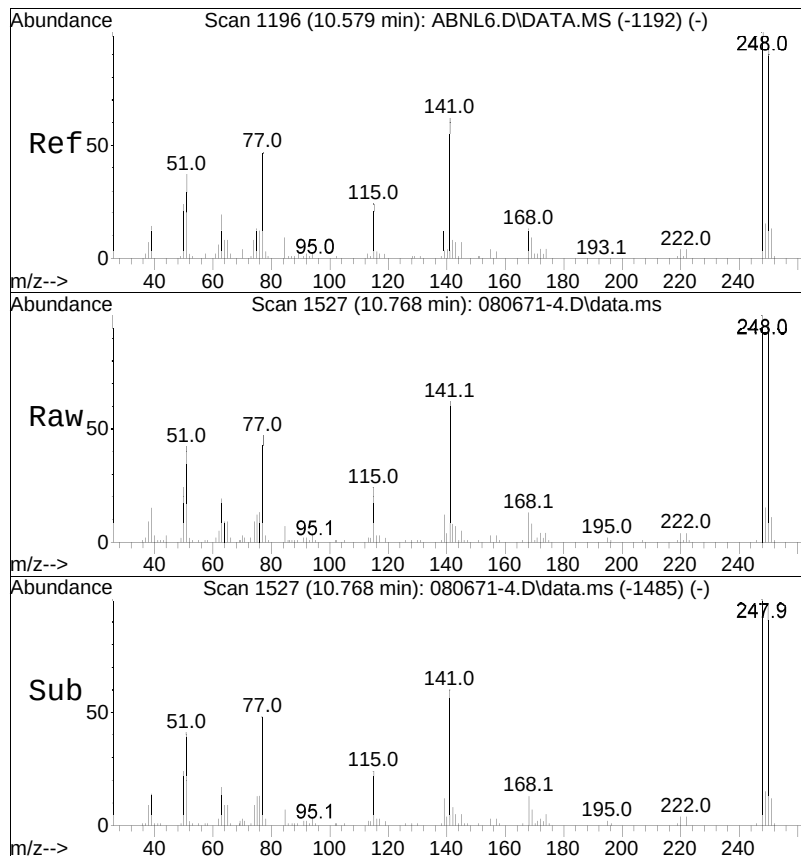




#78
 Azobenzene
 Concen: 1.47 ug/ml
 RT: 10.445 min Scan# 1472
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

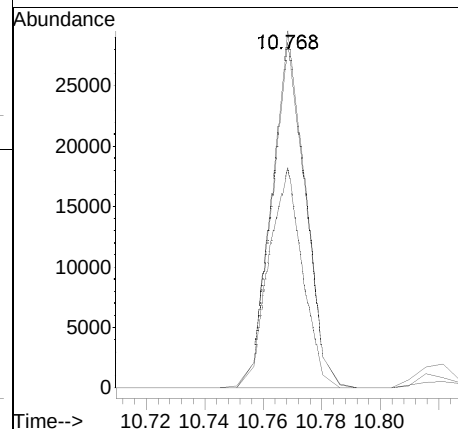
Tgt Ion	Ratio	Lower	Upper
77	100		
182	28.5	17.4	26.2#
105	20.5	15.4	23.2

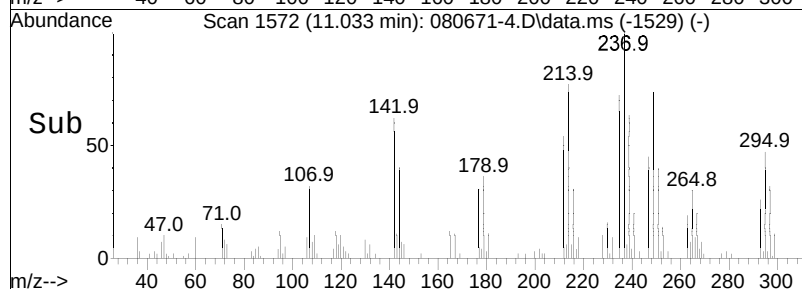
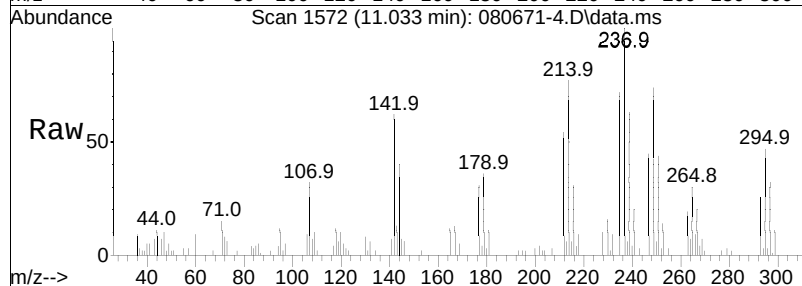
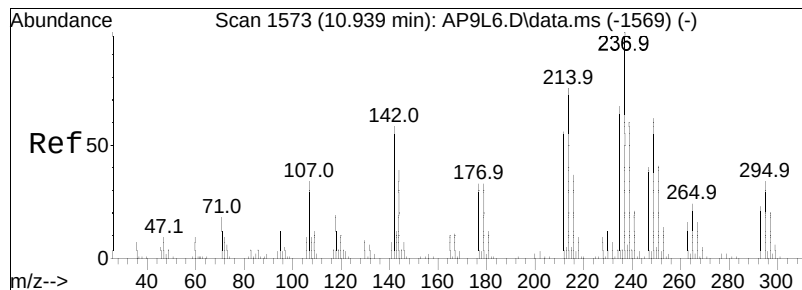




#80
 4-Bromophenyl phenyl ether
 Concen: 1.38 ug/ml
 RT: 10.768 min Scan# 1527
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

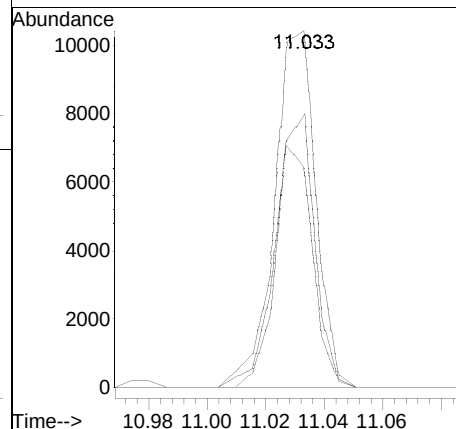
Tgt Ion:	248	Resp:	23279
Ion Ratio	Lower	Upper	
248	100		
141	62.1	76.6	114.8#
250	96.8	77.3	115.9

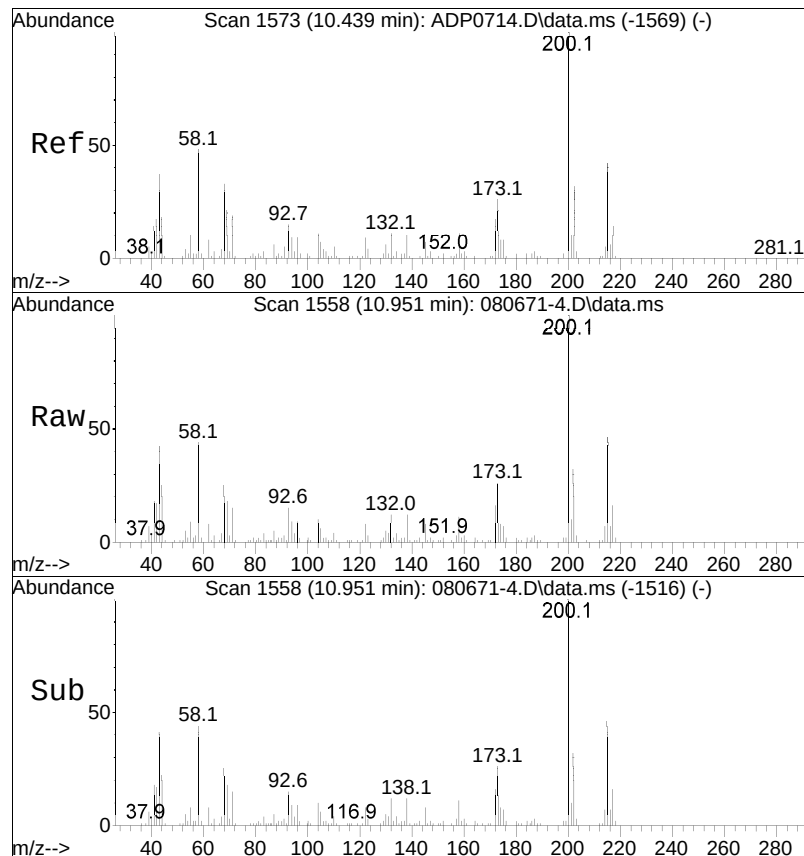




#85
 Pentachloronitrobenzene
 Concen: 1.95 ug/ml
 RT: 11.033 min Scan# 1572
 Delta R.T. 0.006 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

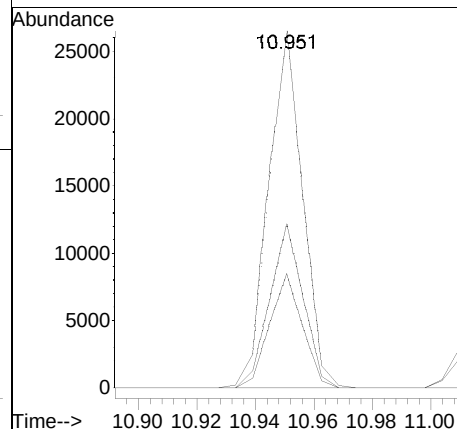
Tgt Ion	Ratio	Lower	Upper
237	100		
142	64.9	77.0	115.4#
214	69.1	58.2	87.4

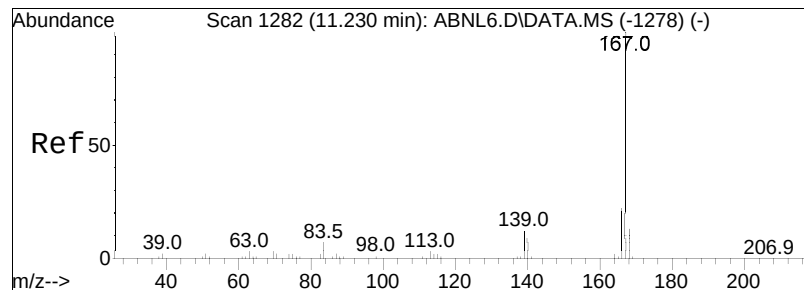




#87
 Atrazine
 Concen: 1.60 ug/ml
 RT: 10.951 min Scan# 1558
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

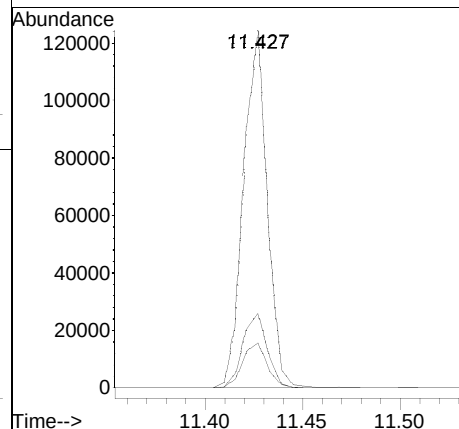
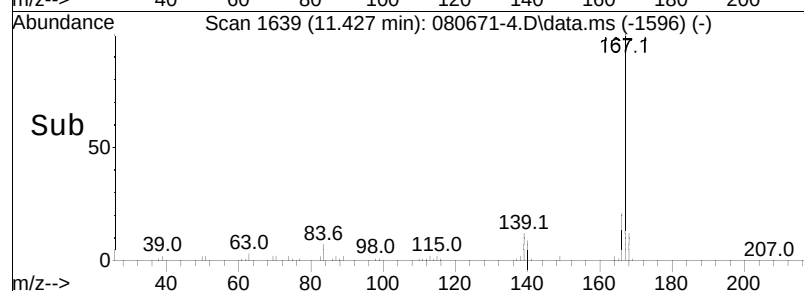
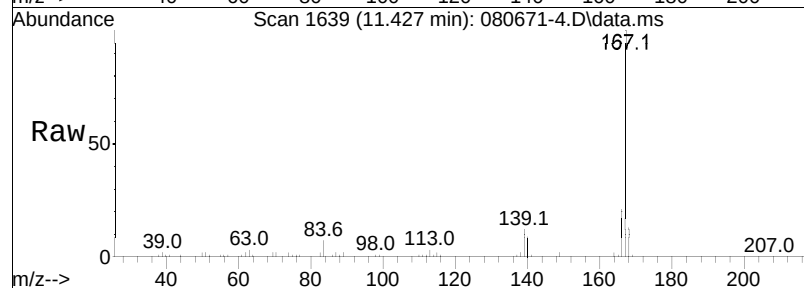
Tgt	Ion:200	Resp:	21220
Ion	Ratio	Lower	Upper
200	100		
202	31.0	25.8	38.6
215	45.2	40.2	60.4

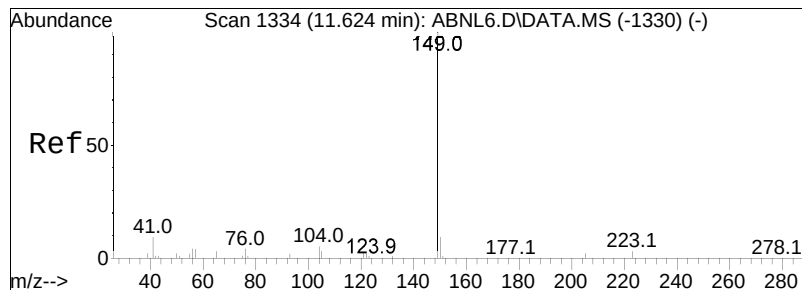




#91
 Carbazole
 Concen: 1.43 ug/ml
 RT: 11.427 min Scan# 1639
 Delta R.T. 0.006 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

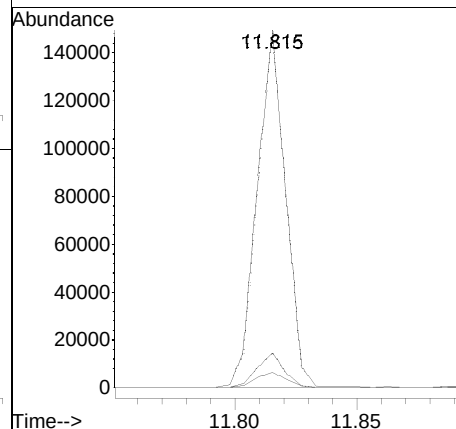
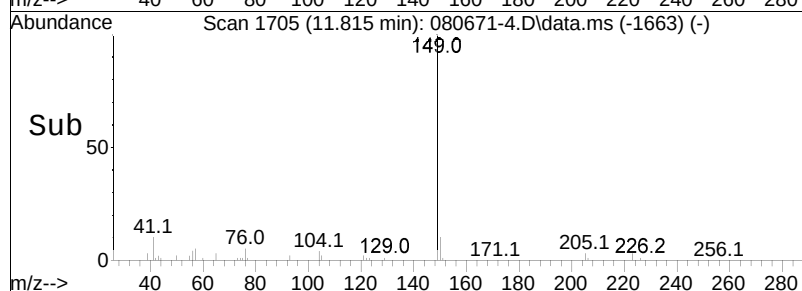
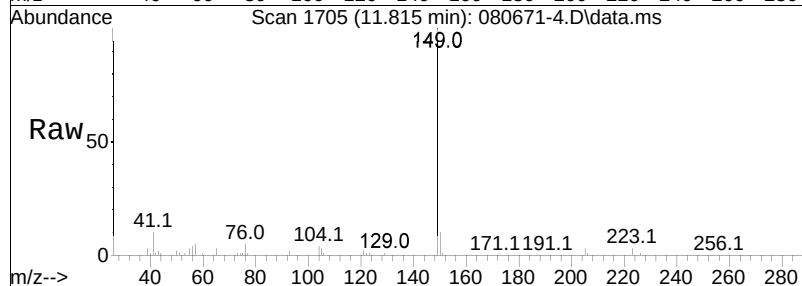
Tgt Ion	Ratio	Lower	Upper
167	100		
168	13.2	10.6	15.8
166	21.6	17.4	26.0

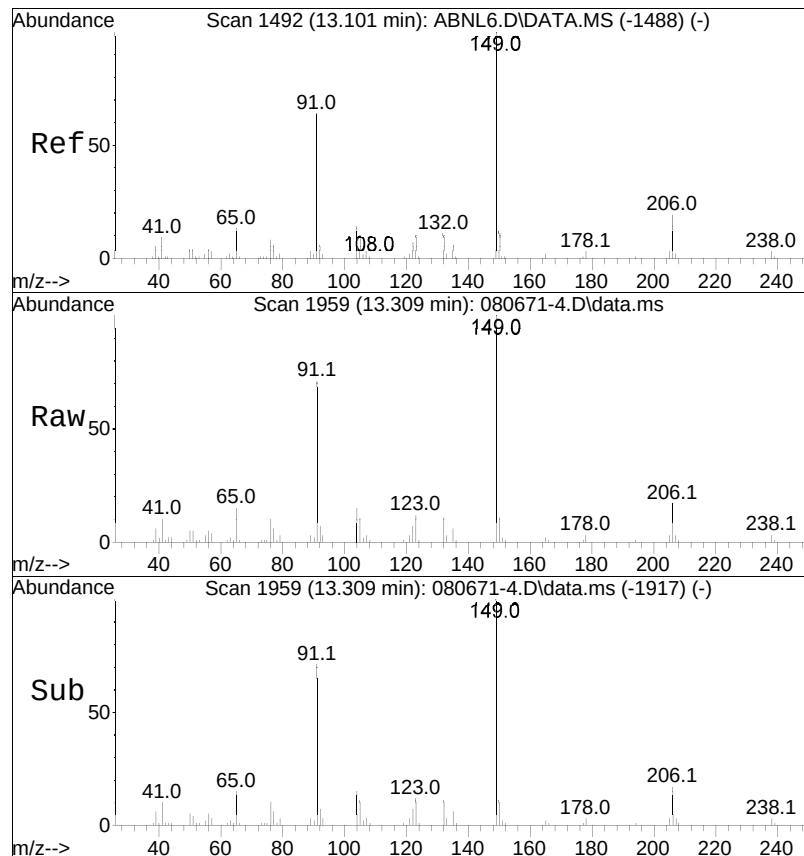




#92
 Di-n-butylphthalate
 Concen: 1.45 ug/ml
 RT: 11.815 min Scan# 1705
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

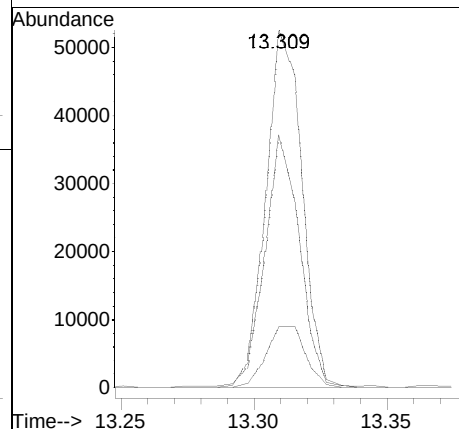
Tgt	Ion	Ratio	Resp	Lower	Upper
149	100		118907		
150	9.2	7.0	10.6		
104	4.5	4.5	6.7		

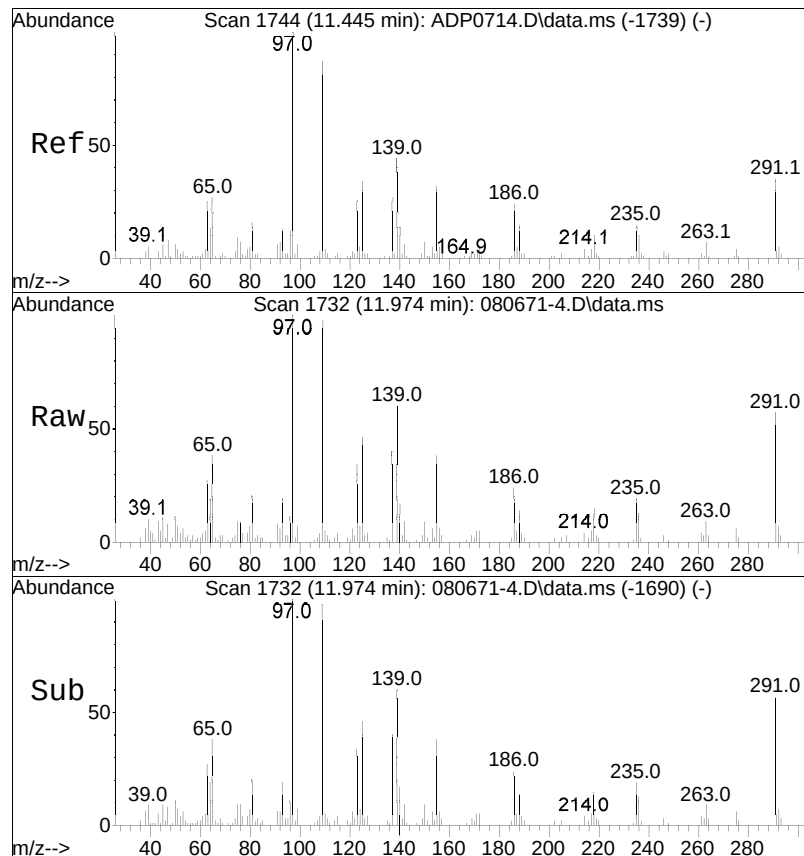




#97
 Butyl benzyl phthalate
 Concen: 1.59 ug/ml
 RT: 13.309 min Scan# 1959
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

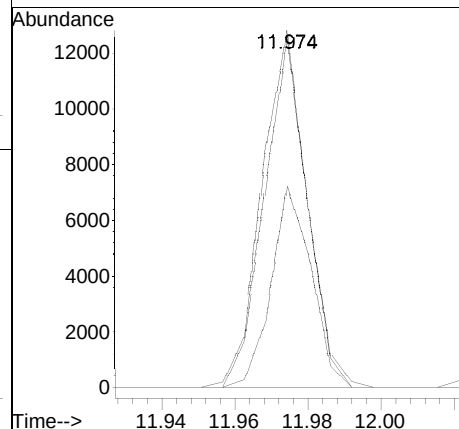
Tgt Ion:	149	Resp:	49144
Ion Ratio	Lower	Upper	
149	100		
91	68.4	63.3	94.9
206	18.8	13.9	20.9

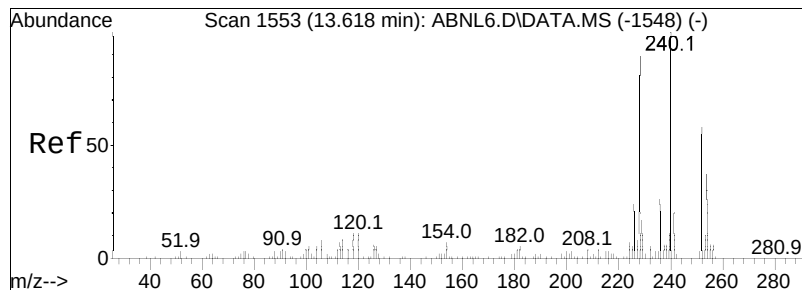




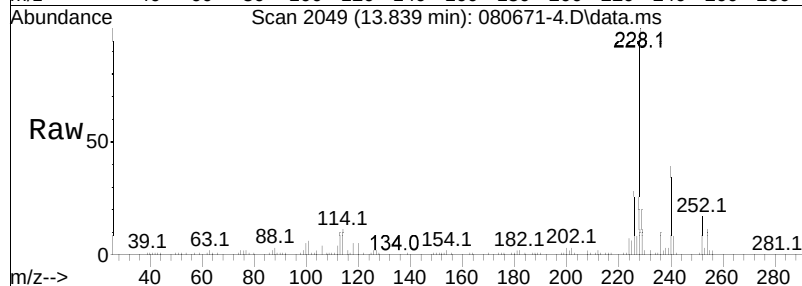
#102
 Parathion
 Concen: 2.63 ug/ml
 RT: 11.974 min Scan# 1732
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

Tgt Ion:	109	Resp:	10106
Ion Ratio	Lower	Upper	
109	100		
97	108.2	87.4	131.2
291	54.2	34.2	51.2#

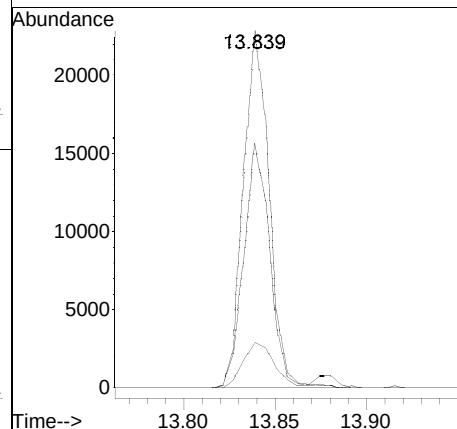
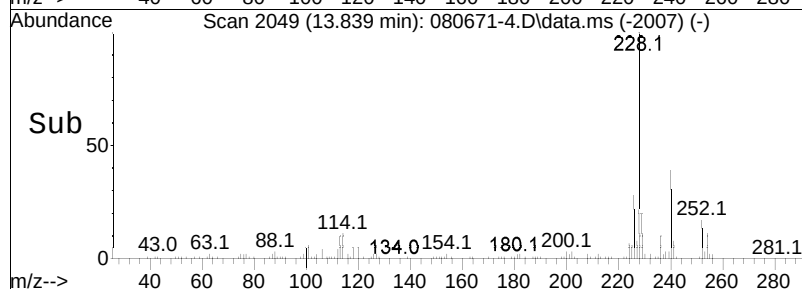


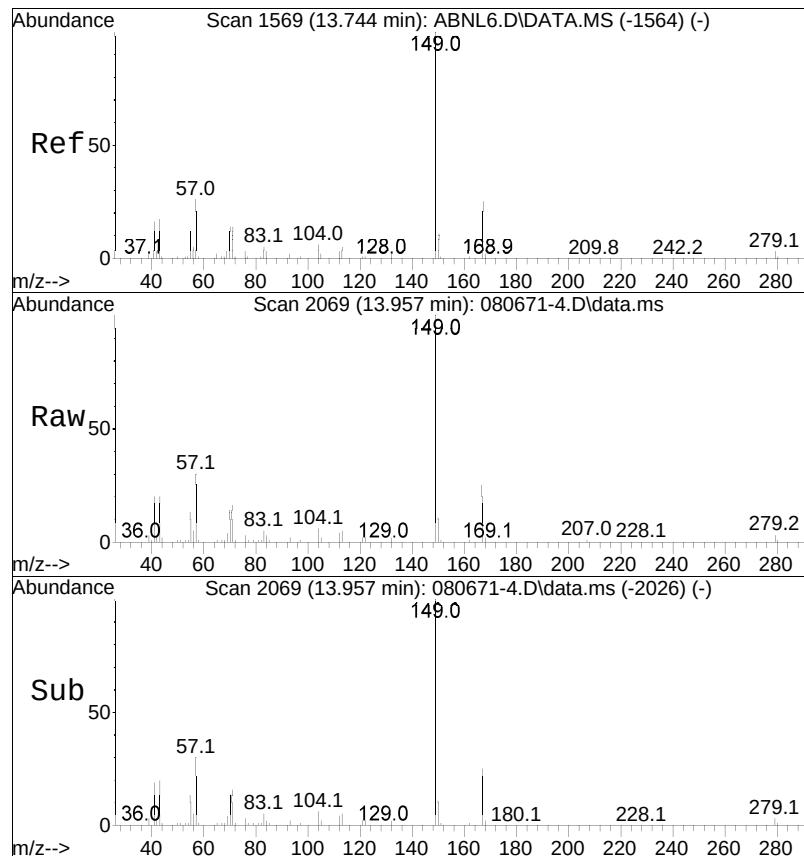


#106
 3,3'-Dichlorobenzidine
 Concen: 0.68 ug/ml
 RT: 13.839 min Scan# 2049
 Delta R.T. -0.000 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm



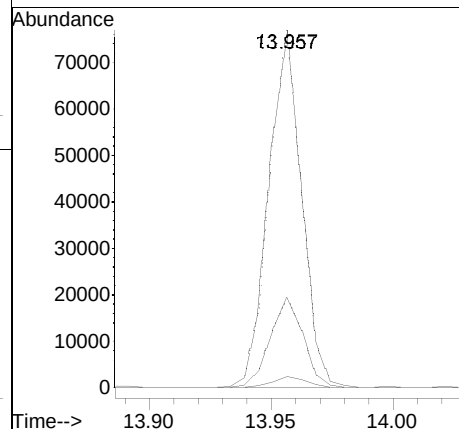
Tgt Ion	Ratio	Lower	Upper
252	100		
126	15.6	14.5	21.7
254	69.5	51.2	76.8

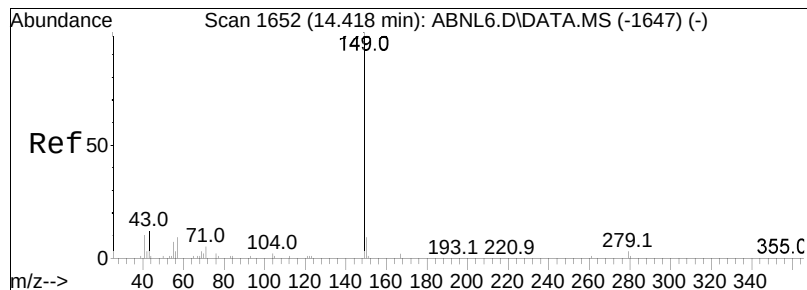




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 1.43 ug/ml
 RT: 13.957 min Scan# 2069
 Delta R.T. 0.006 min
 Lab File: 080671-4.D
 Acq: 19 Jun 2025 5:02 pm

Tgt	Ion:149	Resp:	71512
Ion	Ratio	Lower	Upper
149	100		
167	25.5	22.1	33.1
279	2.9	3.0	4.4#





#109

Di-n-octylphthalate

Concen: 1.48 ug/ml

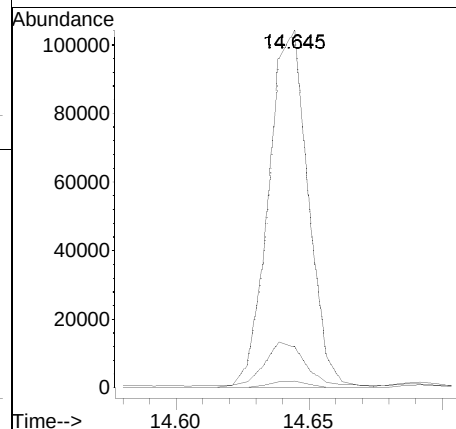
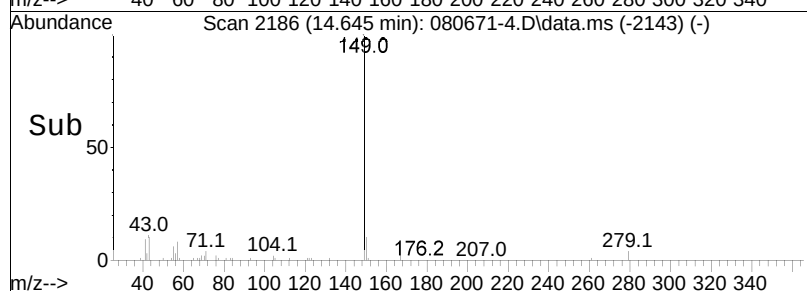
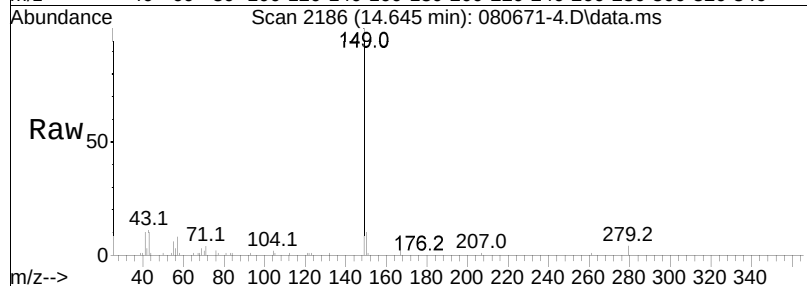
RT: 14.645 min Scan# 2186

Delta R.T. 0.006 min

Lab File: 080671-4.D

Acq: 19 Jun 2025 5:02 pm

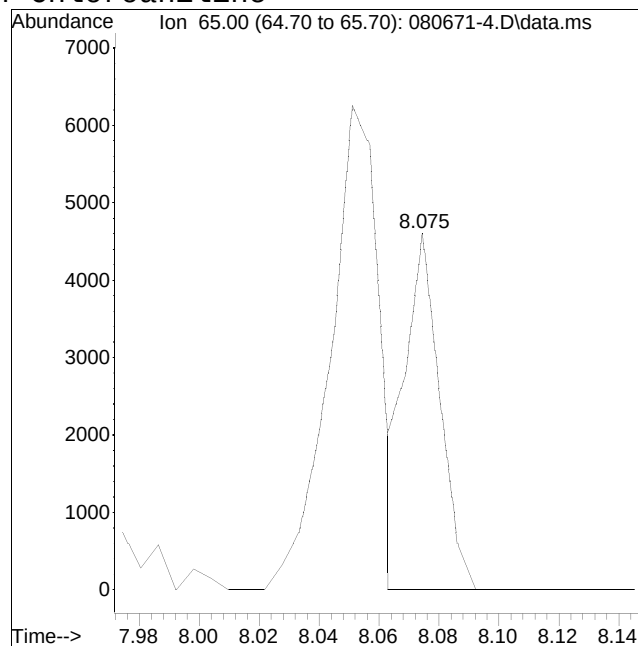
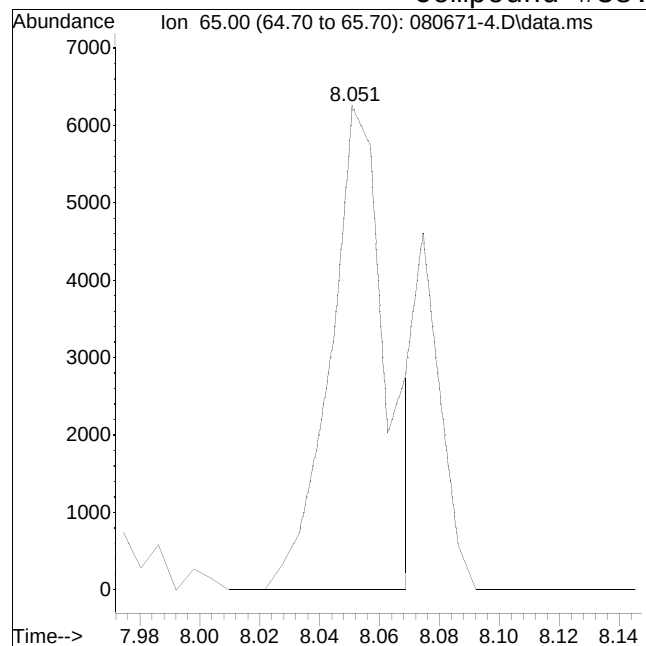
Tgt	Ion:149	Resp:	106784
Ion	Ratio	Lower	Upper
149	100		
43	12.8	18.8	28.2#
167	1.5	1.3	1.9



Manual Integration Report

Data Path : I:\8270\SV106\250619RVT\ QMethod : FS250311SV106.m
Data File : 080671-4.D Operator : SV106:jg
Date Inj'd : 6/19/2025 5:02 pm Instrument : SV 106
Sample : WG2080671-4,32,,gmr Quant Date : 6/19/2025 5:21 pm

Compound #38: 4-Chloroaniline



Original Peak Response = 8121

Manual Peak Response = 3665 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\Dakota\250619RVTa\
 Data File : 080671-7.D
 Acq On : 19 Jun 2025 4:04 pm
 Operator : Dakota:jg
 Sample : WG2080671-7,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 24 15:23:46 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.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...	4.654	152	37453	4.000	ug/ml	0.00
Standard Area 1 = 40269			Recovery =	93.01%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	37453	4.000	ug/ml	0.00
Standard Area 3 = 39277			Recovery =	95.36%		
37) IS1_Naphthalene-d8	5.888	136	126972	4.000	ug/ml	# 0.00
Standard Area 1 = 141165			Recovery =	89.95%		
57) IS2_Naphthalene-d8	5.888	136	126972	4.000	ug/ml	# 0.00
Standard Area 3 = 138132			Recovery =	91.92%		
65) IS1_Acenaphthene-d10	7.585	164	95477	4.000	ug/ml	0.00
Standard Area 1 = 108362			Recovery =	88.11%		
85) IS2_Acenaphthene-d10	7.585	164	95477	4.000	ug/ml	0.00
Standard Area 3 = 102291			Recovery =	93.34%		
88) IS3_Acenaphthene-d10	7.585	164	95477	4.000	ug/ml	0.00
Standard Area 2 = 80426			Recovery =	118.71%		
90) IS1_Phenanthrene-d10	9.012	188	230026	4.000	ug/ml	0.00
Standard Area 1 = 250799			Recovery =	91.72%		
102) IS3_Phenanthrene-d10	9.012	188	230026	4.000	ug/ml	0.00
Standard Area 2 = 191146			Recovery =	120.34%		
106) IS1_Chrysene-d12	11.629	240	290664	4.000	ug/ml	# 0.00
Standard Area 1 = 307987			Recovery =	94.38%		
115) IS1_Perylene-d12	13.083	264	346870	4.000	ug/ml	0.00
Standard Area 1 = 355260			Recovery =	97.64%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	7164	0.745	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	37.25%		
7) Phenol-d6	4.337	99	7556	0.637	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	31.85%		
19) Nitrobenzene-d5	5.195	82	9243	0.727	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	72.70%		
48) 2-Fluorobiphenyl	6.954	172	24531	0.742	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	74.20%		
81) 2,4,6-Tribromophenol	8.347	330	8043	1.431	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	71.55%		
98) 4-Terphenyl-d14	10.585	244	48950	0.796	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	79.60%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 080671-7.D
 Acq On : 19 Jun 2025 4:04 pm
 Operator : Dakota:jg
 Sample : WG2080671-7,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 24 15:23:46 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.984	74	6829	1.064	ug/ml#	90
3) Pyridine	2.050	79	8663	0.770	ug/ml#	41
5) Aniline	4.337	93	7792	0.495	ug/ml#	16
6) 2-Chlorophenol	4.449	128	11111	1.044	ug/ml	96
8) Phenol	4.350	94	9316	0.645	ug/ml#	53
9) Bis(2-chloroethyl)ether	4.418	93	13672	1.466	ug/ml	99
10) 1,3-Dichlorobenzene	4.598	146	16342M3	1.157	ug/ml	
11) 1,4-Dichlorobenzene	4.673	146	16411	1.127	ug/ml	97
12) 1,2-Dichlorobenzene	4.816	146	16389M3	1.211	ug/ml	
13) Benzyl alcohol	4.807	79	11314	1.203	ug/ml	96
14) Bis(2-chloroisopropyl)...	4.956	45	26237	1.309	ug/ml#	80
15) 2-Methylphenol	4.937	108	10108	1.065	ug/ml	87
17) n-Nitrosodi-n-propylamine	5.074	70	11802	1.389	ug/ml#	85
18) 3-Methylphenol/4-Methy...	5.089	108	11354	1.117	ug/ml#	96
20) Nitrobenzene	5.211	77	17594	1.414	ug/ml#	87
21) Isophorone	5.453	82	29204	1.278	ug/ml#	93
22) 2-Nitrophenol	5.528	139	7170	1.305	ug/ml	95
23) 2,4-Dimethylphenol	5.602	107	12933	1.182	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.689	93	18743	1.392	ug/ml#	94
25) 2,4-Dichlorophenol	5.764	162	14423	1.270	ug/ml#	90
26) 1,2,4-Trichlorobenzene	5.842	180	17441	1.228	ug/ml#	95
28) Benzaldehyde	4.222	105	12096	1.539	ug/ml	95
29) Acetophenone	5.055	105	21447	1.546	ug/ml#	88
39) Benzoic Acid	5.652	105	4398	1.959	ug/ml#	82
40) 4-Chloroaniline	5.978	65	4538	1.021	ug/ml	92
42) p-Chloro-m-cresol	6.473	107	13152	1.456	ug/ml	97
45) Hexachlorocyclopentadiene	6.755	237	8720	0.805	ug/ml	96
46) 2,4,6-Trichlorophenol	6.870	196	12557	1.340	ug/ml	98
47) 2,4,5-Trichlorophenol	6.898	196	14543	1.399	ug/ml	95
50) 2-Nitroaniline	7.156	138	10579	1.556	ug/ml	97
53) Dimethyl phthalate	7.358	163	48977	1.525	ug/ml#	96
55) 2,6-Dinitrotoluene	7.402	165	9877	1.537	ug/ml#	80
62) Caprolactam	6.277	55	3870	0.721	ug/ml#	84
63) 1,2,4,5-Tetrachloroben...	6.752	216	19398	1.377	ug/ml#	97
64) Biphenyl	7.044	154	42587	1.412	ug/ml	97
66) 3-Nitroaniline	7.557	138	9904	1.524	ug/ml#	87
68) 2,4-Dinitrophenol	7.657	184	4417	1.169	ug/ml#	82

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
 Data File : 080671-7.D
 Acq On : 19 Jun 2025 4:04 pm
 Operator : Dakota:jg
 Sample : WG2080671-7,32,,gmr
 Misc : WG2080969,WG2080671,ical22203
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 24 15:23:46 2025
 Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:56:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250619RVTa\ABN0619.D
 : 2 - I:\8270\Dakota\250619RVTa\ADP0619.D
 : 3 - I:\8270\Dakota\250619RVTa\AP90619.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69)	Dibenzofuran	7.784	168	61504	1.375	ug/ml	88
70)	2,4-Dinitrotoluene	7.787	165	14857	1.555	ug/ml	88
71)	4-Nitrophenol	7.747	65	4500	0.763	ug/ml	94
73)	2,3,4,6-Tetrachlorophenol	7.915	232	12556	1.324	ug/ml	92
74)	Diethyl phthalate	8.048	149	47758	1.426	ug/ml	99
76)	4-Chlorophenyl phenyl ...	8.135	204	25297	1.401	ug/ml#	81
77)	4-Nitroaniline	8.138	138	10896	1.596	ug/ml	95
78)	4,6-Dinitro-o-cresol	8.179	198	6029	1.020	ug/ml#	65
79)	NDPA/DPA	8.250	169	46634	1.532	ug/ml	97
80)	Azobenzene	8.285	77	40701	1.313	ug/ml	95
82)	4-Bromophenyl phenyl e...	8.602	248	17691	1.551	ug/ml#	76
87)	Pentachloronitrobenzene	8.863	237	8184	1.859	ug/ml#	80
89)	Atrazine	8.785	200	17482	1.729	ug/ml	91
93)	Carbazole	9.251	167	92826	1.522	ug/ml	99
94)	Di-n-butylphthalate	9.640	149	90393	1.428	ug/ml#	96
96)	Benzidine	10.345	184	717	0.015	ug/ml#	1
99)	Butyl benzyl phthalate	11.110	149	44900	1.635	ug/ml#	85
104)	Parathion	9.795	109	8277	1.872	ug/ml#	92
108)	3,3'-Dichlorobenzidine	11.623	252	39848	1.181	ug/ml#	96
110)	Bis(2-ethylhexyl)phtha...	11.744	149	72040	1.499	ug/ml#	91
111)	Di-n-octylphthalate	12.415	149	121255	1.554	ug/ml#	77

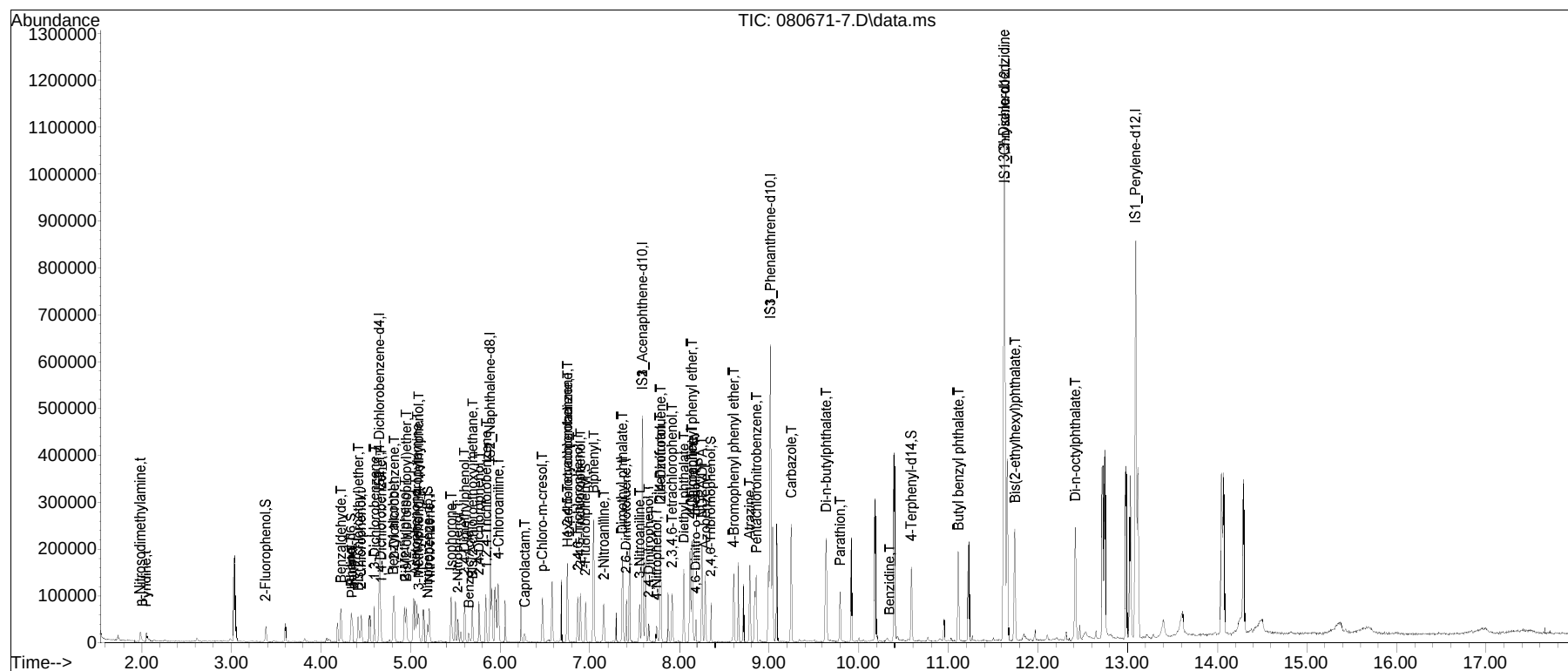
(#) = qualifier out of range (m) = manual integration (+) = signals summed

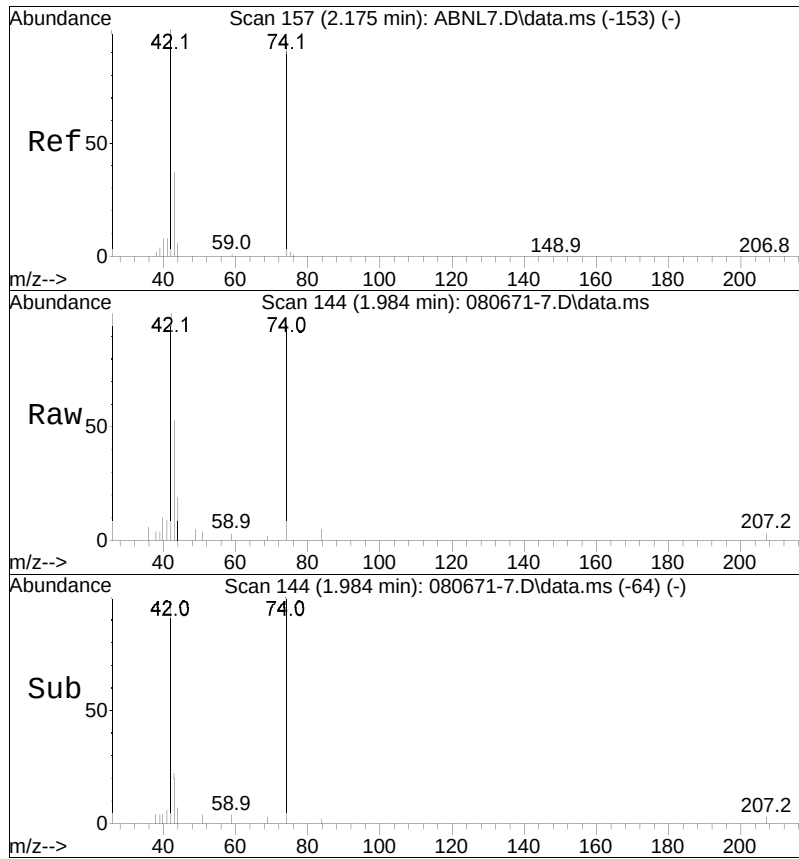
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250619RVTa\
Data File : 080671-7.D
Acq On : 19 Jun 2025 4:04 pm
Operator : Dakota:jg
Sample : WG2080671-7,32,,gmr
Misc : WG2080969,WG2080671,ical22203
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 24 15:23:46 2025
Quant Method : I:\8270\Dakota\250619RVTa\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 19 11:56:44 2025
Response via : Initial Calibration

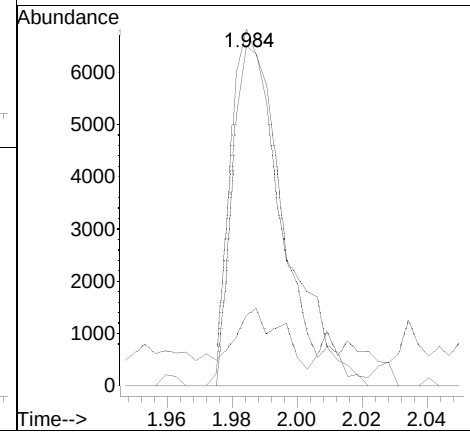
Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP90619.D•

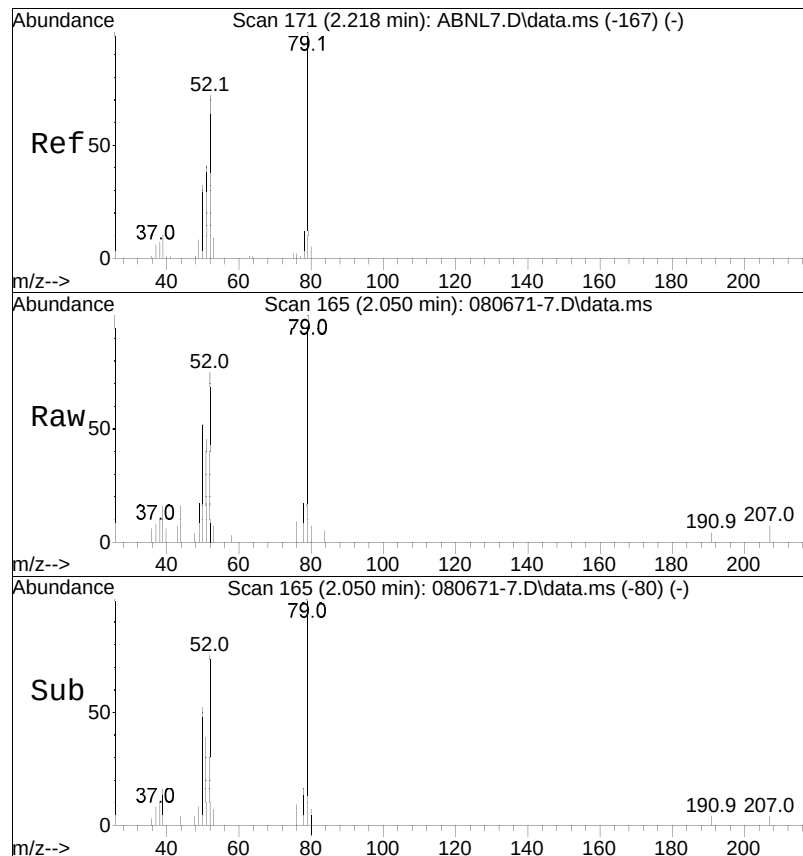




#2
 n-Nitrosodimethylamine
 Concen: 1.06 ug/ml
 RT: 1.984 min Scan# 144
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

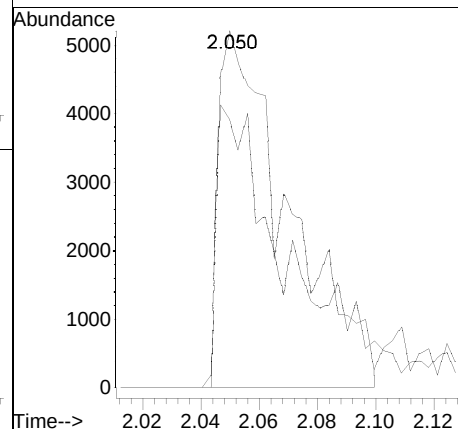
Tgt Ion:	74	Resp:	6829
Ion Ratio	Lower	Upper	
74	100		
42	114.9	100.0	150.0
44	15.6	6.7	10.1#

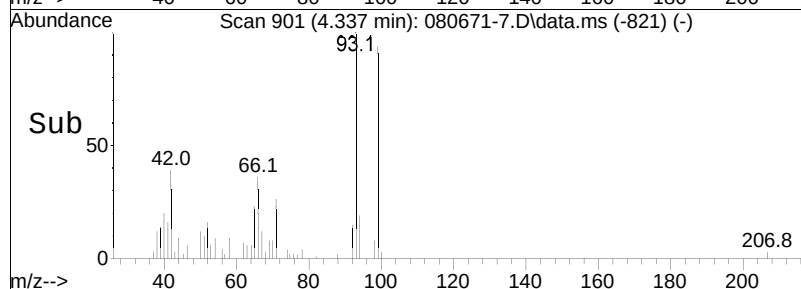
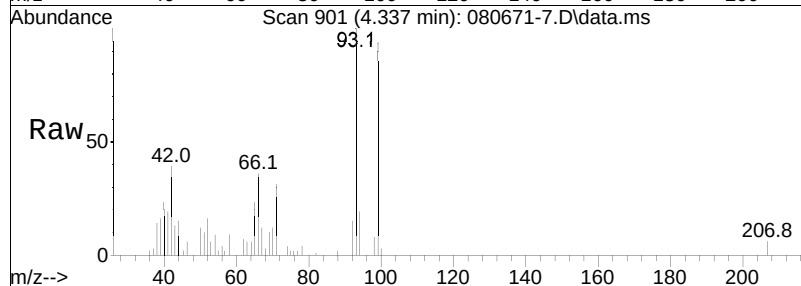
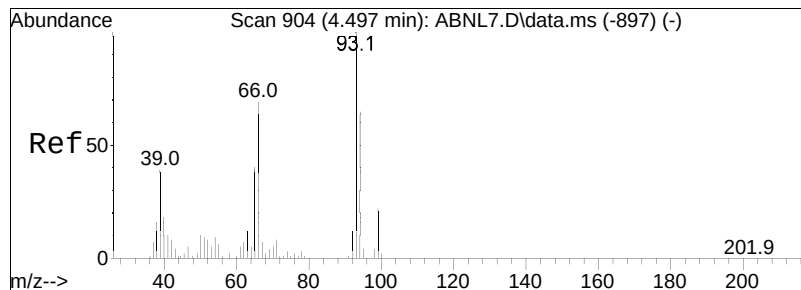




#3
 Pyridine
 Concen: 0.77 ug/ml
 RT: 2.050 min Scan# 165
 Delta R.T. 0.015 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

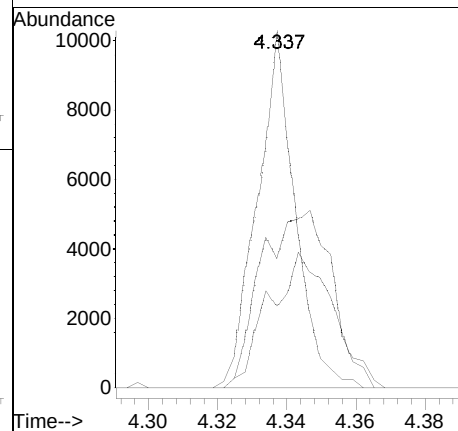
Tgt Ion: 79 Resp: 8663
 Ion Ratio Lower Upper
 79 100
 52 51.5 93.1 139.7#

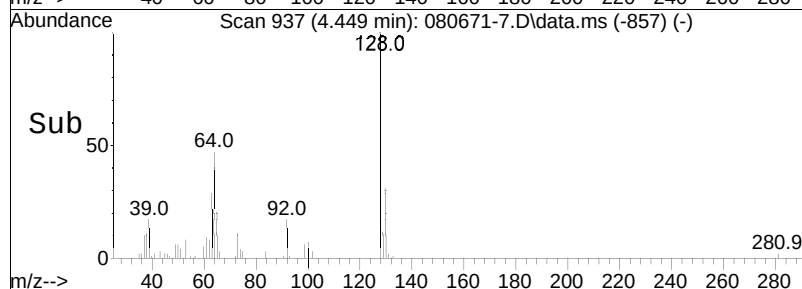
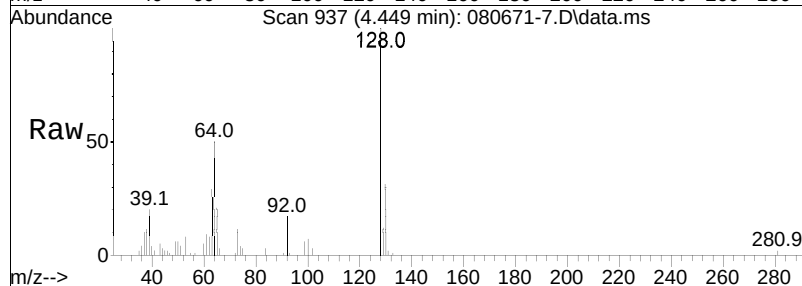
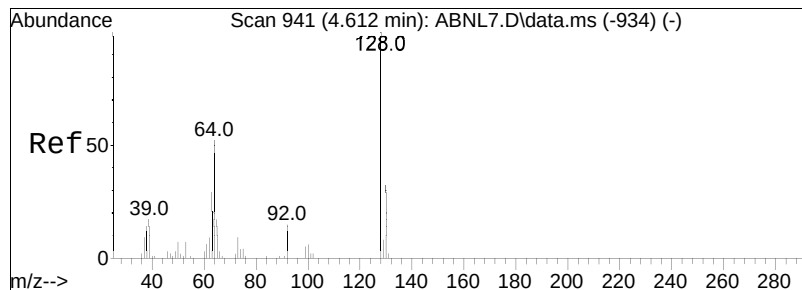




#5
 Aniline
 Concen: 0.50 ug/ml
 RT: 4.337 min Scan# 901
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

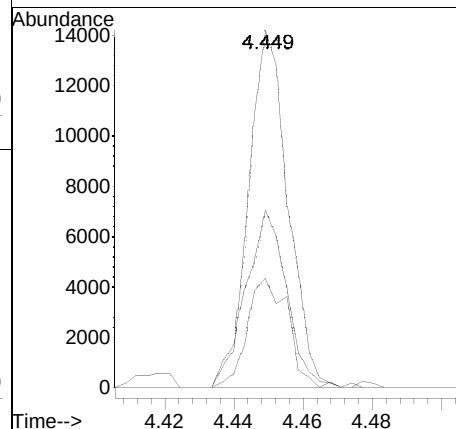
Tgt Ion	Ratio	Lower	Upper
93	100		
66	93.0	32.6	49.0#
65	62.9	17.6	26.4#

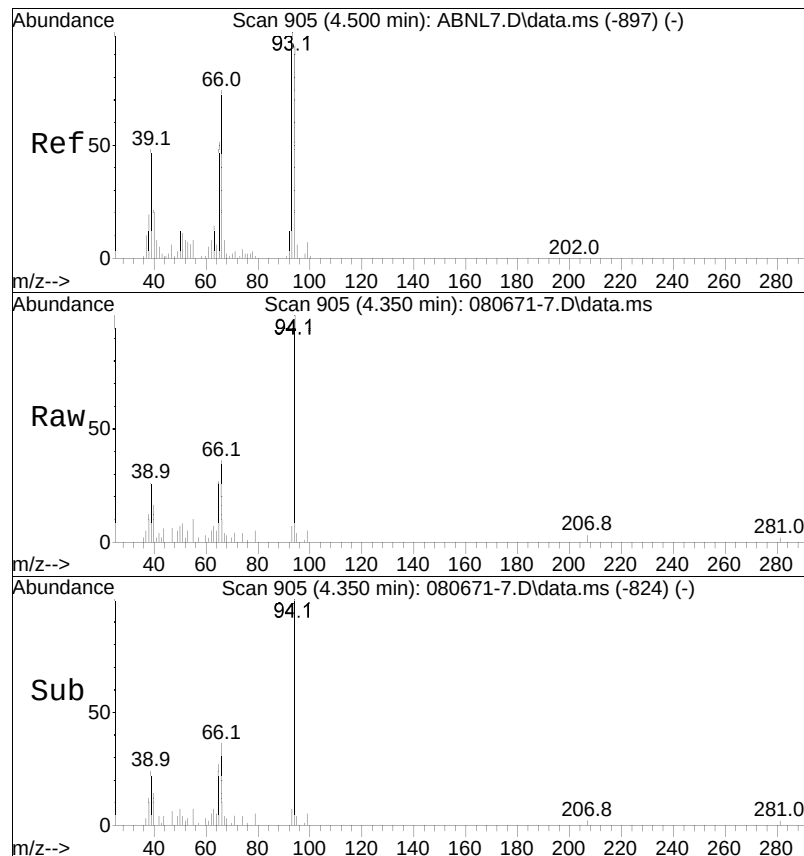




#6
 2-Chlorophenol
 Concen: 1.04 ug/ml
 RT: 4.449 min Scan# 937
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

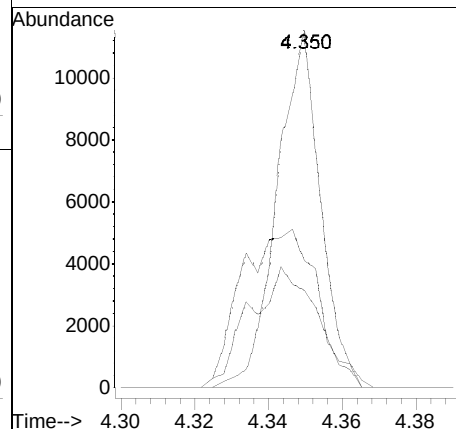
Tgt Ion	Ratio	Lower	Upper
128	100		
64	52.1	45.1	67.7
130	31.9	26.2	39.4

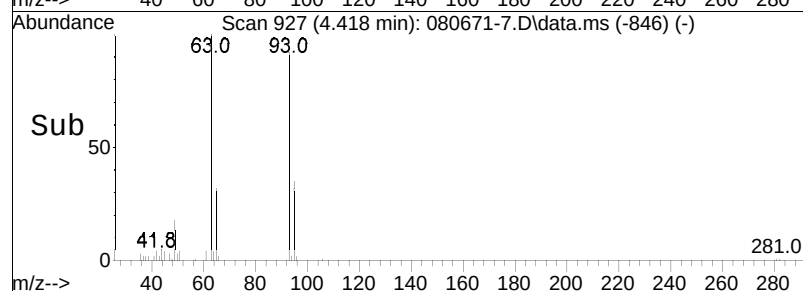
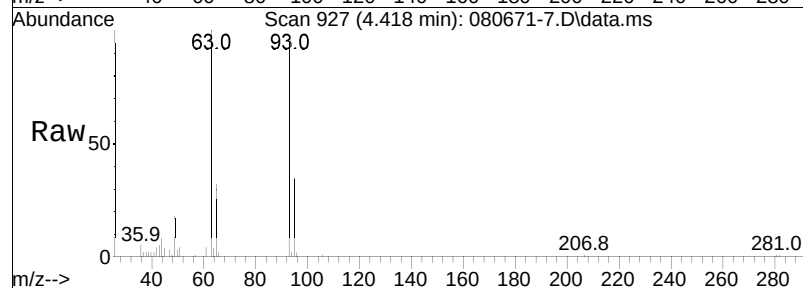
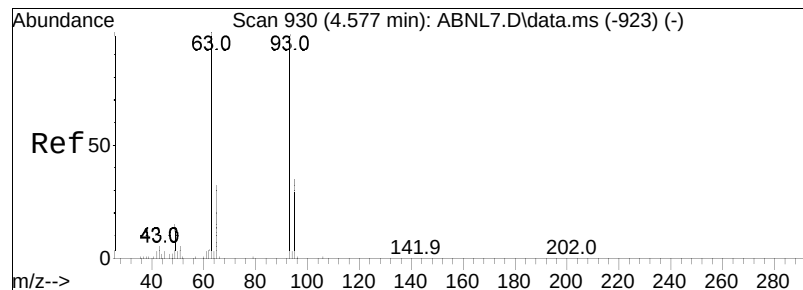




#8
 Phenol
 Concen: 0.65 ug/ml
 RT: 4.350 min Scan# 905
 Delta R.T. 0.003 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

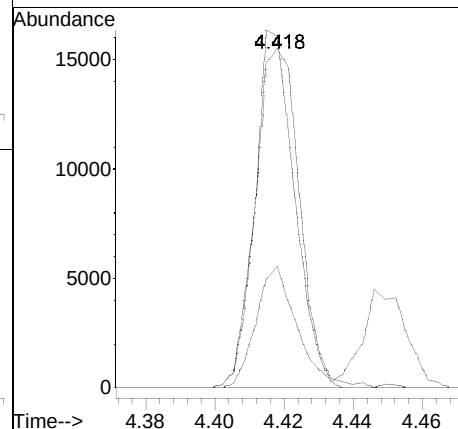
Tgt Ion	Ratio	Lower	Upper
94	100		
65	52.6	26.0	39.0#
66	77.7	33.8	50.8#

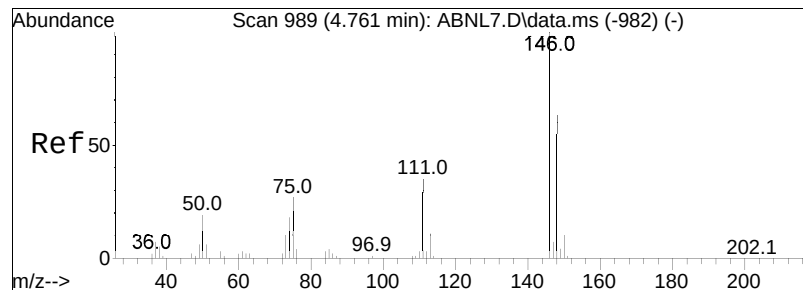




#9
 Bis(2-chloroethyl)ether
 Concen: 1.47 ug/ml
 RT: 4.418 min Scan# 927
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

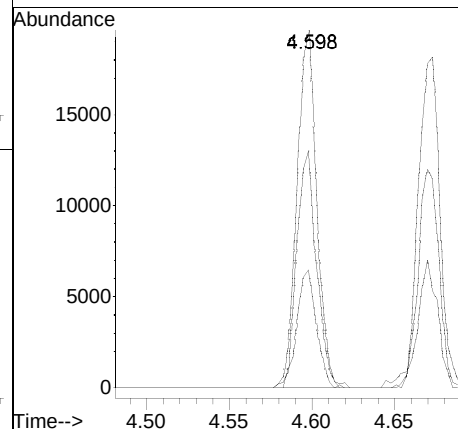
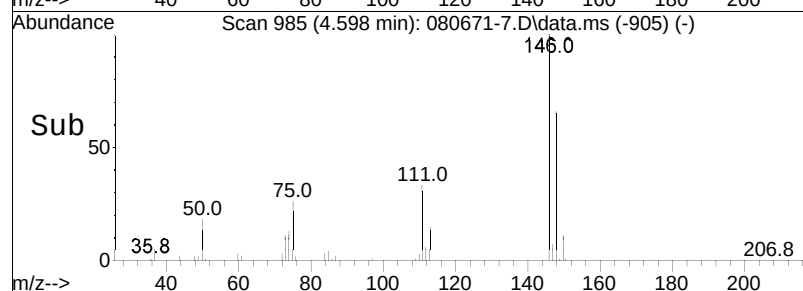
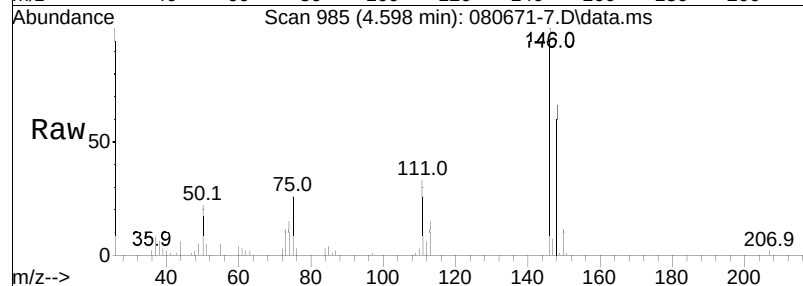
Tgt	Ion: 93	Resp:	13672
Ion	Ratio	Lower	Upper
93	100		
63	94.7	74.6	111.8
95	32.9	25.9	38.9

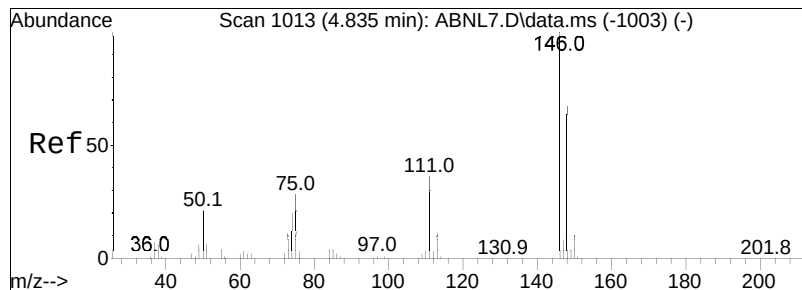




#10
 1,3-Dichlorobenzene
 Concen: 1.16 ug/ml M3
 RT: 4.598 min Scan# 985
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

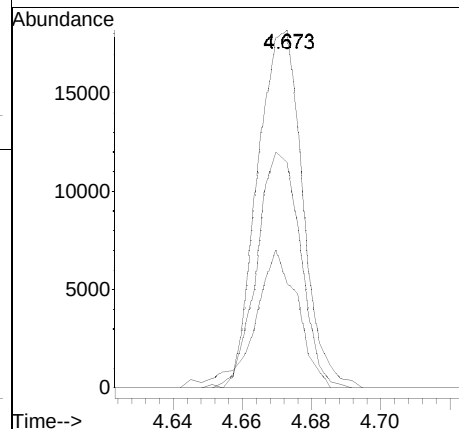
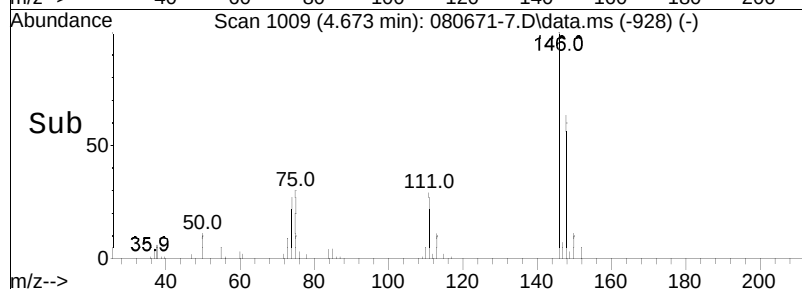
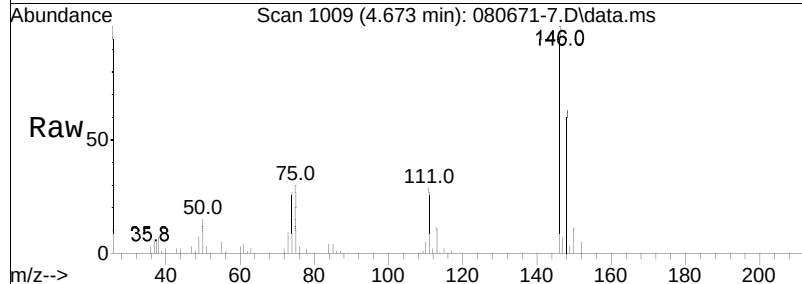
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	34.3	51.5
148	63.8	50.8	76.2

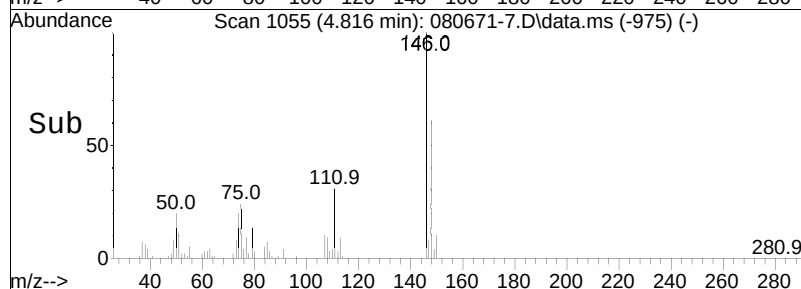
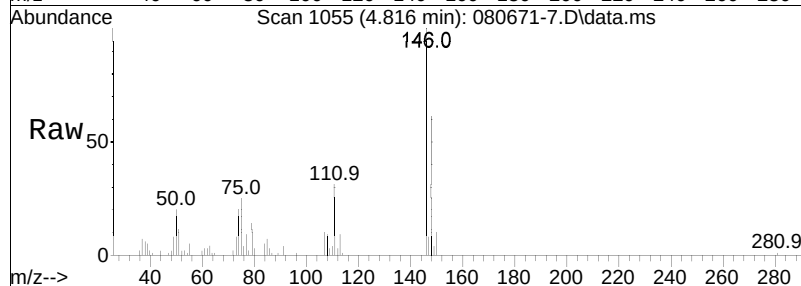
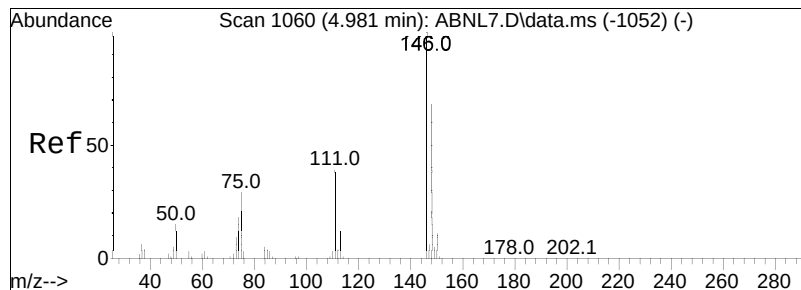




#11
 1,4-Dichlorobenzene
 Concen: 1.13 ug/ml
 RT: 4.673 min Scan# 1009
 Delta R.T. 0.003 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

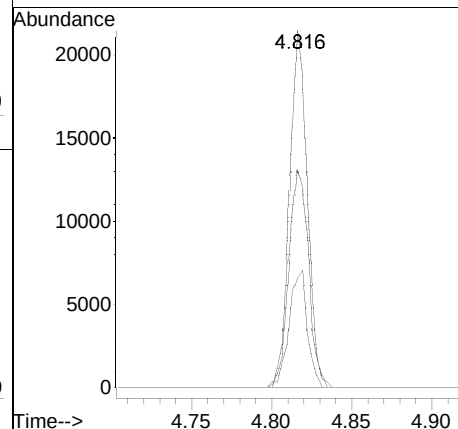
Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.7	76.1
111	37.0	33.4	50.0

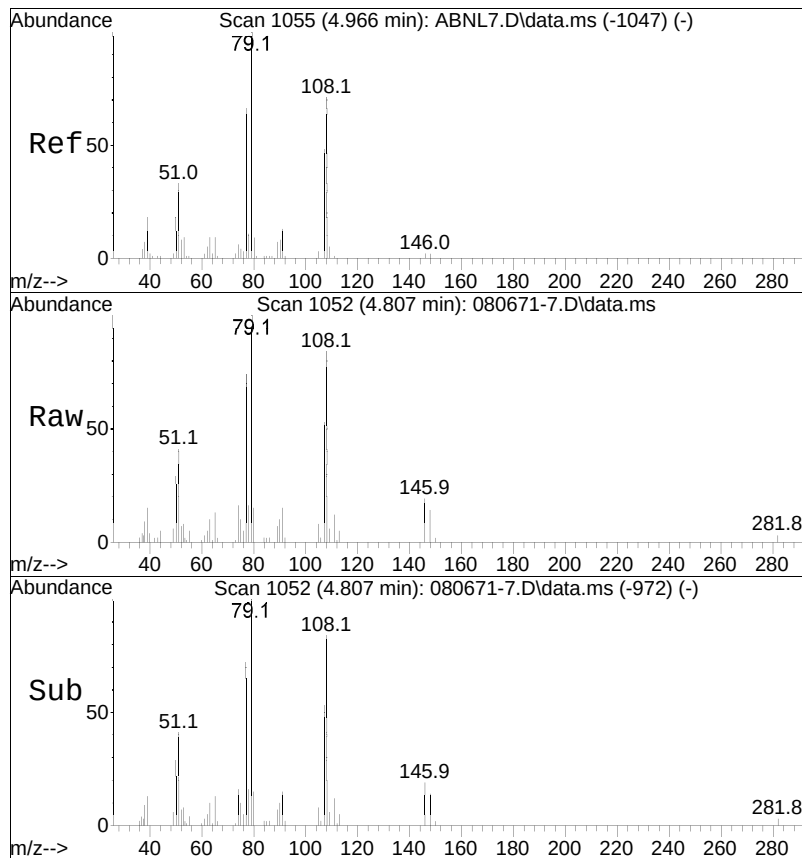




#12
 1,2-Dichlorobenzene
 Concen: 1.21 ug/ml M3
 RT: 4.816 min Scan# 1055
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

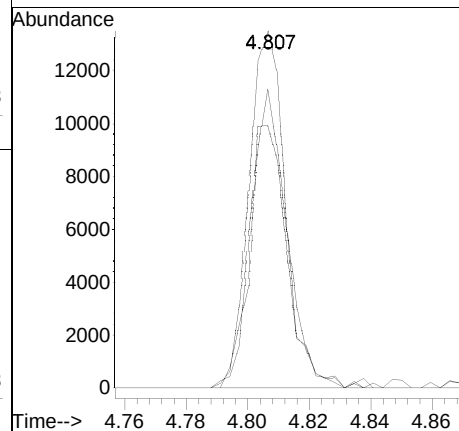
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	34.6	52.0
148	64.0	50.2	75.4

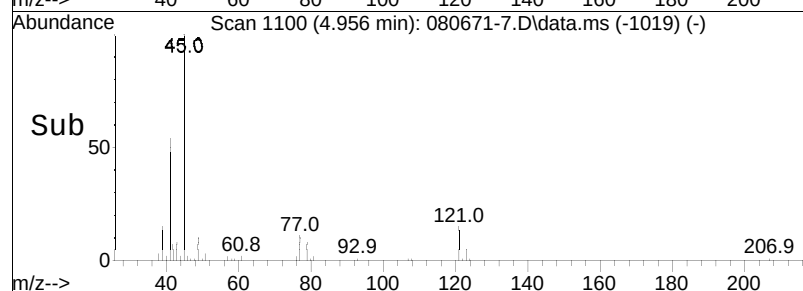
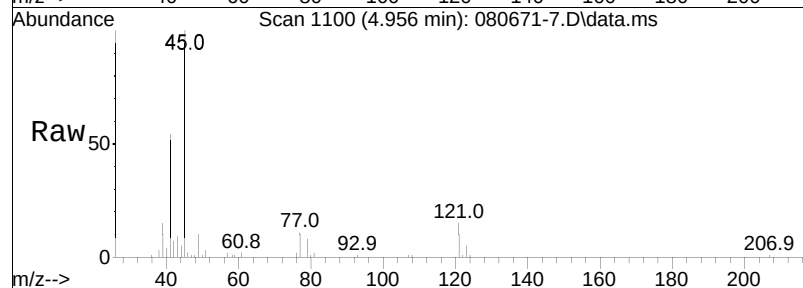
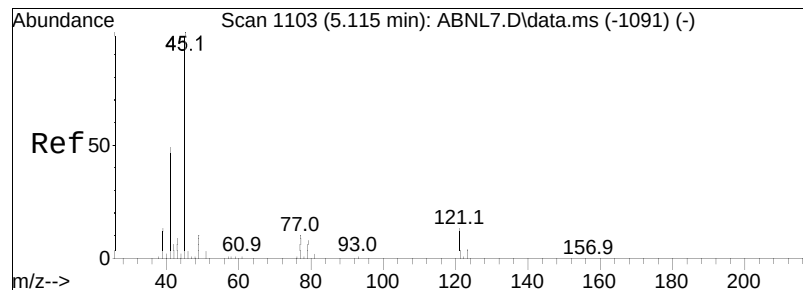




#13
Benzyl alcohol
Concen: 1.20 ug/ml
RT: 4.807 min Scan# 1052
Delta R.T. -0.000 min
Lab File: 080671-7.D
Acq: 19 Jun 2025 4:04 pm

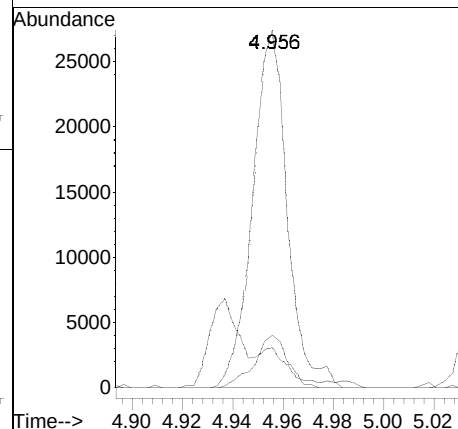
Tgt Ion	Ratio	Lower	Upper
79	100		
77	74.5	54.9	82.3
108	78.6	63.1	94.7

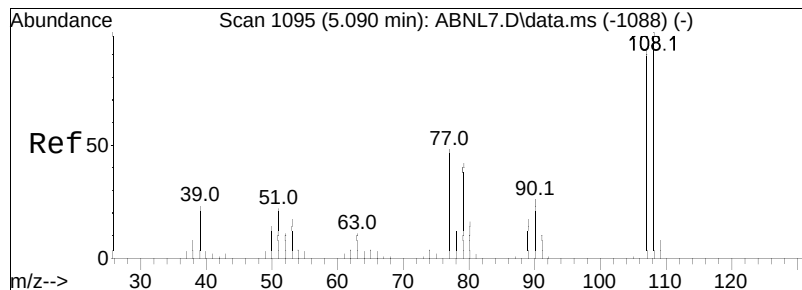




#14
 Bis(2-chloroisopropyl)ether
 Concen: 1.31 ug/ml
 RT: 4.956 min Scan# 1100
 Delta R.T. 0.003 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

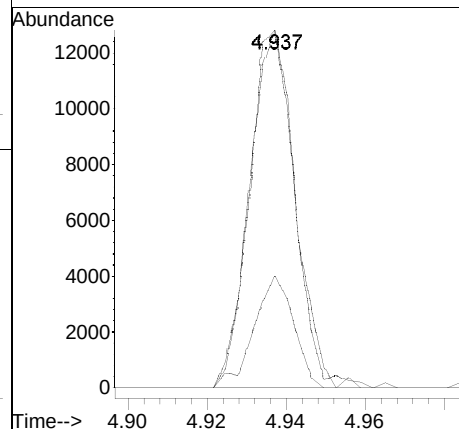
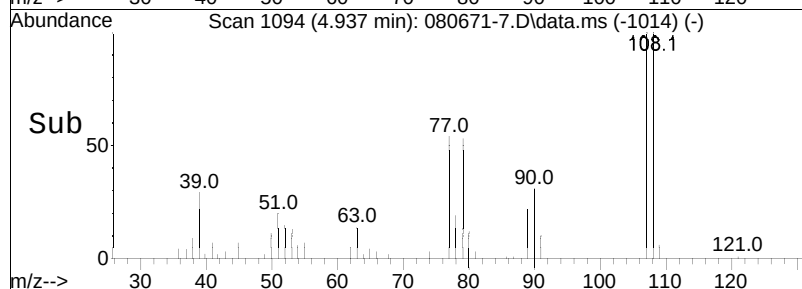
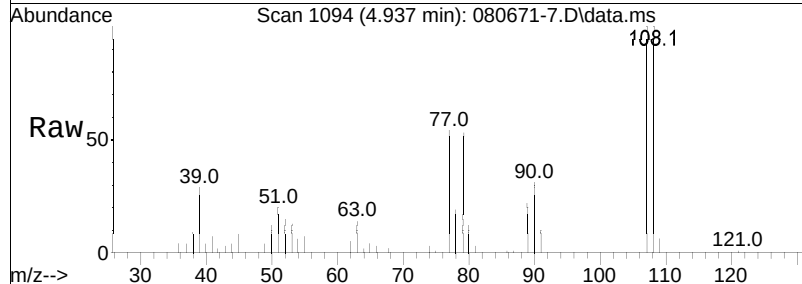
Tgt Ion:	45	Resp:	26237
Ion Ratio	100	Lower	Upper
121	14.0	9.8	14.6
77	23.1	6.1	9.1#

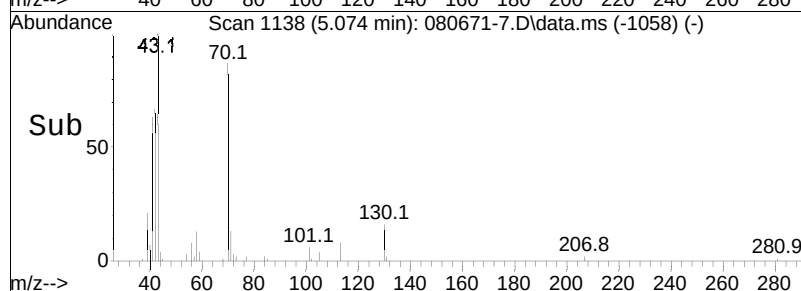
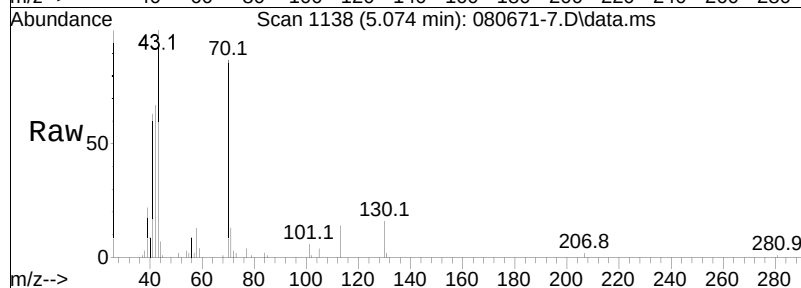
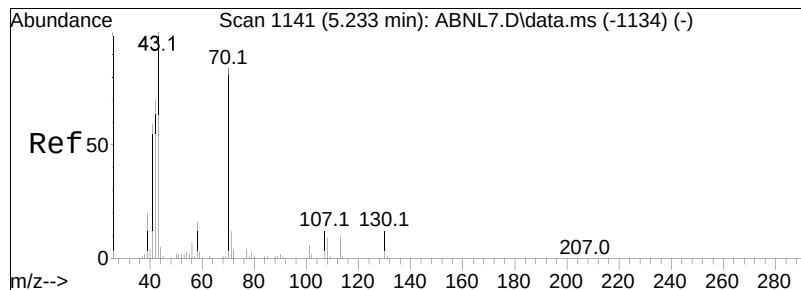




#15
 2-Methylphenol
 Concen: 1.07 ug/ml
 RT: 4.937 min Scan# 1094
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

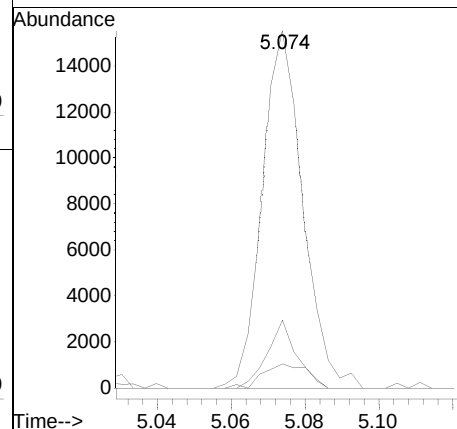
Tgt Ion	Ratio	Lower	Upper
108	100		
107	101.1	70.7	106.1
90	27.5	18.7	28.1

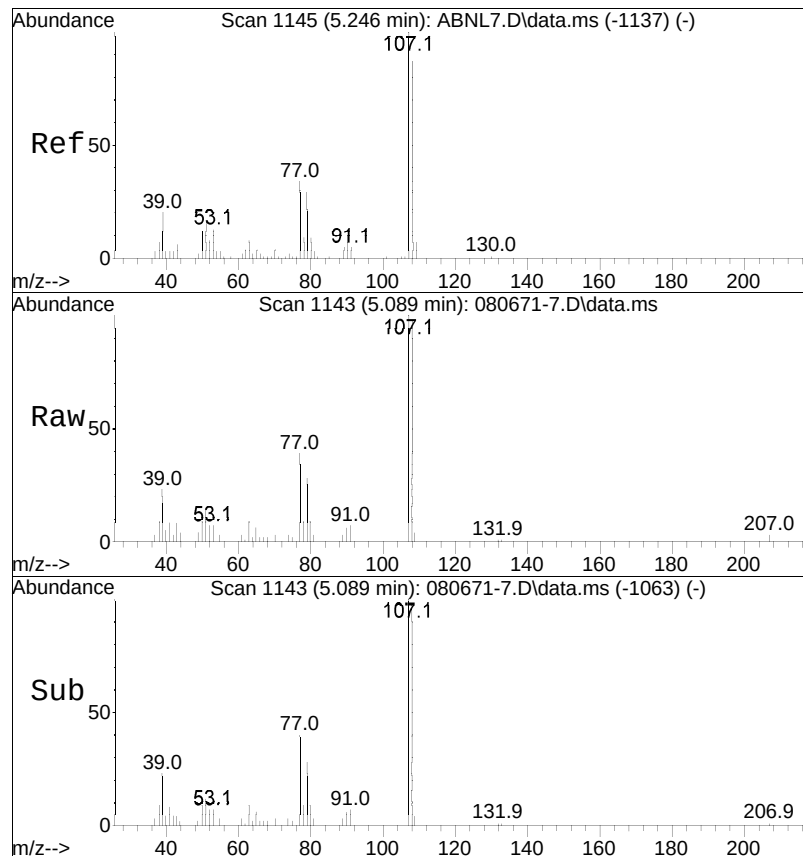




#17
 n-Nitrosodi-n-propylamine
 Concen: 1.39 ug/ml
 RT: 5.074 min Scan# 1138
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

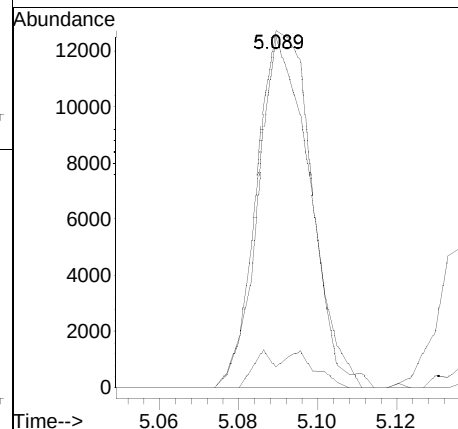
Tgt Ion	Ratio	Lower	Upper
70	100		
130	13.7	18.2	27.4#
101	7.5	7.8	11.8#

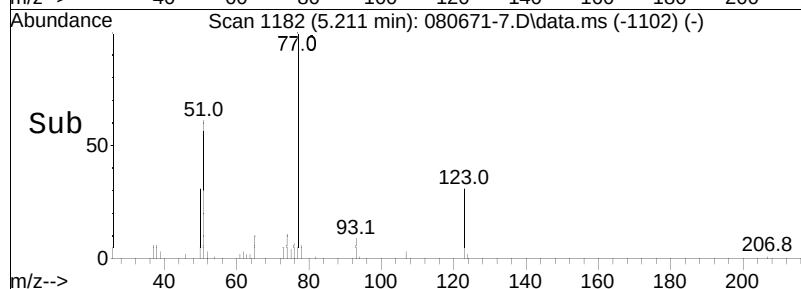
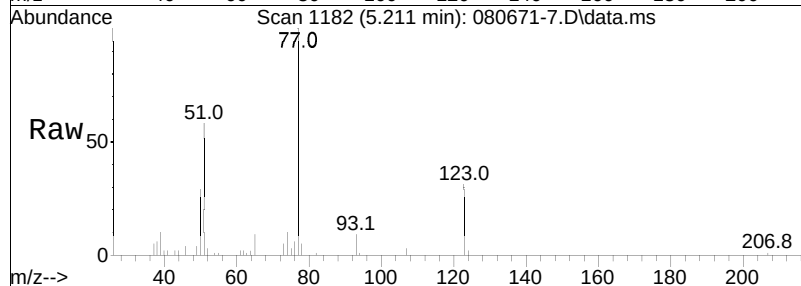
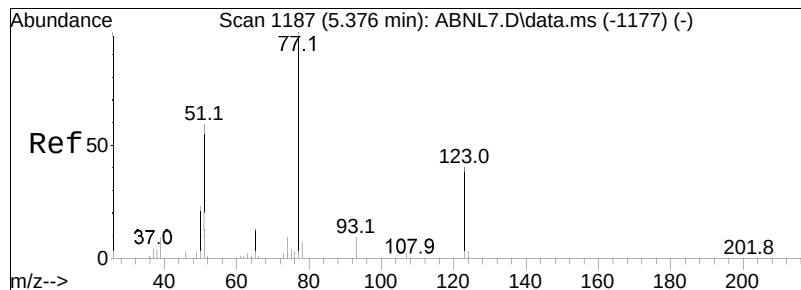




#18
 3-Methylphenol/4-Methylphenol
 Concen: 1.12 ug/ml
 RT: 5.089 min Scan# 1143
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

Tgt Ion	Ratio	Resp	Lower	Upper
108	100	11354		
107	107.8	88.6	132.8	
90	4.5	8.8	13.2#	





#20

Nitrobenzene

Concen: 1.41 ug/ml

RT: 5.211 min Scan# 1182

Delta R.T. -0.000 min

Lab File: 080671-7.D

Acq: 19 Jun 2025 4:04 pm

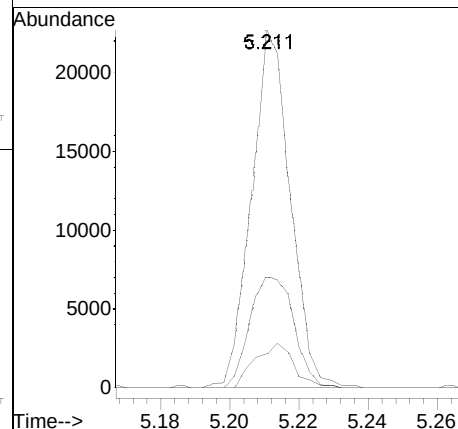
Tgt Ion: 77 Resp: 17594

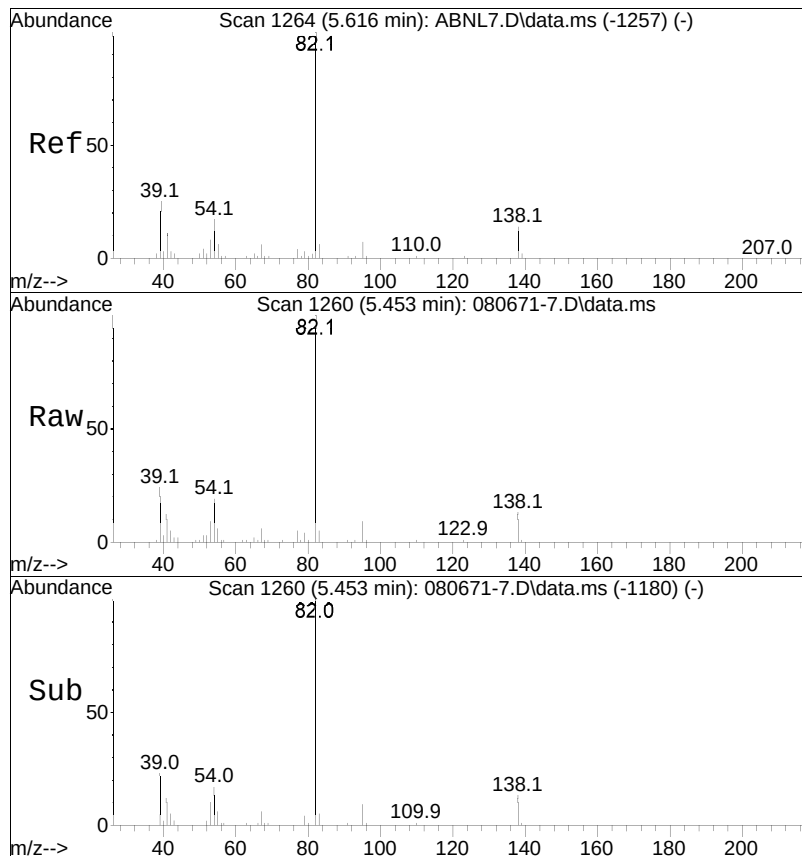
Ion Ratio Lower Upper

77 100

123 35.4 36.3 54.5#

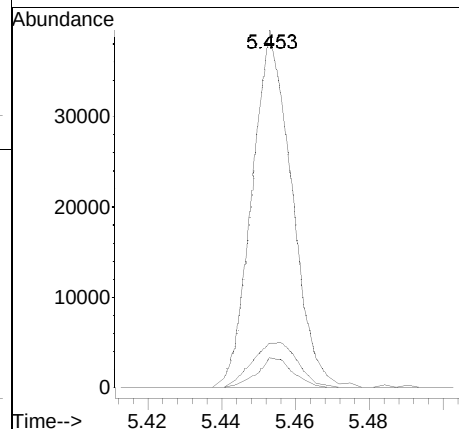
65 12.7 11.6 17.4

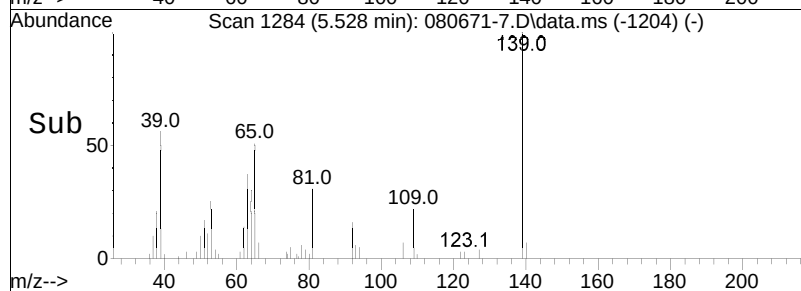
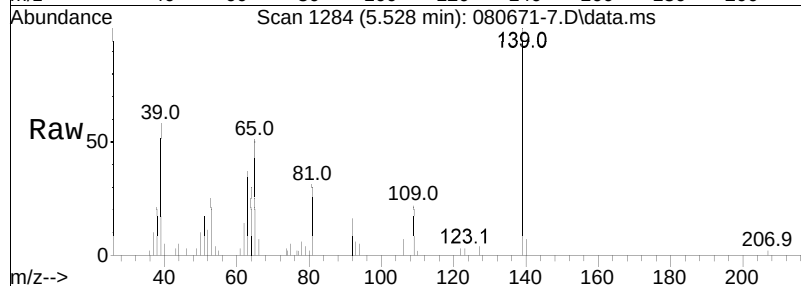
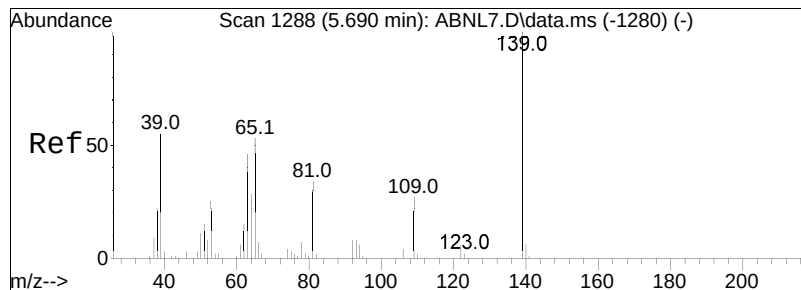




#21
 Isophorone
 Concen: 1.28 ug/ml
 RT: 5.453 min Scan# 1260
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

Tgt Ion	Ratio	Lower	Upper
82	100		
138	14.6	14.7	22.1#
95	7.6	5.2	7.8





#22

2-Nitrophenol

Concen: 1.31 ug/ml

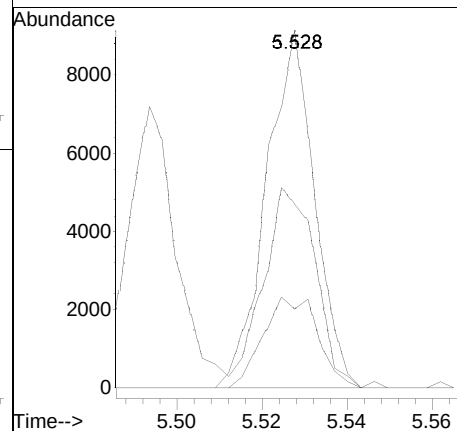
RT: 5.528 min Scan# 1284

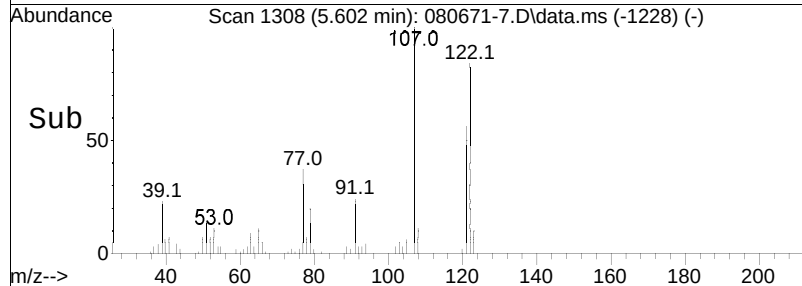
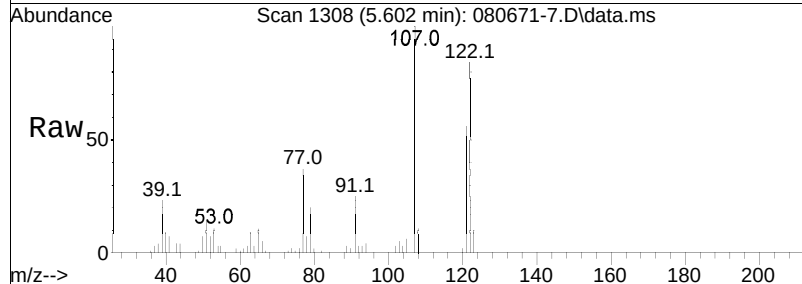
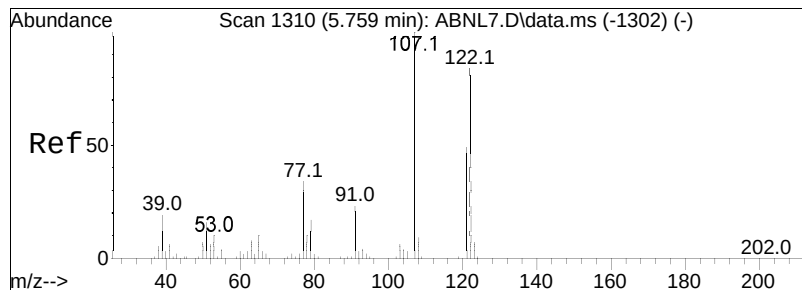
Delta R.T. -0.000 min

Lab File: 080671-7.D

Acq: 19 Jun 2025 4:04 pm

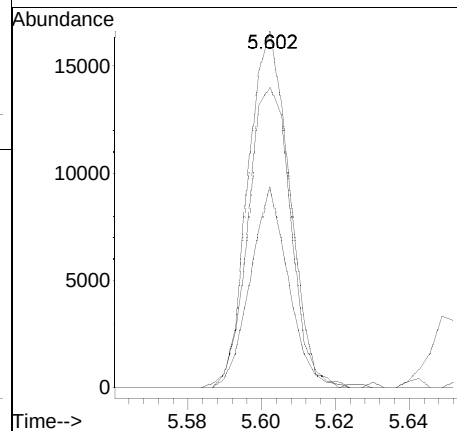
Tgt Ion:	139	Resp:	7170
Ion Ratio	Lower	Upper	
139	100		
109	28.7	19.4	29.0
65	60.5	46.1	69.1

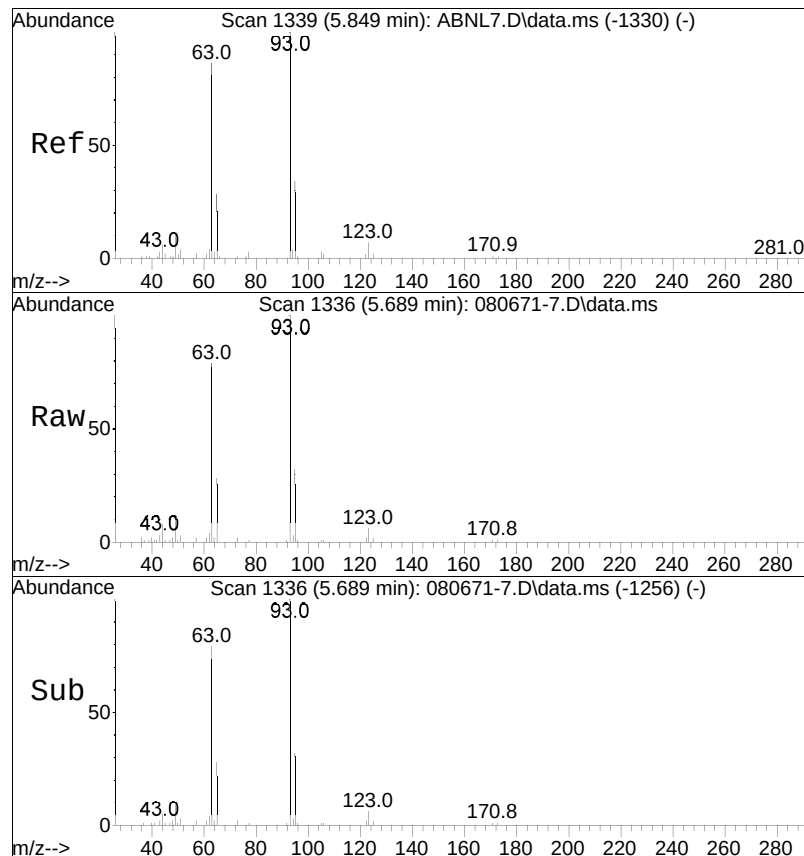




#23
 2,4-Dimethylphenol
 Concen: 1.18 ug/ml
 RT: 5.602 min Scan# 1308
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

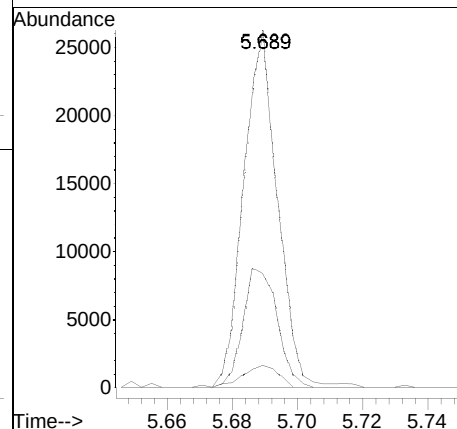
Tgt Ion:	107	Resp:	12933
Ion Ratio	Lower	Upper	
107	100		
121	52.1	40.0	60.0
122	86.7	70.2	105.4

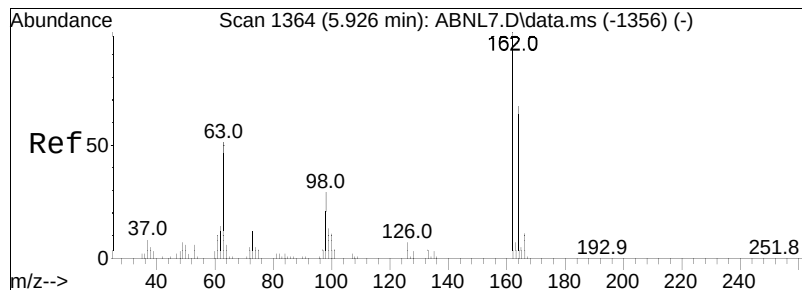




#24
 Bis(2-chloroethoxy)methane
 Concen: 1.39 ug/ml
 RT: 5.689 min Scan# 1336
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

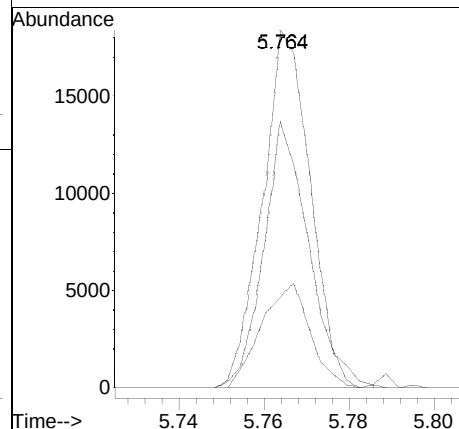
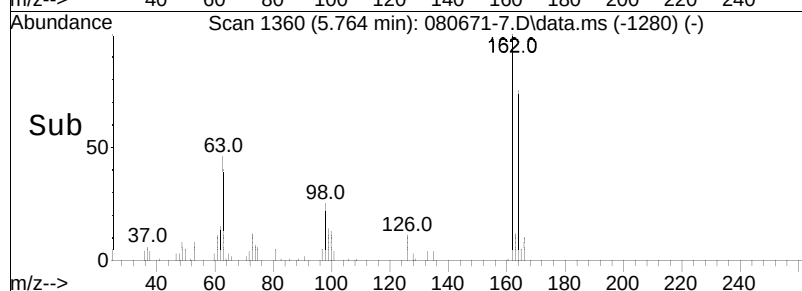
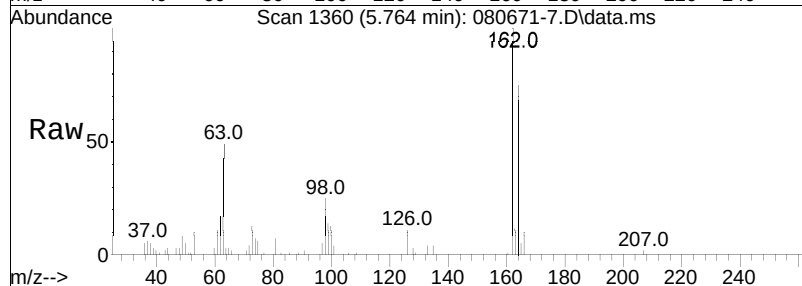
Tgt Ion	Ratio	Lower	Upper
93	100		
95	34.0	25.8	38.8
123	6.8	10.1	15.1

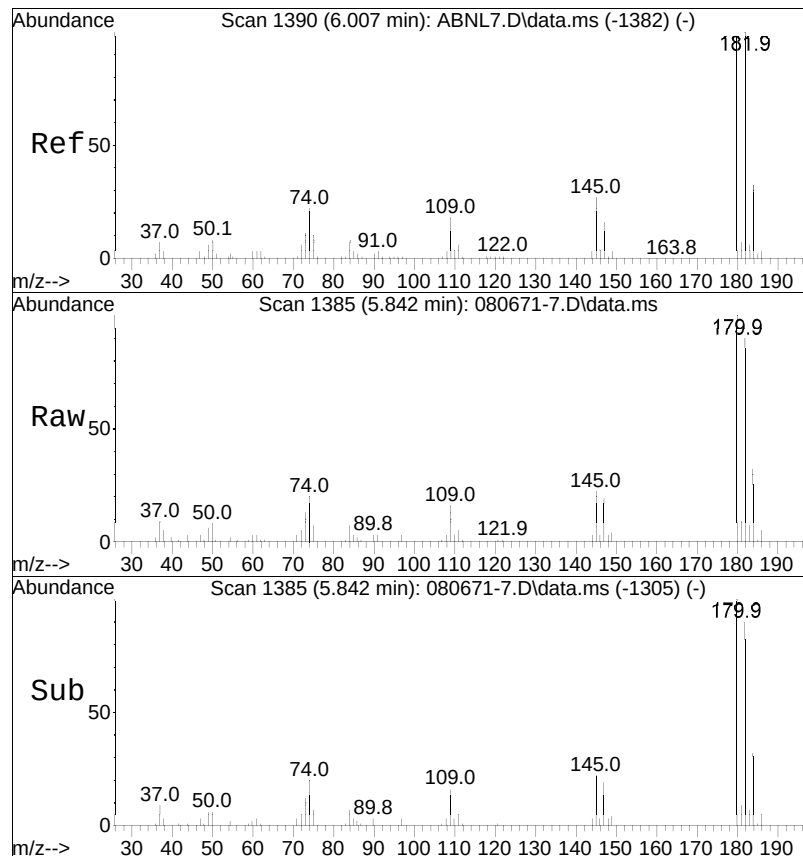




#25
 2,4-Dichlorophenol
 Concen: 1.27 ug/ml
 RT: 5.764 min Scan# 1360
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

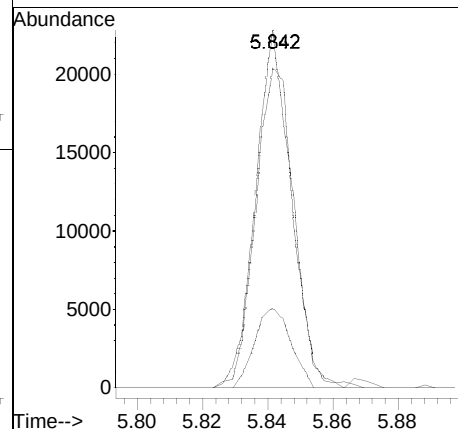
Tgt Ion	Ratio	Lower	Upper
162	100		
164	68.0	51.0	76.4
98	29.8	32.2	48.2#

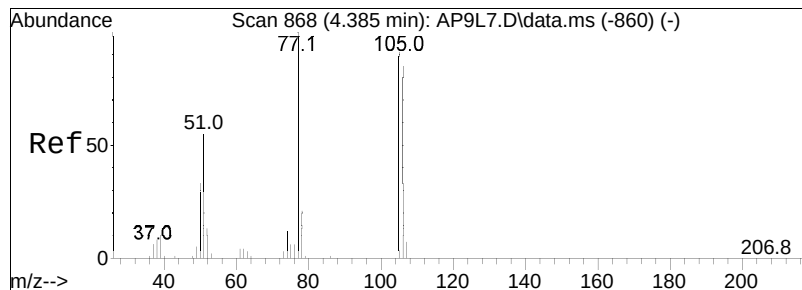




#26
 1,2,4-Trichlorobenzene
 Concen: 1.23 ug/ml
 RT: 5.842 min Scan# 1385
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

Tgt Ion:	180	Resp:	17441
Ion Ratio	Lower	Upper	
180	100		
182	94.2	76.0	114.0
145	22.5	25.7	38.5#





#28

Benzaldehyde

Concen: 1.54 ug/ml

RT: 4.222 min Scan# 864

Delta R.T. 0.000 min

Lab File: 080671-7.D

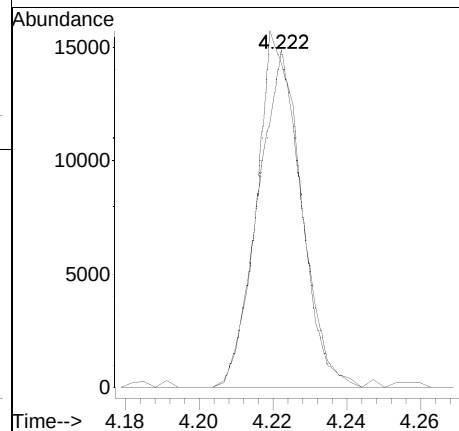
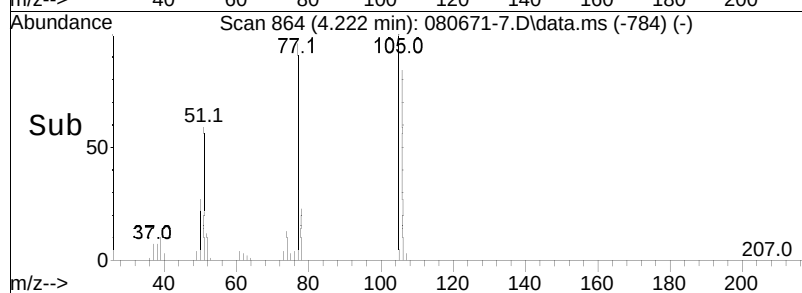
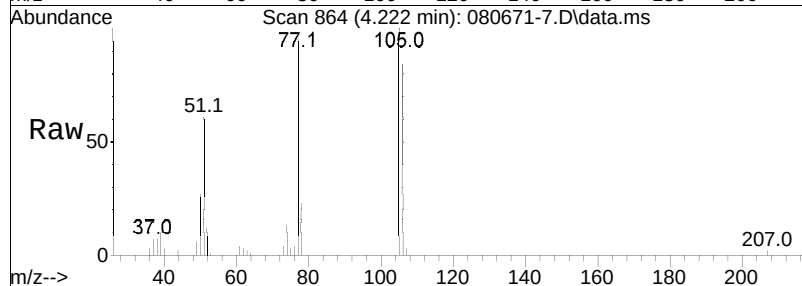
Acq: 19 Jun 2025 4:04 pm

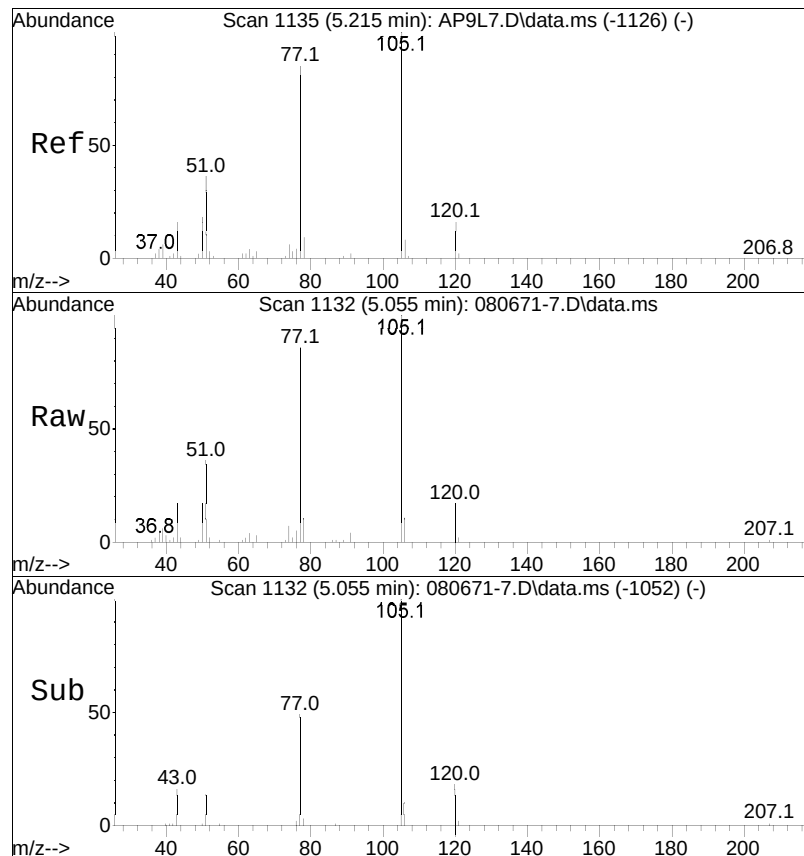
Tgt Ion:105 Resp: 12096

Ion Ratio Lower Upper

105 100

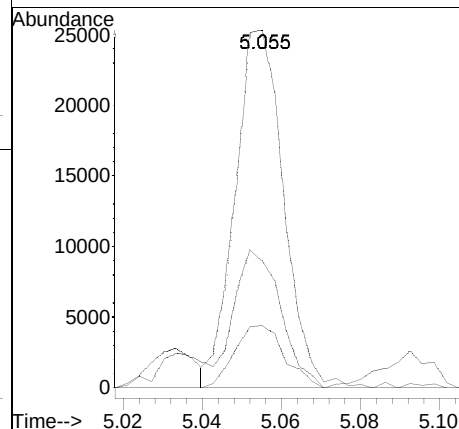
77 107.8 82.2 123.4

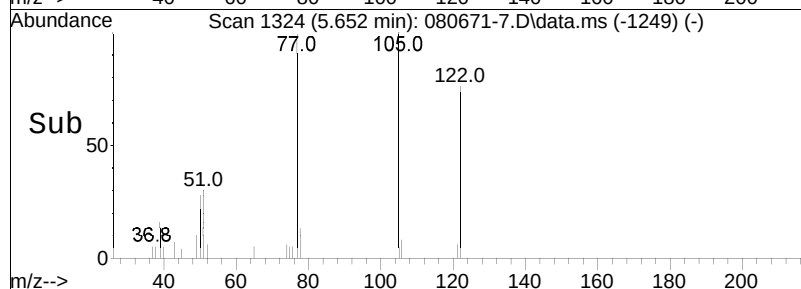
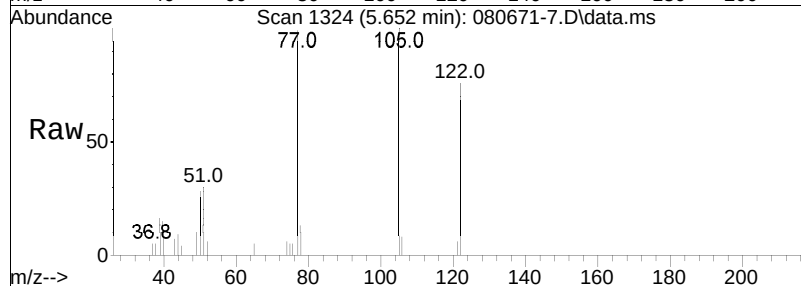
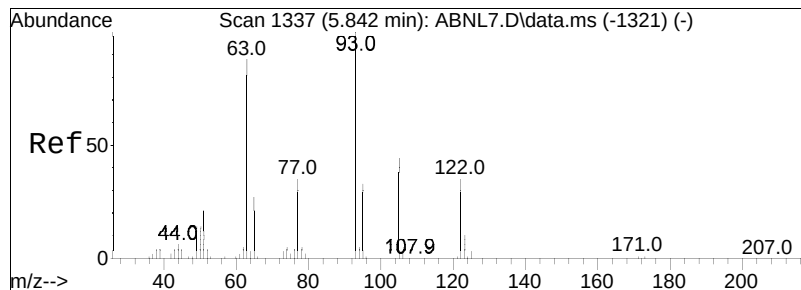




#29
 Acetophenone
 Concen: 1.55 ug/ml
 RT: 5.055 min Scan# 1132
 Delta R.T. 0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

Tgt Ion:	105	Resp:	21447
Ion Ratio	Lower	Upper	
105	100		
120	18.0	20.5	30.7#
51	37.0	34.9	52.3





#39

Benzoic Acid

Concen: 1.96 ug/ml

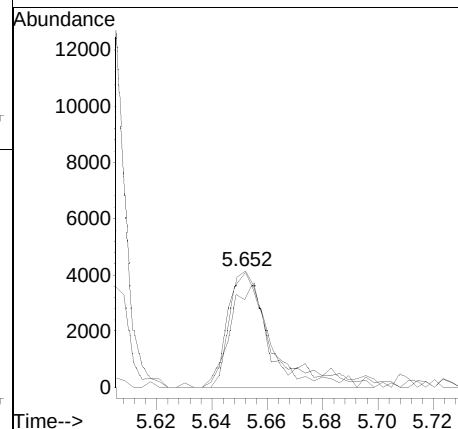
RT: 5.652 min Scan# 1324

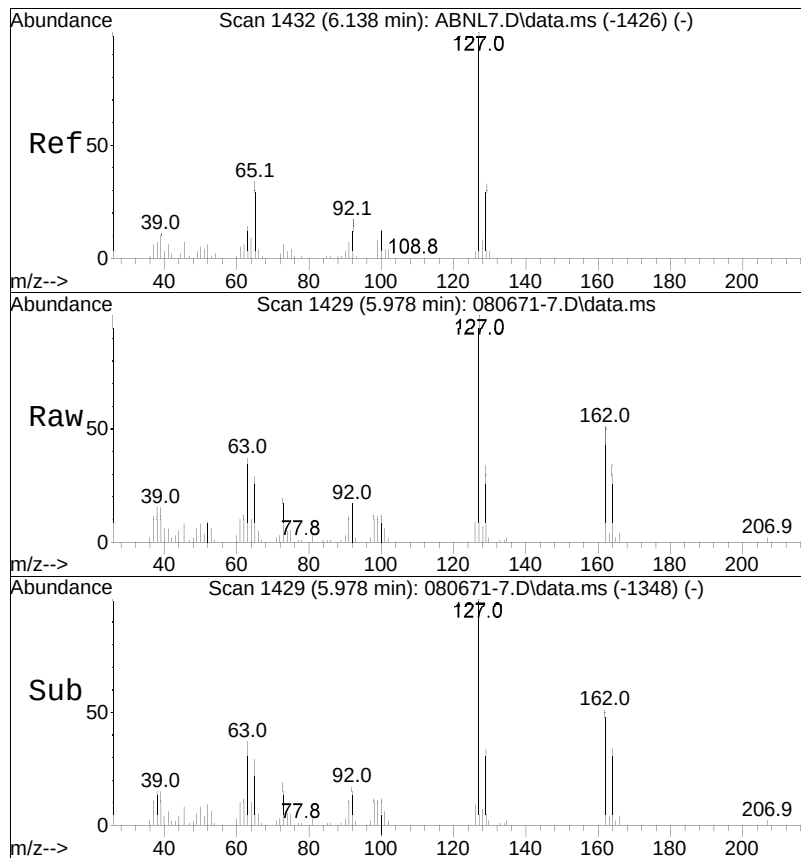
Delta R.T. -0.016 min

Lab File: 080671-7.D

Acq: 19 Jun 2025 4:04 pm

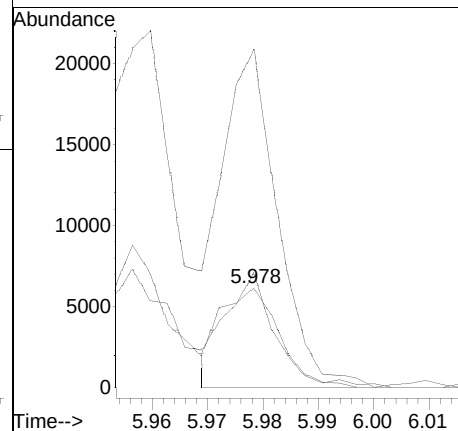
Tgt Ion:	105	Resp:	4398
Ion Ratio	Lower	Upper	
105	100		
122	86.1	59.9	89.9
77	94.6	60.1	90.1#

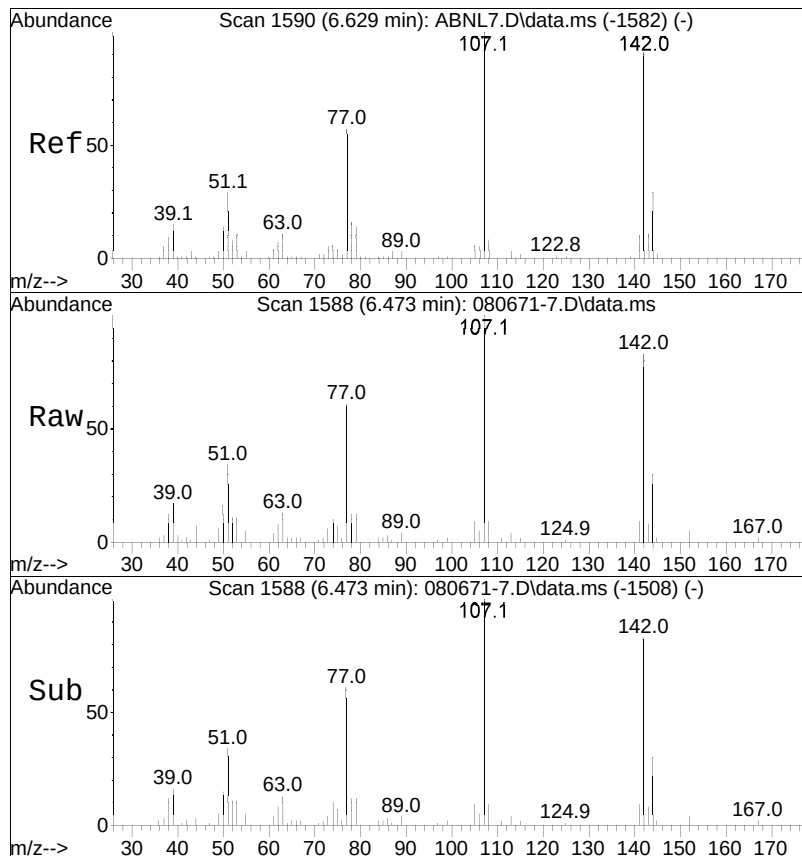




#40
 4-Chloroaniline
 Concen: 1.02 ug/ml
 RT: 5.978 min Scan# 1429
 Delta R.T. 0.003 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

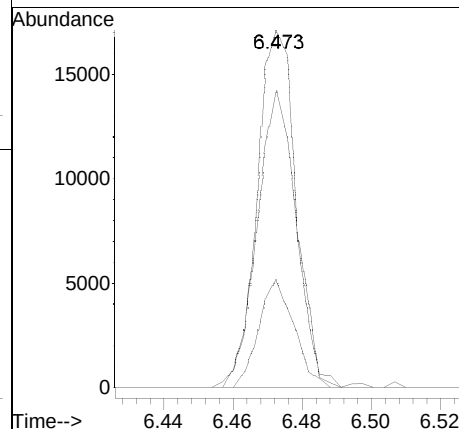
Tgt Ion:	65	Resp:	4538
Ion Ratio	Lower	Upper	
65	100		
127	316.9	237.6	356.4
129	97.8	76.3	114.5

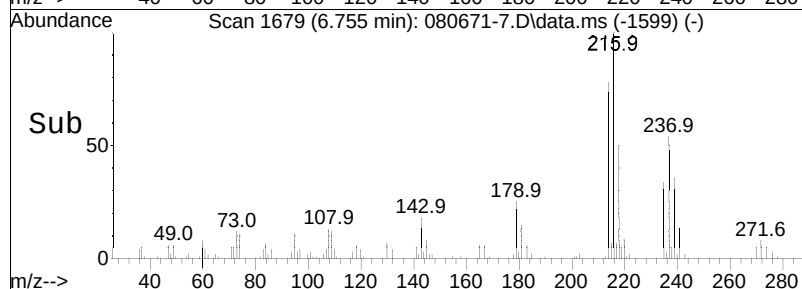
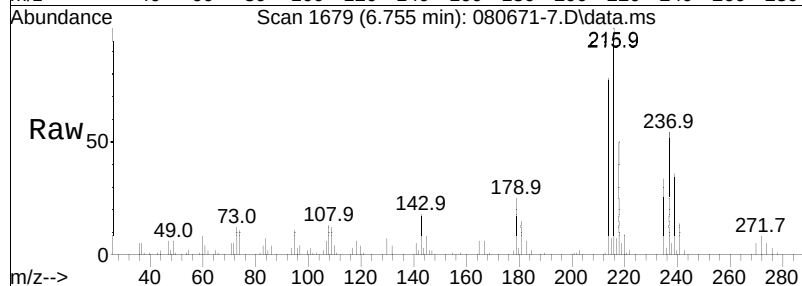
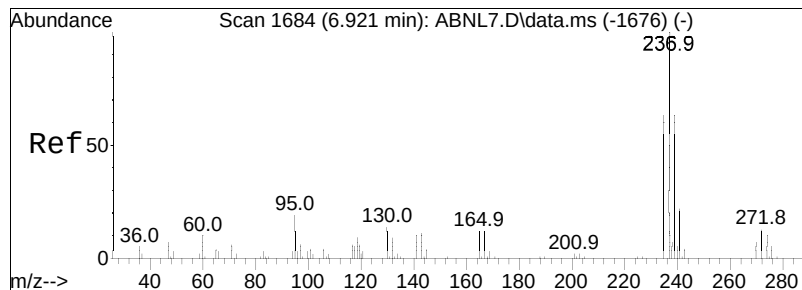




#42
 p-Chloro-m-cresol
 Concen: 1.46 ug/ml
 RT: 6.473 min Scan# 1588
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

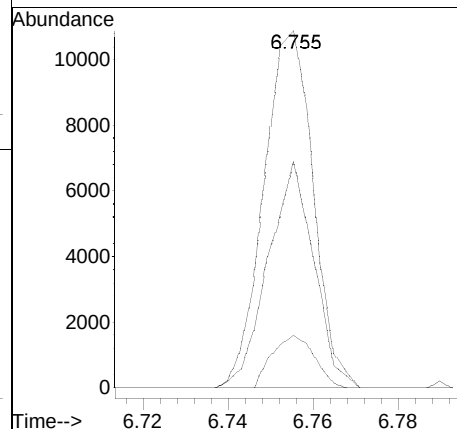
Tgt Ion:	107	Resp:	13152
Ion Ratio	Lower	Upper	
107	100		
144	27.8	20.9	31.3
142	84.6	66.1	99.1

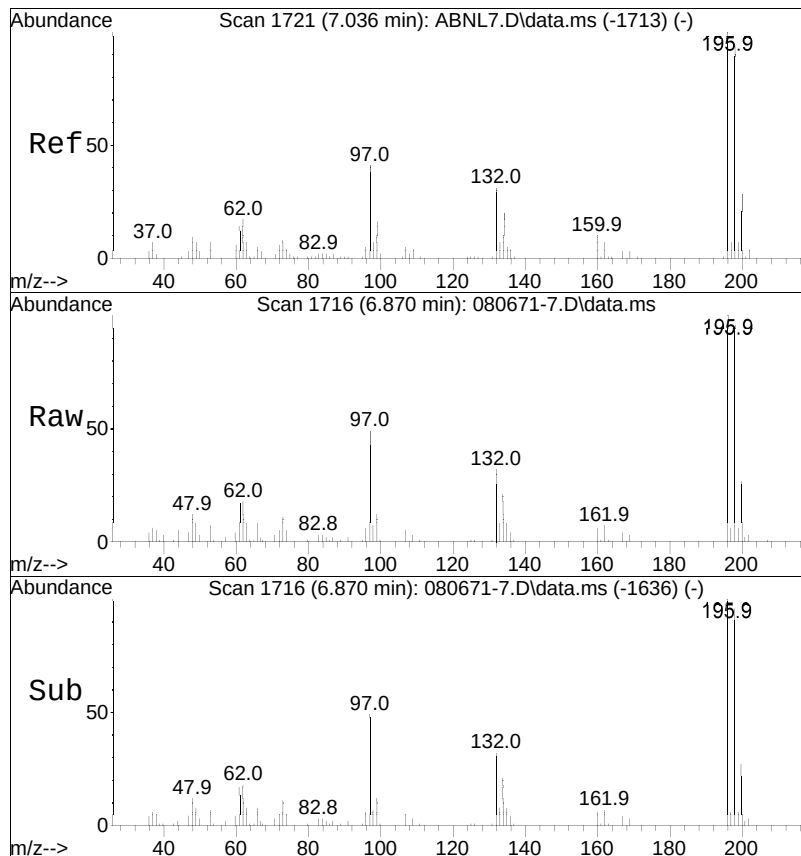




#45
 Hexachlorocyclopentadiene
 Concen: 0.81 ug/ml
 RT: 6.755 min Scan# 1679
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

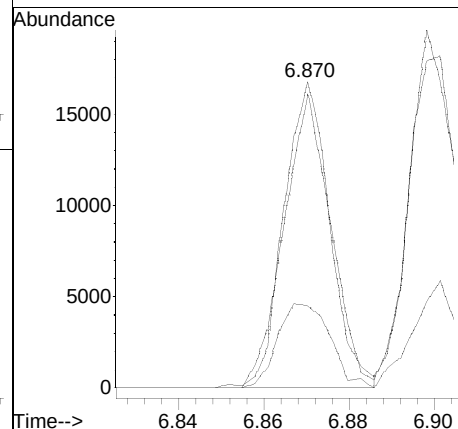
Tgt Ion	Ratio	Resp	Lower	Upper
237	100	8720		
235	58.8		49.7	74.5
272	12.6		9.8	14.6

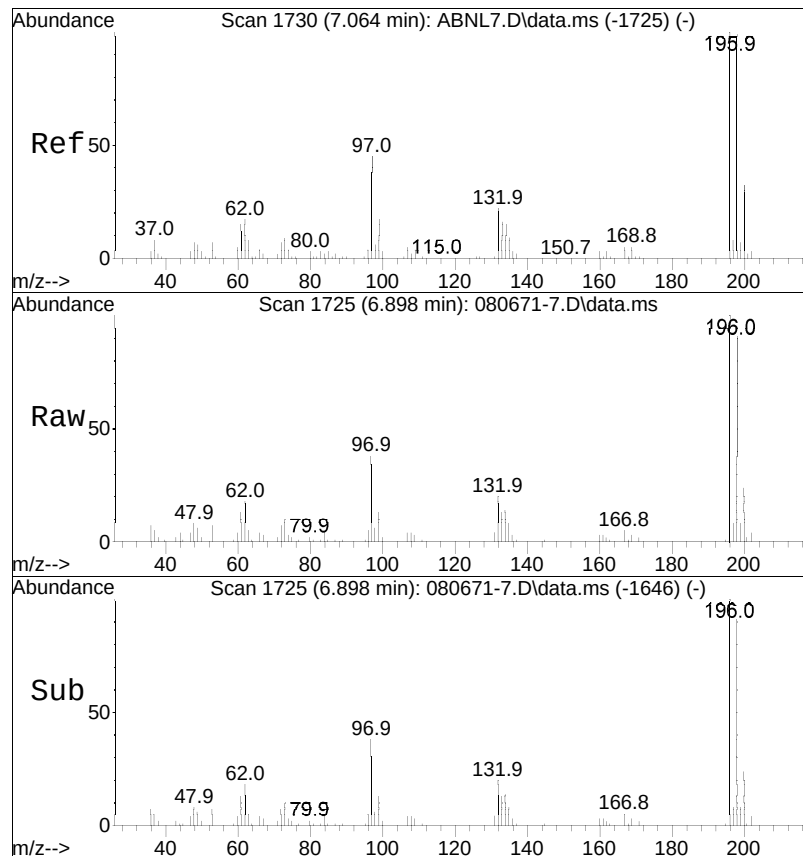




#46
 2,4,6-Trichlorophenol
 Concen: 1.34 ug/ml
 RT: 6.870 min Scan# 1716
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

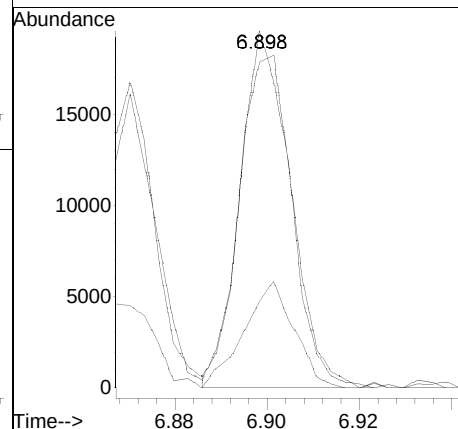
Tgt Ion	Ratio	Lower	Upper
196	100		
198	98.0	77.5	116.3
200	31.5	23.8	35.6

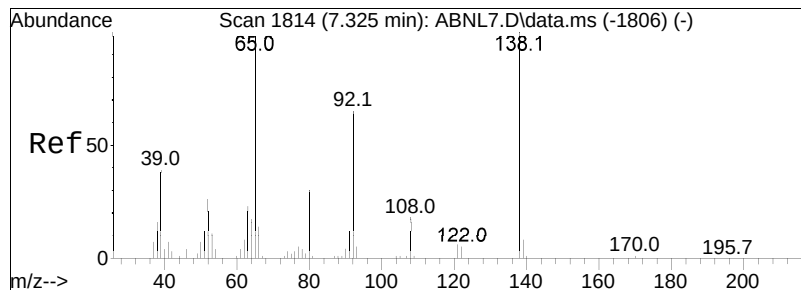




#47
 2,4,5-Trichlorophenol
 Concen: 1.40 ug/ml
 RT: 6.898 min Scan# 1725
 Delta R.T. -0.003 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

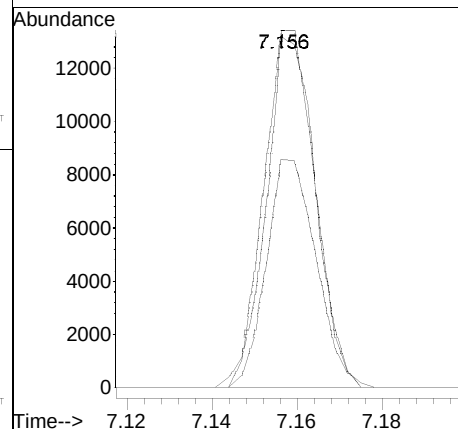
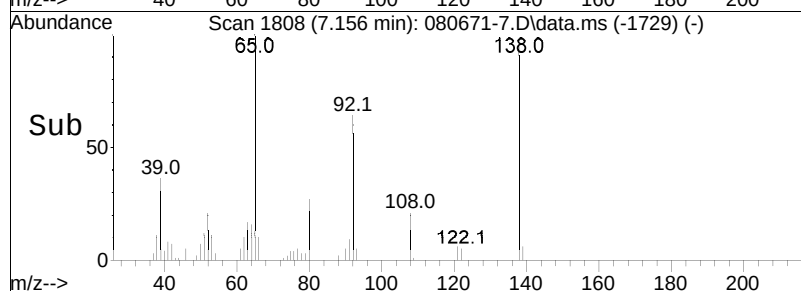
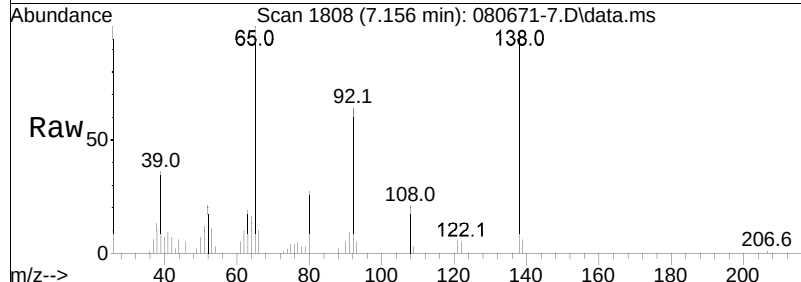
Tgt Ion:	196	Resp:	14543
Ion Ratio	Lower	Upper	
196	100		
200	30.2	25.4	38.0
198	102.6	78.0	117.0

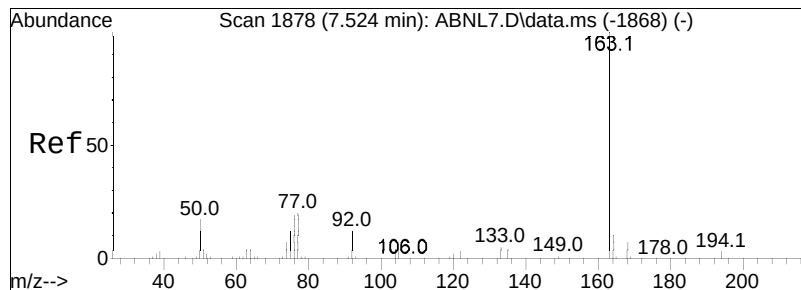




#50
 2-Nitroaniline
 Concen: 1.56 ug/ml
 RT: 7.156 min Scan# 1808
 Delta R.T. -0.003 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

Tgt Ion	Ratio	Lower	Upper
138	100		
92	65.6	53.5	80.3
65	104.6	86.3	129.5





#53

Dimethyl phthalate

Concen: 1.53 ug/ml

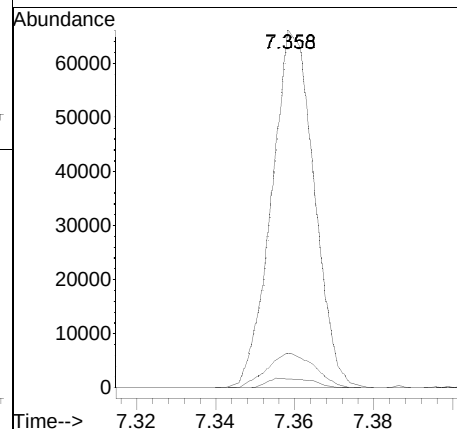
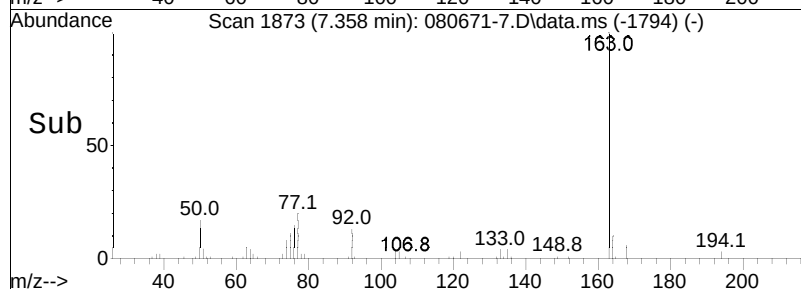
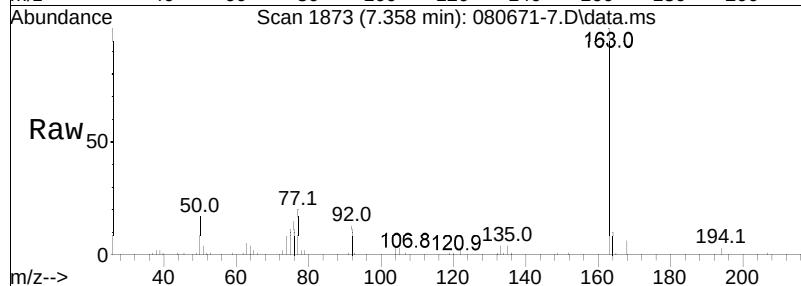
RT: 7.358 min Scan# 1873

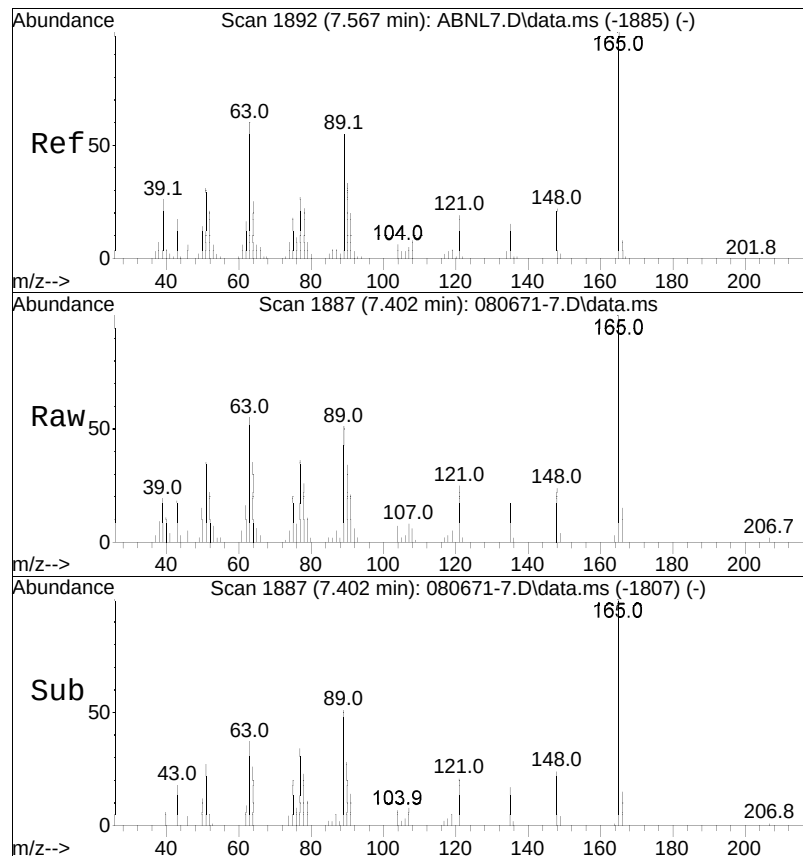
Delta R.T. -0.003 min

Lab File: 080671-7.D

Acq: 19 Jun 2025 4:04 pm

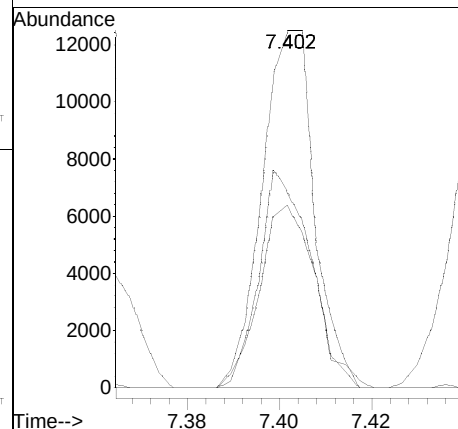
Tgt	Ion:163	Resp:	48977
Ion	Ratio	Lower	Upper
163	100		
194	3.0	3.5	5.3#
164	11.1	7.9	11.9

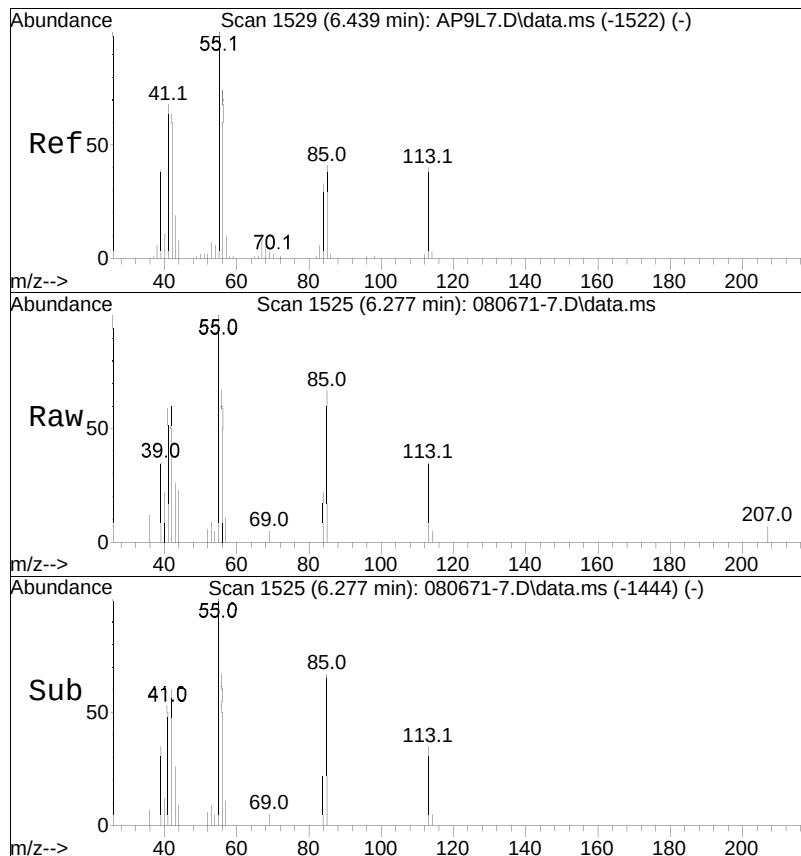




#55
 2,6-Dinitrotoluene
 Concen: 1.54 ug/ml
 RT: 7.402 min Scan# 1887
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

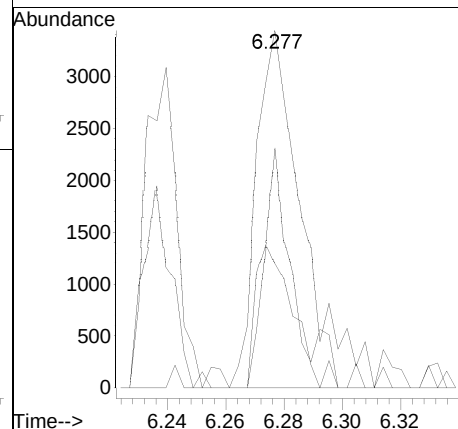
Tgt Ion	Ratio	Resp	Lower	Upper
165	100	9877		
89	54.0		54.2	81.2#
63	60.3		64.2	96.2#

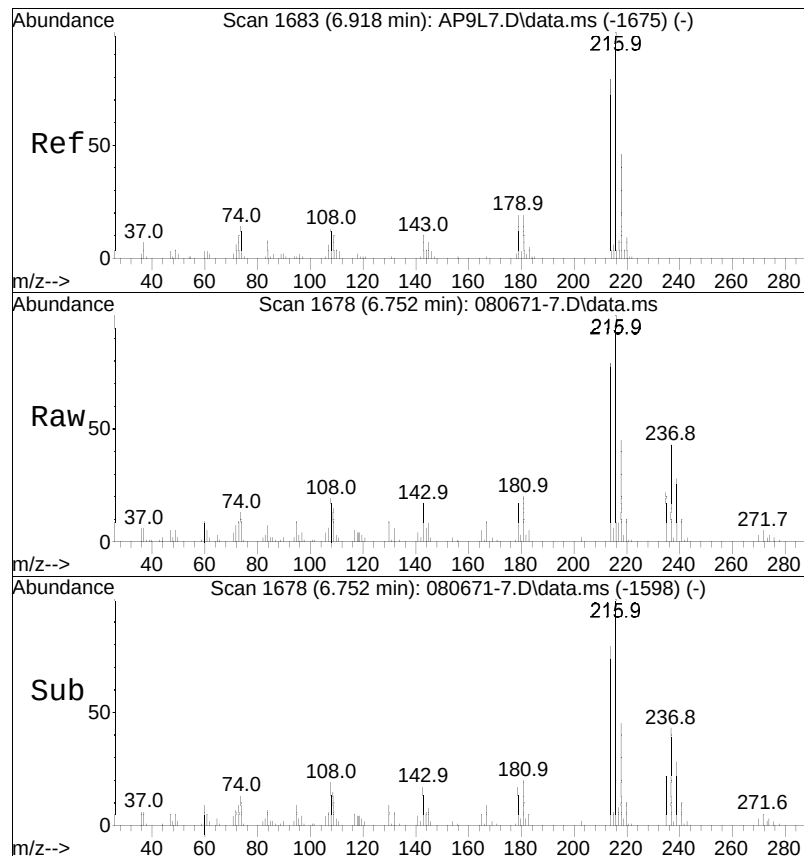




#62
 Caprolactam
 Concen: 0.72 ug/ml
 RT: 6.277 min Scan# 1525
 Delta R.T. 0.003 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

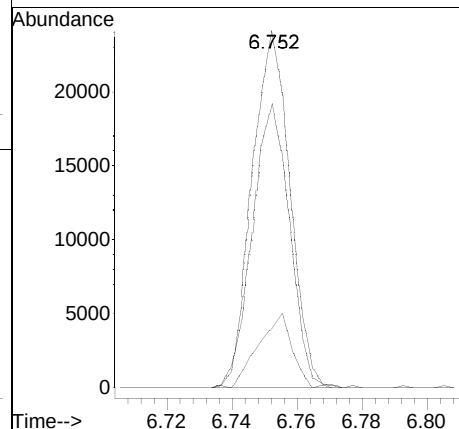
Tgt Ion:	55	Resp:	3870
Ion Ratio	Lower	Upper	
55	100		
85	35.8	19.8	29.6#
113	30.3	29.6	44.4

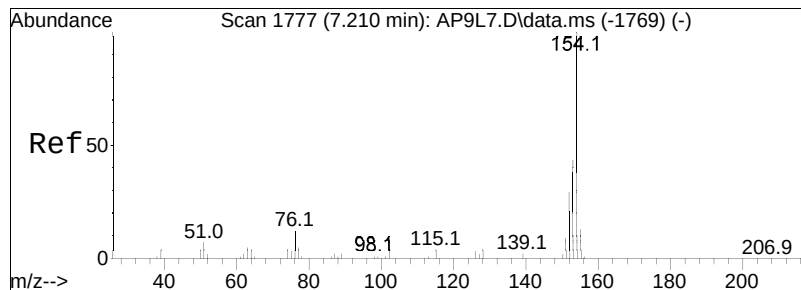




#63
 1,2,4,5-Tetrachlorobenzene
 Concen: 1.38 ug/ml
 RT: 6.752 min Scan# 1678
 Delta R.T. 0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

Tgt Ion	Ratio	Lower	Upper
216	100		
214	78.4	63.7	95.5
179	18.8	19.0	28.6#





#64

Biphenyl

Concen: 1.41 ug/ml

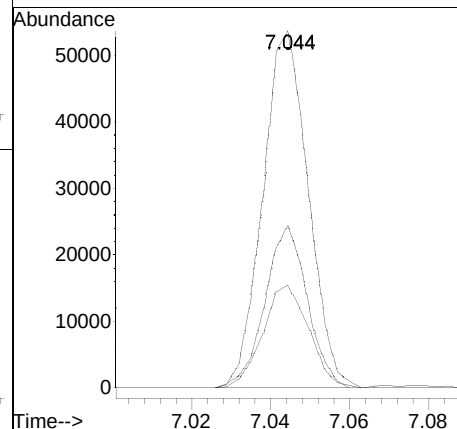
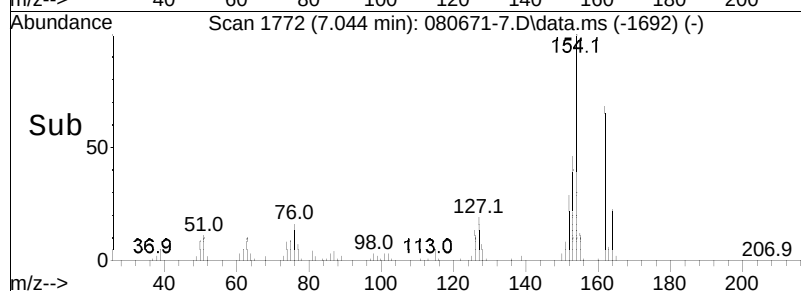
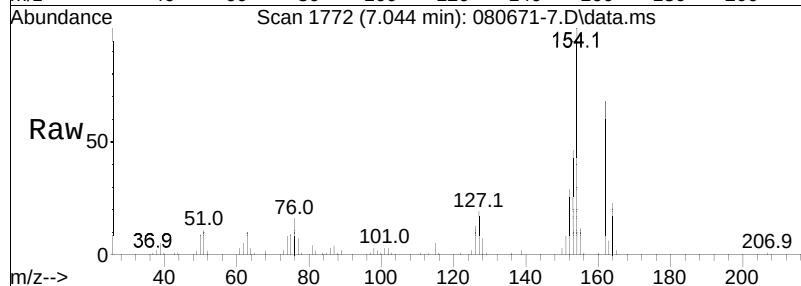
RT: 7.044 min Scan# 1772

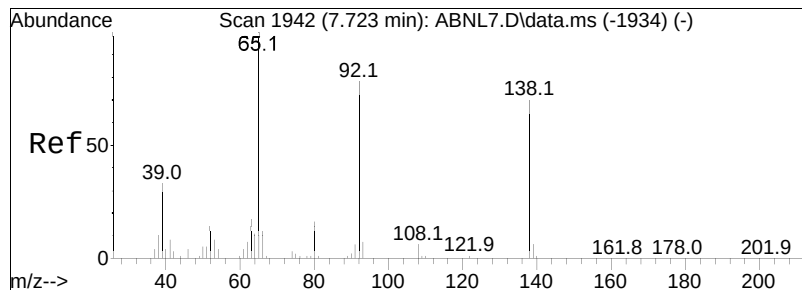
Delta R.T. 0.000 min

Lab File: 080671-7.D

Acq: 19 Jun 2025 4:04 pm

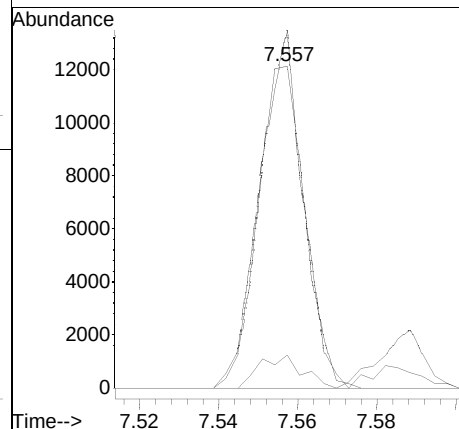
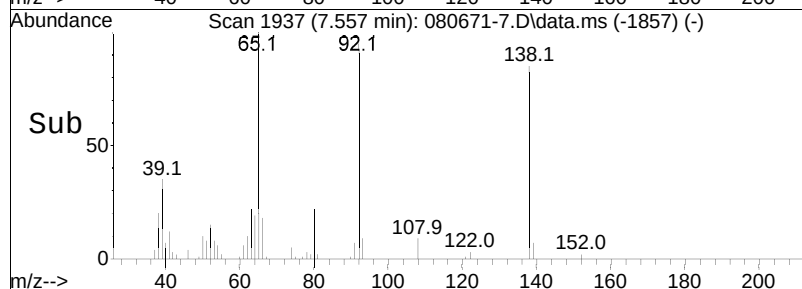
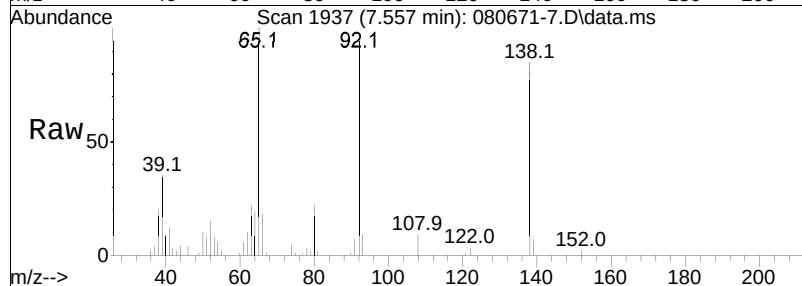
Tgt Ion:	154	Resp:	42587
Ion Ratio	Lower	Upper	
154	100		
153	42.5	32.3	48.5
152	29.2	22.5	33.7

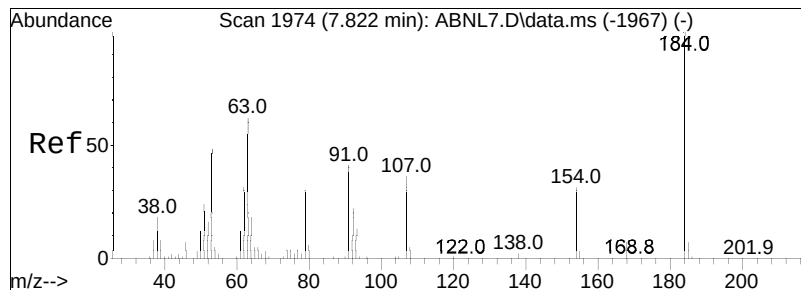




#66
 3-Nitroaniline
 Concen: 1.52 ug/ml
 RT: 7.557 min Scan# 1937
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

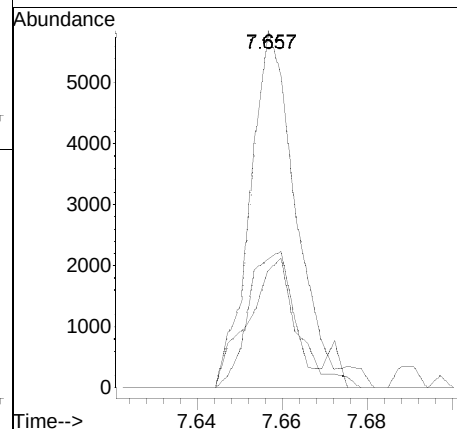
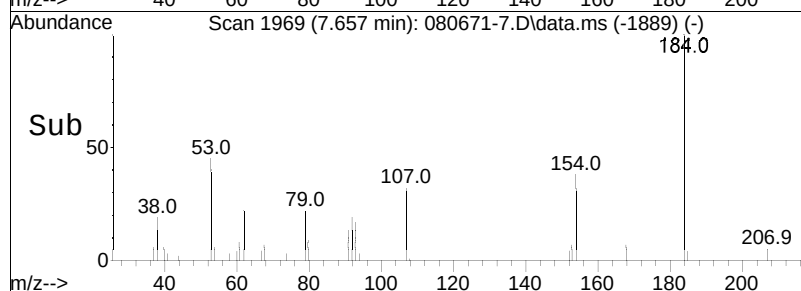
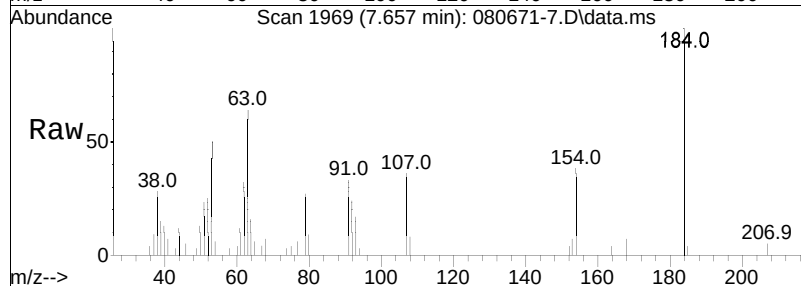
Tgt Ion	Ratio	Lower	Upper
138	100		
92	102.4	93.4	140.2
108	9.3	9.5	14.3#

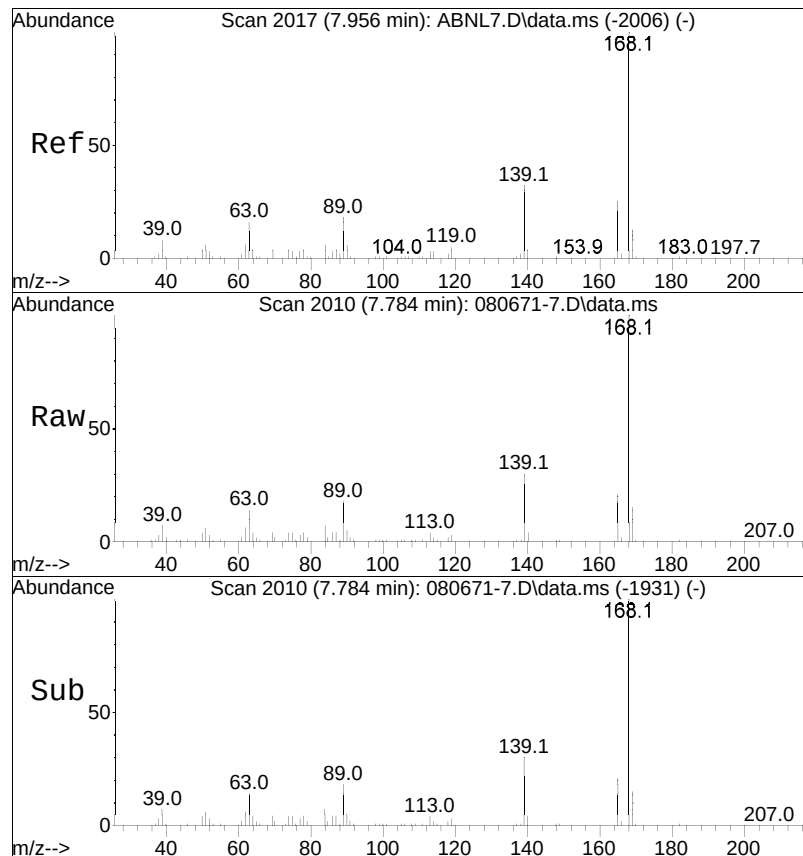




#68
 2,4-Dinitrophenol
 Concen: 1.17 ug/ml
 RT: 7.657 min Scan# 1969
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

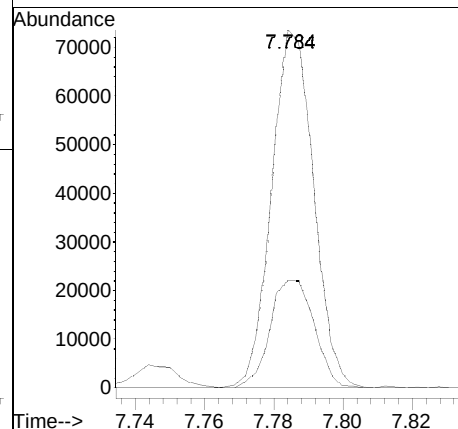
Tgt Ion	Ratio	Lower	Upper
184	100		
107	40.9	37.7	56.5
91	38.9	46.3	69.5

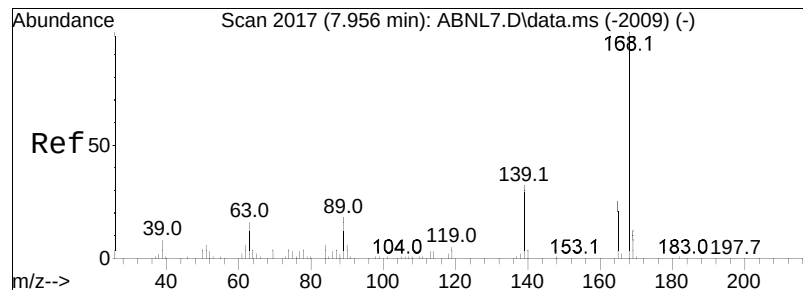




#69
 Dibenzofuran
 Concen: 1.38 ug/ml
 RT: 7.784 min Scan# 2010
 Delta R.T. -0.003 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

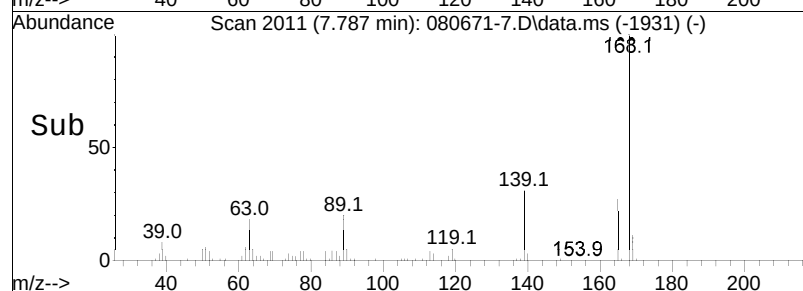
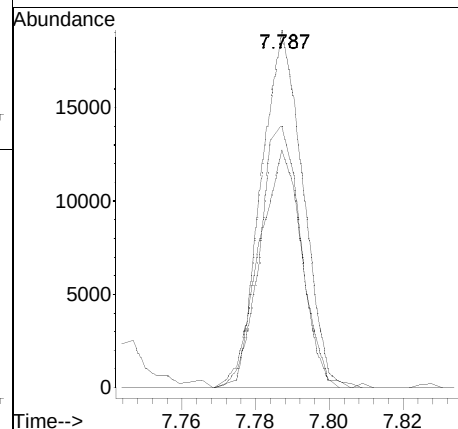
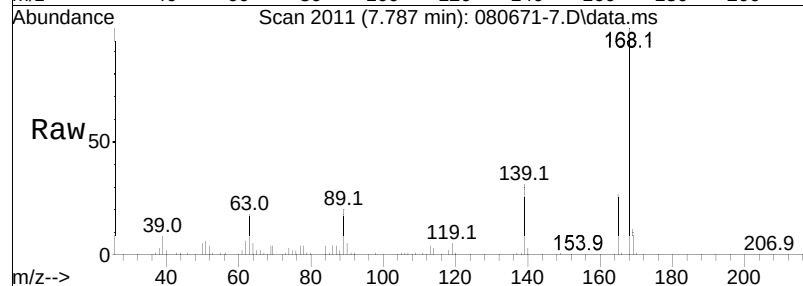
Tgt Ion	Ratio	Lower	Upper
168	100		
139	31.7	31.4	47.2

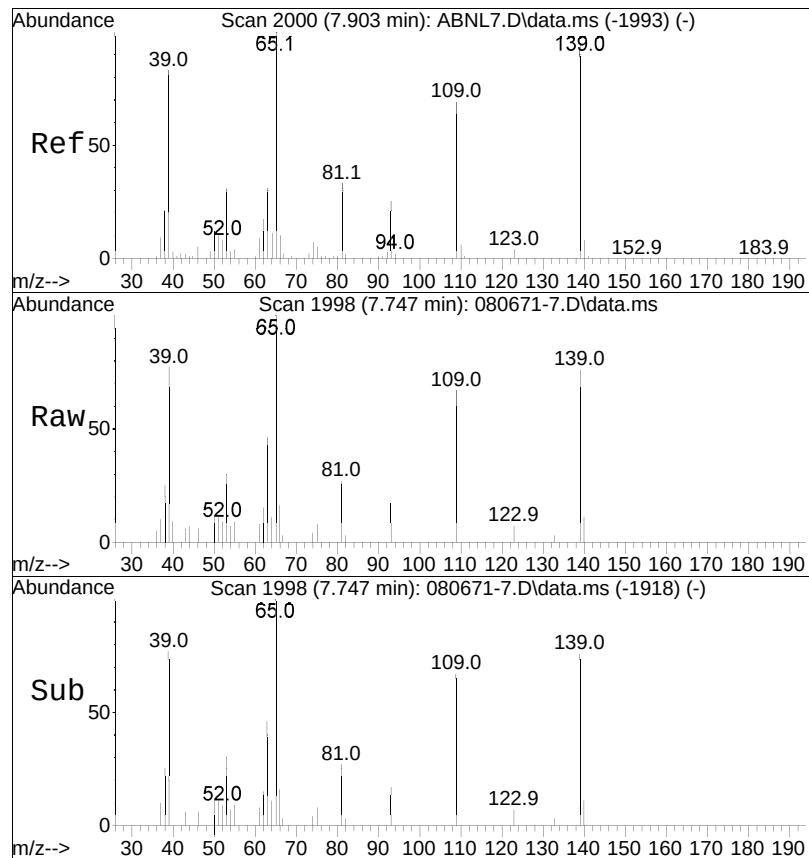




#70
 2,4-Dinitrotoluene
 Concen: 1.55 ug/ml
 RT: 7.787 min Scan# 2011
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

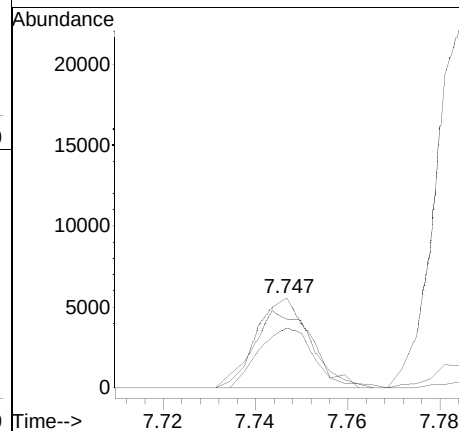
Tgt Ion	Ratio	Lower	Upper
165	100		
89	72.4	72.0	108.0
63	68.8	52.7	79.1

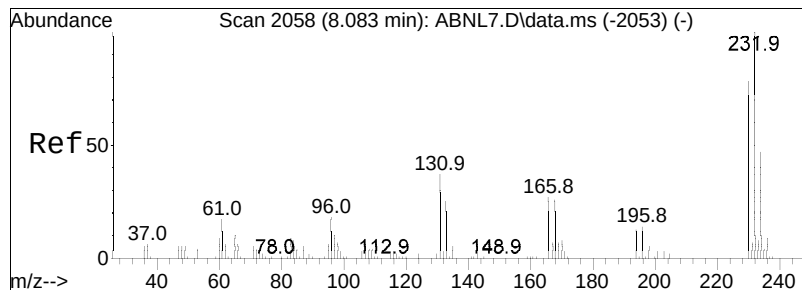




#71
 4-Nitrophenol
 Concen: 0.76 ug/ml
 RT: 7.747 min Scan# 1998
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

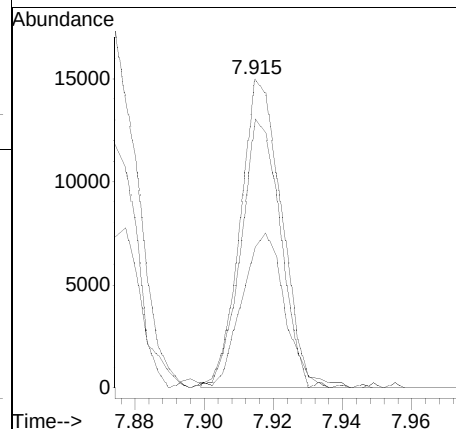
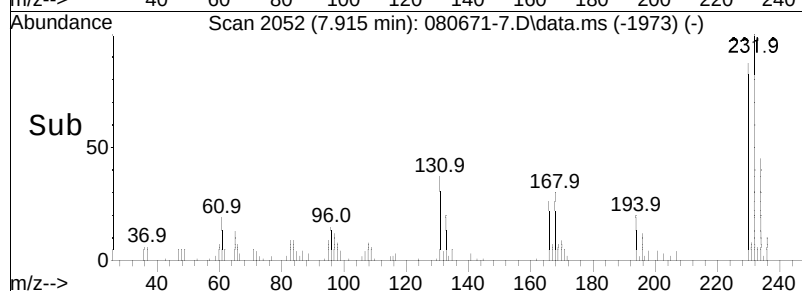
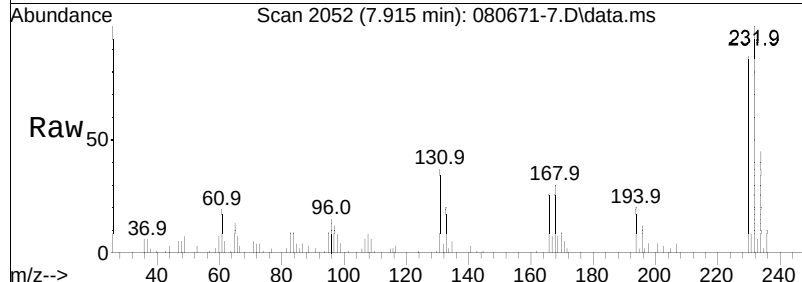
Tgt Ion:	65	Resp:	4500
Ion Ratio	Lower	Upper	
65	100		
109	68.5	47.4	71.2
139	93.4	76.6	115.0

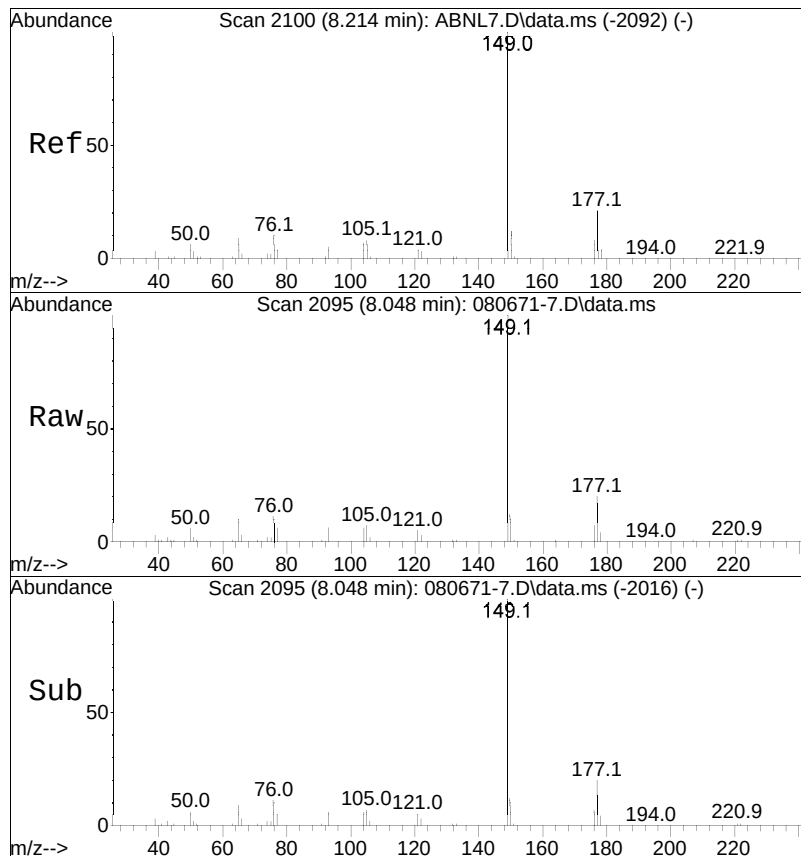




#73
 2,3,4,6-Tetrachlorophenol
 Concen: 1.32 ug/ml
 RT: 7.915 min Scan# 2052
 Delta R.T. -0.003 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

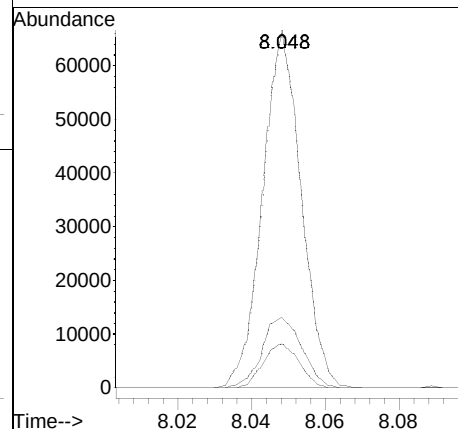
Tgt Ion:	232	Resp:	12556
Ion Ratio	Lower	Upper	
232	100		
230	83.9	61.8	92.8
234	50.9	36.2	54.2

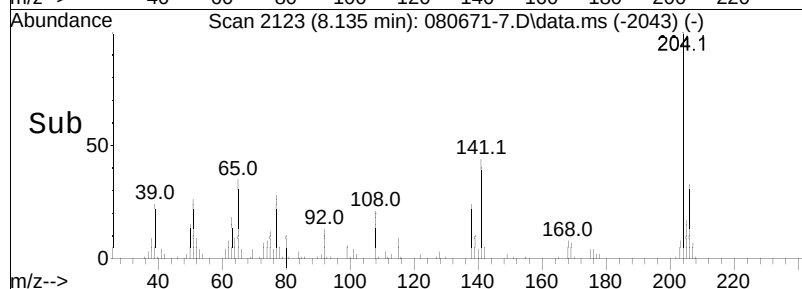
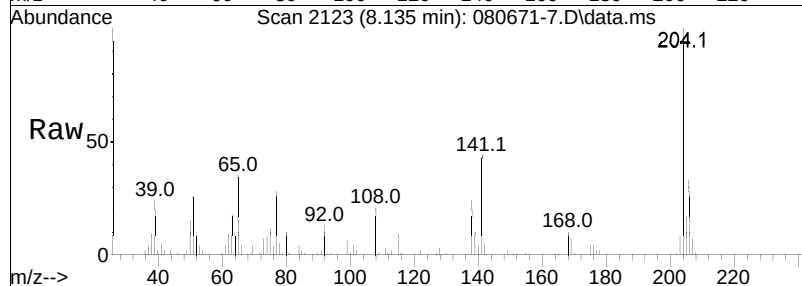
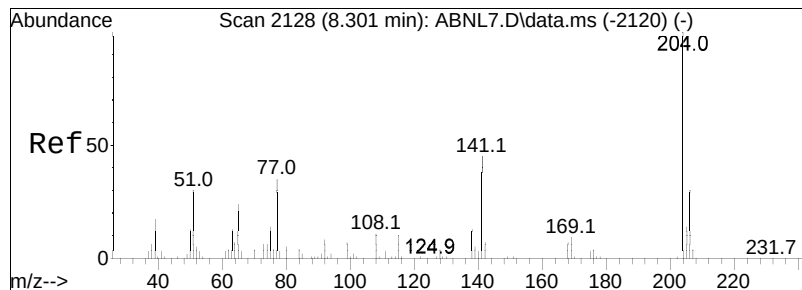




#74
 Diethyl phthalate
 Concen: 1.43 ug/ml
 RT: 8.048 min Scan# 2095
 Delta R.T. -0.003 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

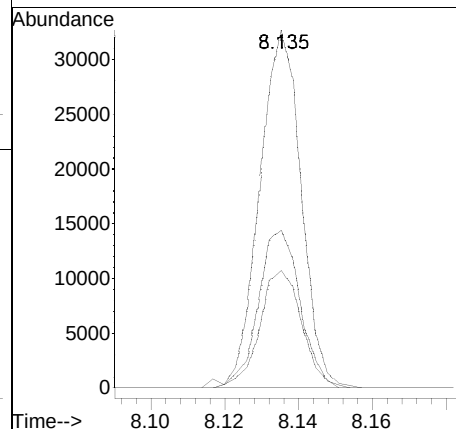
Tgt	Ion	Ratio	Lower	Upper
149	100			
177	20.6	16.1	24.1	
150	11.7	9.4	14.2	

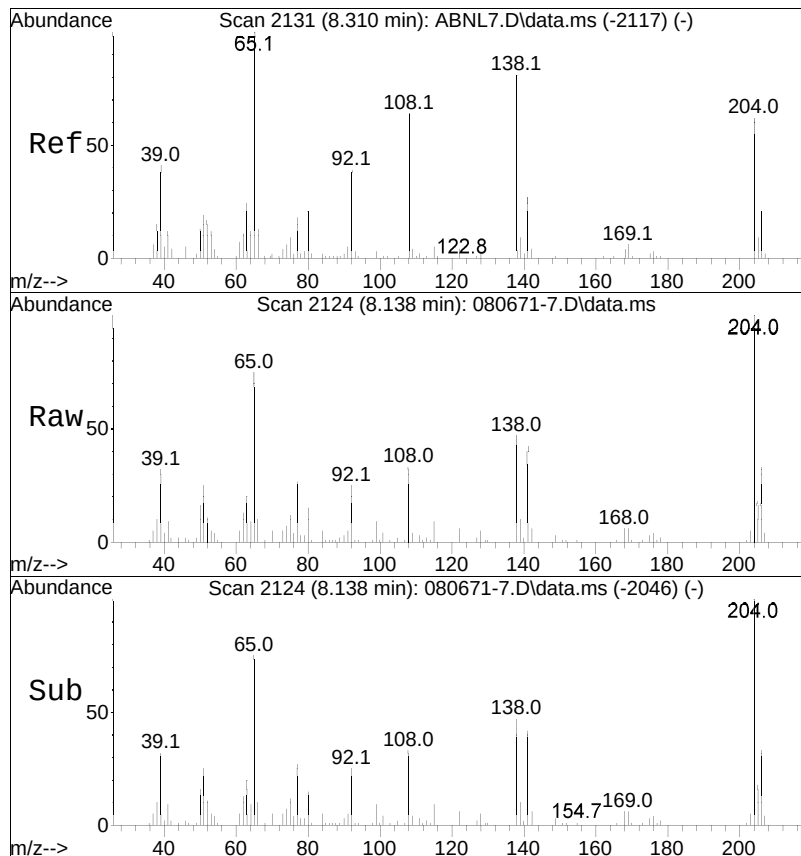




#76
 4-Chlorophenyl phenyl ether
 Concen: 1.40 ug/ml
 RT: 8.135 min Scan# 2123
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

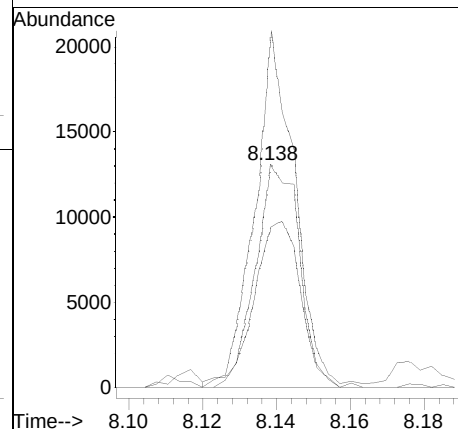
Tgt Ion	Ratio	Resp	Lower	Upper
204	100	25297		
206	33.3		25.8	38.6
141	45.1		53.6	80.4#

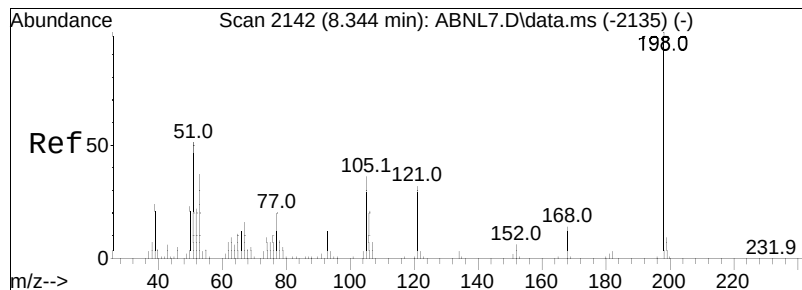




#77
 4-Nitroaniline
 Concen: 1.60 ug/ml
 RT: 8.138 min Scan# 2124
 Delta R.T. -0.006 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

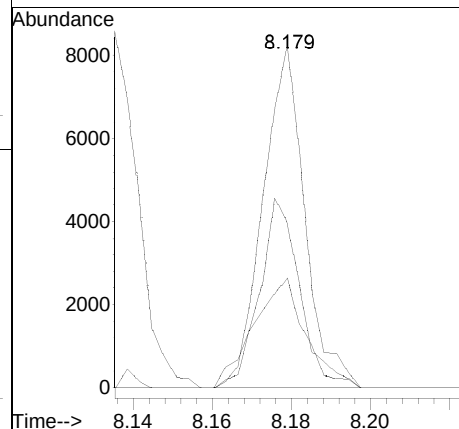
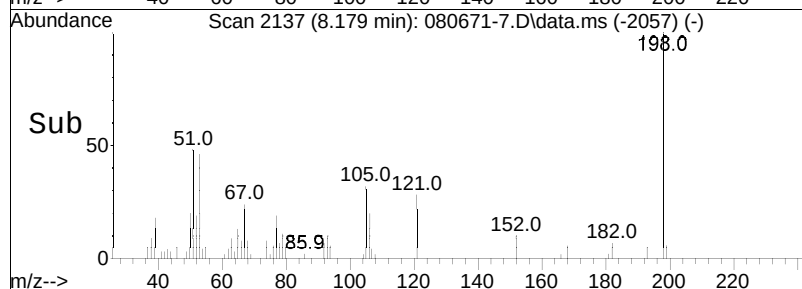
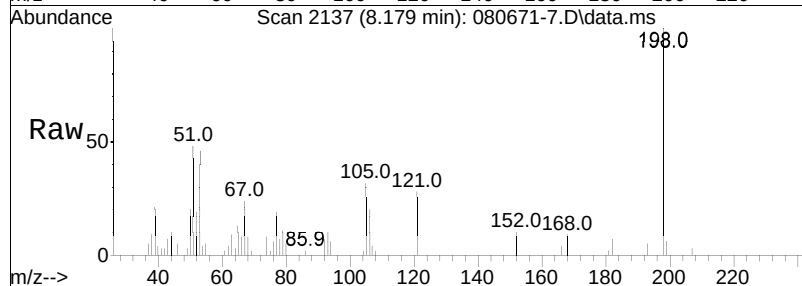
Tgt Ion:	138	Resp:	10896
Ion Ratio	Lower	Upper	
138	100		
108	76.9	52.1	78.1
65	144.0	115.0	172.6

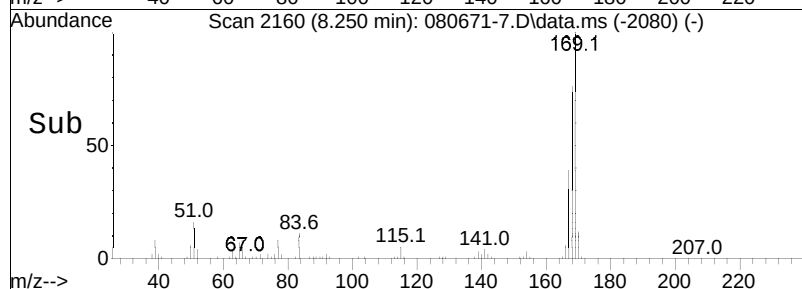
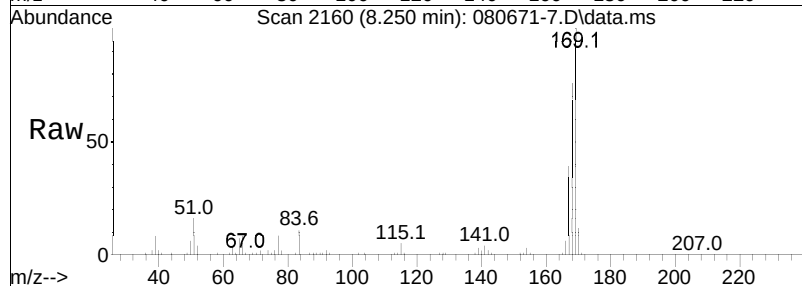
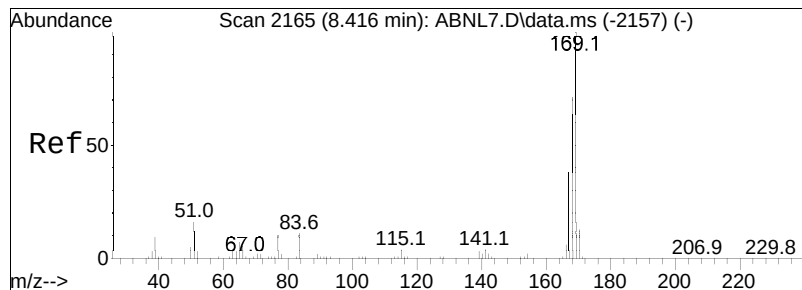




#78
 4,6-Dinitro-o-cresol
 Concen: 1.02 ug/ml
 RT: 8.179 min Scan# 2137
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

Tgt Ion	Ratio	Lower	Upper
198	100		
51	54.5	76.0	114.0#
105	39.2	45.6	68.4#





#79

NDPA/DPA

Concen: 1.53 ug/ml

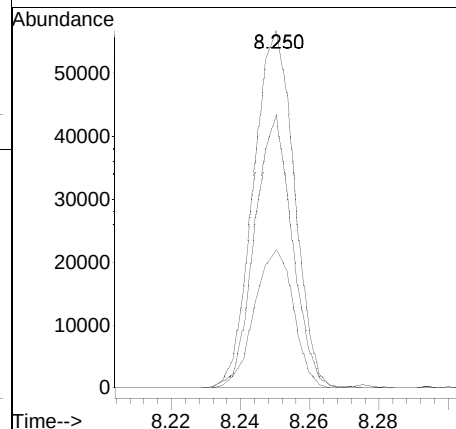
RT: 8.250 min Scan# 2160

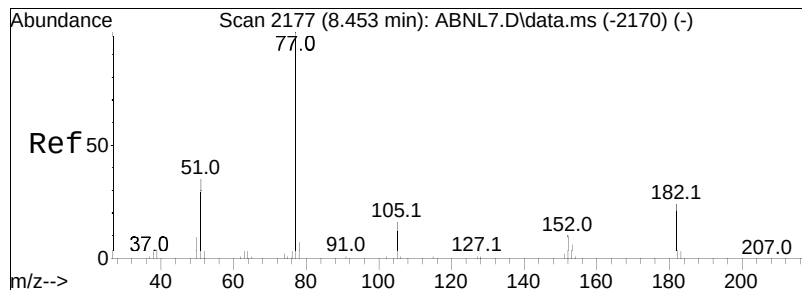
Delta R.T. -0.000 min

Lab File: 080671-7.D

Acq: 19 Jun 2025 4:04 pm

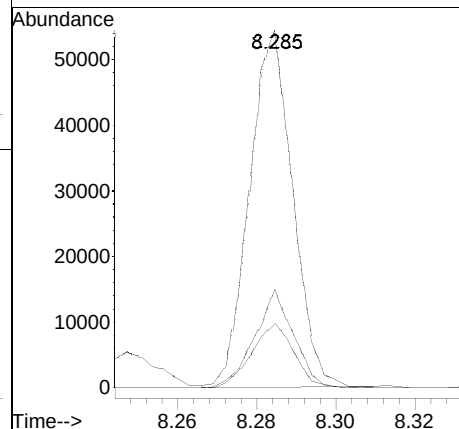
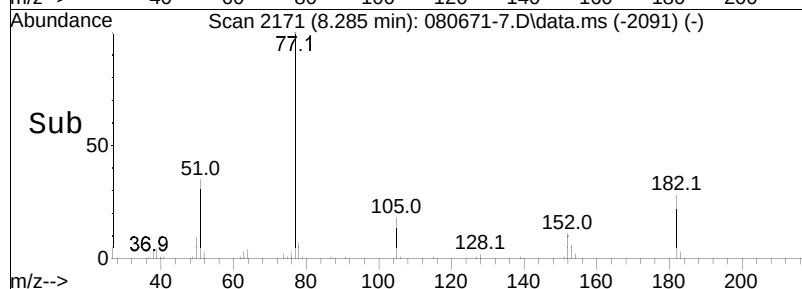
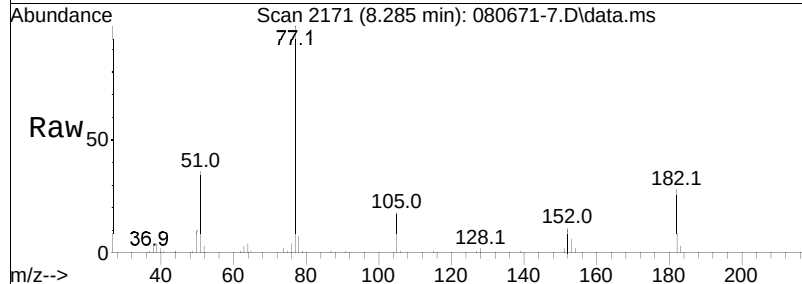
Tgt Ion:	169	Resp:	46634
Ion Ratio	Lower	Upper	
169	100		
168	70.2	54.0	81.0
167	37.0	28.6	42.8

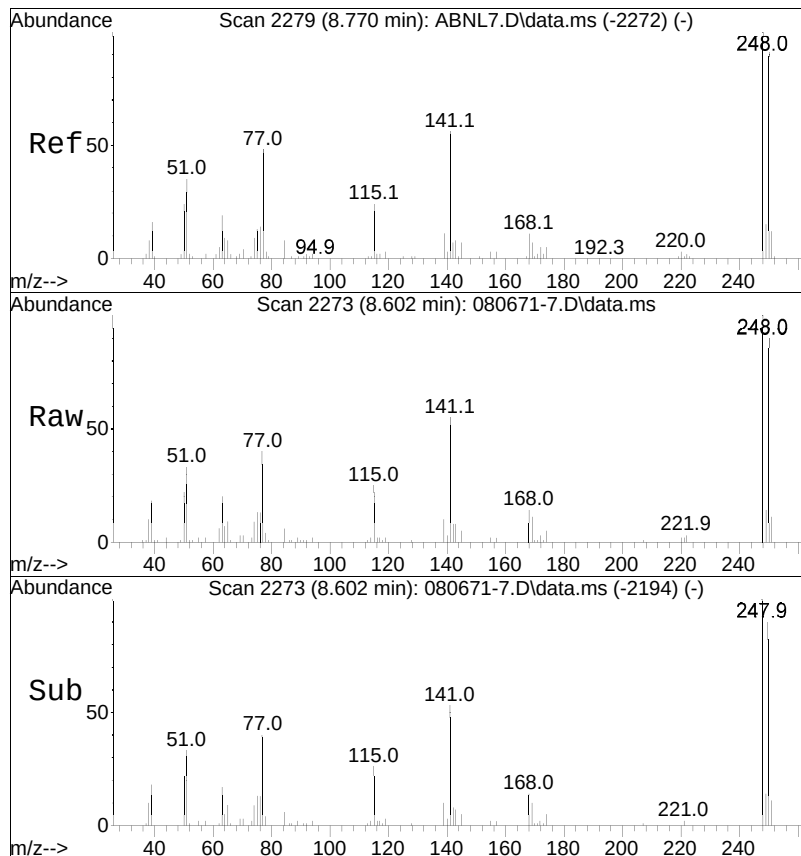




#80
 Azobenzene
 Concen: 1.31 ug/ml
 RT: 8.285 min Scan# 2171
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

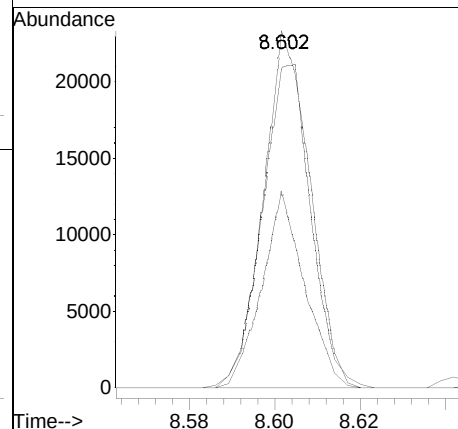
Tgt Ion:	77	Resp:	40701
Ion Ratio	Lower	Upper	
77	100		
182	24.9	17.4	26.2
105	17.9	15.4	23.2

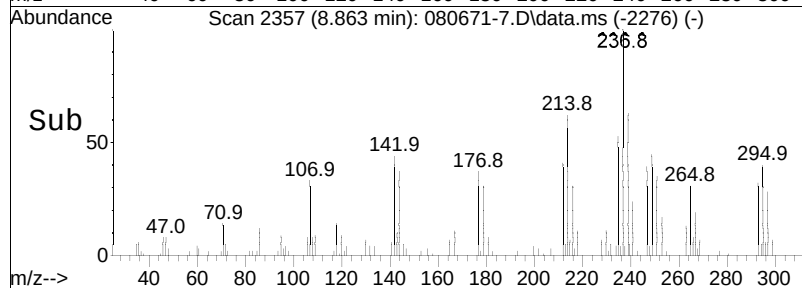
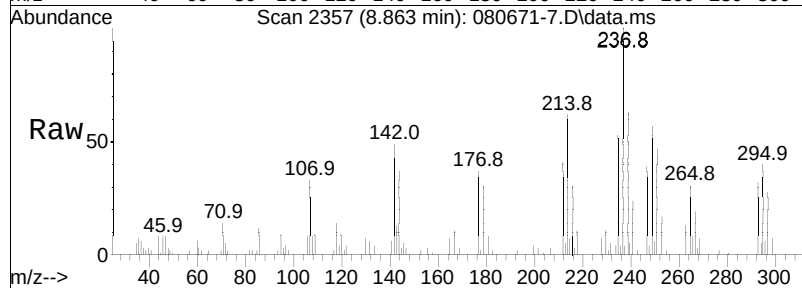
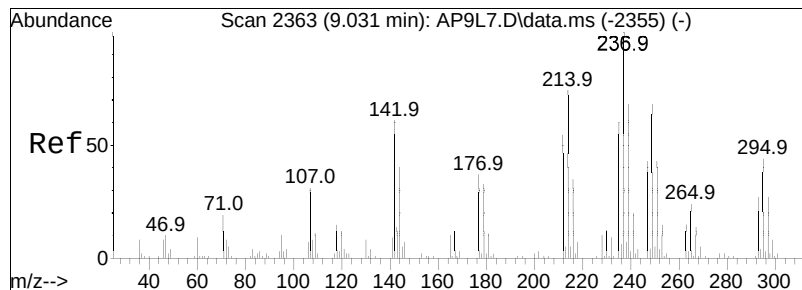




#82
 4-Bromophenyl phenyl ether
 Concen: 1.55 ug/ml
 RT: 8.602 min Scan# 2273
 Delta R.T. -0.003 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

Tgt Ion:	248	Resp:	17691
Ion Ratio	Lower	Upper	
248	100		
141	50.5	76.6	114.8#
250	94.1	77.3	115.9





#87

Pentachloronitrobenzene

Concen: 1.86 ug/ml

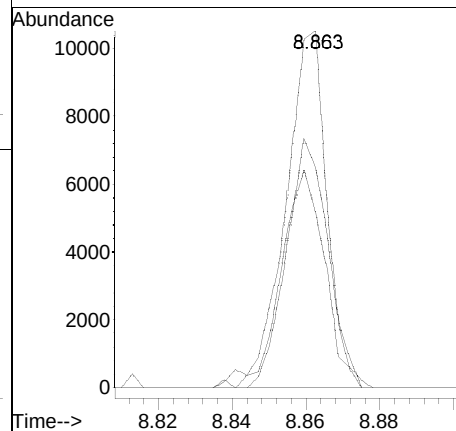
RT: 8.863 min Scan# 2357

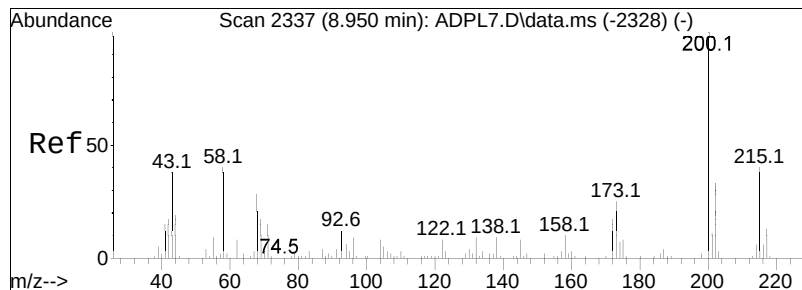
Delta R.T. 0.003 min

Lab File: 080671-7.D

Acq: 19 Jun 2025 4:04 pm

Tgt Ion	Ratio	Lower	Upper
237	100		
142	65.4	77.0	115.4#
214	69.5	58.2	87.4





#89

Atrazine

Concen: 1.73 ug/ml

RT: 8.785 min Scan# 2332

Delta R.T. -0.003 min

Lab File: 080671-7.D

Acq: 19 Jun 2025 4:04 pm

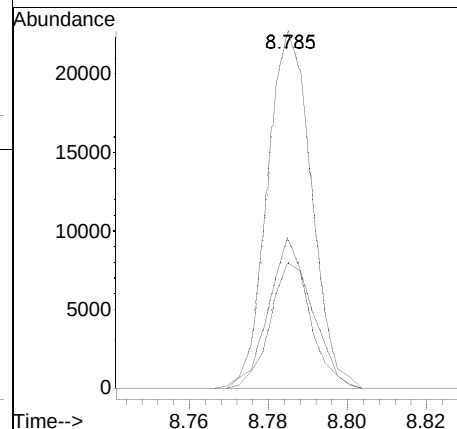
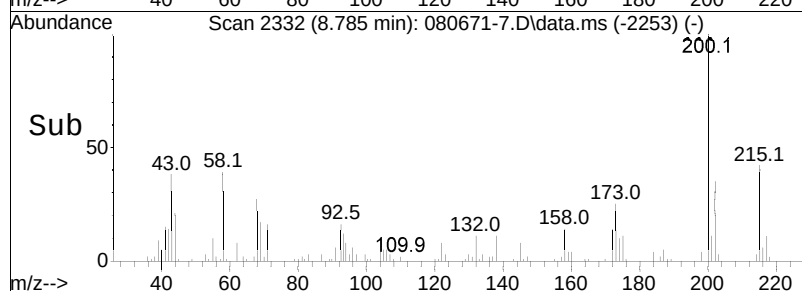
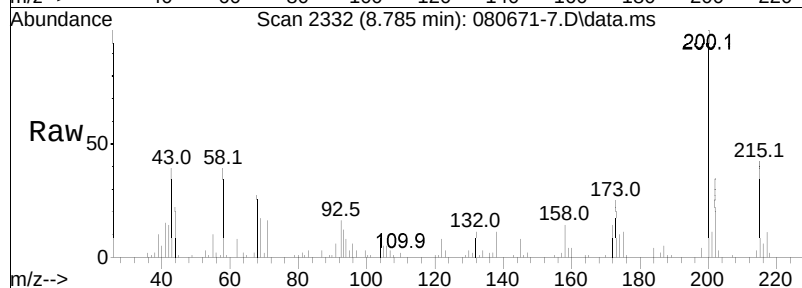
Tgt Ion: 200 Resp: 17482

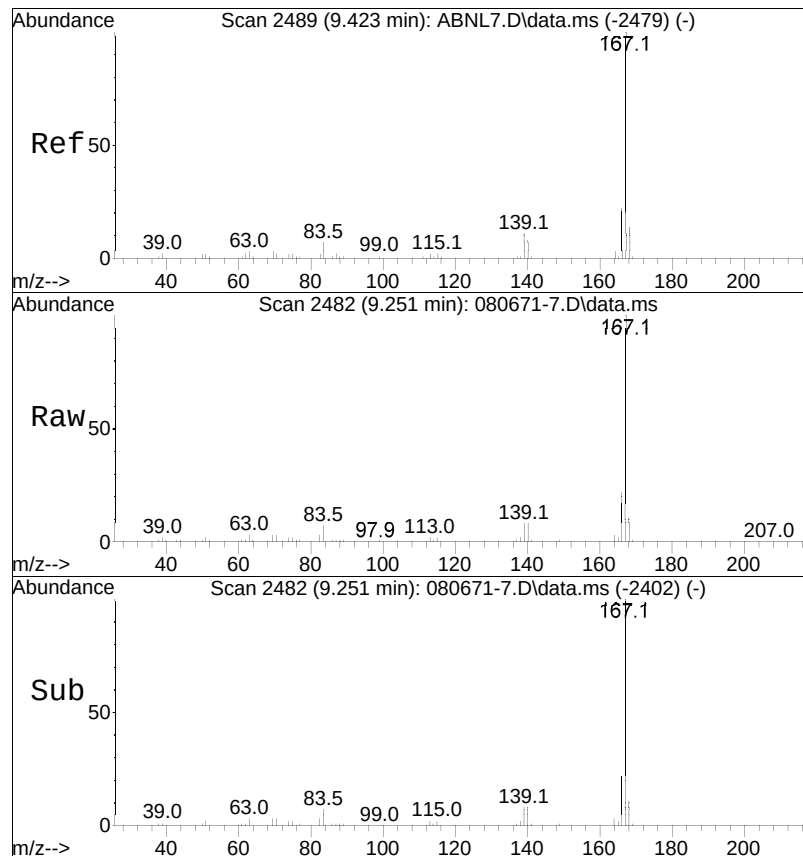
Ion Ratio Lower Upper

200 100

202 33.3 25.8 38.6

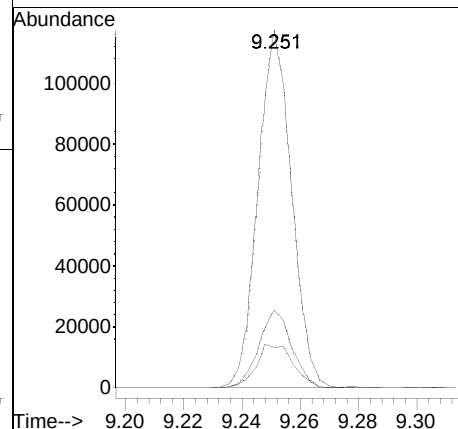
215 40.9 40.2 60.4

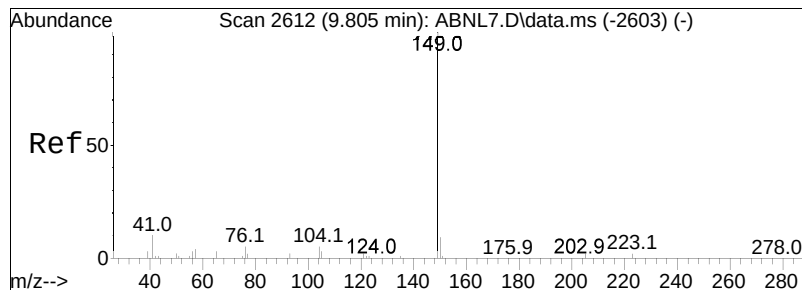




#93
 Carbazole
 Concen: 1.52 ug/ml
 RT: 9.251 min Scan# 2482
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

Tgt Ion:	167	Resp:	92826
Ion Ratio	Lower	Upper	
167	100		
168	13.5	10.6	15.8
166	21.4	17.4	26.0





#94

Di-n-butylphthalate

Concen: 1.43 ug/ml

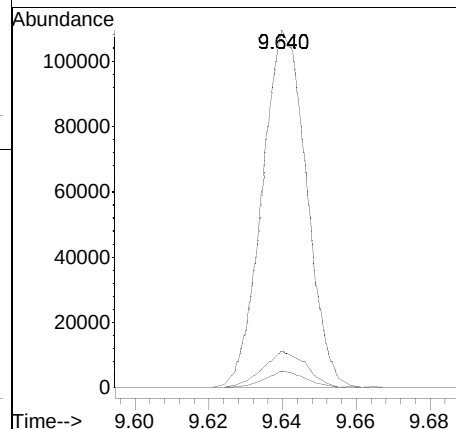
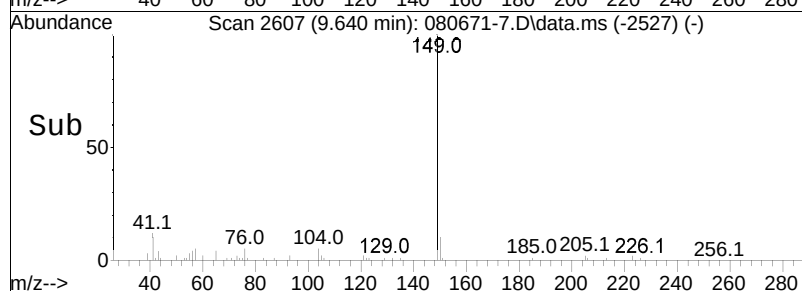
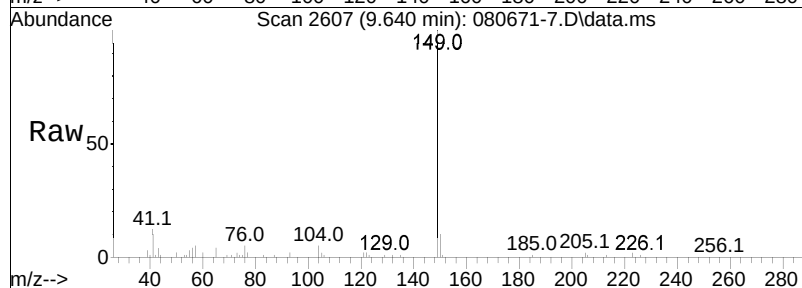
RT: 9.640 min Scan# 2607

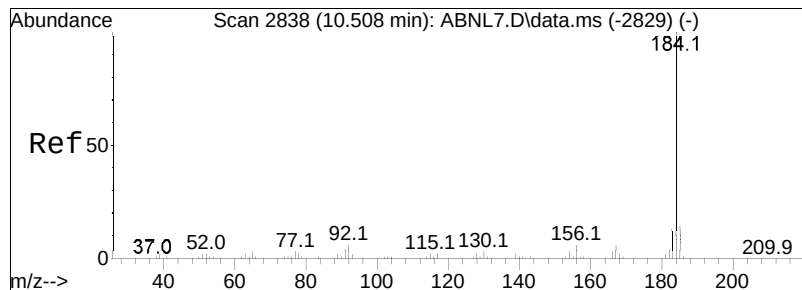
Delta R.T. -0.000 min

Lab File: 080671-7.D

Acq: 19 Jun 2025 4:04 pm

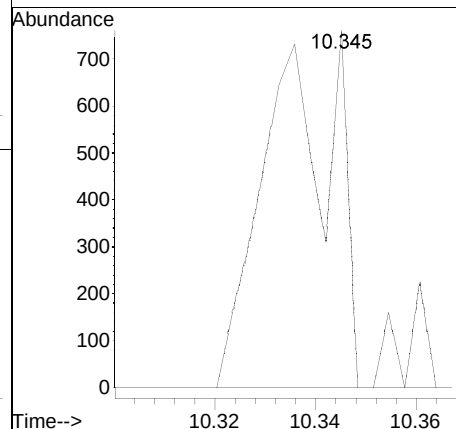
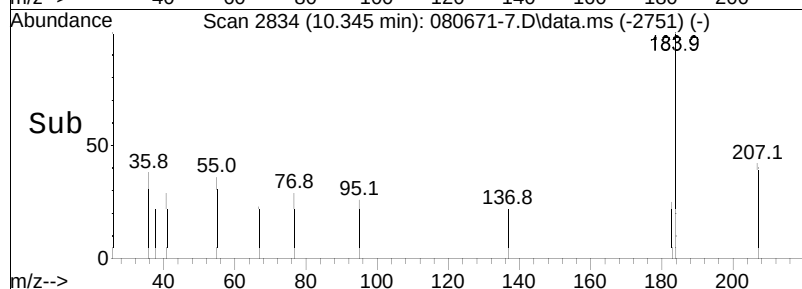
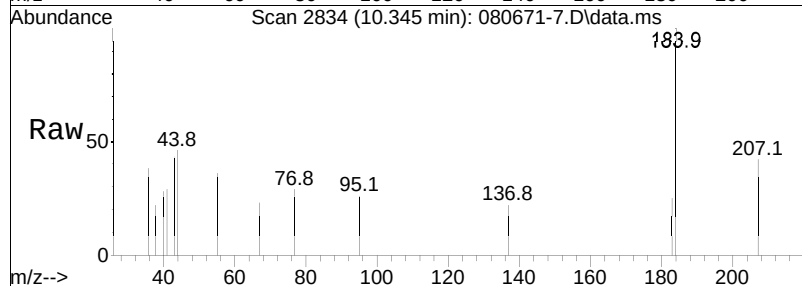
Tgt	Ion:149	Resp:	90393
Ion	Ratio	Lower	Upper
149	100		
150	10.0	7.0	10.6
104	4.1	4.5	6.7#

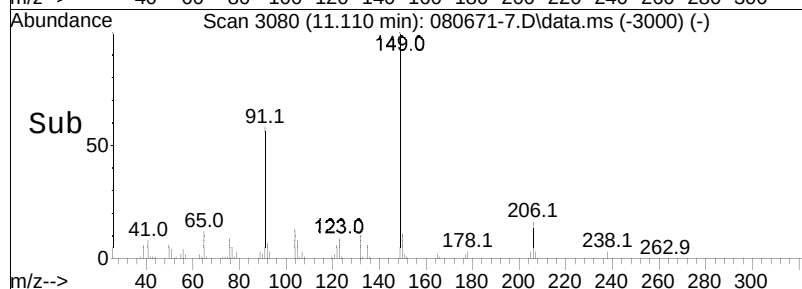
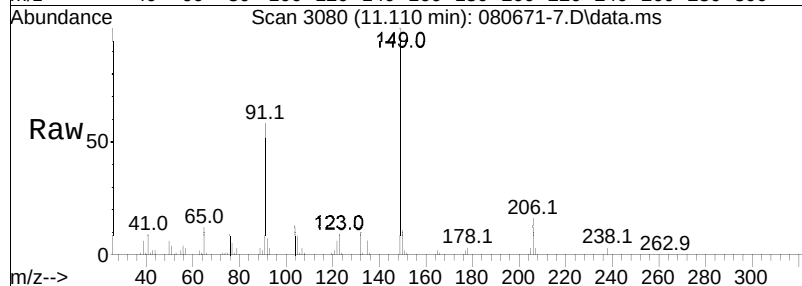
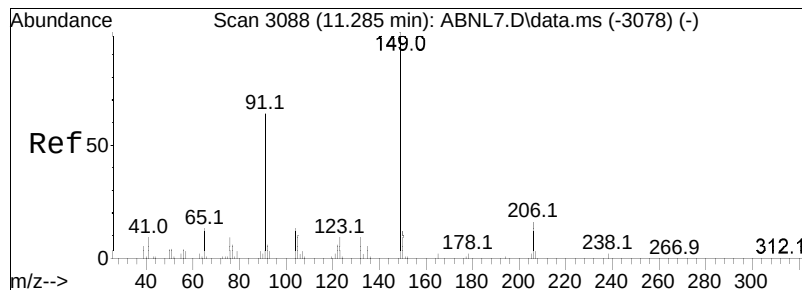




#96
Benzidine
Concen: 0.02 ug/ml
RT: 10.345 min Scan# 2834
Delta R.T. 0.009 min
Lab File: 080671-7.D
Acq: 19 Jun 2025 4:04 pm

Tgt Ion	Ratio	Lower	Upper
184	100		
92	0.0	9.1	13.7#
185	201.7	11.1	16.7#





#99

Butyl benzyl phthalate

Concen: 1.63 ug/ml

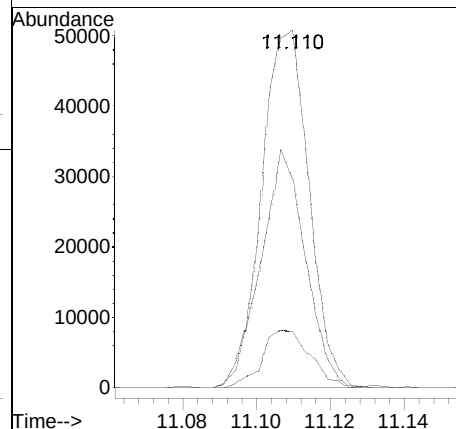
RT: 11.110 min Scan# 3080

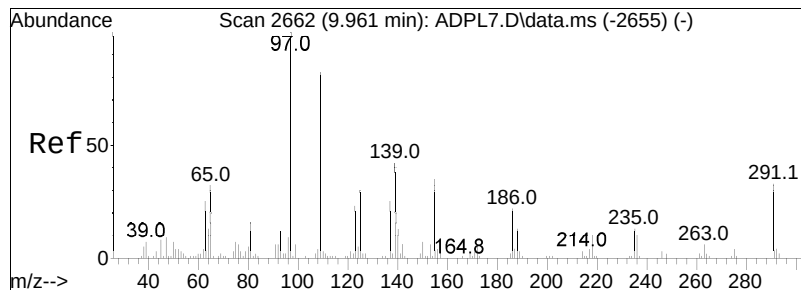
Delta R.T. -0.000 min

Lab File: 080671-7.D

Acq: 19 Jun 2025 4:04 pm

Tgt Ion:	149	Resp:	44900
Ion Ratio	Lower	Upper	
149	100		
91	63.1	63.3	94.9#
206	16.6	13.9	20.9





#104

Parathion

Concen: 1.87 ug/ml

RT: 9.795 min Scan# 2657

Delta R.T. -0.003 min

Lab File: 080671-7.D

Acq: 19 Jun 2025 4:04 pm

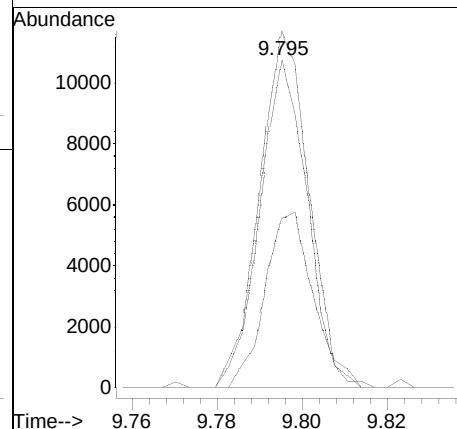
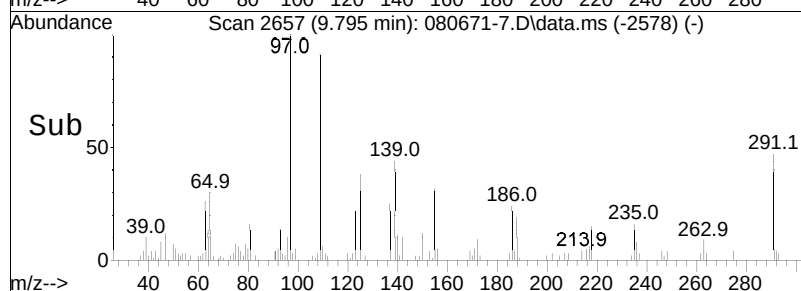
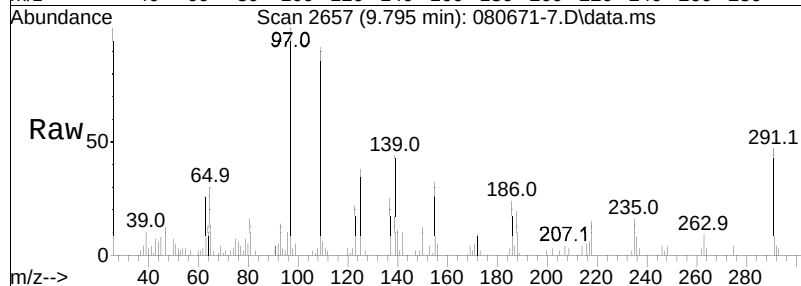
Tgt Ion:109 Resp: 8277

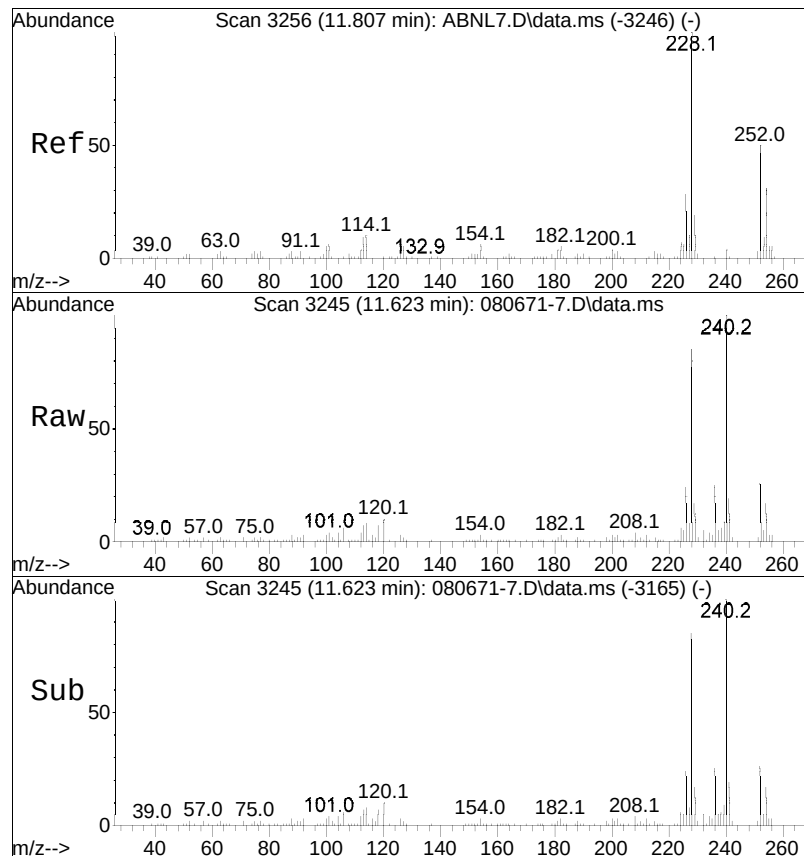
Ion Ratio Lower Upper

109 100

97 113.4 87.4 131.2

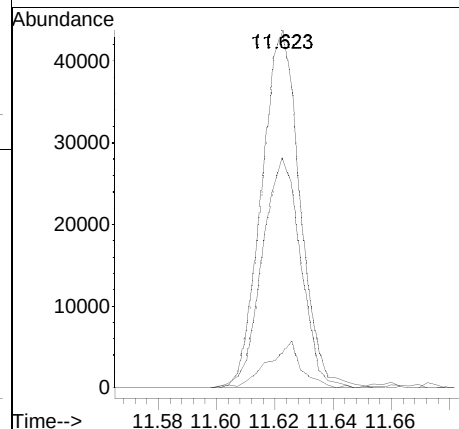
291 55.0 34.2 51.2#

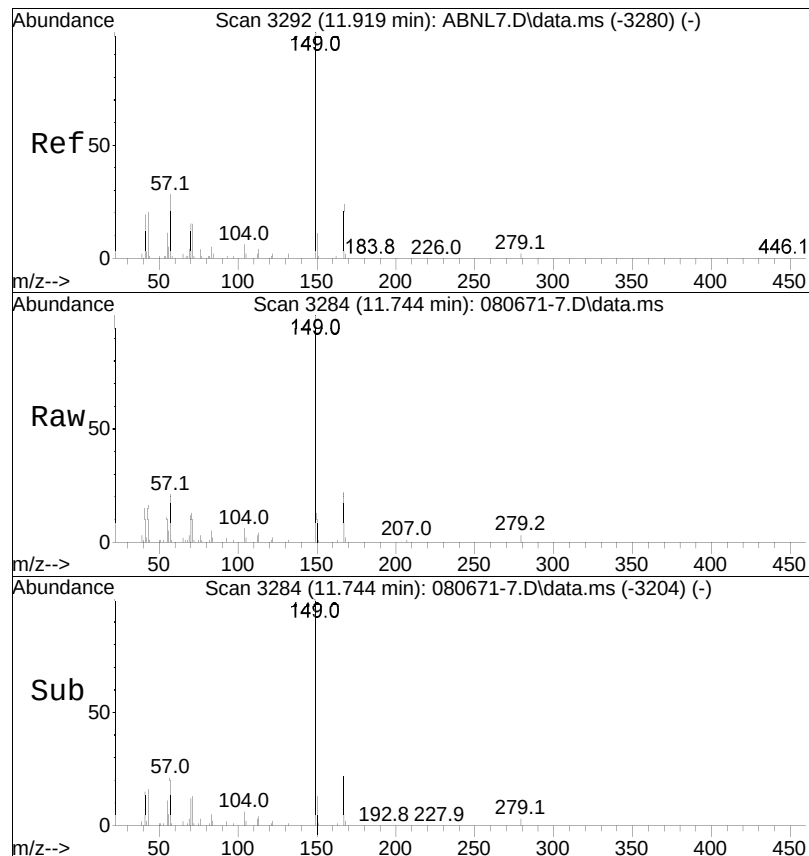




#108
 3,3'-Dichlorobenzidine
 Concen: 1.18 ug/ml
 RT: 11.623 min Scan# 3245
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

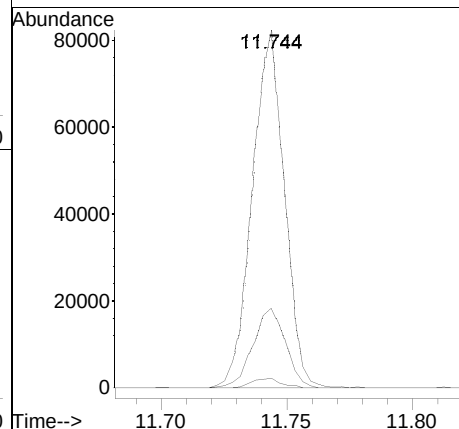
Tgt Ion:	252	Resp:	39848
Ion Ratio	Lower	Upper	
252	100		
126	11.4	14.5	21.7#
254	64.7	51.2	76.8

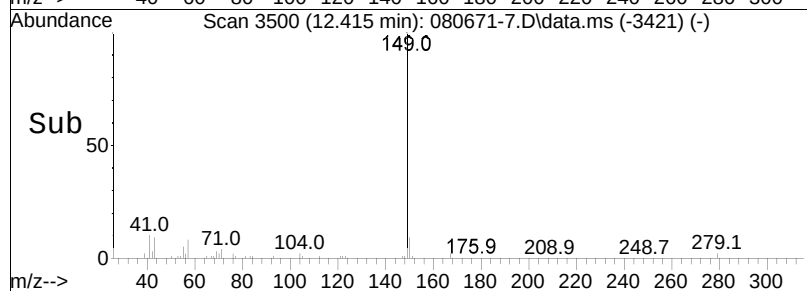
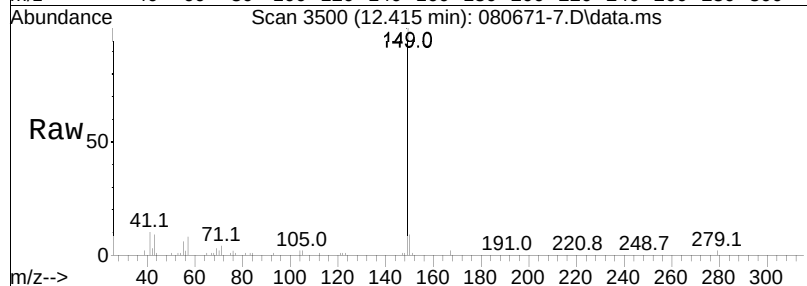
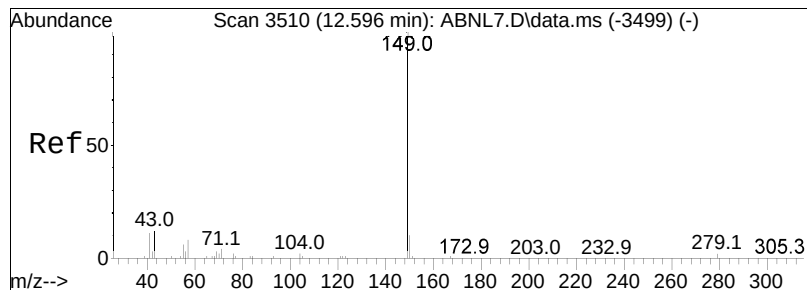




#110
 Bis(2-ethylhexyl)phthalate
 Concen: 1.50 ug/ml
 RT: 11.744 min Scan# 3284
 Delta R.T. -0.000 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

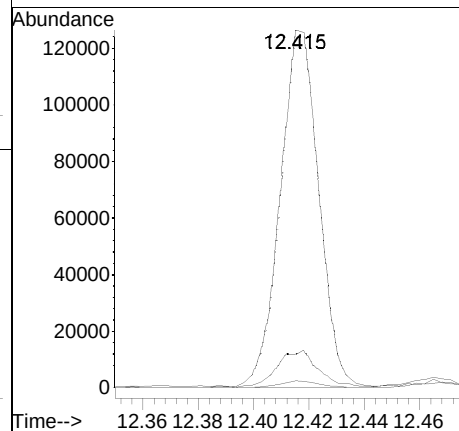
Tgt Ion:	149	Resp:	72040
Ion Ratio	Lower	Upper	
149	100		
167	22.8	22.1	33.1
279	2.5	3.0	4.4#





#111
 Di-n-octylphthalate
 Concen: 1.55 ug/ml
 RT: 12.415 min Scan# 3500
 Delta R.T. -0.003 min
 Lab File: 080671-7.D
 Acq: 19 Jun 2025 4:04 pm

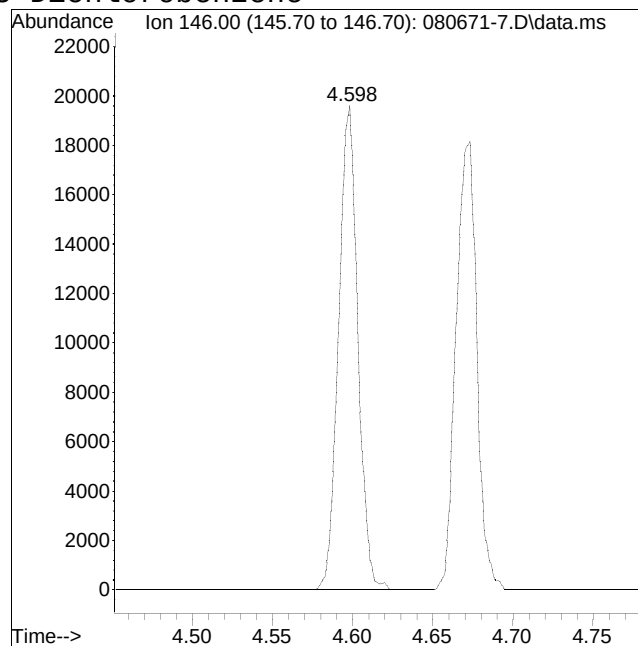
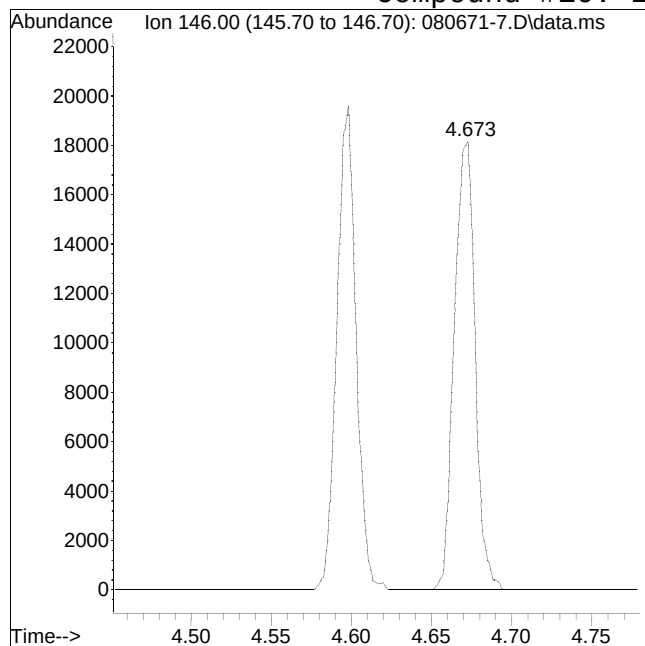
Tgt Ion:	149	Resp:	121255
Ion Ratio	Lower	Upper	
149	100		
43	11.3	18.8	28.2#
167	1.7	1.3	1.9



Manual Integration Report

Data Path : I:\8270\Dakota\250619RVTa\QMethod : FS250416RVT_Dakota.m
Data File : 080671-7.D Operator : Dakota:jg
Date Inj'd : 6/19/2025 4:04 pm Instrument : Dakota
Sample : WG2080671-7,32,,gmr Quant Date : 6/19/2025 4:23 pm

Compound #10: 1,3-Dichlorobenzene



Original Peak Response = 16411

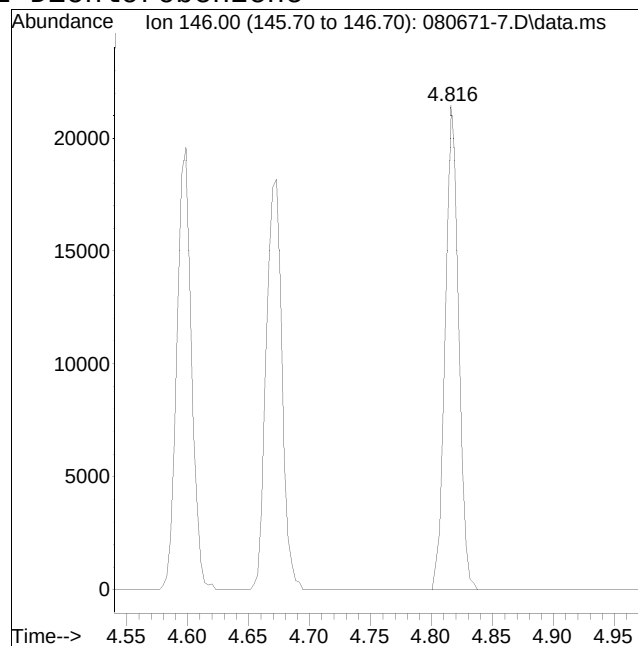
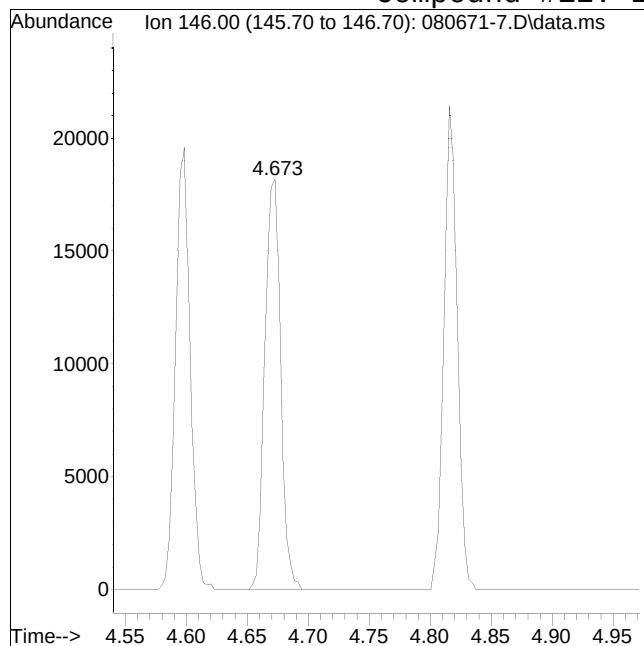
Manual Peak Response = 16342 M3

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\Dakota\250619RVTa\QMethod : FS250416RVT_Dakota.m
Data File : 080671-7.D Operator : Dakota:jg
Date Inj'd : 6/19/2025 4:04 pm Instrument : Dakota
Sample : WG2080671-7,32,,gmr Quant Date : 6/19/2025 4:23 pm

Compound #12: 1,2-Dichlorobenzene



Original Peak Response = 16411

Manual Peak Response = 16389 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\250619RVT\
 Data File : 080671-5.D
 Acq On : 19 Jun 2025 5:25 pm
 Operator : SV106:jg
 Sample : WG2080671-5,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 21 10:19:00 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:08:26 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.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...	6.557	152	68448	4.000	ug/ml	0.00
Standard Area 1 = 62704			Recovery =	109.16%		
27) IS2_1,4-Dichlorobenzen...	6.557	152	68448	4.000	ug/ml	0.00
Standard Area 3 = 60457			Recovery =	113.22%		
35) IS1_Naphthalene-d8	7.969	136	242714	4.000	ug/ml	# 0.00
Standard Area 1 = 233073			Recovery =	104.14%		
55) IS2_Naphthalene-d8	7.969	136	242714	4.000	ug/ml	# 0.00
Standard Area 3 = 221512			Recovery =	109.57%		
63) IS1_Acenaphthene-d10	9.739	164	157190	4.000	ug/ml	0.00
Standard Area 1 = 146915			Recovery =	106.99%		
83) IS2_Acenaphthene-d10	9.739	164	157190	4.000	ug/ml	0.00
Standard Area 3 = 141624			Recovery =	110.99%		
86) IS3_Acenaphthene-d10	9.739	164	157190	4.000	ug/ml	0.00
Standard Area 2 = 115193			Recovery =	136.46%		
88) IS1_Phenanthrene-d10	11.186	188	326348	4.000	ug/ml	# 0.00
Standard Area 1 = 296755			Recovery =	109.97%		
100) IS3_Phenanthrene-d10	11.186	188	326348	4.000	ug/ml	# 0.00
Standard Area 2 = 248688			Recovery =	131.23%		
104) IS1_Chrysene-d12	13.851	240	320329	4.000	ug/ml	0.00
Standard Area 1 = 309276			Recovery =	103.57%		
113) IS1_Perylene-d12	15.339	264	331843	4.000	ug/ml	0.01
Standard Area 1 = 304124			Recovery =	109.11%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.699	112	19986	1.035	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	51.75%		
7) Phenol-d6	6.181	99	13530	0.598	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	29.90%		
19) Nitrobenzene-d5	7.204	82	13606	0.726	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	72.60%		
46) 2-Fluorobiphenyl	9.092	172	39518	0.705	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	70.50%		
79) 2,4,6-Tribromophenol	10.510	330	11947	1.478	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	73.90%		
96) 4-Terphenyl-d14	12.780	244	58127	0.687	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	68.70%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : 080671-5.D
 Acq On : 19 Jun 2025 5:25 pm
 Operator : SV106:jg
 Sample : WG2080671-5,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 21 10:19:00 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:08:26 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.228	74	9205	0.749	ug/ml	99
3) Pyridine	2.334	79	2415	0.113	ug/ml#	73
5) Aniline	6.151	93	1796	0.060	ug/ml#	79
6) 2-Chlorophenol	6.293	128	24086	1.156	ug/ml	96
8) Phenol	6.198	94	15338	0.614	ug/ml	96
9) Bis(2-chloroethyl)ether	6.275	93	23302	1.174	ug/ml#	67
10) 1,3-Dichlorobenzene	6.481	146	29340	1.113	ug/ml	98
11) 1,4-Dichlorobenzene	6.575	146	28872	1.072	ug/ml	97
12) 1,2-Dichlorobenzene	6.751	146	28607	1.122	ug/ml	97
13) Benzyl alcohol	6.757	79	14809	0.951	ug/ml	92
14) Bis(2-chloroisopropyl)...	6.940	45	51458	1.112	ug/ml#	77
15) 2-Methylphenol	6.928	108	17559	0.800	ug/ml	91
17) n-Nitrosodi-n-propylamine	7.081	70	18774	1.284	ug/ml	97
18) 3-Methylphenol/4-Methy...	7.110	108	19858	1.045	ug/ml	98
20) Nitrobenzene	7.228	77	28788	1.504	ug/ml	99
21) Isophorone	7.504	82	48041	1.223	ug/ml	97
22) 2-Nitrophenol	7.581	139	12766	1.466	ug/ml	95
23) 2,4-Dimethylphenol	7.681	107	16829	0.821	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.769	93	32387	1.155	ug/ml#	97
25) 2,4-Dichlorophenol	7.845	162	25118	1.291	ug/ml#	94
26) 1,2,4-Trichlorobenzene	7.928	180	26754	1.073	ug/ml	95
28) Benzaldehyde	5.987	105	21380	1.310	ug/ml	92
29) Acetophenone	7.045	105	39431	1.400	ug/ml#	94
37) Benzoic Acid	7.739	105	8732	1.264	ug/ml#	83
38) 4-Chloroaniline	8.075	65	4657M3	0.583	ug/ml	
40) p-Chloro-m-cresol	8.598	107	21757	1.103	ug/ml	93
43) Hexachlorocyclopentadiene	8.886	237	19302	1.061	ug/ml	98
44) 2,4,6-Trichlorophenol	9.010	196	21444	1.407	ug/ml	99
45) 2,4,5-Trichlorophenol	9.039	196	24428	1.580	ug/ml	98
48) 2-Nitroaniline	9.304	138	14138	1.402	ug/ml	96
51) Dimethyl phthalate	9.504	163	76305	1.384	ug/ml#	99
53) 2,6-Dinitrotoluene	9.551	165	14566	1.592	ug/ml#	81
60) Caprolactam	8.398	55	5465	0.547	ug/ml	90
61) 1,2,4,5-Tetrachloroben...	8.886	216	32544	1.336	ug/ml#	97
62) Biphenyl	9.186	154	76130	1.417	ug/ml	100
64) 3-Nitroaniline	9.704	138	10598	1.069	ug/ml	92
66) 2,4-Dinitrophenol	9.810	184	7352	1.540	ug/ml#	83

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
 Data File : 080671-5.D
 Acq On : 19 Jun 2025 5:25 pm
 Operator : SV106:jg
 Sample : WG2080671-5,32,,gmr
 Misc : WG2080865,WG2080671,ical22075
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 21 10:19:00 2025
 Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 11:08:26 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250619RVT\ABN0619.D
 : 2 - I:\8270\SV106\250619RVT\ADP0619.D
 : 3 - I:\8270\SV106\250619RVT\AP90619.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67)	Dibenzofuran	9.939	168	96086	1.278	ug/ml	94
68)	2,4-Dinitrotoluene	9.939	165	20610	1.599	ug/ml	89
69)	4-Nitrophenol	9.892	65	8847	1.170	ug/ml	94
71)	2,3,4,6-Tetrachlorophenol	10.075	232	21822	1.614	ug/ml	99
72)	Diethyl phthalate	10.204	149	76717	1.437	ug/ml	98
74)	4-Chlorophenyl phenyl ...	10.292	204	38859	1.341	ug/ml#	87
75)	4-Nitroaniline	10.298	138	11063	1.147	ug/ml	93
76)	4,6-Dinitro-o-cresol	10.339	198	11028	1.650	ug/ml#	68
77)	NDPA/DPA	10.410	169	62965	1.363	ug/ml	96
78)	Azobenzene	10.445	77	63435	1.440	ug/ml#	90
80)	4-Bromophenyl phenyl e...	10.769	248	24405	1.341	ug/ml#	84
85)	Pentachloronitrobenzene	11.033	237	11175	1.976	ug/ml#	84
87)	Atrazine	10.951	200	23414	1.630	ug/ml	95
91)	Carbazole	11.427	167	130584	1.619	ug/ml	99
92)	Di-n-butylphthalate	11.816	149	149299	1.639	ug/ml	99
94)	Benzidine	0.000		0	N.D.		
97)	Butyl benzyl phthalate	13.310	149	51680	1.529	ug/ml	86
102)	Parathion	11.975	109	12606	2.934	ug/ml	94
106)	3,3'-Dichlorobenzidine	13.839	252	27448	0.799	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	13.957	149	75545	1.429	ug/ml#	95
109)	Di-n-octylphthalate	14.645	149	113378	1.485	ug/ml#	80

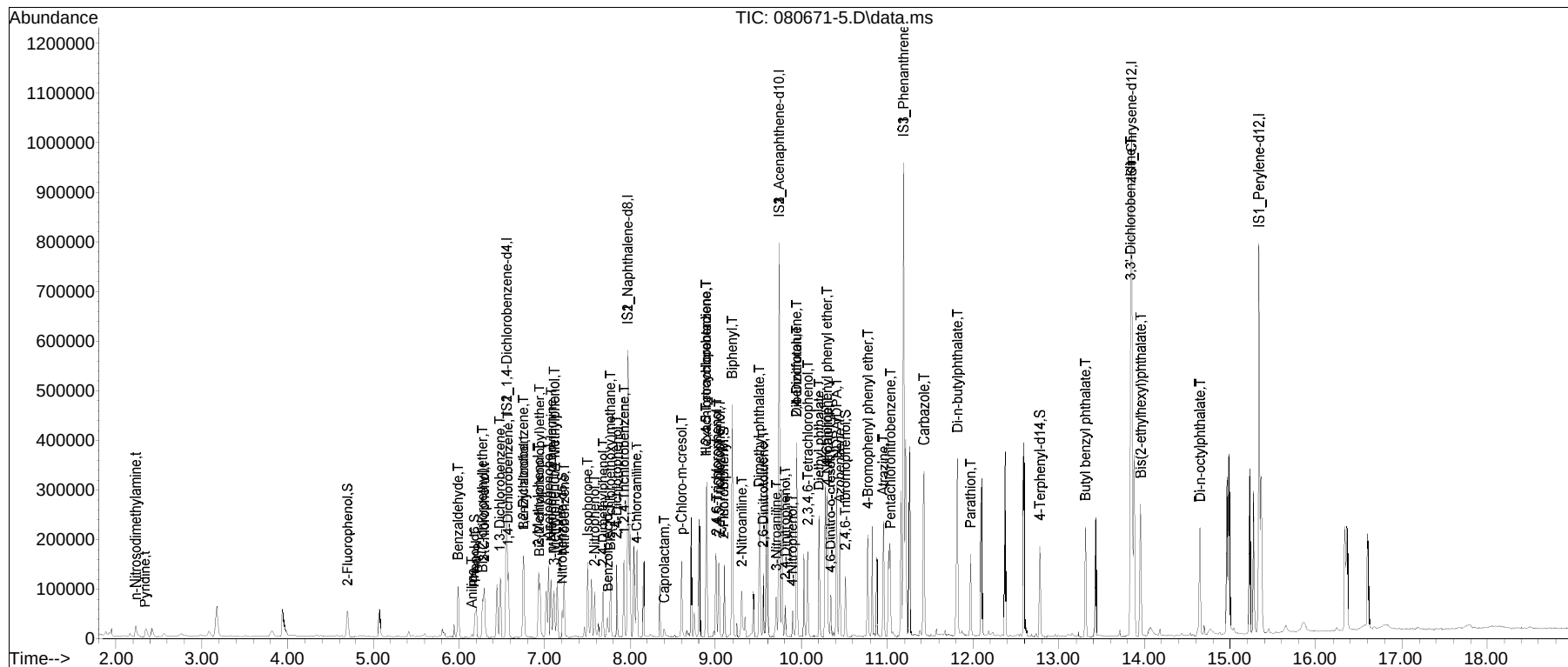
(#) = qualifier out of range (m) = manual integration (+) = signals summed

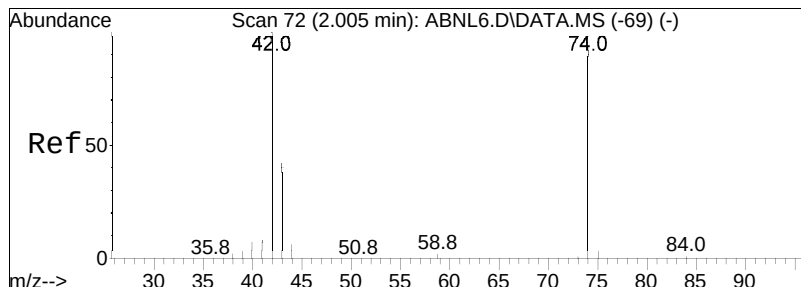
(QT Reviewed)

Data Path : I:\8270\SV106\250619RVT\
Data File : 080671-5.D
Acq On : 19 Jun 2025 5:25 pm
Operator : SV106:jg
Sample : WG2080671-5,32,,gmr
Misc : WG2080865,WG2080671,ical22075
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 21 10:19:00 2025
Quant Method : I:\8270\SV106\250619RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 19 11:08:26 2025
Response via : Initial Calibration

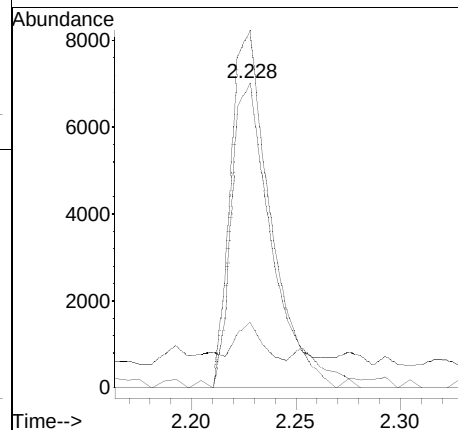
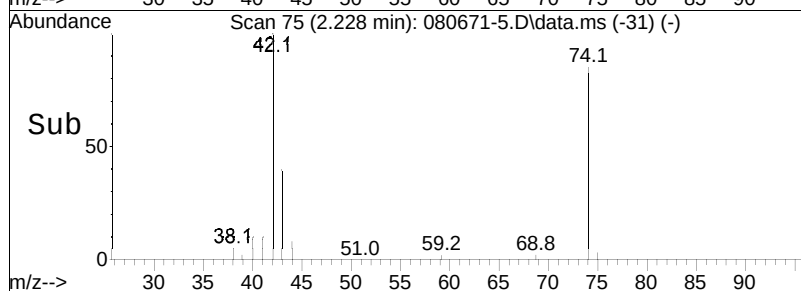
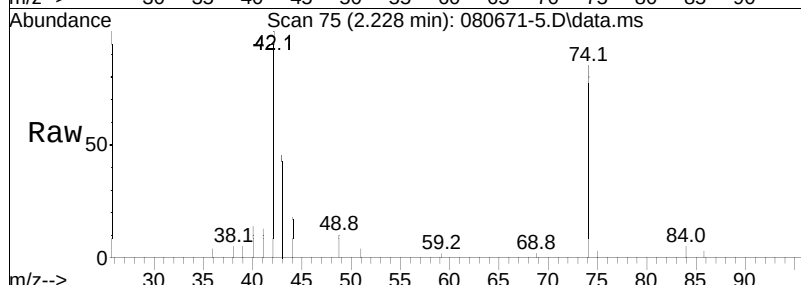
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90619.D•

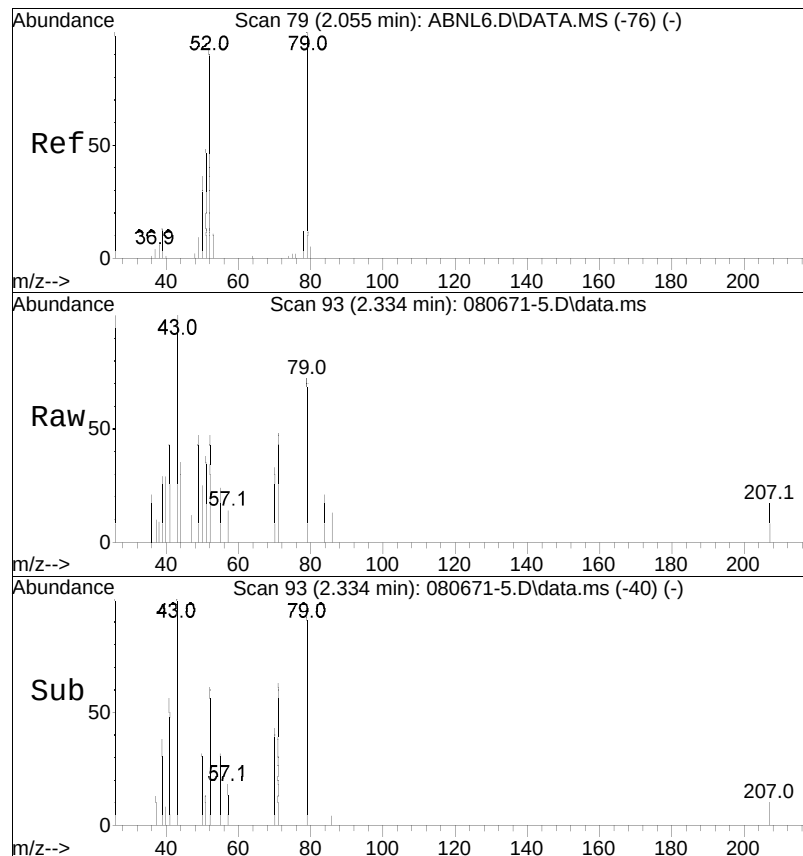




#2
 n-Nitrosodimethylamine
 Concen: 0.75 ug/ml
 RT: 2.228 min Scan# 75
 Delta R.T. 0.006 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

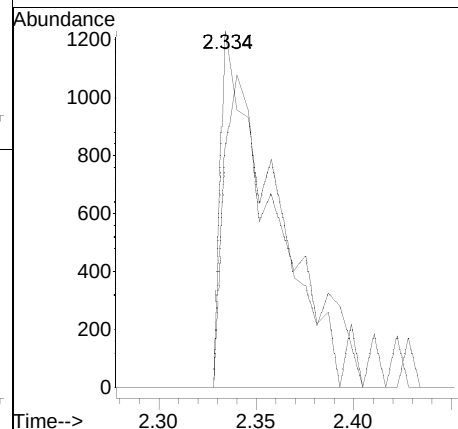
Tgt Ion:	74	Resp:	9205
Ion Ratio	Lower	Upper	
74	100		
42	123.5	100.0	150.0
44	8.6	6.7	10.1

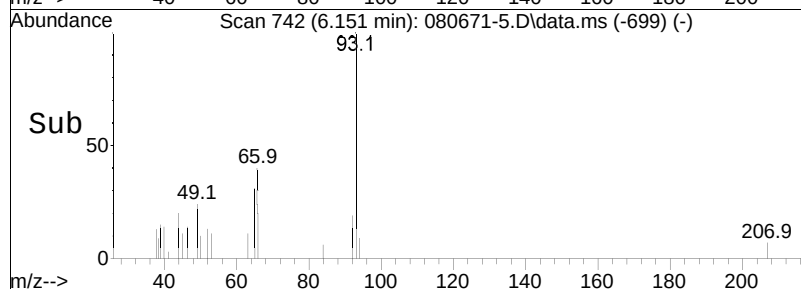
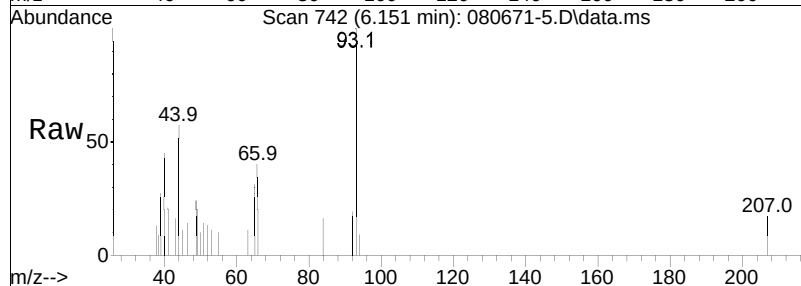
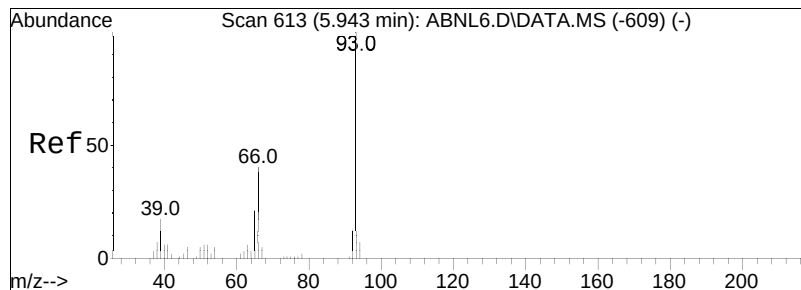




#3
 Pyridine
 Concen: 0.11 ug/ml
 RT: 2.334 min Scan# 93
 Delta R.T. 0.059 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

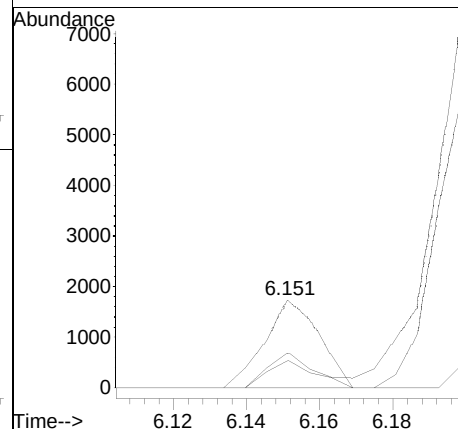
Tgt Ion: 79 Resp: 2415
 Ion Ratio Lower Upper
 79 100
 52 87.2 93.1 139.7#

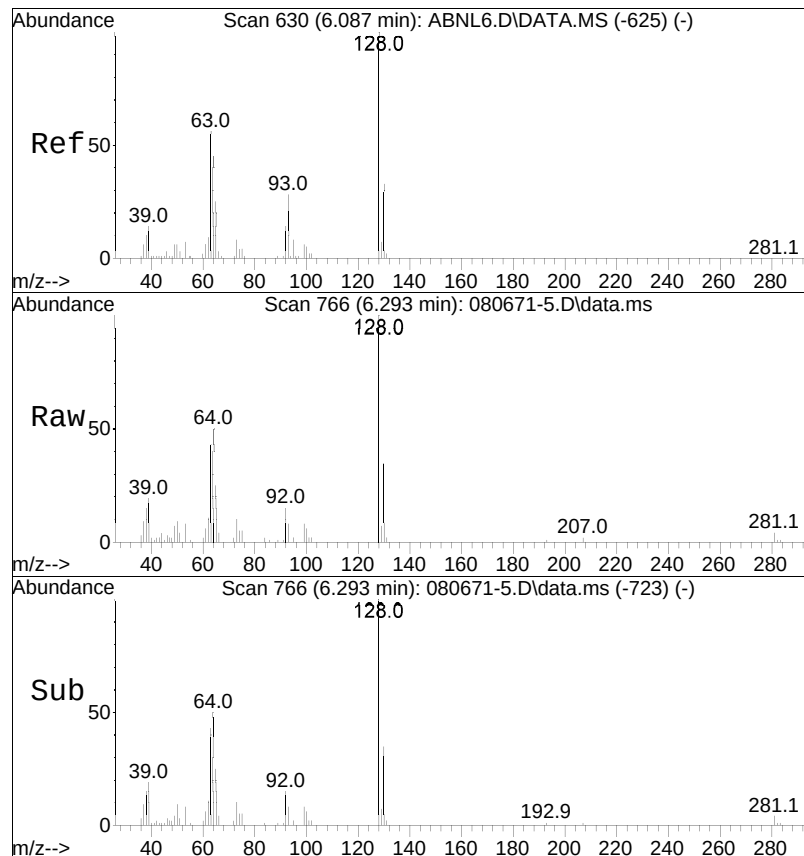




#5
 Aniline
 Concen: 0.06 ug/ml
 RT: 6.151 min Scan# 742
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

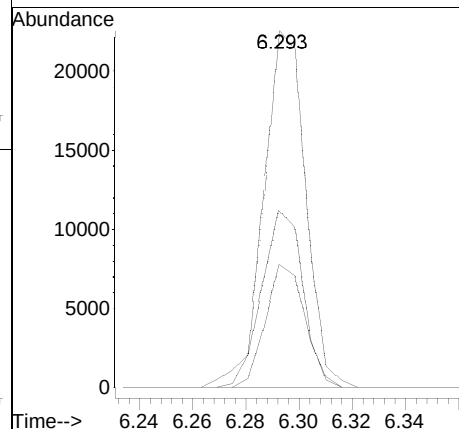
Tgt Ion	Ratio	Lower	Upper
93	100		
66	36.6	32.6	49.0
65	0.0	17.6	26.4

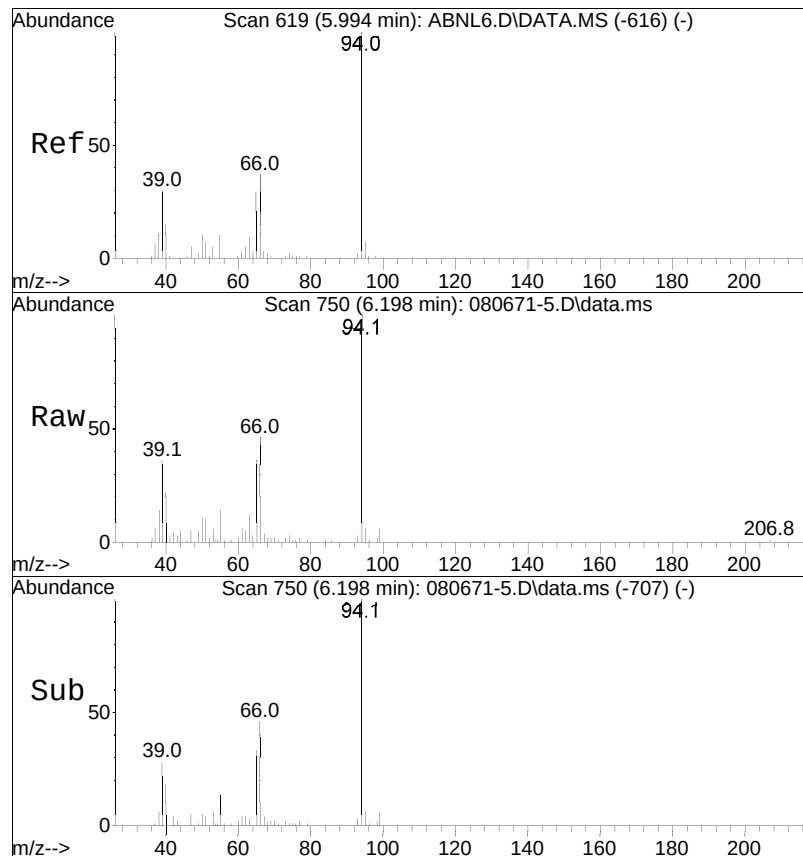




#6
 2-Chlorophenol
 Concen: 1.16 ug/ml
 RT: 6.293 min Scan# 766
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

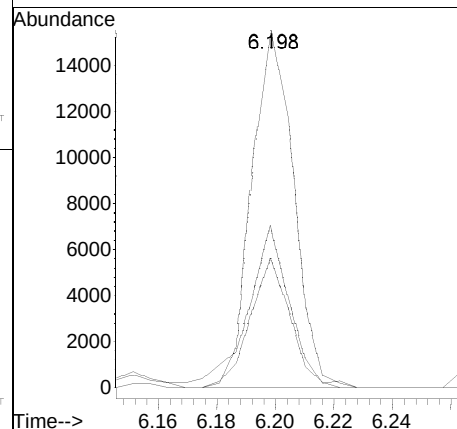
Tgt	Ion:128	Resp:	24086
Ion	Ratio	Lower	Upper
128	100		
64	51.7	45.1	67.7
130	33.4	26.2	39.4

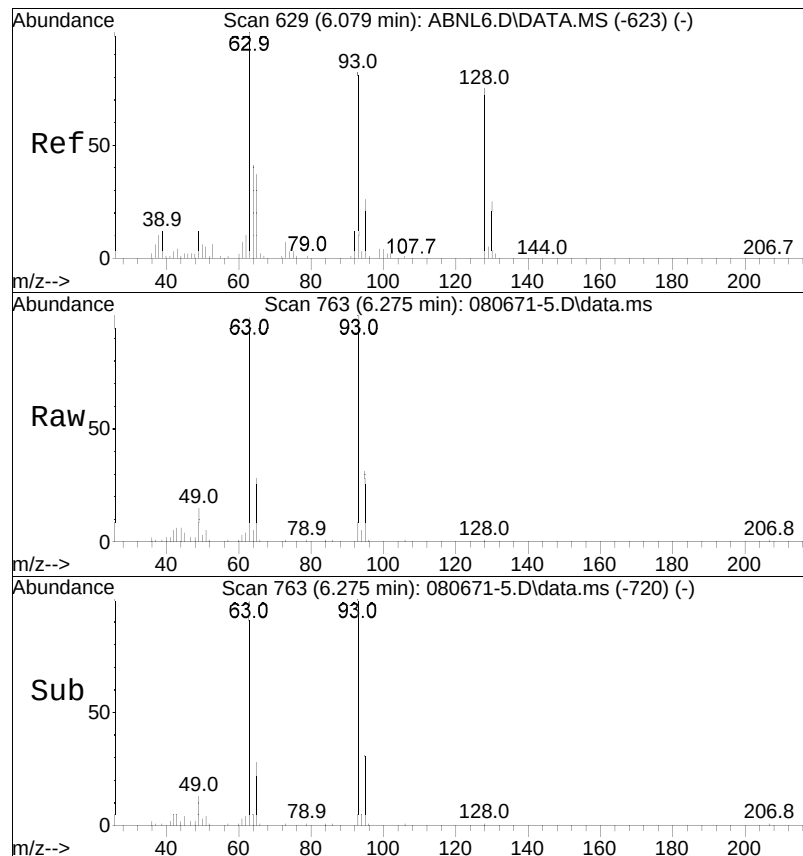




#8
 Phenol
 Concen: 0.61 ug/ml
 RT: 6.198 min Scan# 750
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

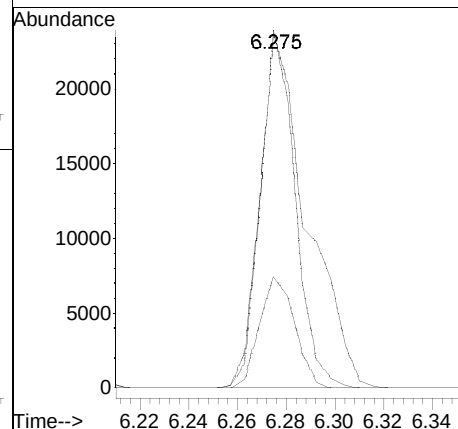
Tgt Ion:	94	Resp:	15338
Ion Ratio	Lower	Upper	
94	100		
65	34.7	26.0	39.0
66	45.4	33.8	50.8

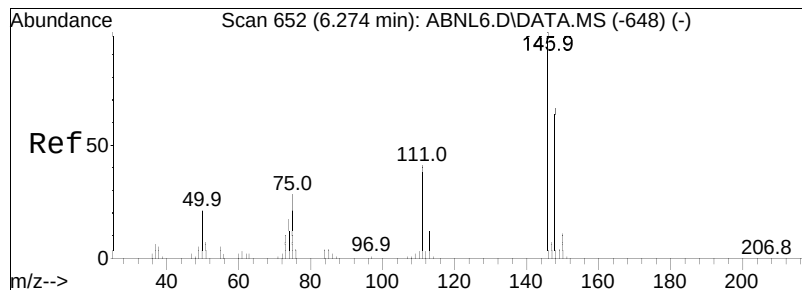




#9
 Bis(2-chloroethyl)ether
 Concen: 1.17 ug/ml
 RT: 6.275 min Scan# 763
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

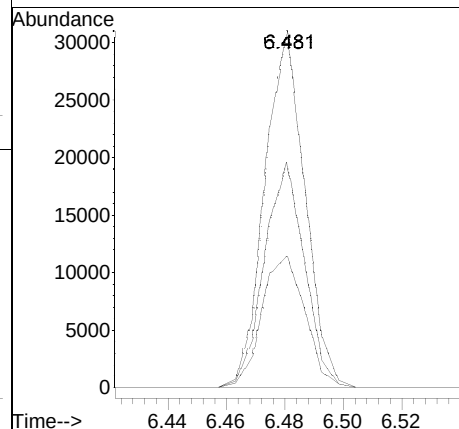
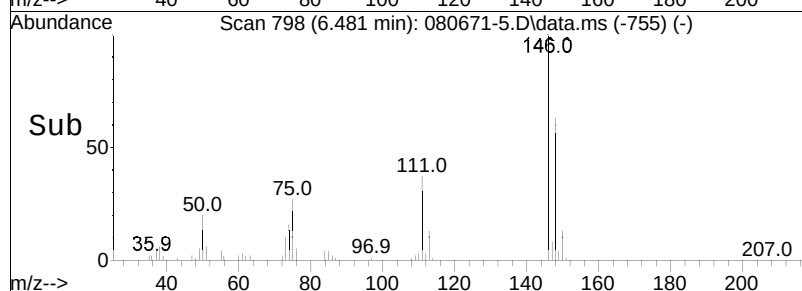
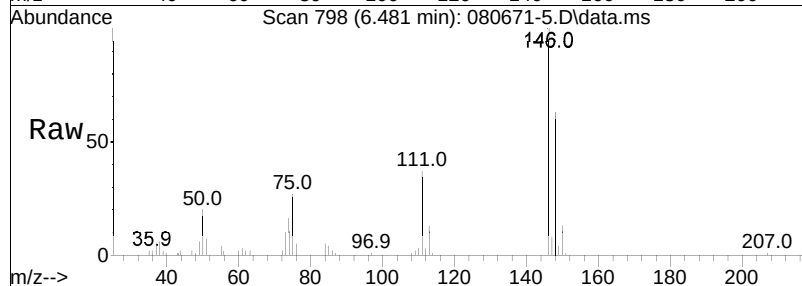
Tgt Ion:	93	Resp:	23302
Ion Ratio	Lower	Upper	
93	100		
63	135.5	74.6	111.8#
95	31.9	25.9	38.9

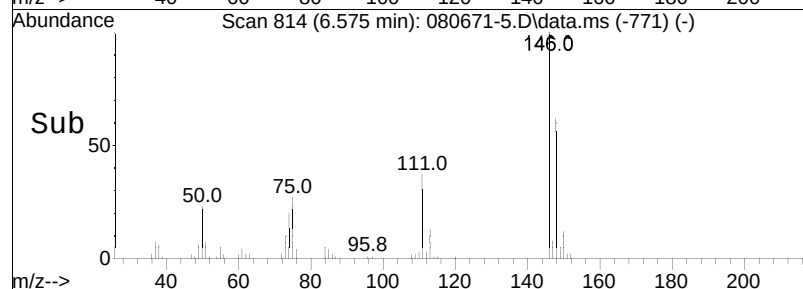
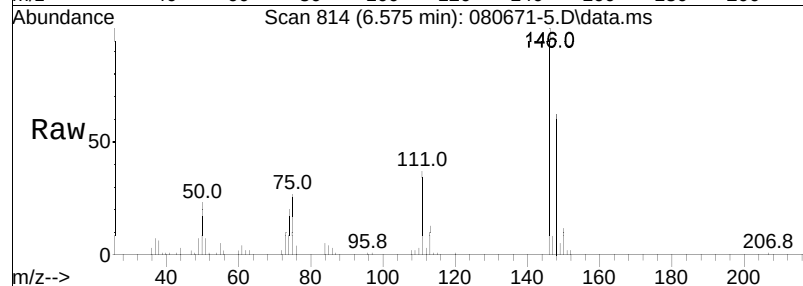
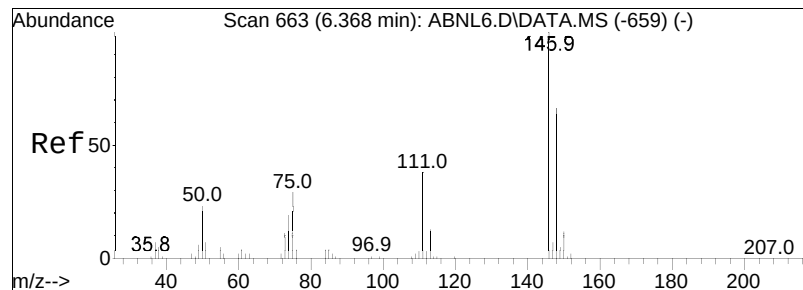




#10
 1,3-Dichlorobenzene
 Concen: 1.11 ug/ml
 RT: 6.481 min Scan# 798
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

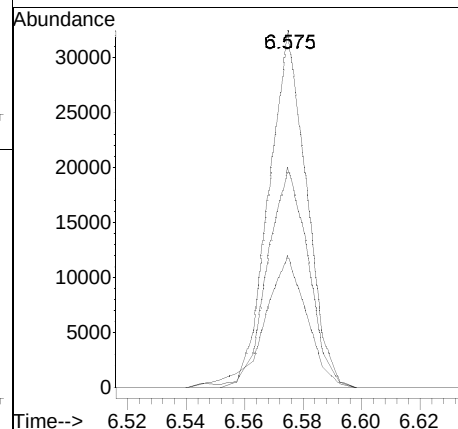
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	34.3	51.5
148	63.3	50.8	76.2

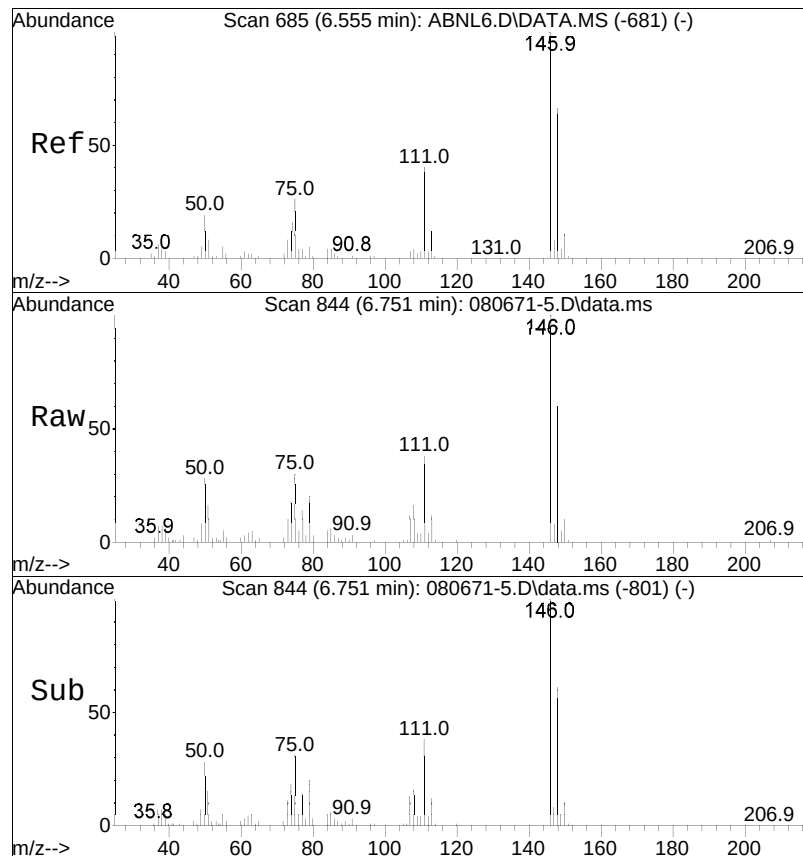




#11
 1,4-Dichlorobenzene
 Concen: 1.07 ug/ml
 RT: 6.575 min Scan# 814
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

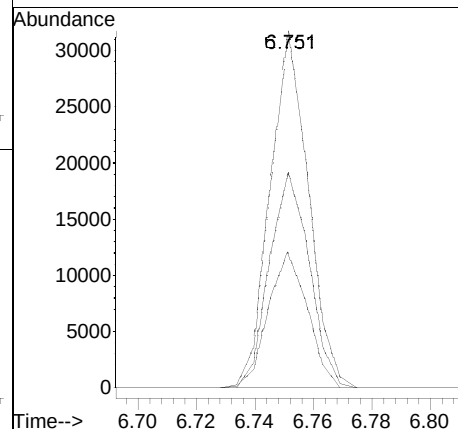
Tgt Ion	Ratio	Lower	Upper
146	100		
148	67.0	50.7	76.1
111	41.8	33.4	50.0

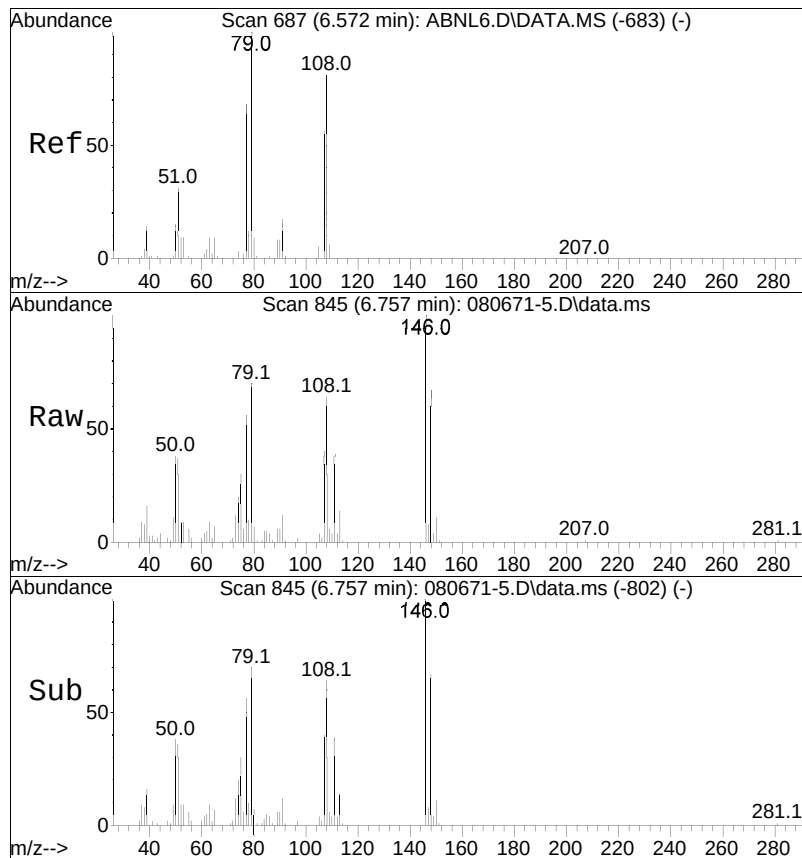




#12
 1,2-Dichlorobenzene
 Concen: 1.12 ug/ml
 RT: 6.751 min Scan# 844
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

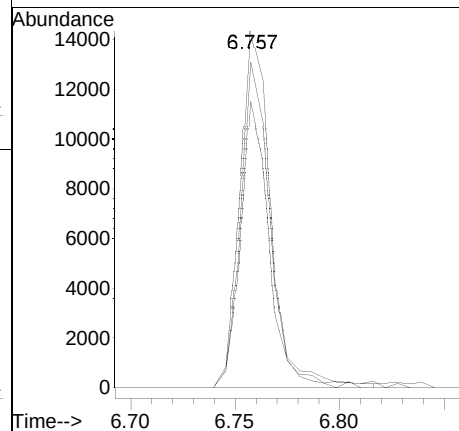
Tgt Ion:	146	Resp:	28607
Ion Ratio	Lower	Upper	
146	100		
111	39.2	34.6	52.0
148	62.8	50.2	75.4

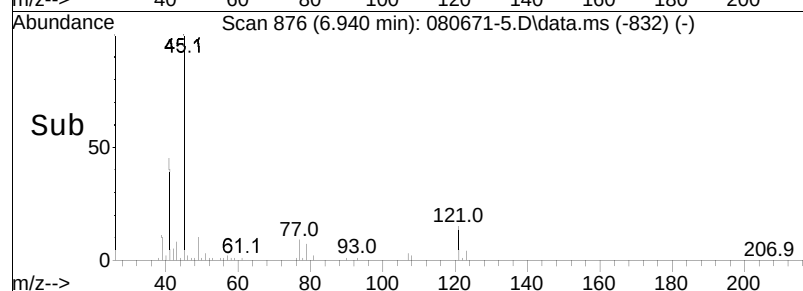
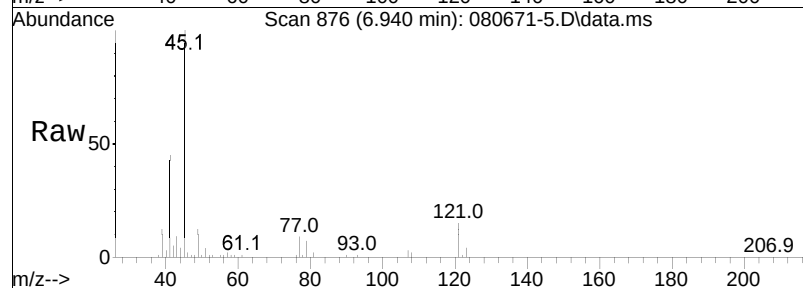
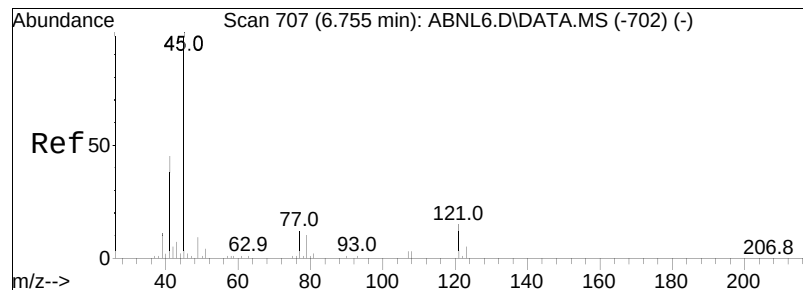




#13
Benzyl alcohol
Concen: 0.95 ug/ml
RT: 6.757 min Scan# 845
Delta R.T. 0.000 min
Lab File: 080671-5.D
Acq: 19 Jun 2025 5:25 pm

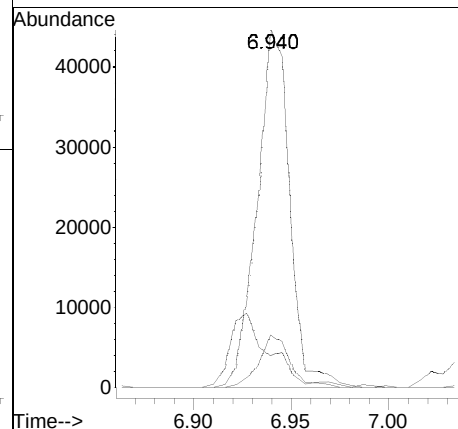
Tgt Ion	Ratio	Lower	Upper
79	100		
77	73.0	54.9	82.3
108	87.6	63.1	94.7

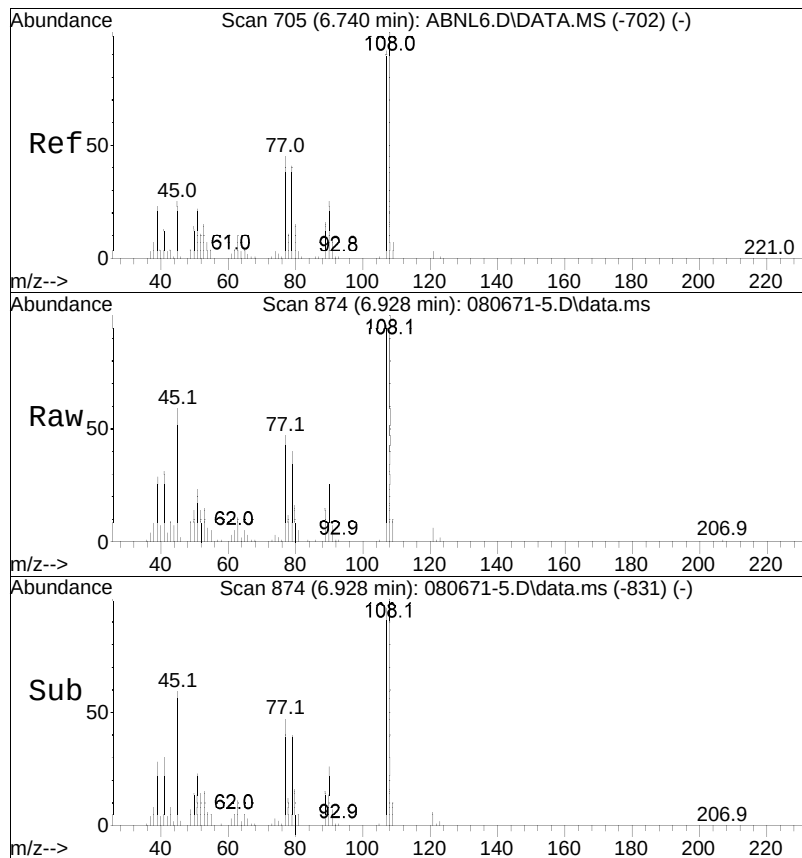




#14
 Bis(2-chloroisopropyl)ether
 Concen: 1.11 ug/ml
 RT: 6.940 min Scan# 876
 Delta R.T. 0.006 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

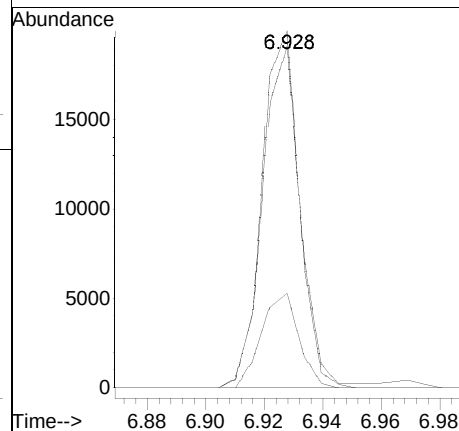
Tgt Ion:	45	121	77	Ratio	100	14.1	25.6	Resp:	51458	Lower	Upper
45	100										
121		14.1				9.8	14.6				
77			25.6			6.1	9.1#				

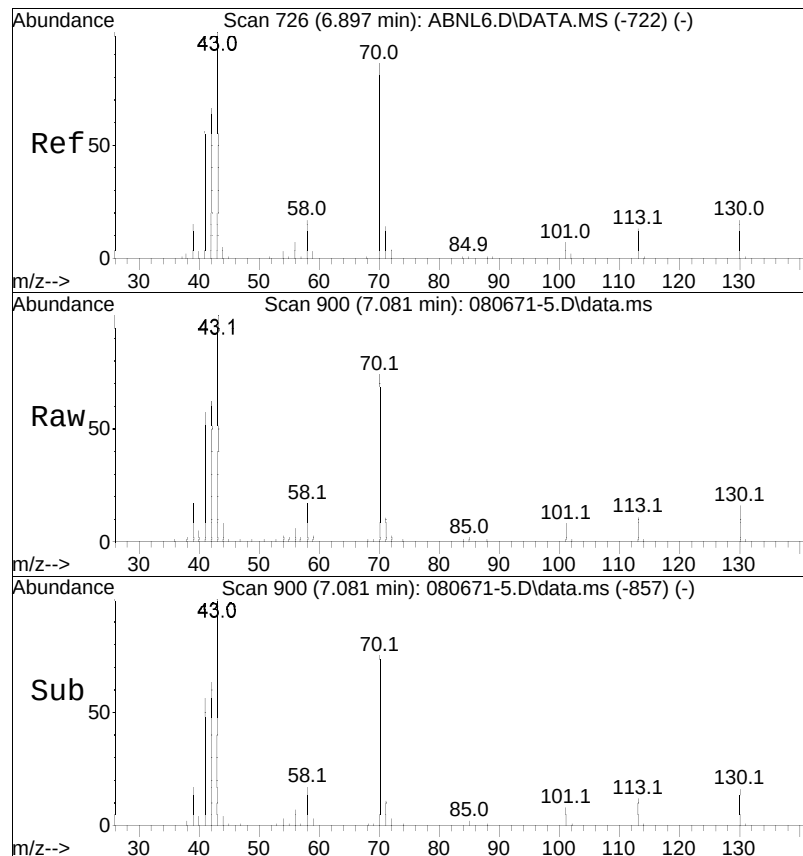




#15
 2-Methylphenol
 Concen: 0.80 ug/ml
 RT: 6.928 min Scan# 874
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

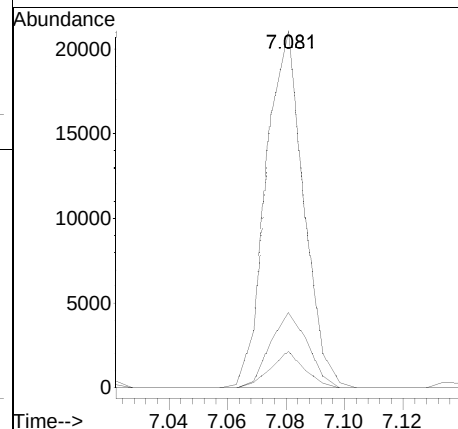
Tgt Ion:	108	Resp:	17559
Ion Ratio	Lower	Upper	
108	100		
107	97.9	70.7	106.1
90	26.7	18.7	28.1

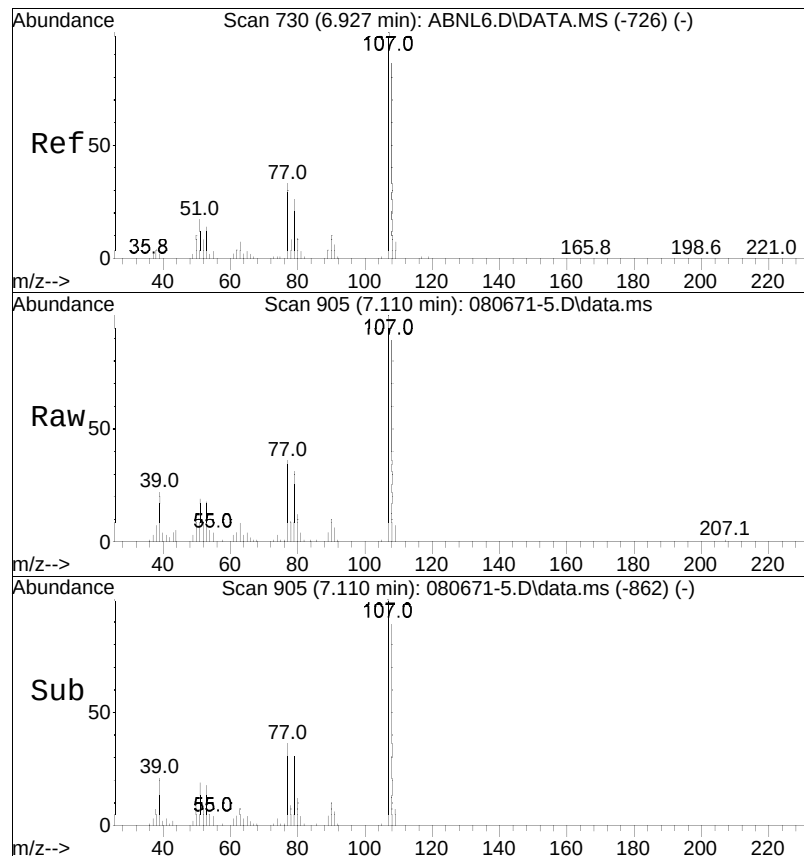




#17
 n-Nitrosodi-n-propylamine
 Concen: 1.28 ug/ml
 RT: 7.081 min Scan# 900
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

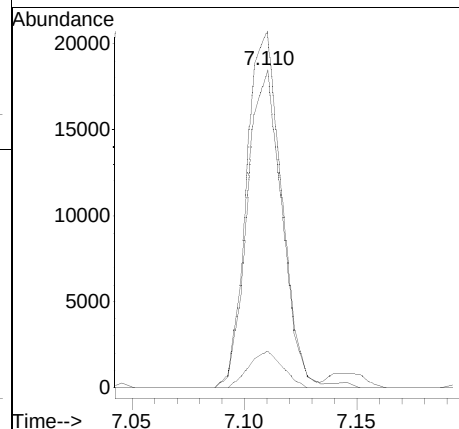
Tgt Ion:	70	Resp:	18774
Ion Ratio	Lower	Upper	
70	100		
130	21.1	18.2	27.4
101	9.4	7.8	11.8

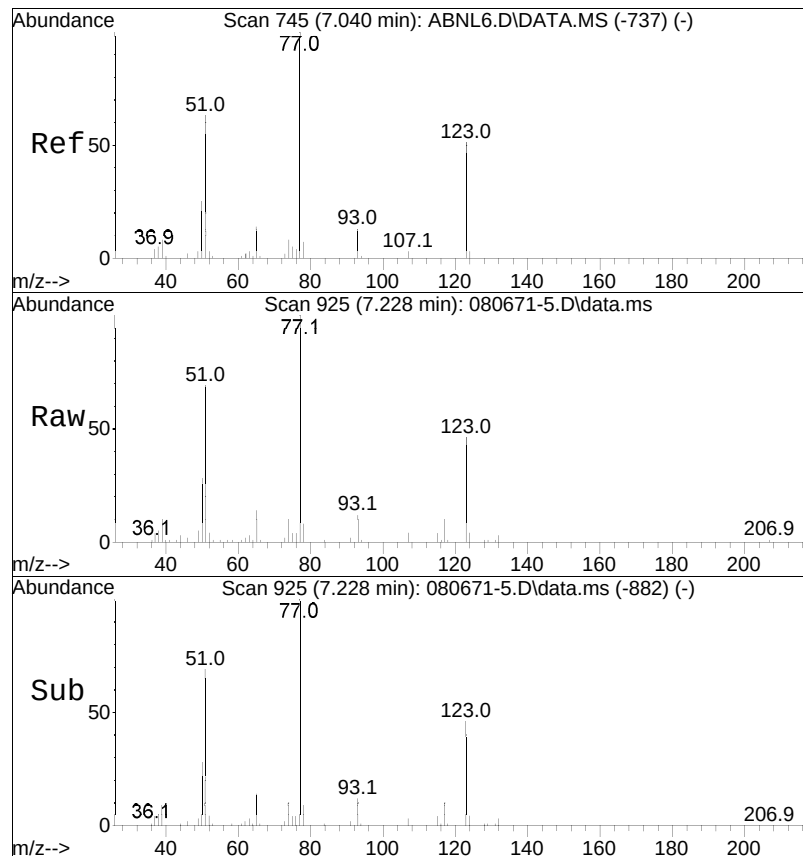




#18
 3-Methylphenol/4-Methylphenol
 Concen: 1.05 ug/ml
 RT: 7.110 min Scan# 905
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

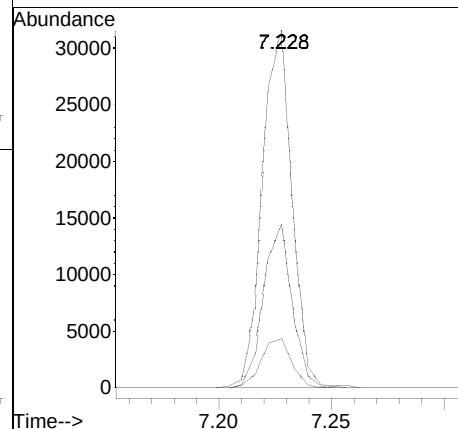
Tgt	Ion:108	Resp:	19858
Ion	Ratio	Lower	Upper
108	100		
107	112.4	88.6	132.8
90	11.3	8.8	13.2

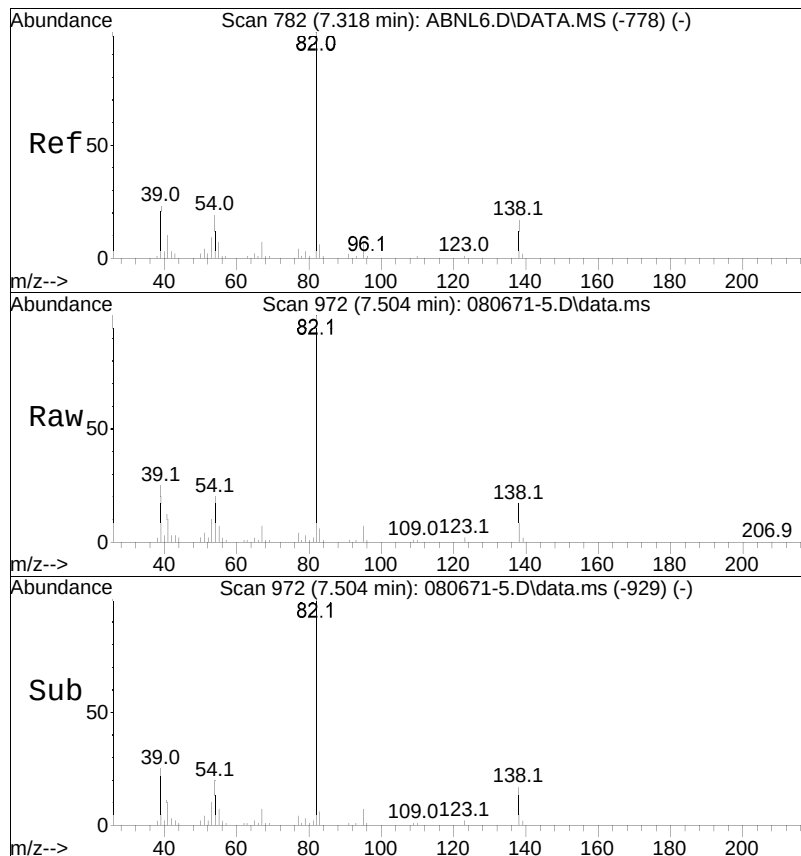




#20
 Nitrobenzene
 Concen: 1.50 ug/ml
 RT: 7.228 min Scan# 925
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

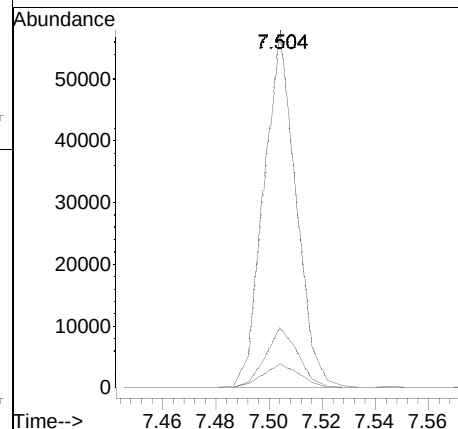
Tgt Ion	Ratio	Resp	Lower	Upper
77	100	28788		
123	44.3		36.3	54.5
65	14.5		11.6	17.4

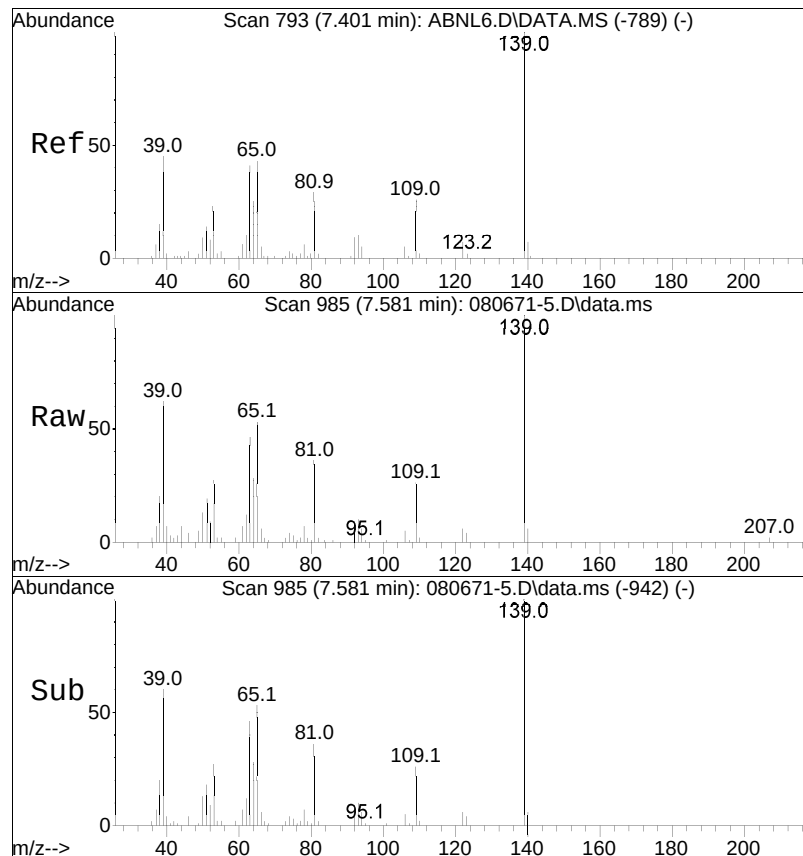




#21
 Isophorone
 Concen: 1.22 ug/ml
 RT: 7.504 min Scan# 972
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

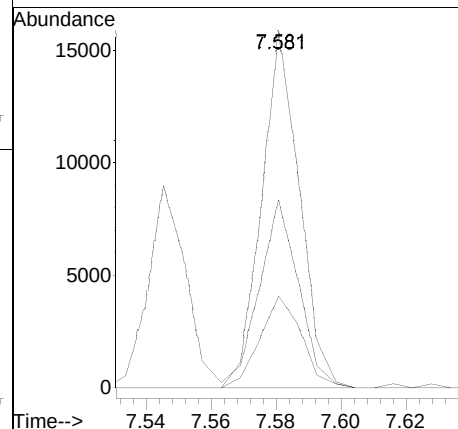
Tgt Ion	Ratio	Lower	Upper
82	100		
138	17.0	14.7	22.1
95	7.5	5.2	7.8

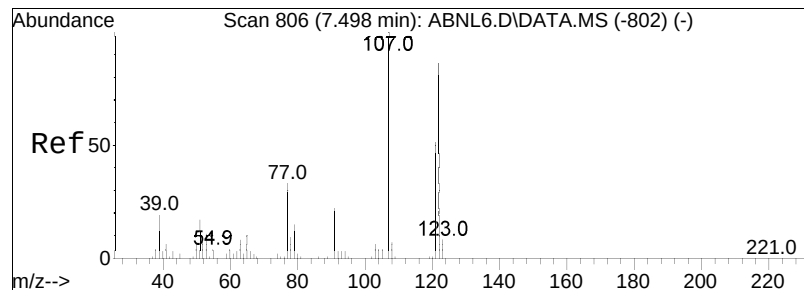




#22
 2-Nitrophenol
 Concen: 1.47 ug/ml
 RT: 7.581 min Scan# 985
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

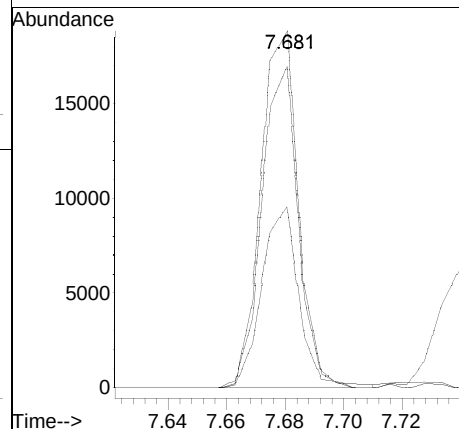
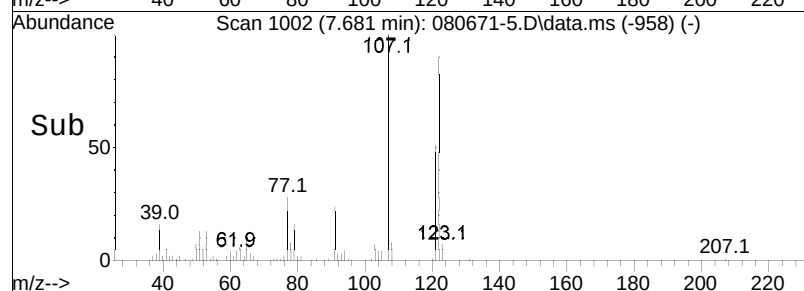
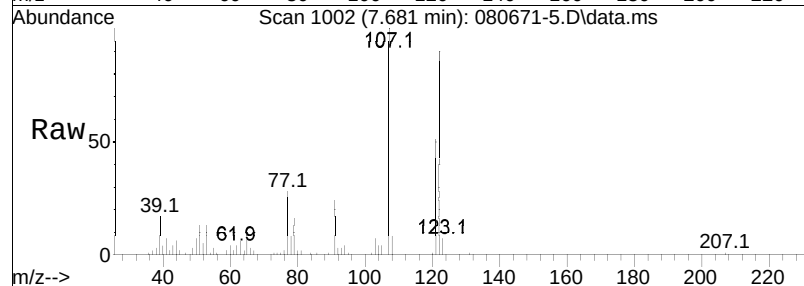
Tgt Ion:	139	Resp:	12766
Ion Ratio	Lower	Upper	
139	100		
109	28.3	19.4	29.0
65	54.7	46.1	69.1

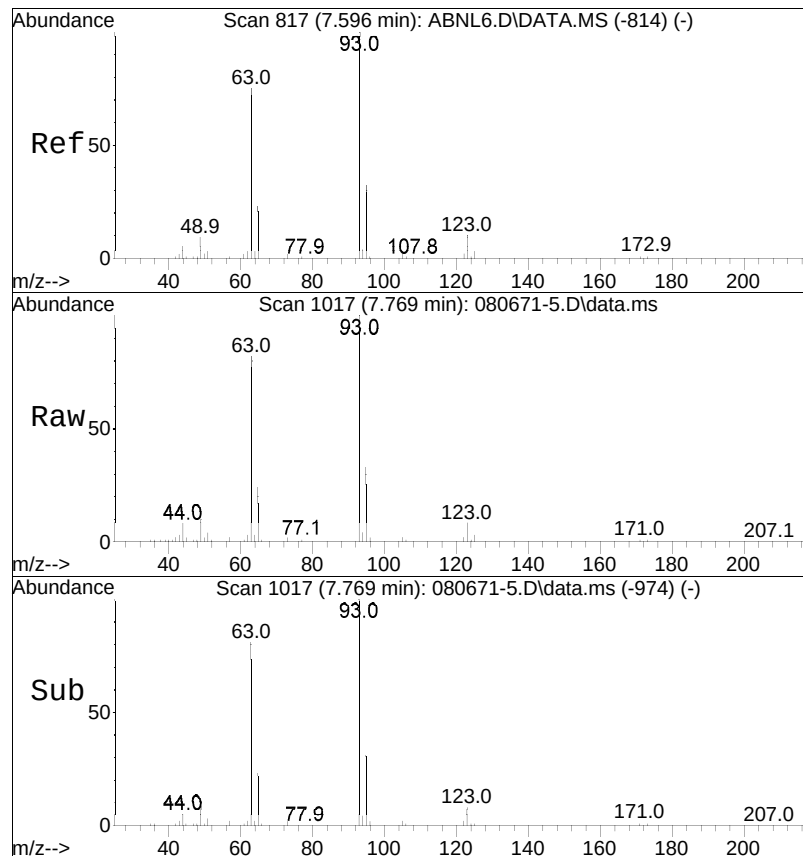




#23
 2,4-Dimethylphenol
 Concen: 0.82 ug/ml
 RT: 7.681 min Scan# 1002
 Delta R.T. 0.006 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

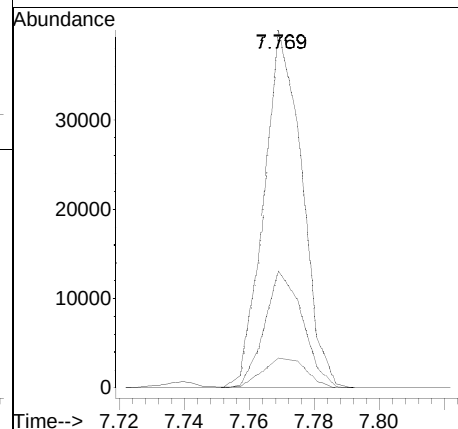
Tgt Ion	Ratio	Lower	Upper
107	100		
121	49.8	40.0	60.0
122	87.1	70.2	105.4

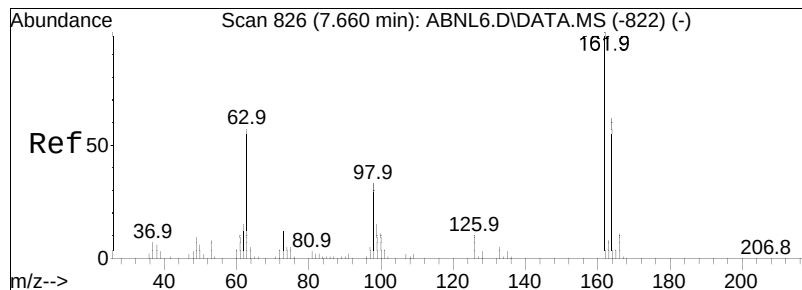




#24
 Bis(2-chloroethoxy)methane
 Concen: 1.15 ug/ml
 RT: 7.769 min Scan# 1017
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

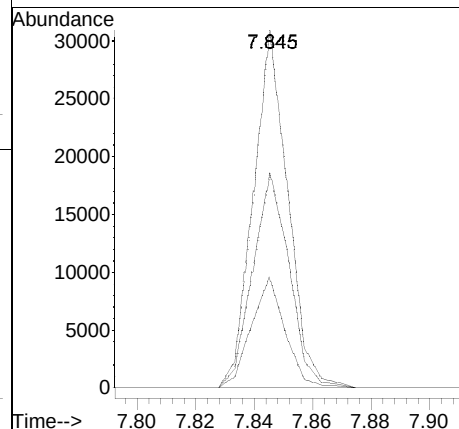
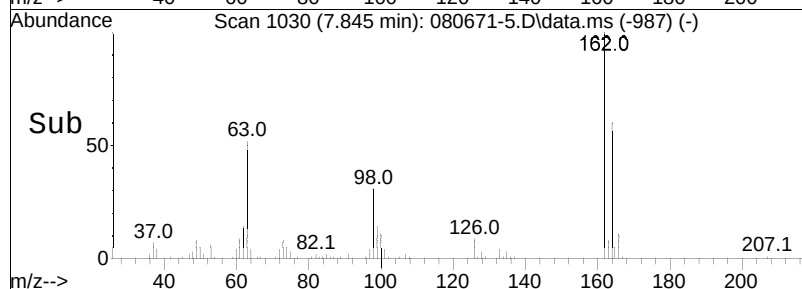
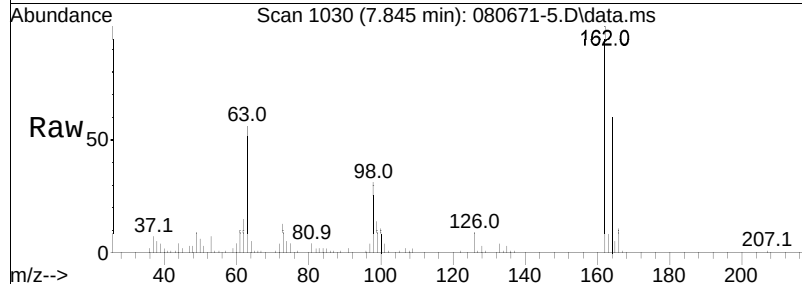
Tgt Ion:	93	Resp:	32387
Ion Ratio	Lower	Upper	
93	100		
95	32.9	25.8	38.8
123	9.7	10.1	15.1#

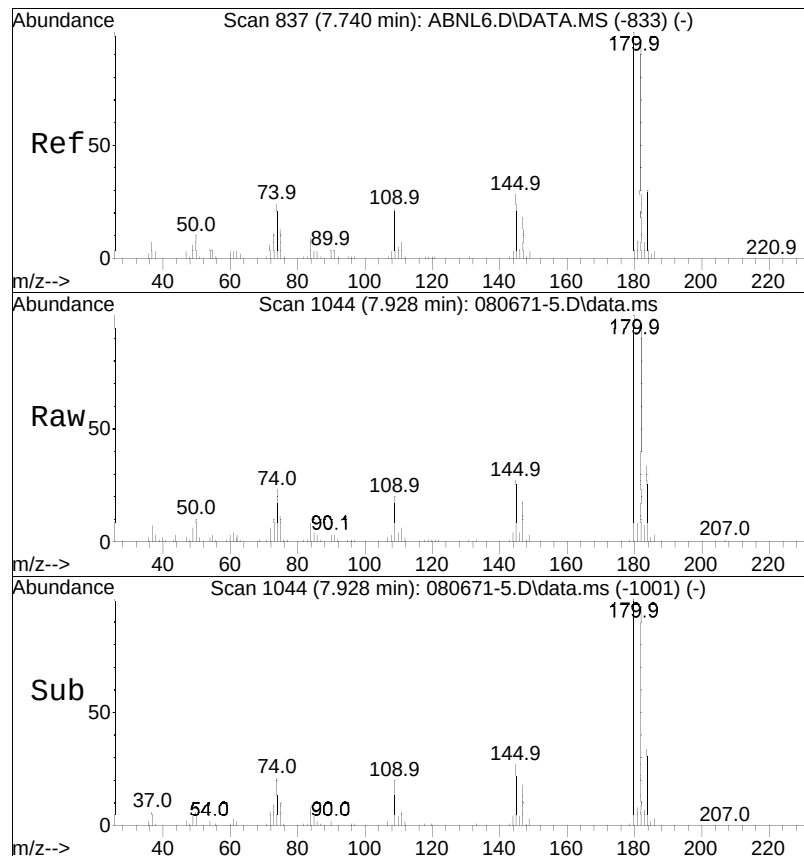




#25
 2,4-Dichlorophenol
 Concen: 1.29 ug/ml
 RT: 7.845 min Scan# 1030
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

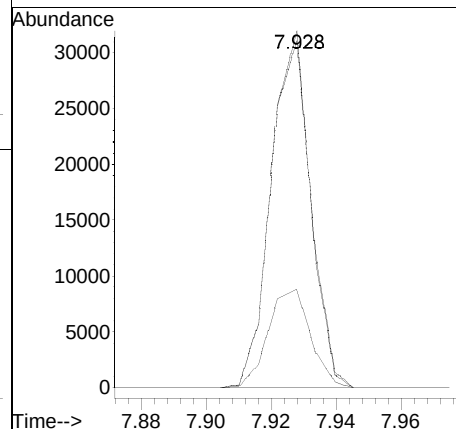
Tgt Ion	Ratio	Resp	Lower	Upper
162	100	25118		
164	63.5		51.0	76.4
98	30.5		32.2	48.2#

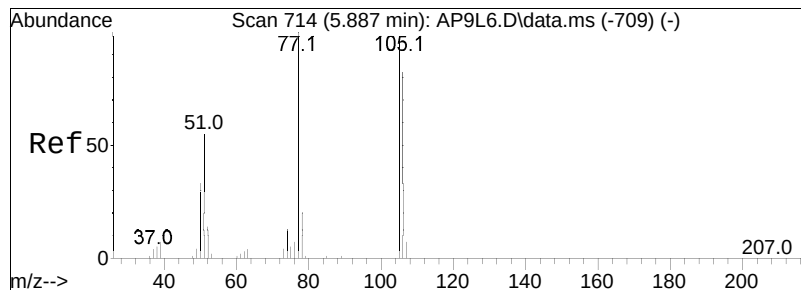




#26
 1,2,4-Trichlorobenzene
 Concen: 1.07 ug/ml
 RT: 7.928 min Scan# 1044
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

Tgt Ion:	180	Resp:	26754
Ion Ratio	Lower	Upper	
180	100		
182	99.8	76.0	114.0
145	30.0	25.7	38.5





#28

Benzaldehyde

Concen: 1.31 ug/ml

RT: 5.987 min Scan# 714

Delta R.T. -0.000 min

Lab File: 080671-5.D

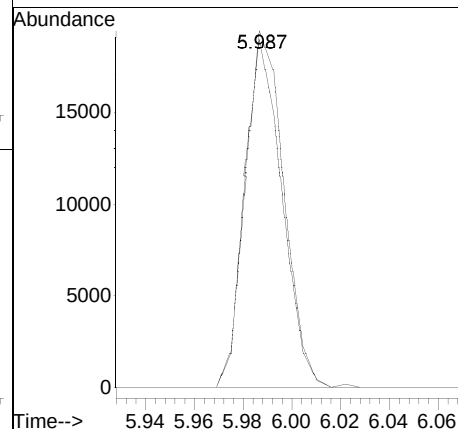
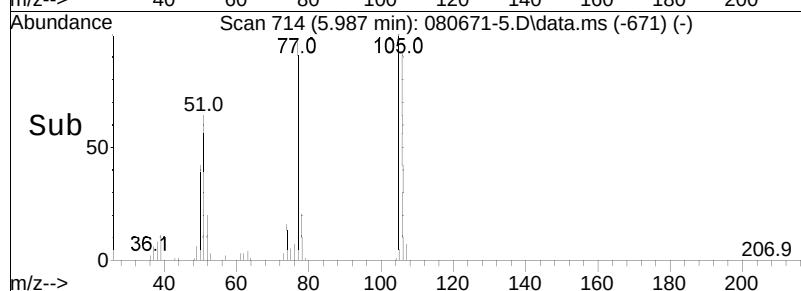
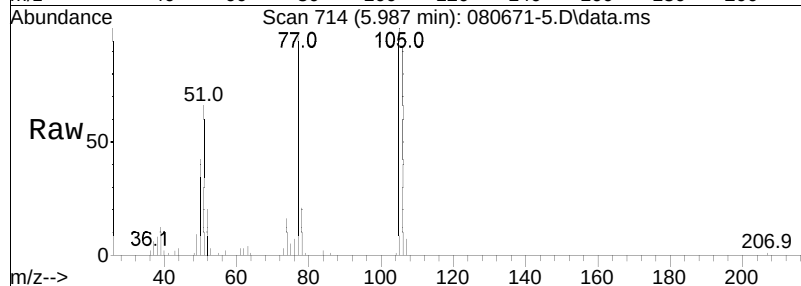
Acq: 19 Jun 2025 5:25 pm

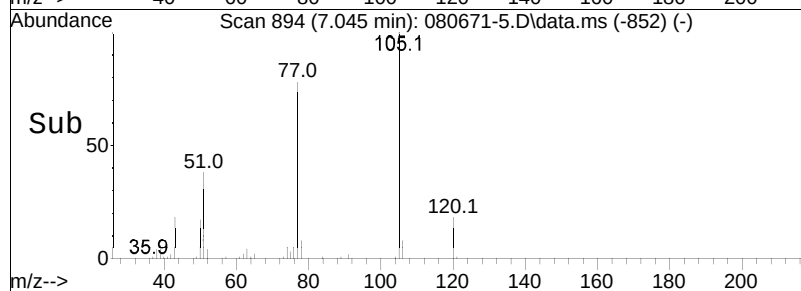
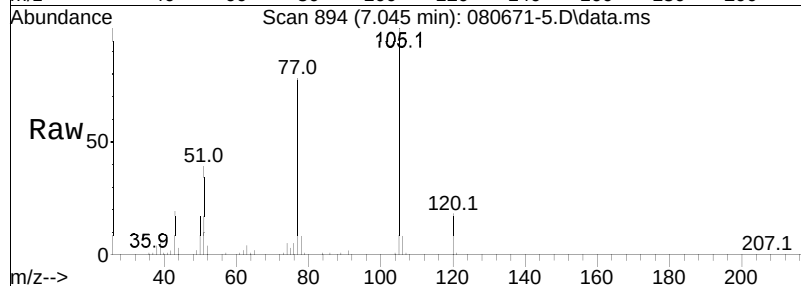
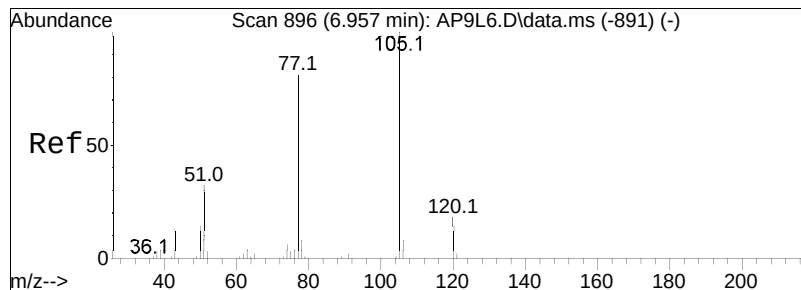
Tgt Ion:105 Resp: 21380

Ion Ratio Lower Upper

105 100

77 94.2 82.2 123.4





#29

Acetophenone

Concen: 1.40 ug/ml

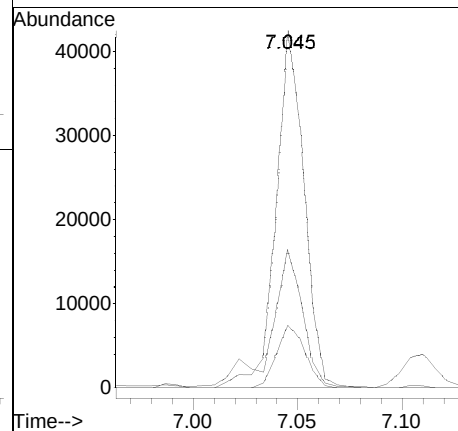
RT: 7.045 min Scan# 894

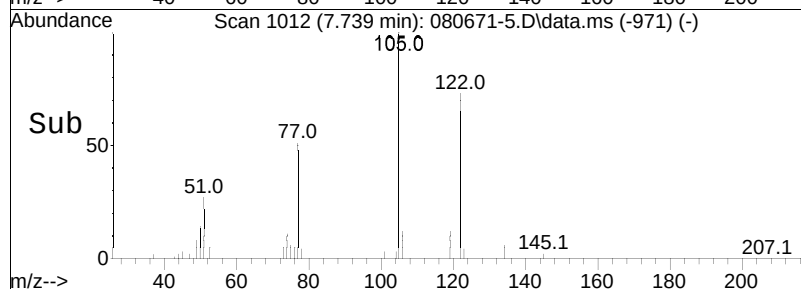
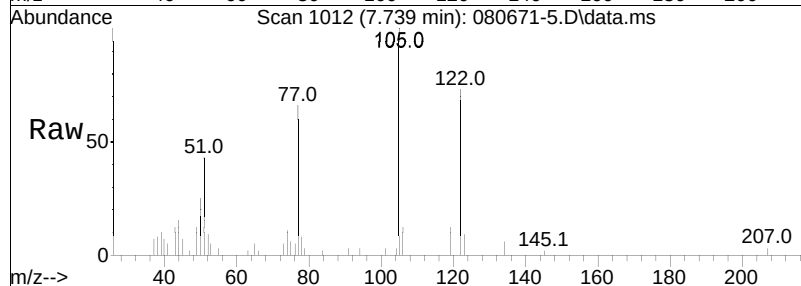
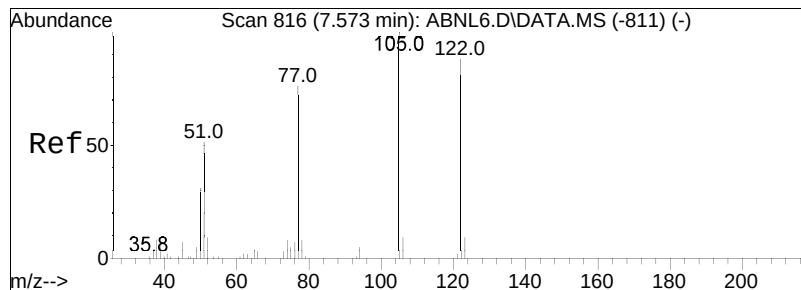
Delta R.T. -0.000 min

Lab File: 080671-5.D

Acq: 19 Jun 2025 5:25 pm

Tgt Ion:	105	Resp:	39431
Ion Ratio	Lower	Upper	
105	100		
120	17.8	20.5	30.7#
51	44.2	34.9	52.3





#37

Benzoic Acid

Concen: 1.26 ug/ml

RT: 7.739 min Scan# 1012

Delta R.T. -0.012 min

Lab File: 080671-5.D

Acq: 19 Jun 2025 5:25 pm

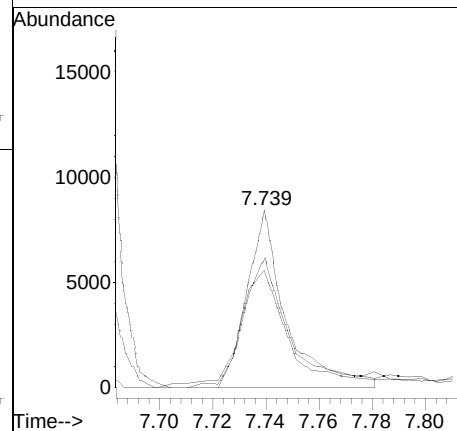
Tgt Ion:105 Resp: 8732

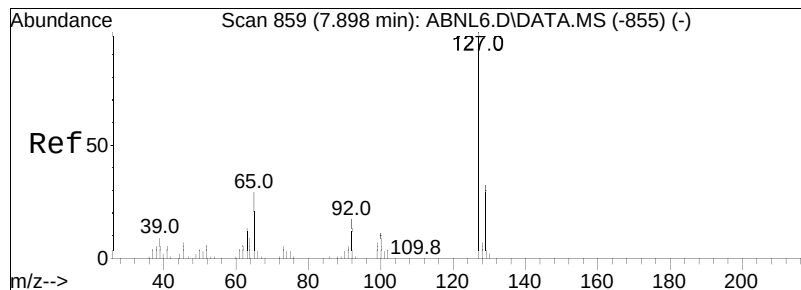
Ion Ratio Lower Upper

105 100

122 90.8 59.9 89.9#

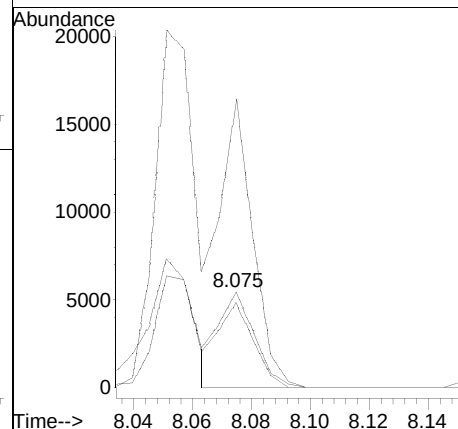
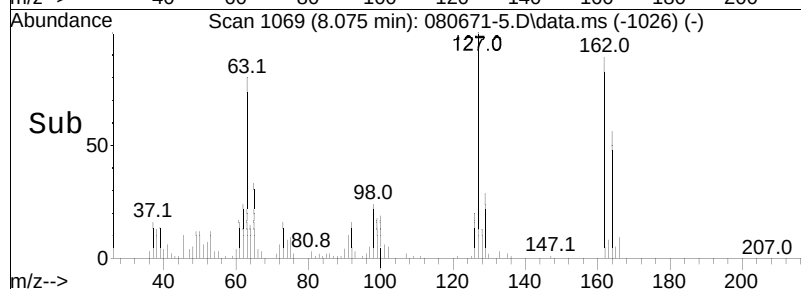
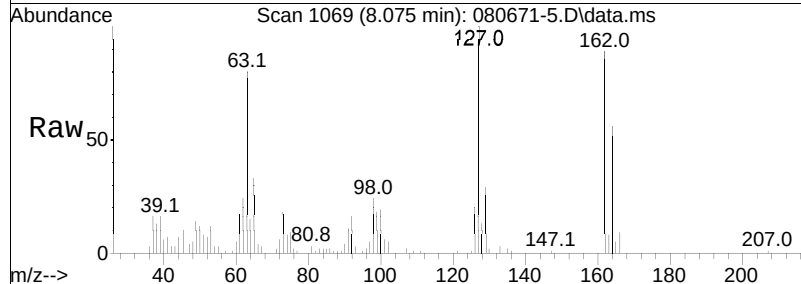
77 87.9 60.1 90.1

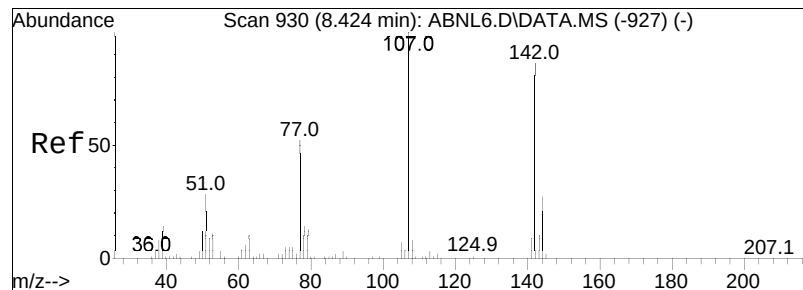




#38
 4-Chloroaniline
 Concen: 0.58 ug/ml M3
 RT: 8.075 min Scan# 1069
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

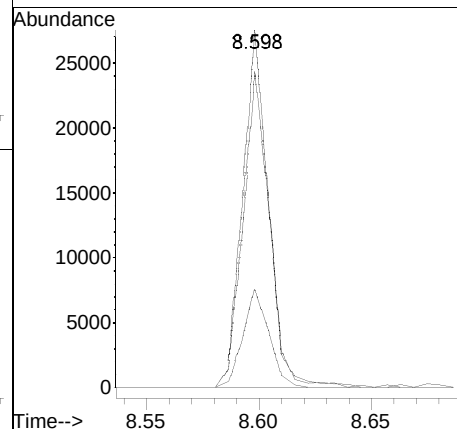
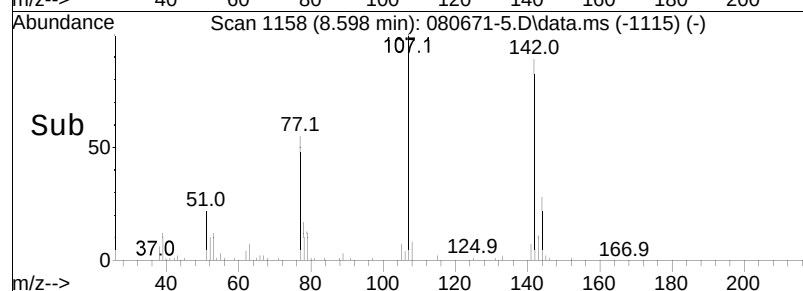
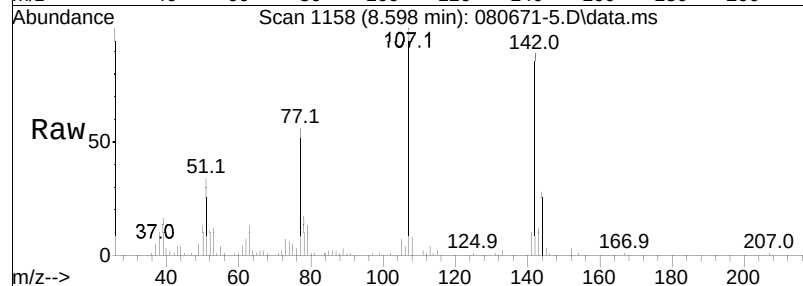
Tgt Ion	Ratio	Lower	Upper
65	100		
127	474.0	237.6	356.4#
129	154.4	76.3	114.5#

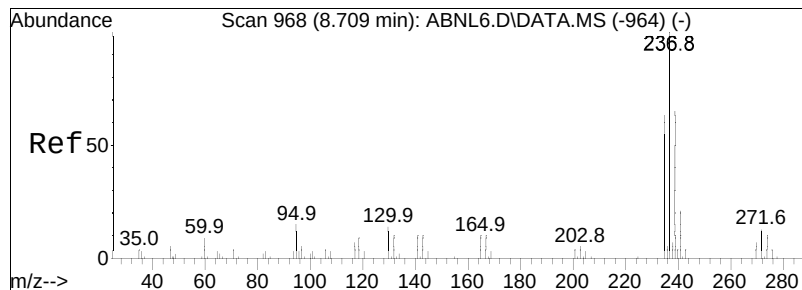




#40
 p-Chloro-m-cresol
 Concen: 1.10 ug/ml
 RT: 8.598 min Scan# 1158
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

Tgt Ion:	107	Resp:	21757
Ion Ratio	Lower	Upper	
107	100		
144	27.8	20.9	31.3
142	90.4	66.1	99.1





#43

Hexachlorocyclopentadiene

Concen: 1.06 ug/ml

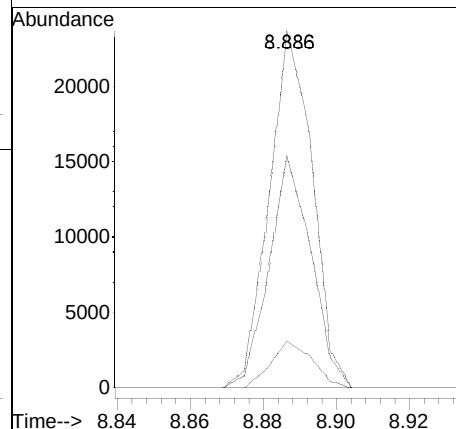
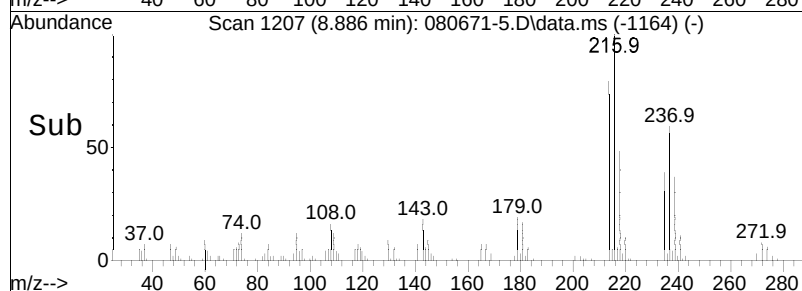
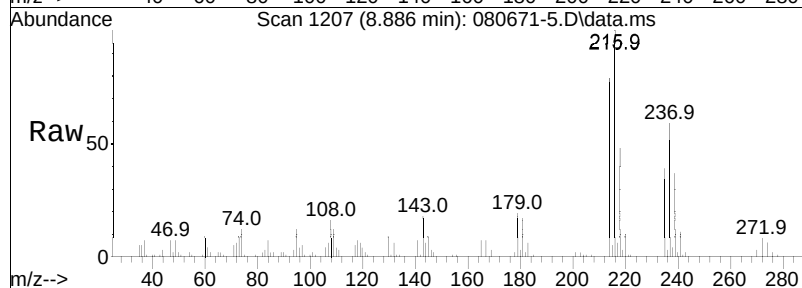
RT: 8.886 min Scan# 1207

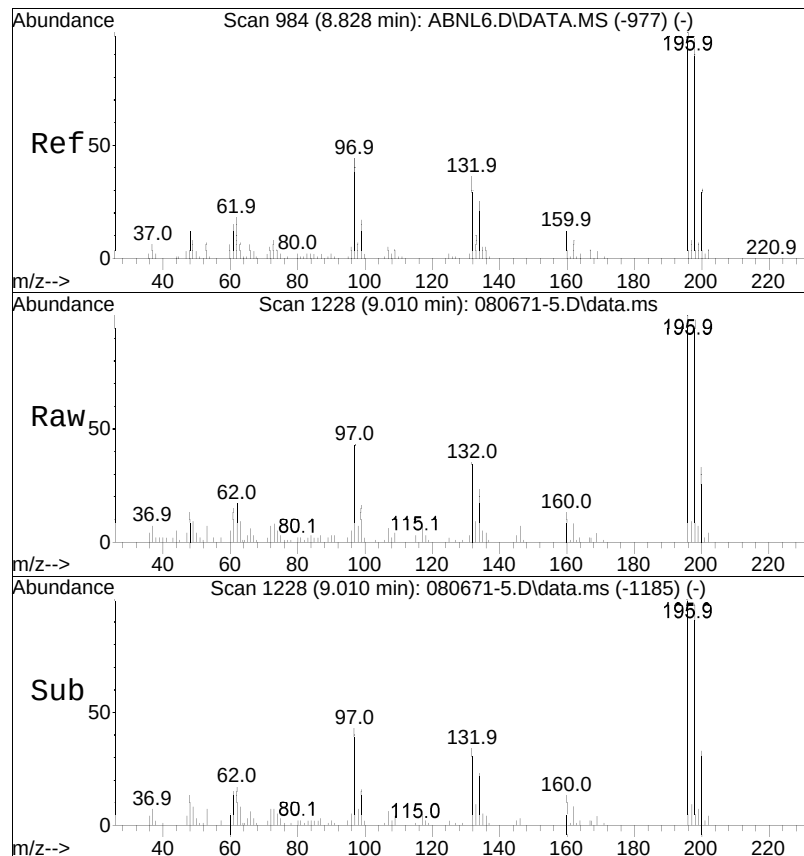
Delta R.T. 0.000 min

Lab File: 080671-5.D

Acq: 19 Jun 2025 5:25 pm

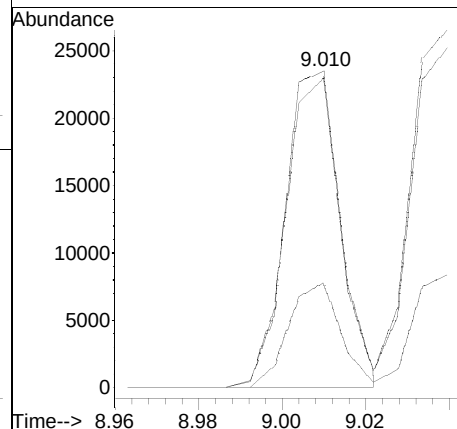
Tgt Ion	Ratio	Lower	Upper
237	100		
235	63.4	49.7	74.5
272	12.7	9.8	14.6

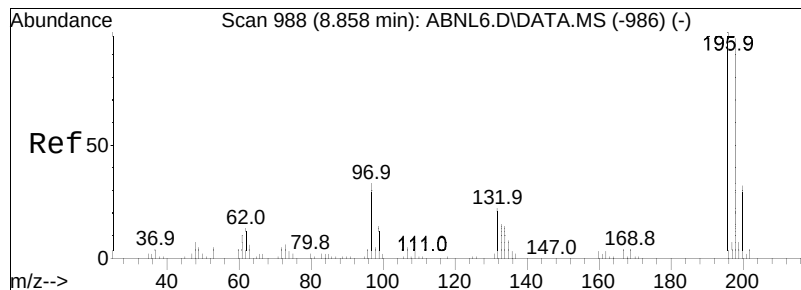




#44
 2,4,6-Trichlorophenol
 Concen: 1.41 ug/ml
 RT: 9.010 min Scan# 1228
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

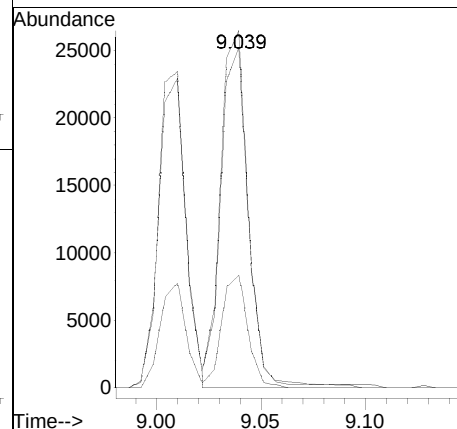
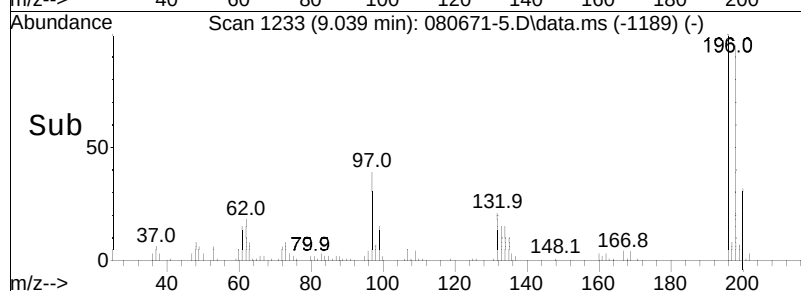
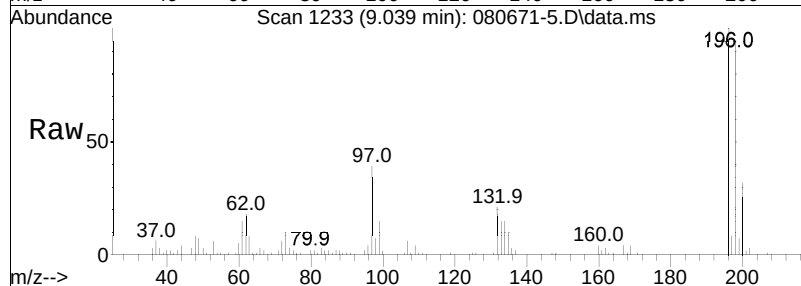
Tgt Ion:	196	Resp:	21444
Ion Ratio	Lower	Upper	
196	100		
198	96.6	77.5	116.3
200	31.4	23.8	35.6

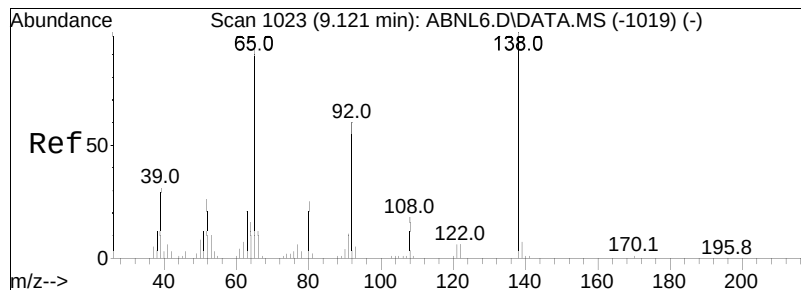




#45
 2,4,5-Trichlorophenol
 Concen: 1.58 ug/ml
 RT: 9.039 min Scan# 1233
 Delta R.T. 0.006 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

Tgt Ion	Ratio	Lower	Upper
196	100		
200	29.7	25.4	38.0
198	95.6	78.0	117.0





#48

2-Nitroaniline

Concen: 1.40 ug/ml

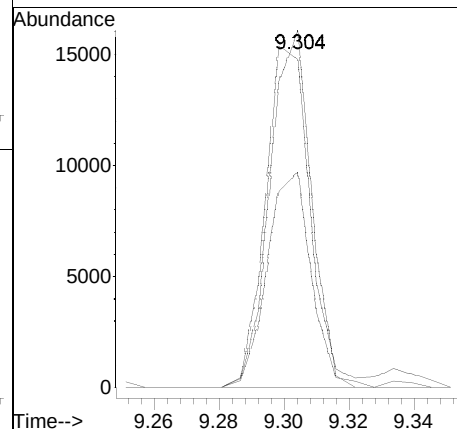
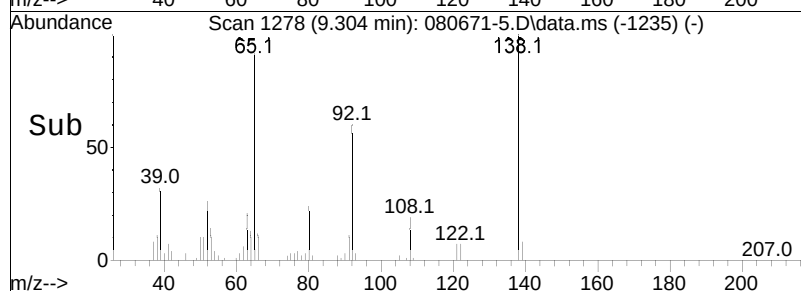
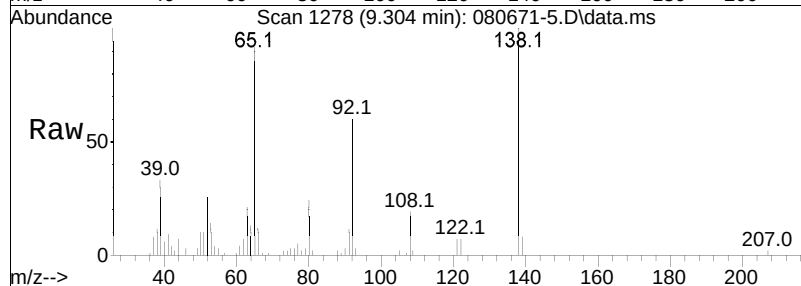
RT: 9.304 min Scan# 1278

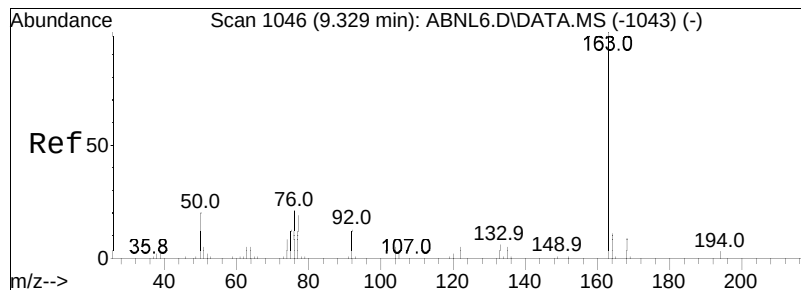
Delta R.T. 0.000 min

Lab File: 080671-5.D

Acq: 19 Jun 2025 5:25 pm

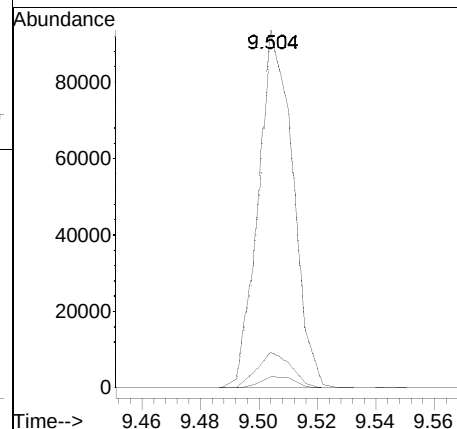
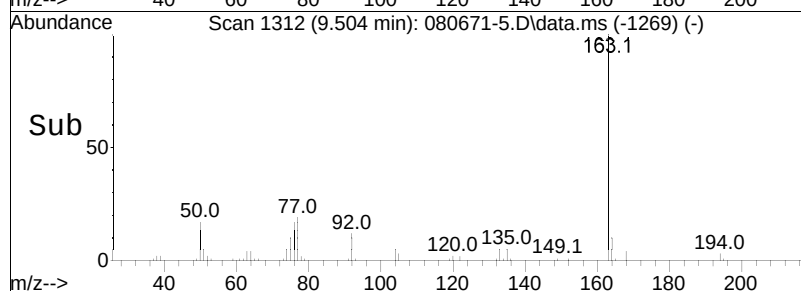
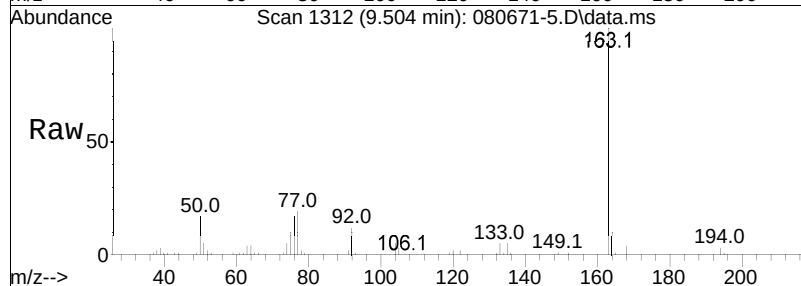
Tgt	Ion:138	Resp:	14138
Ion	Ratio	Lower	Upper
138	100		
92	64.4	53.5	80.3
65	103.0	86.3	129.5

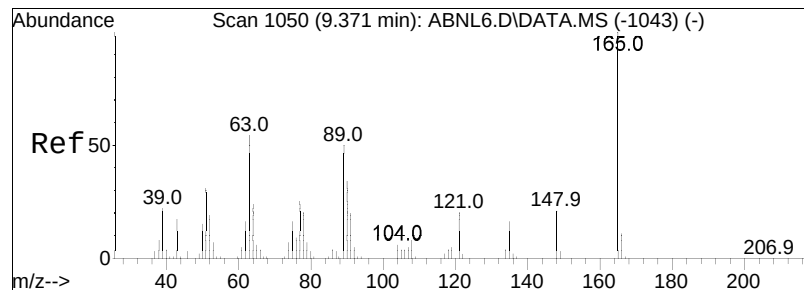




#51
 Dimethyl phthalate
 Concen: 1.38 ug/ml
 RT: 9.504 min Scan# 1312
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

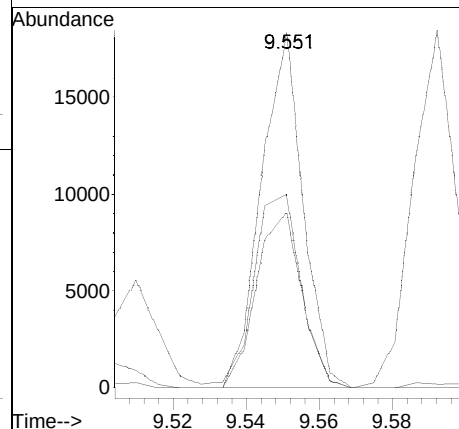
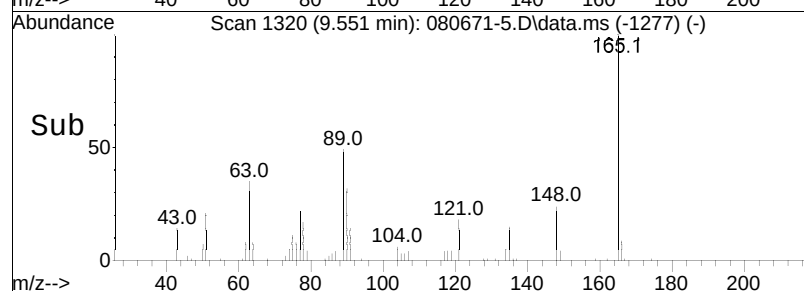
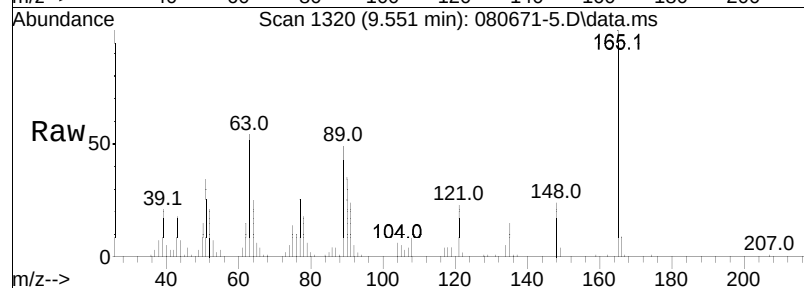
Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.1	7.9	11.9

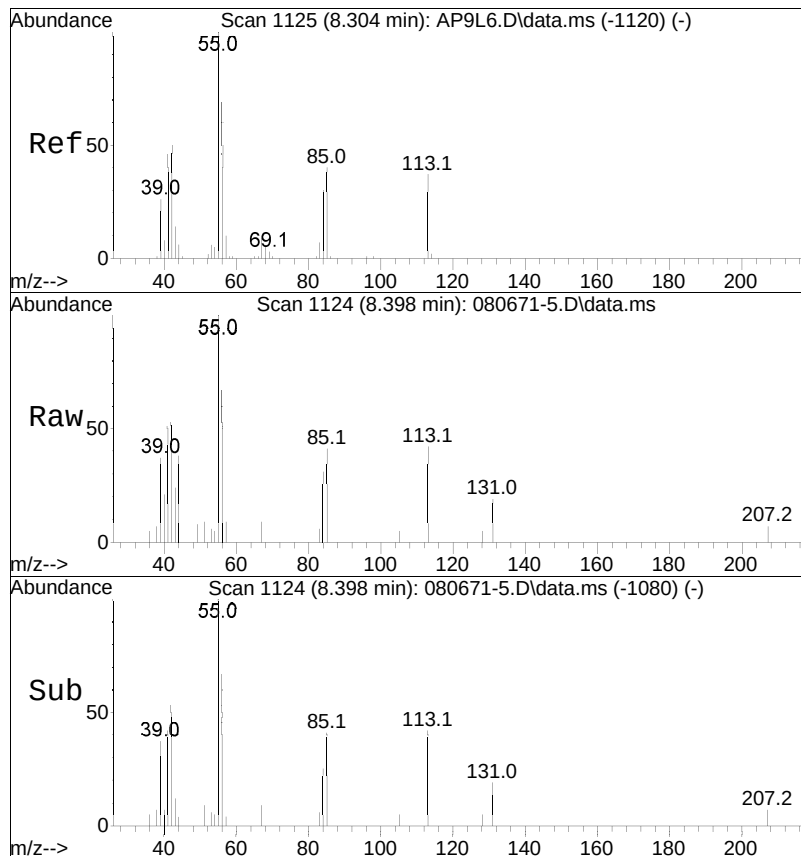




#53
 2,6-Dinitrotoluene
 Concen: 1.59 ug/ml
 RT: 9.551 min Scan# 1320
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

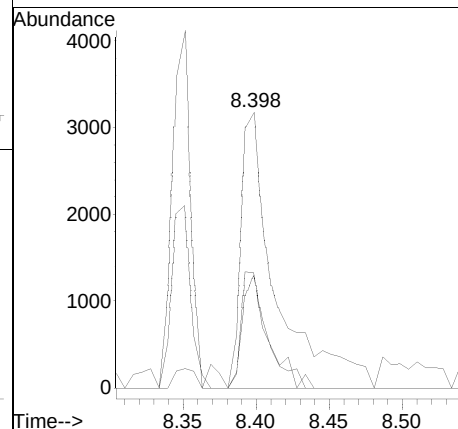
Tgt Ion:	165	Resp:	14566
Ion Ratio	Lower	Upper	
165	100		
89	54.0	54.2	81.2#
63	61.5	64.2	96.2#

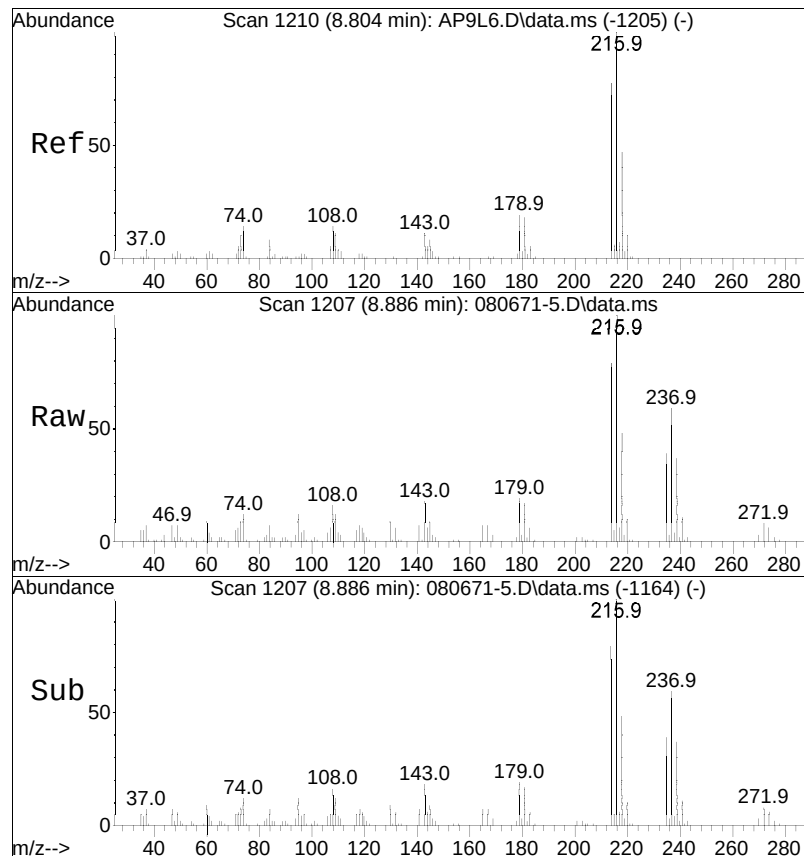




#60
 Caprolactam
 Concen: 0.55 ug/ml
 RT: 8.398 min Scan# 1124
 Delta R.T. 0.012 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

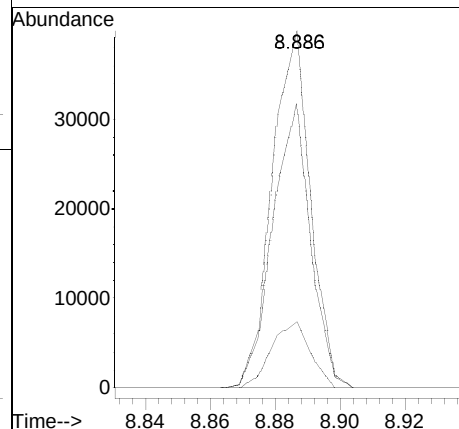
Tgt Ion:	55	Resp:	5465
Ion Ratio	Lower	Upper	
55	100		
85	28.7	19.8	29.6
113	30.7	29.6	44.4

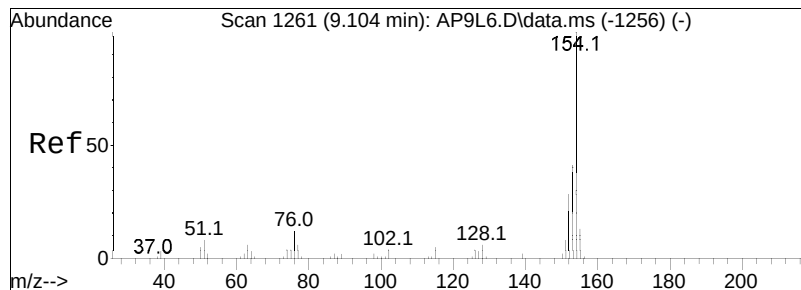




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 1.34 ug/ml
 RT: 8.886 min Scan# 1207
 Delta R.T. -0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

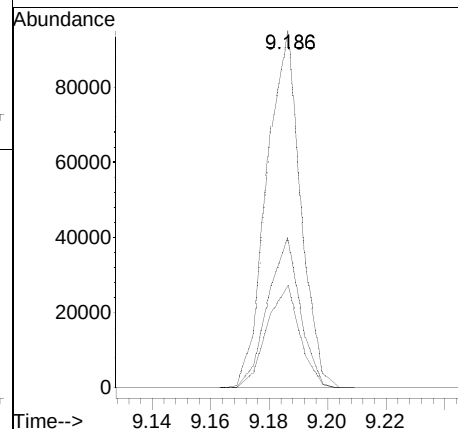
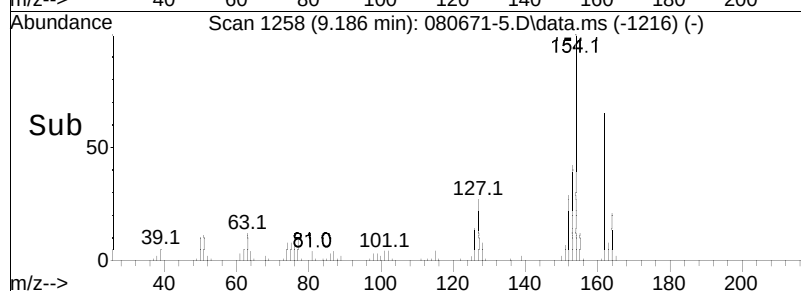
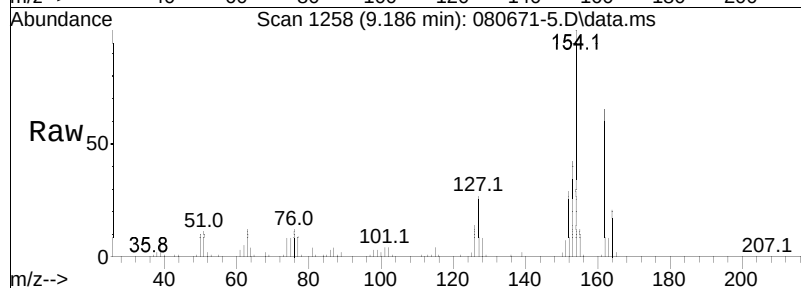
Tgt	Ion:216	Resp:	32544
Ion	Ratio	Lower	Upper
216	100		
214	78.6	63.7	95.5
179	18.9	19.0	28.6#

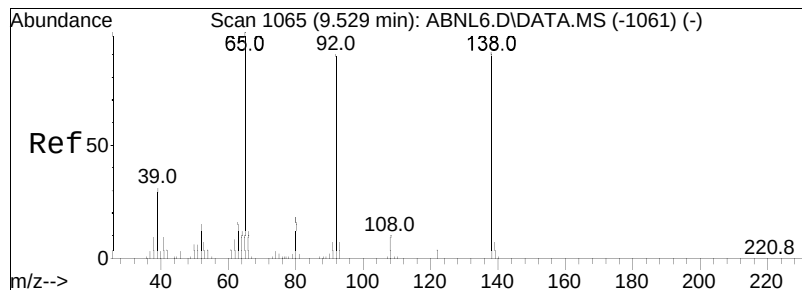




#62
Biphenyl
Concen: 1.42 ug/ml
RT: 9.186 min Scan# 1258
Delta R.T. -0.000 min
Lab File: 080671-5.D
Acq: 19 Jun 2025 5:25 pm

Tgt	Ion	Ratio	Resp	Lower	Upper
154	100		76130		
153	40.5	32.3	48.5		
152	28.3	22.5	33.7		





#64

3-Nitroaniline

Concen: 1.07 ug/ml

RT: 9.704 min Scan# 1346

Delta R.T. 0.000 min

Lab File: 080671-5.D

Acq: 19 Jun 2025 5:25 pm

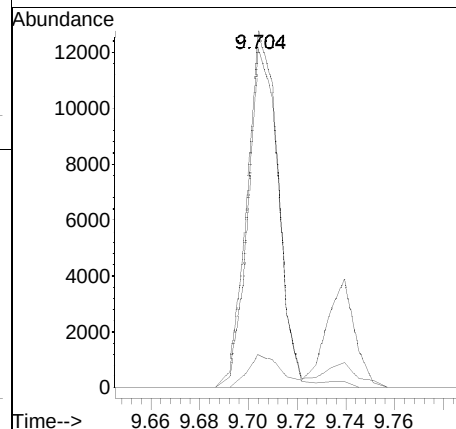
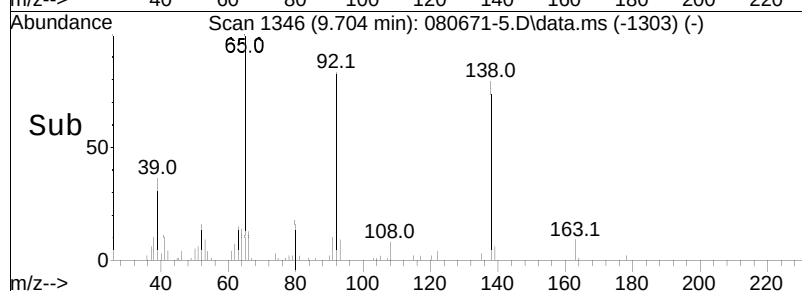
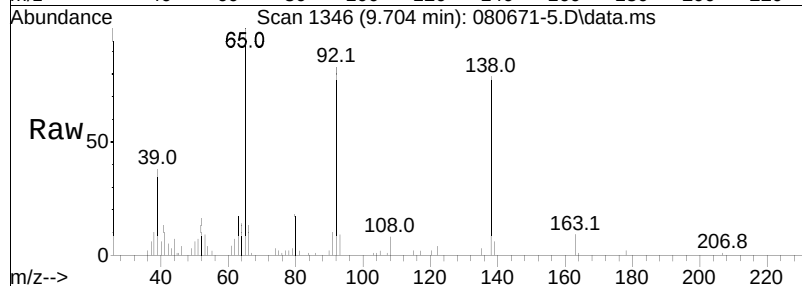
Tgt Ion:138 Resp: 10598

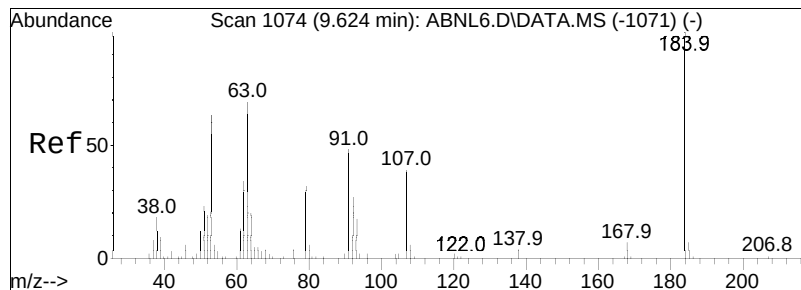
Ion Ratio Lower Upper

138 100

92 107.4 93.4 140.2

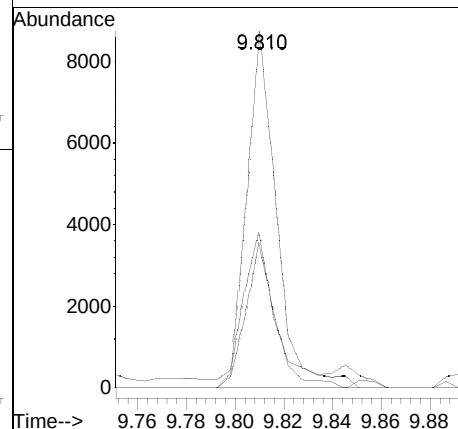
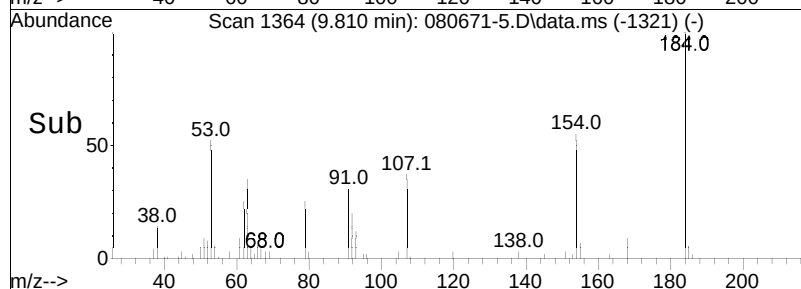
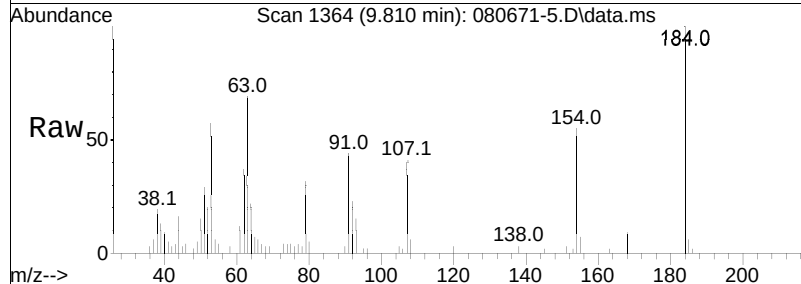
108 10.8 9.5 14.3

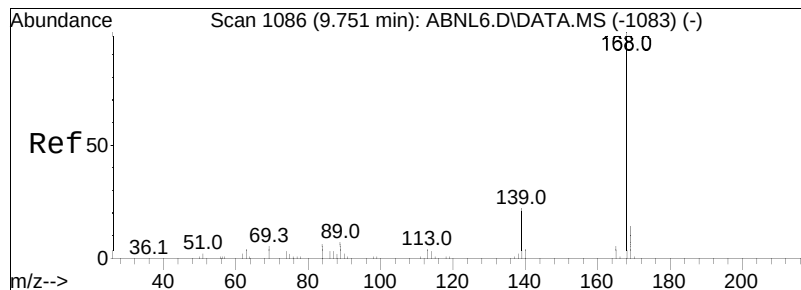




#66
 2,4-Dinitrophenol
 Concen: 1.54 ug/ml
 RT: 9.810 min Scan# 1364
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

Tgt Ion	Ratio	Lower	Upper
184	100		
107	40.7	37.7	56.5
91	40.4	46.3	69.5#





#67

Dibenzofuran

Concen: 1.28 ug/ml

RT: 9.939 min Scan# 1386

Delta R.T. 0.000 min

Lab File: 080671-5.D

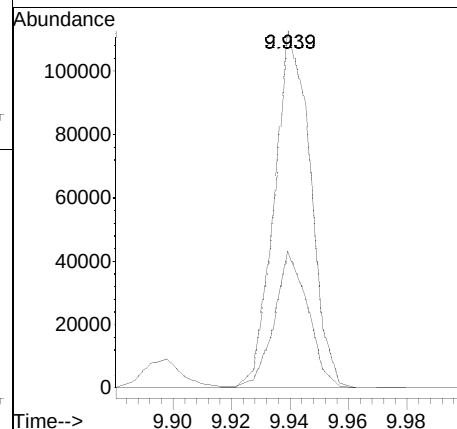
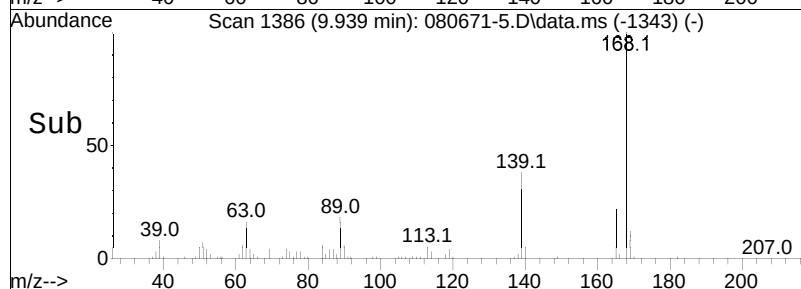
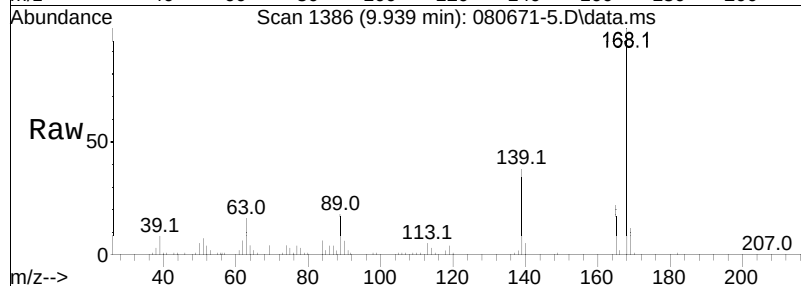
Acq: 19 Jun 2025 5:25 pm

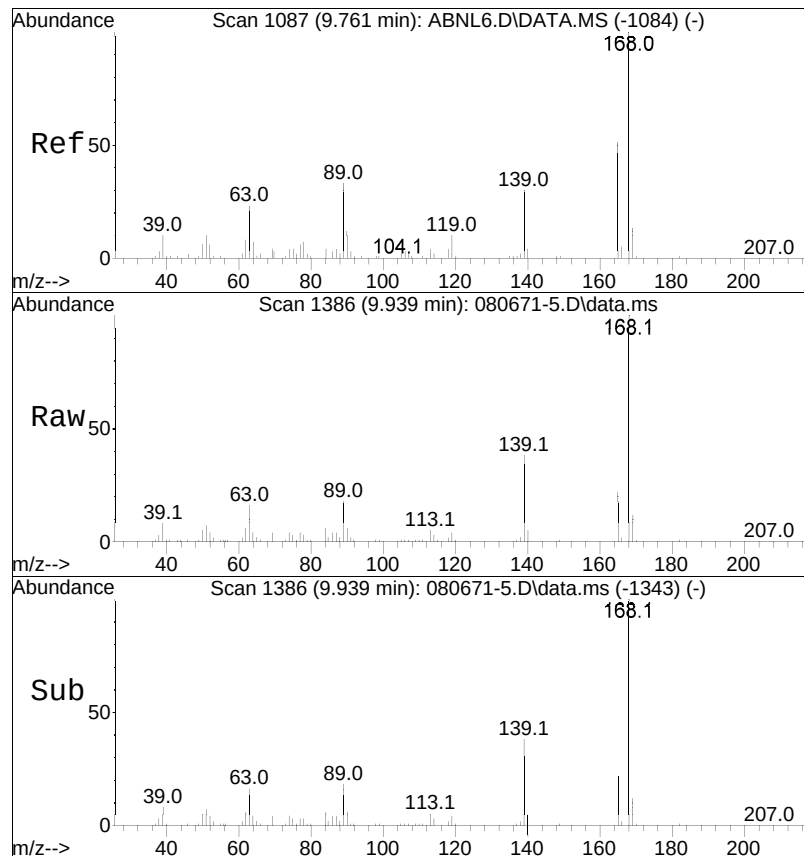
Tgt Ion:168 Resp: 96086

Ion Ratio Lower Upper

168 100

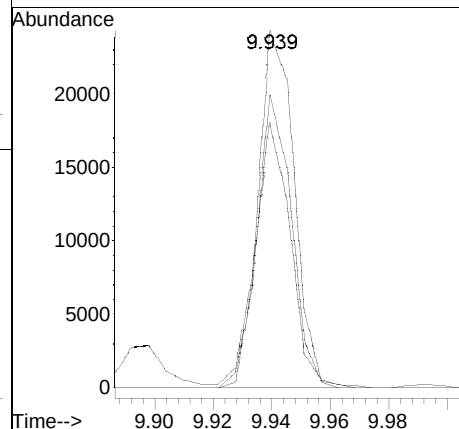
139 35.7 31.4 47.2

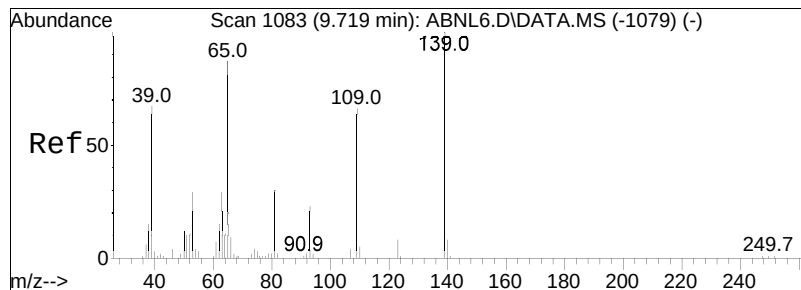




#68
 2,4-Dinitrotoluene
 Concen: 1.60 ug/ml
 RT: 9.939 min Scan# 1386
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

Tgt Ion:	165	Resp:	20610
Ion Ratio	Lower	Upper	
165	100		
89	78.8	72.0	108.0
63	73.7	52.7	79.1





#69

4-Nitrophenol

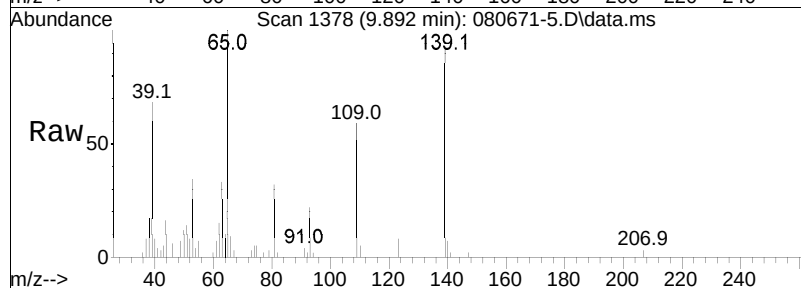
Concen: 1.17 ug/ml

RT: 9.892 min Scan# 1378

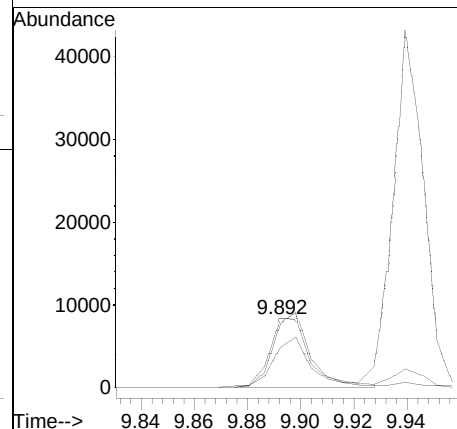
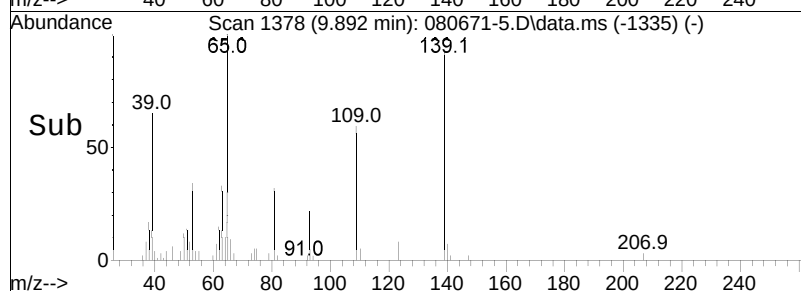
Delta R.T. 0.000 min

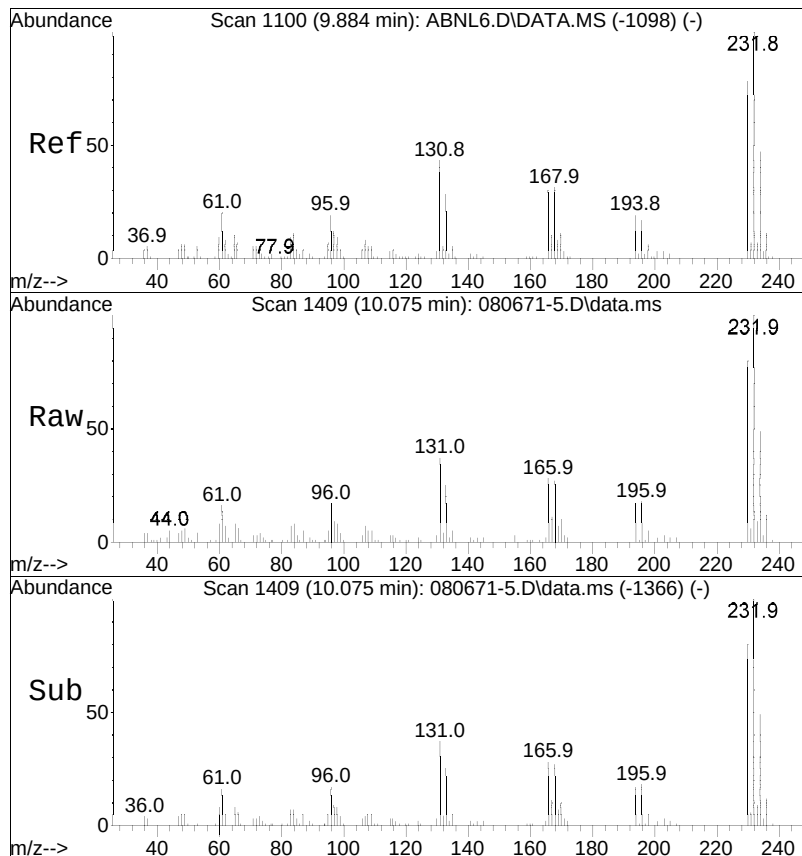
Lab File: 080671-5.D

Acq: 19 Jun 2025 5:25 pm



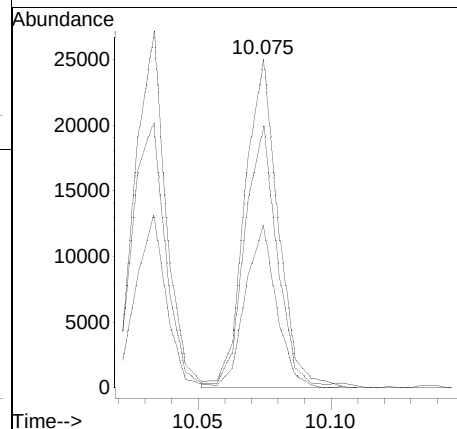
Tgt Ion:	65	Resp:	8847
Ion Ratio	Lower	Upper	
65	100		
109	67.6	47.4	71.2
139	98.4	76.6	115.0

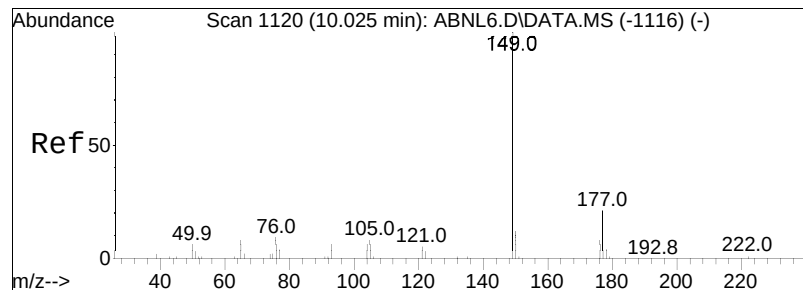




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 1.61 ug/ml
 RT: 10.075 min Scan# 1409
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

Tgt Ion:	232	Resp:	21822
Ion Ratio	Lower	Upper	
232	100		
230	77.9	61.8	92.8
234	46.3	36.2	54.2





#72

Diethyl phthalate

Concen: 1.44 ug/ml

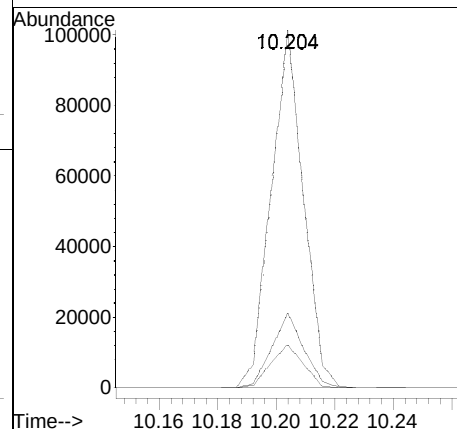
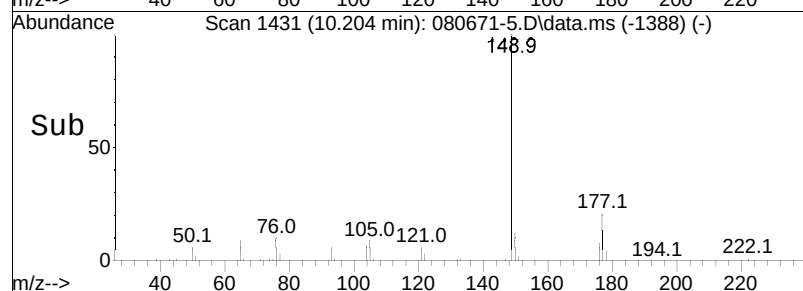
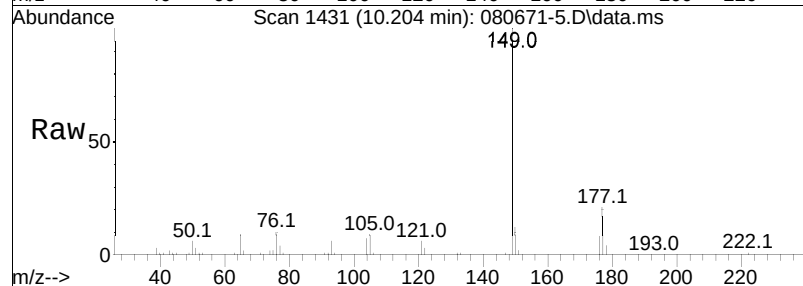
RT: 10.204 min Scan# 1431

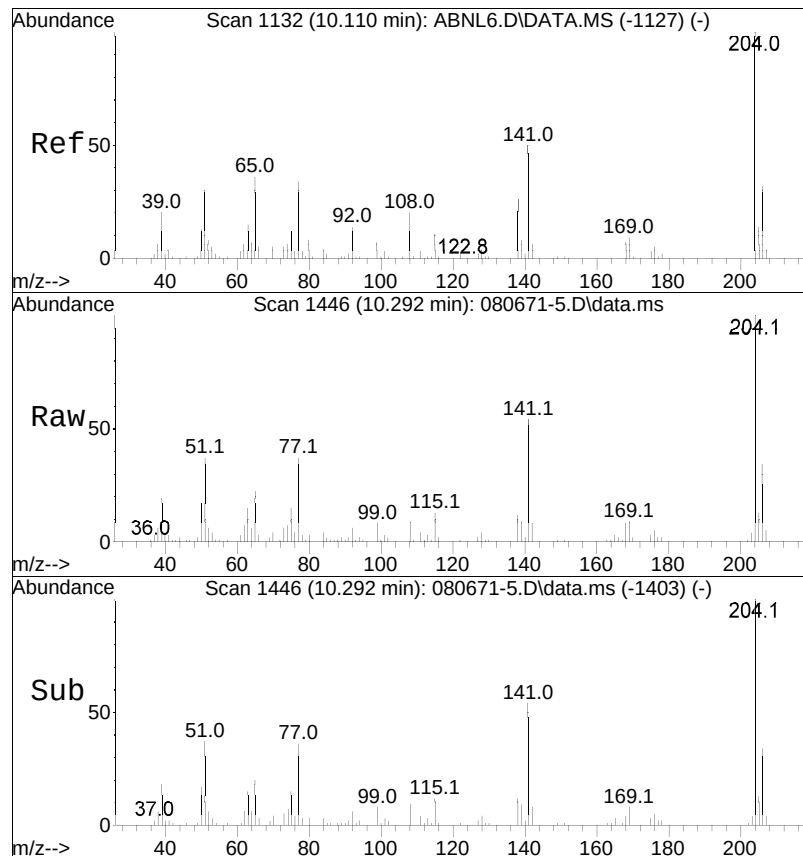
Delta R.T. 0.000 min

Lab File: 080671-5.D

Acq: 19 Jun 2025 5:25 pm

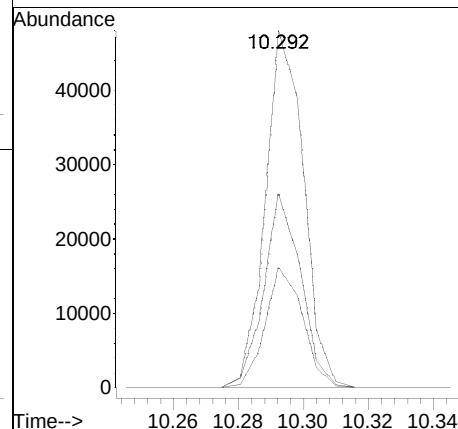
Tgt Ion:	149	Resp:	76717
Ion Ratio	Lower	Upper	
149	100		
177	21.0	16.1	24.1
150	12.3	9.4	14.2

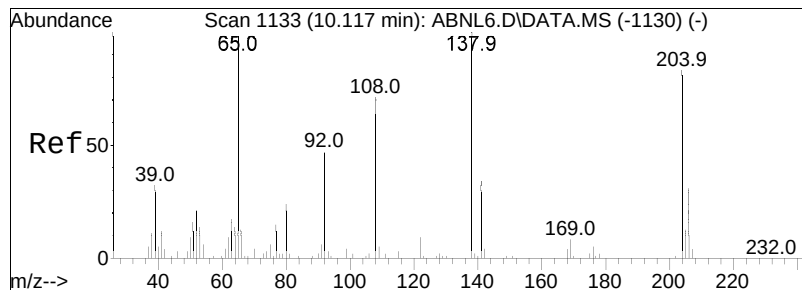




#74
 4-Chlorophenyl phenyl ether
 Concen: 1.34 ug/ml
 RT: 10.292 min Scan# 1446
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

Tgt Ion:	204	Resp:	38859
Ion Ratio	Lower	Upper	
204	100		
206	33.4	25.8	38.6
141	52.6	53.6	80.4#





#75

4-Nitroaniline

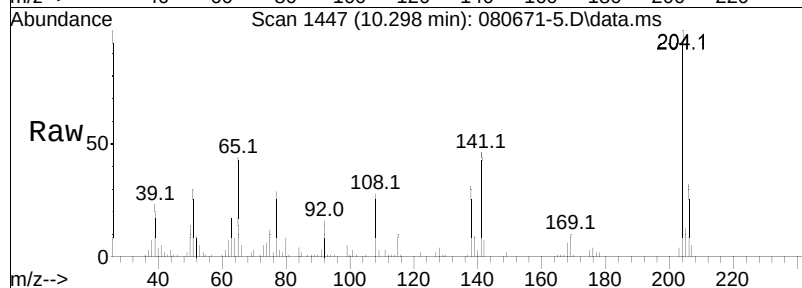
Concen: 1.15 ug/ml

RT: 10.298 min Scan# 1447

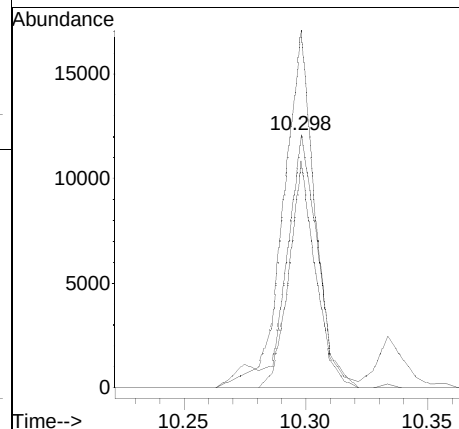
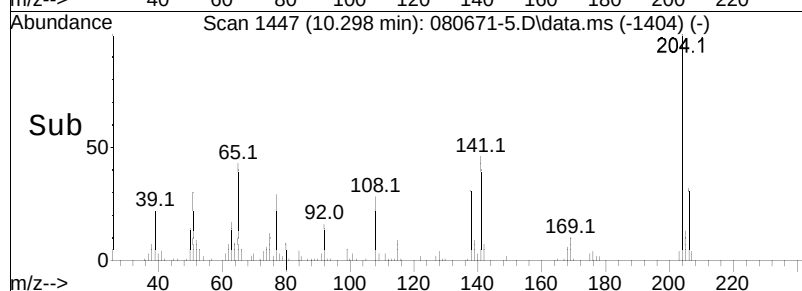
Delta R.T. 0.000 min

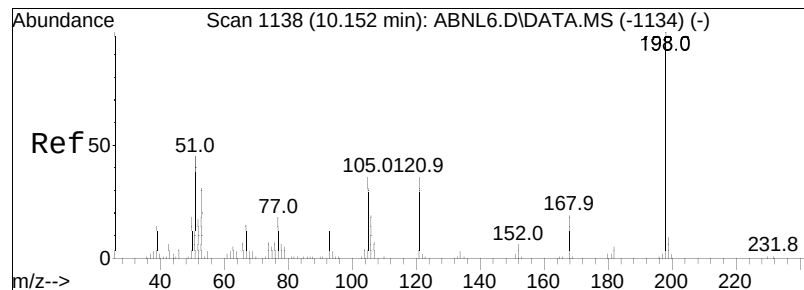
Lab File: 080671-5.D

Acq: 19 Jun 2025 5:25 pm



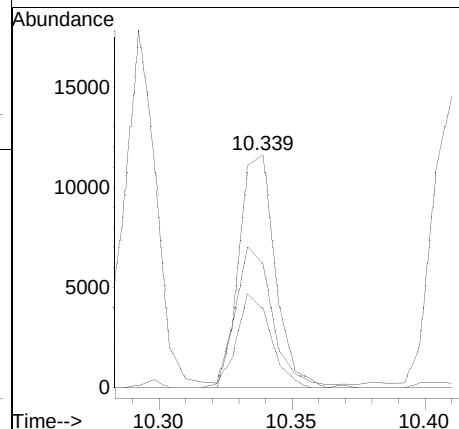
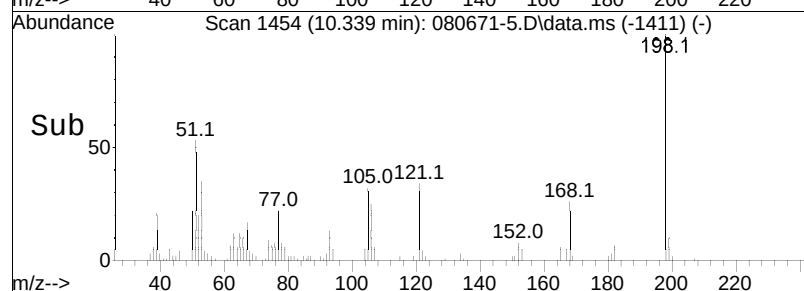
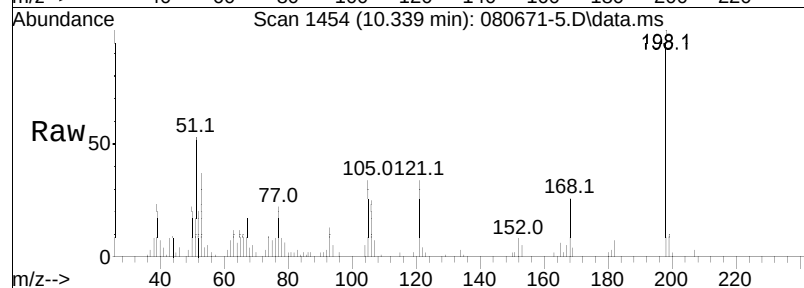
Tgt Ion:	138	Resp:	11063
Ion Ratio	Lower	Upper	
138	100		
108	73.6	52.1	78.1
65	136.8	115.0	172.6

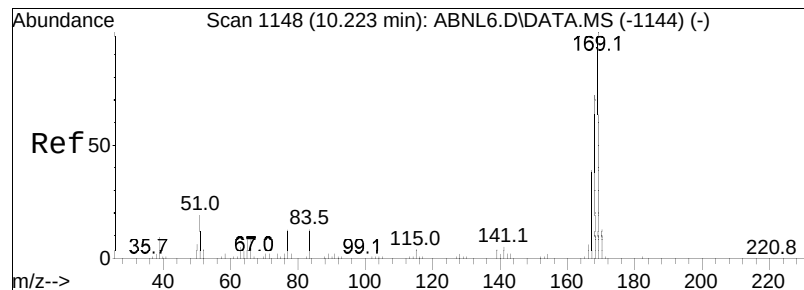




#76
 4,6-Dinitro-o-cresol
 Concen: 1.65 ug/ml
 RT: 10.339 min Scan# 1454
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

Tgt Ion	Ratio	Lower	Upper
198	100		
51	60.6	76.0	114.0#
105	38.3	45.6	68.4#





#77

NDPA/DPA

Concen: 1.36 ug/ml

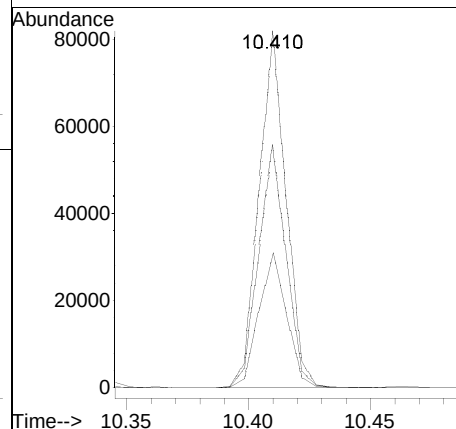
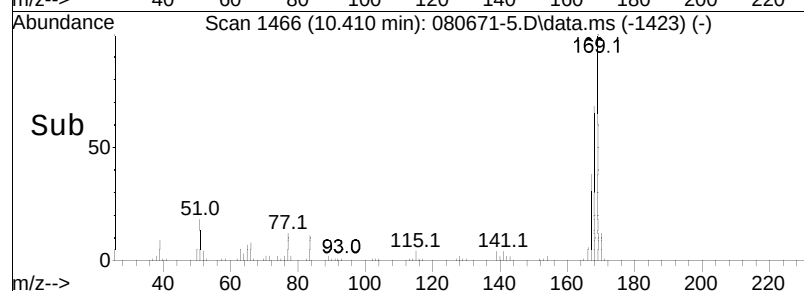
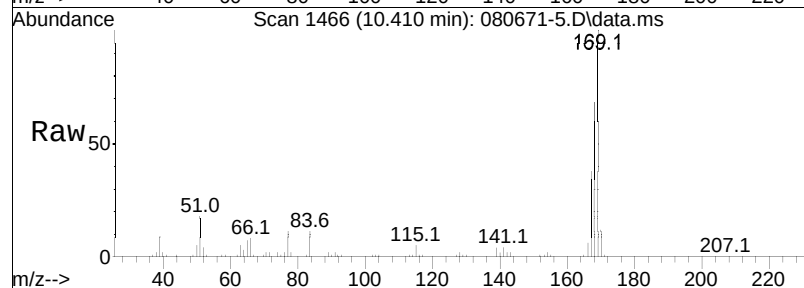
RT: 10.410 min Scan# 1466

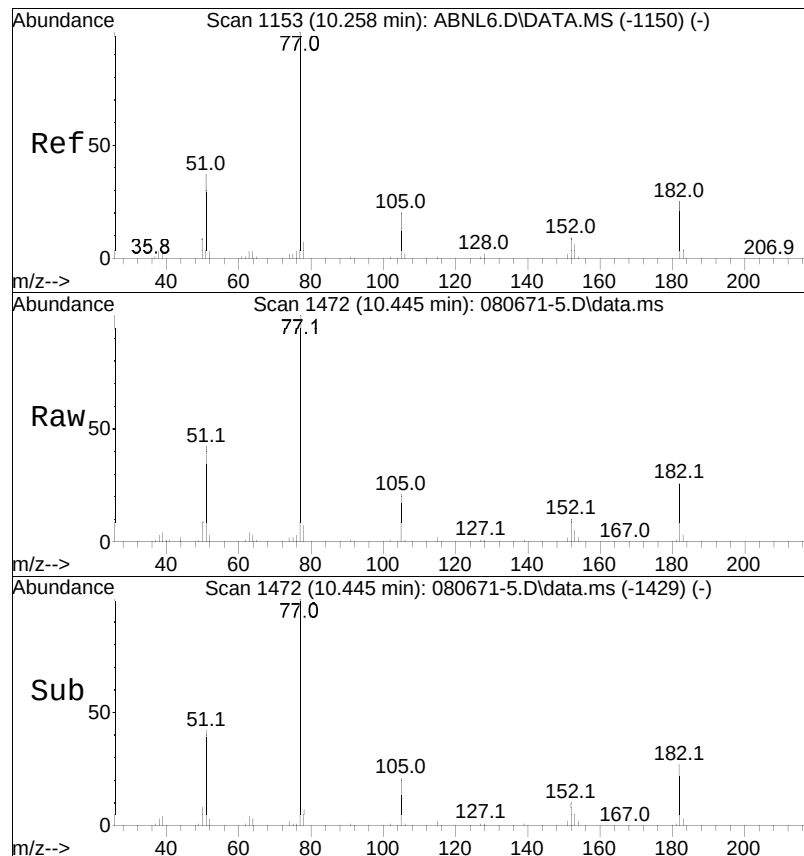
Delta R.T. 0.000 min

Lab File: 080671-5.D

Acq: 19 Jun 2025 5:25 pm

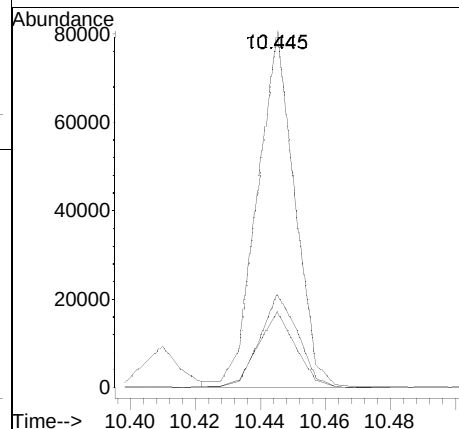
Tgt	Ion:169	Resp:	62965
Ion	Ratio	Lower	Upper
169	100		
168	69.3	54.0	81.0
167	39.4	28.6	42.8

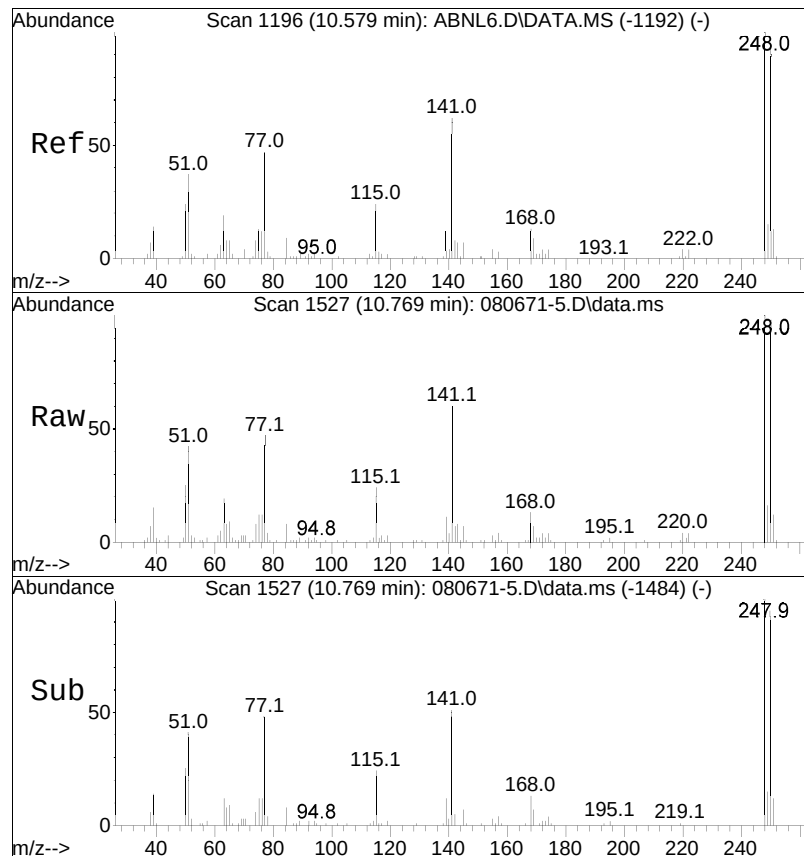




#78
 Azobenzene
 Concen: 1.44 ug/ml
 RT: 10.445 min Scan# 1472
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

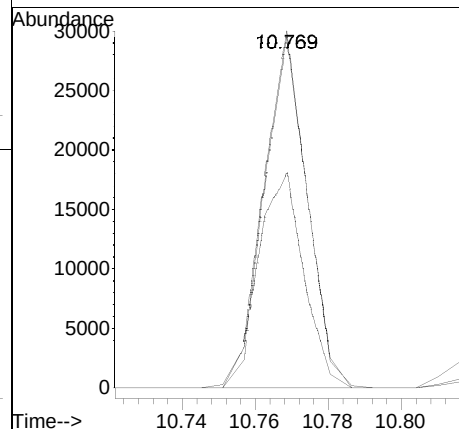
Tgt Ion	Ratio	Resp	Lower	Upper
77	100	63435		
182	27.4		17.4	26.2#
105	22.5		15.4	23.2

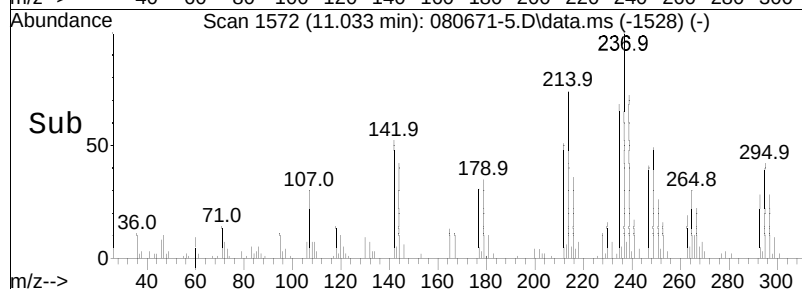
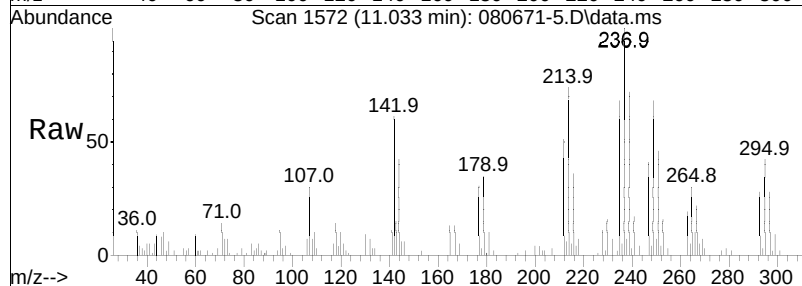
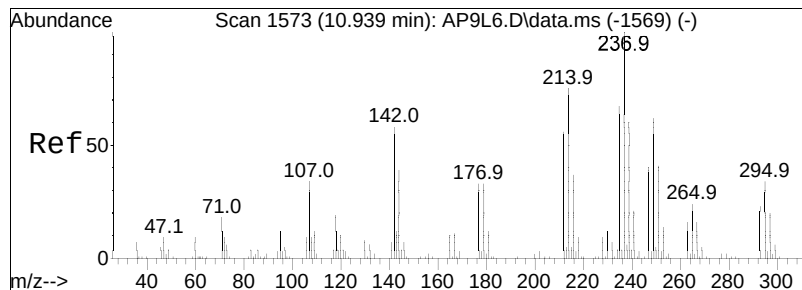




#80
 4-Bromophenyl phenyl ether
 Concen: 1.34 ug/ml
 RT: 10.769 min Scan# 1527
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

Tgt Ion:	248	Resp:	24405
Ion Ratio	Lower	Upper	
248	100		
141	64.6	76.6	114.8#
250	96.8	77.3	115.9





#85

Pentachloronitrobenzene

Concen: 1.98 ug/ml

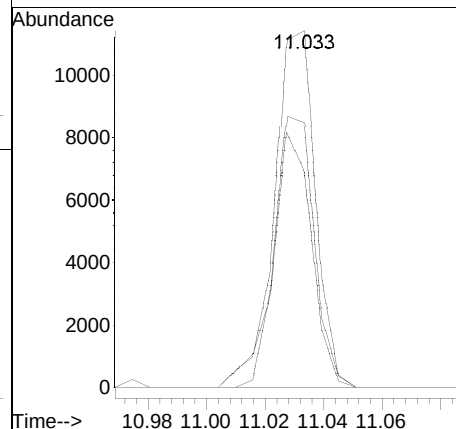
RT: 11.033 min Scan# 1572

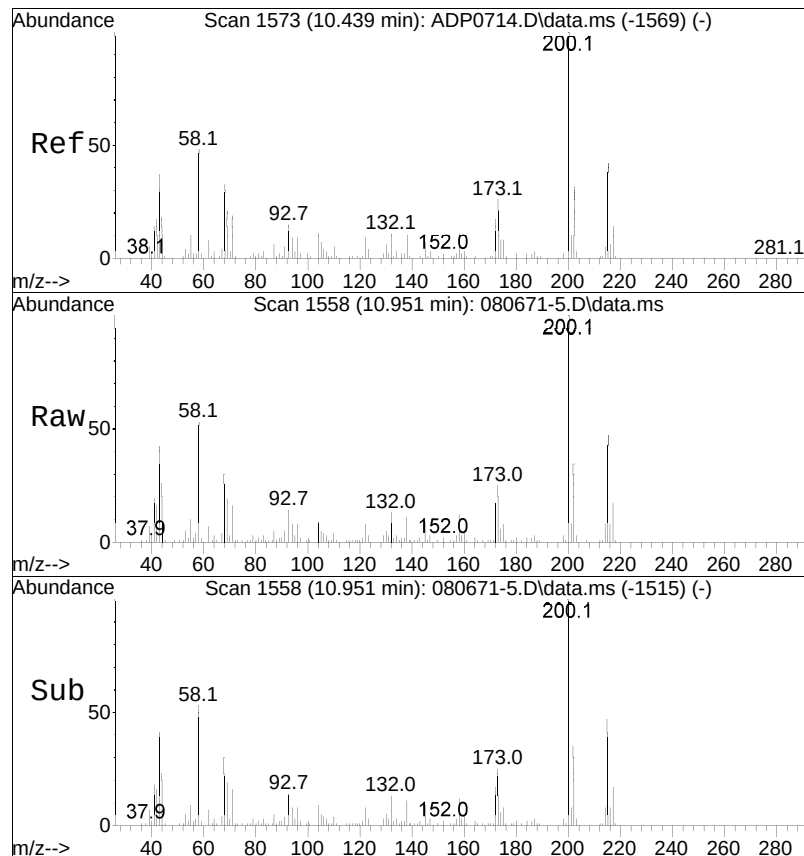
Delta R.T. 0.006 min

Lab File: 080671-5.D

Acq: 19 Jun 2025 5:25 pm

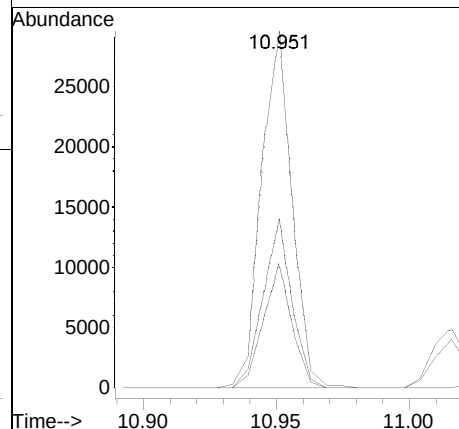
Tgt Ion	Ratio	Lower	Upper
237	100		
142	68.4	77.0	115.4#
214	72.8	58.2	87.4

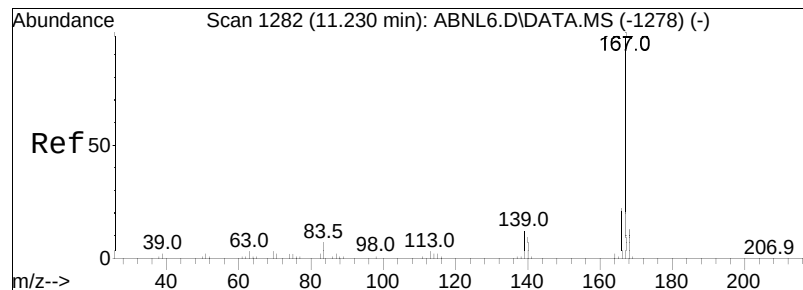




#87
 Atrazine
 Concen: 1.63 ug/ml
 RT: 10.951 min Scan# 1558
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

Tgt	Ion:200	Resp:	23414
Ion	Ratio	Lower	Upper
200	100		
202	32.6	25.8	38.6
215	44.8	40.2	60.4





#91

Carbazole

Concen: 1.62 ug/ml

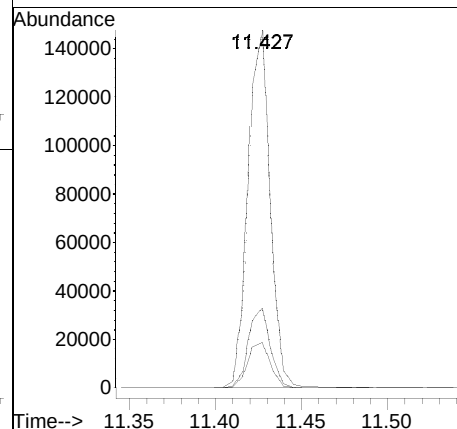
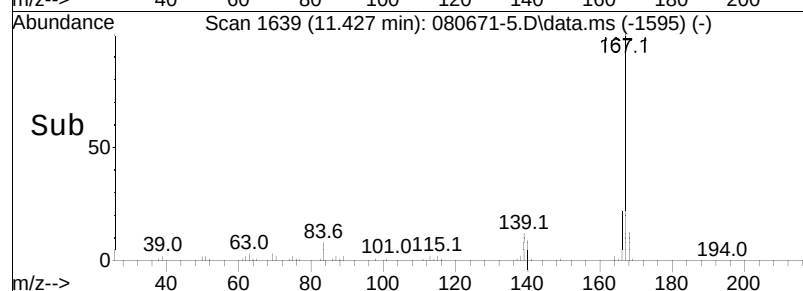
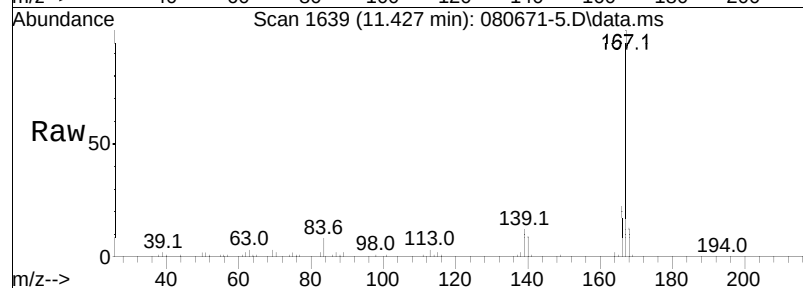
RT: 11.427 min Scan# 1639

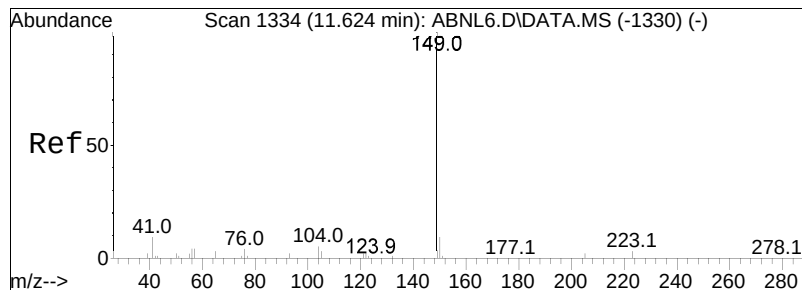
Delta R.T. 0.006 min

Lab File: 080671-5.D

Acq: 19 Jun 2025 5:25 pm

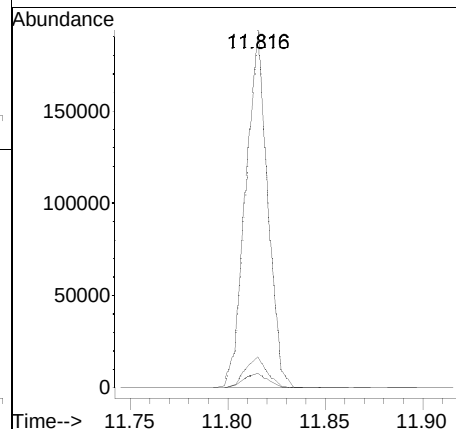
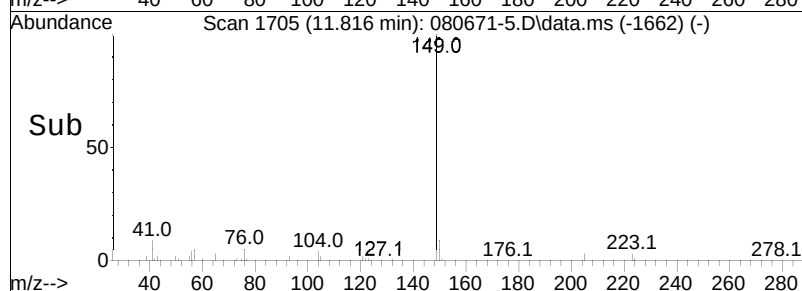
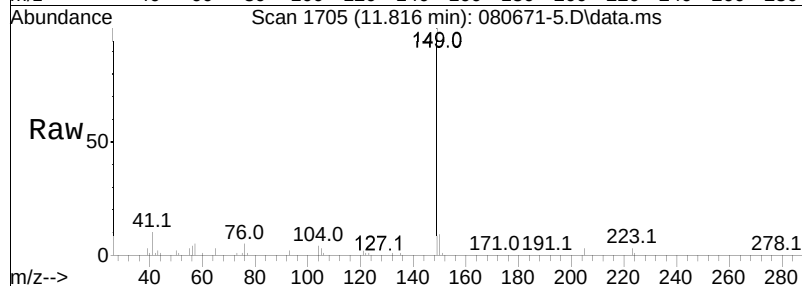
Tgt Ion	Ratio	Lower	Upper
167	100		
168	13.2	10.6	15.8
166	22.2	17.4	26.0

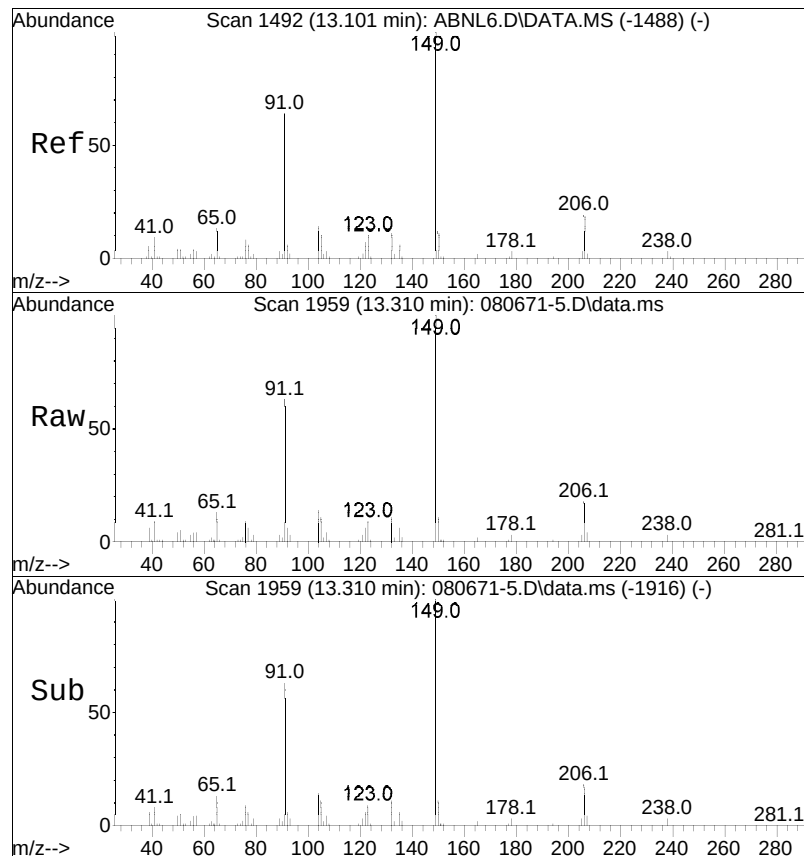




#92
 Di-n-butylphthalate
 Concen: 1.64 ug/ml
 RT: 11.816 min Scan# 1705
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

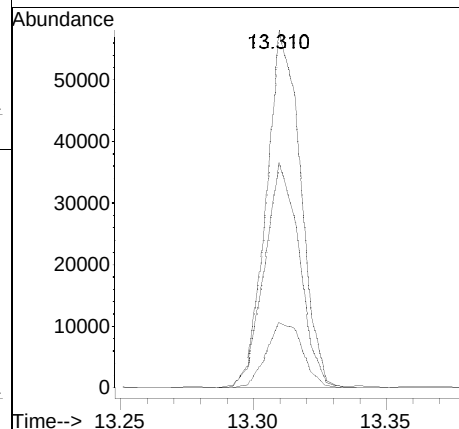
Tgt Ion:	149	Resp:	149299
Ion Ratio	Lower	Upper	
149	100		
150	8.7	7.0	10.6
104	4.6	4.5	6.7

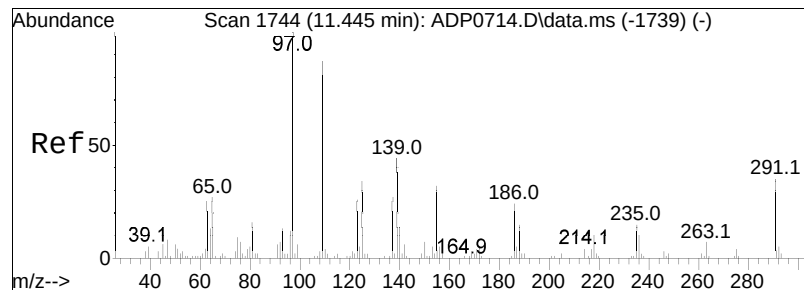




#97
 Butyl benzyl phthalate
 Concen: 1.53 ug/ml
 RT: 13.310 min Scan# 1959
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

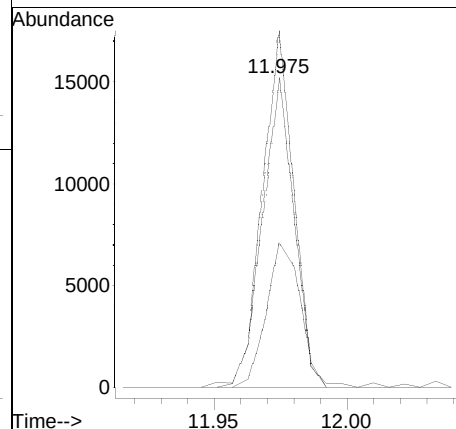
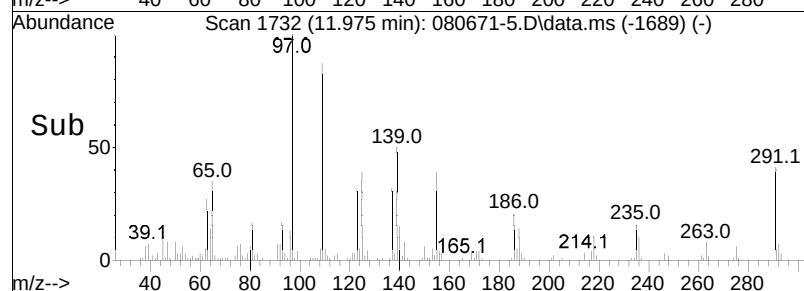
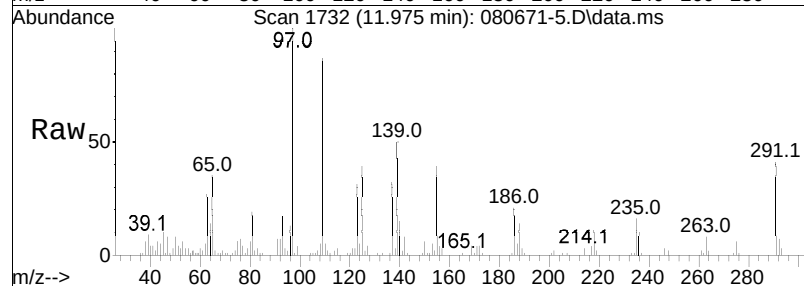
Tgt Ion:	149	Resp:	51680
Ion Ratio	Lower	Upper	
149	100		
91	65.1	63.3	94.9
206	19.4	13.9	20.9

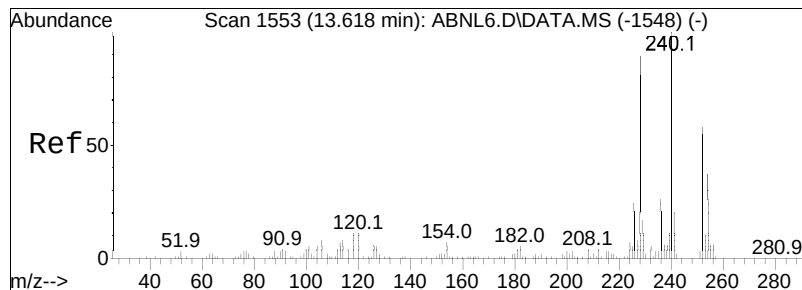




#102
 Parathion
 Concen: 2.93 ug/ml
 RT: 11.975 min Scan# 1732
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

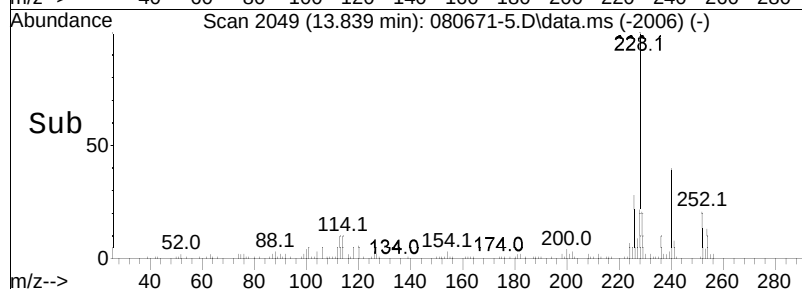
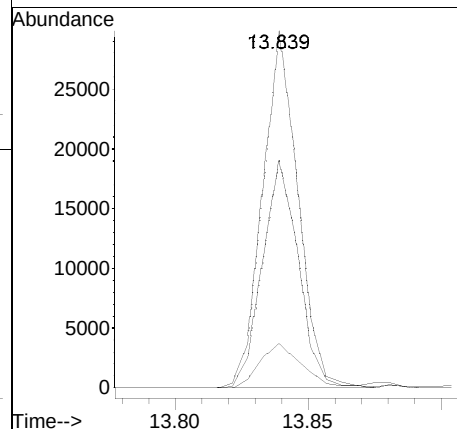
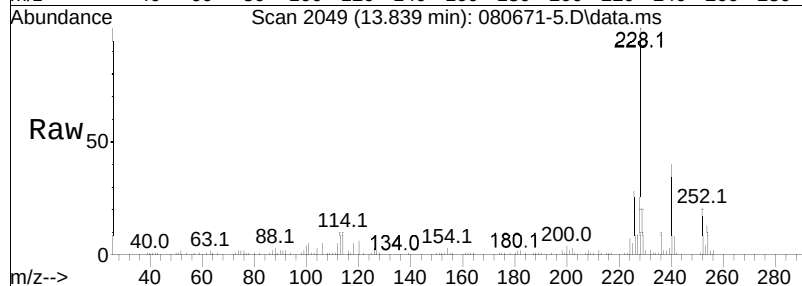
Tgt Ion	Ratio	Lower	Upper
109	100		
97	113.2	87.4	131.2
291	49.5	34.2	51.2

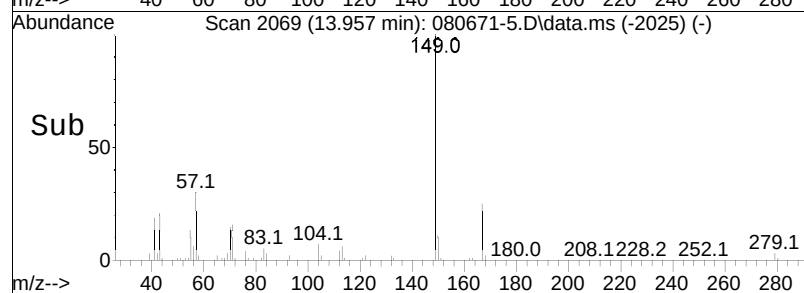
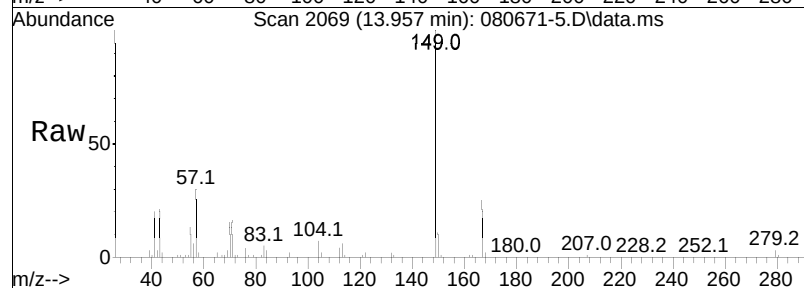
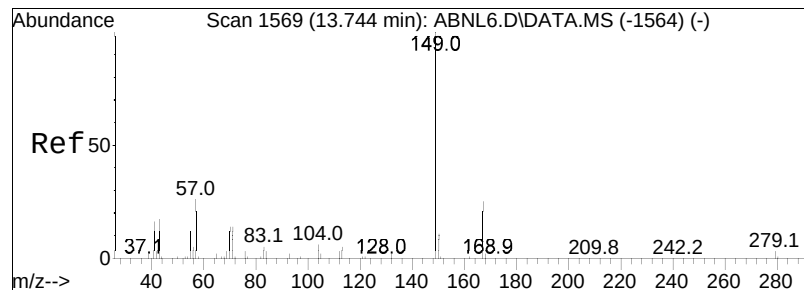




#106
 3,3'-Dichlorobenzidine
 Concen: 0.80 ug/ml
 RT: 13.839 min Scan# 2049
 Delta R.T. 0.000 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

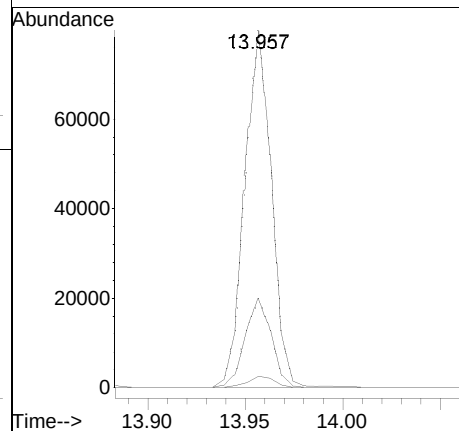
Tgt Ion	Ratio	Lower	Upper
252	100		
126	14.8	14.5	21.7
254	64.8	51.2	76.8

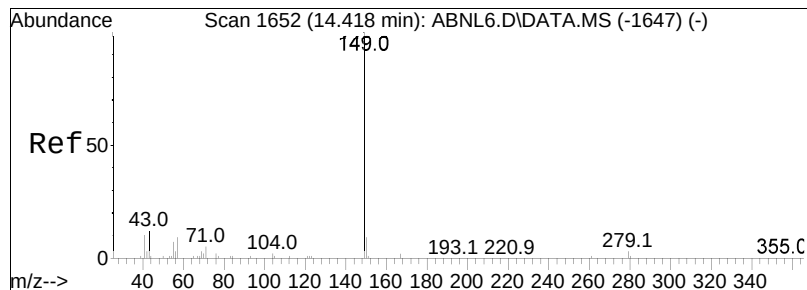




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 1.43 ug/ml
 RT: 13.957 min Scan# 2069
 Delta R.T. 0.006 min
 Lab File: 080671-5.D
 Acq: 19 Jun 2025 5:25 pm

Tgt	Ion	Ratio	Resp	Lower	Upper
149	100		75545		
167	24.7	22.1		33.1	
279	2.9	3.0		4.4	





#109

Di-n-octylphthalate

Concen: 1.48 ug/ml

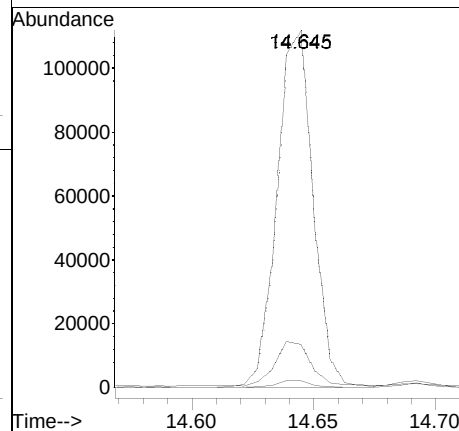
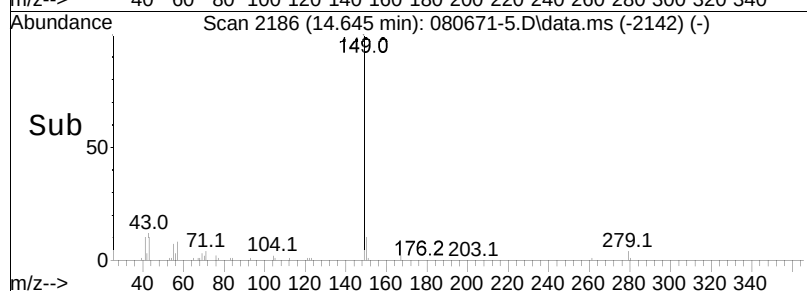
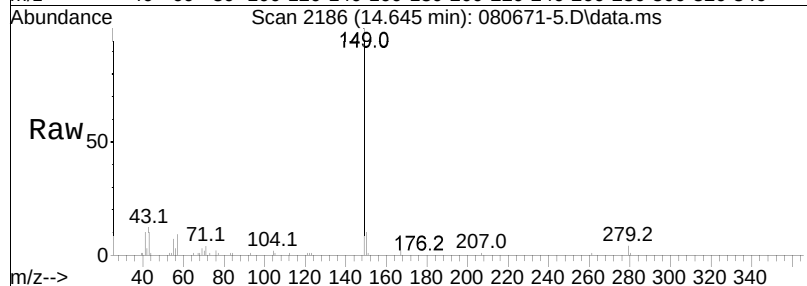
RT: 14.645 min Scan# 2186

Delta R.T. 0.006 min

Lab File: 080671-5.D

Acq: 19 Jun 2025 5:25 pm

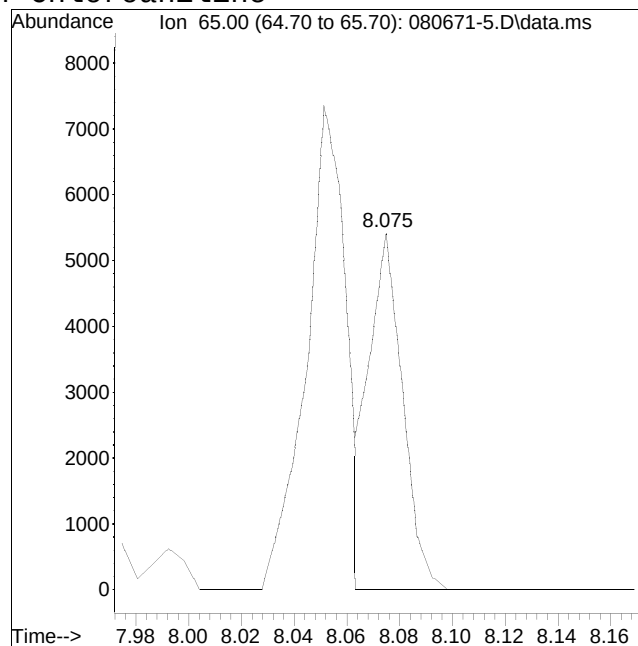
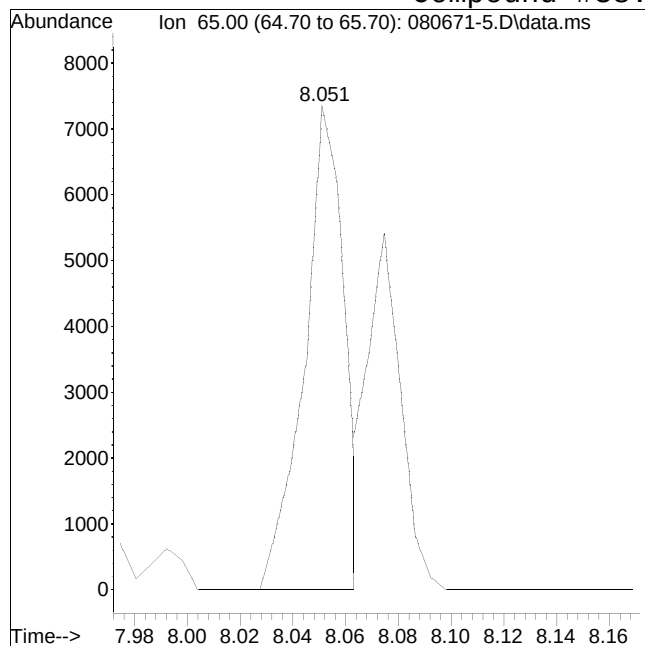
Tgt	Ion:149	Resp:	113378
Ion	Ratio	Lower	Upper
149	100		
43	12.9	18.8	28.2#
167	1.7	1.3	1.9



Manual Integration Report

Data Path : I:\8270\SV106\250619RVT\ QMethod : FS250311SV106.m
Data File : 080671-5.D Operator : SV106:jg
Date Inj'd : 6/19/2025 5:25 pm Instrument : SV 106
Sample : WG2080671-5,32,,gmr Quant Date : 6/19/2025 5:44 pm

Compound #38: 4-Chloroaniline



Original Peak Response = 7798

Manual Peak Response = 4657 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: $Amt * DF * 1000 * (1/V_o) * V_f$

Where:

DF = Dilution Factor

V_o = Volume of Sample (mL)

V_f = Extraction Lab Final Volume (mL)

Soil Concentration Formula: $Amt * DF * 1000 * (1/W_t) * V_f * (100/TS)$

Where:

DF = Dilution Factor

W_t = Weight of Sample (g)

V_f = Extraction Lab Final Volume (mL)

TS = Total Solids

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Jun 24 2025, 08:29 pm

Work Group: WG2080671 for Department: 2 Organic Preparation

Created: 18-JUN-25 Due: Operator: FMM

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2537087-01	PMW-1	C NYTCL-8270-RVT	WATER	DONE	U	0619	0623	S0	Amber-A.1
L2537087-02	PMW-2	C NYTCL-8270-RVT	WATER	DONE	U	0619	0623	S0	Amber-A.1
L2537087-03	PMW-3	C NYTCL-8270-RVT	WATER	DONE	U	0619	0623	S0	Amber-A.1
L2537087-04	PMW-4	C NYTCL-8270-RVT	WATER	DONE	U	0619	0623	S0	Amber-A.1
L2537087-05	DUP01_20250612	C NYTCL-8270-RVT	WATER	DONE	U	0619	0623	S0	Amber-A.1
L2537087-06	FB01_20250612	C NYTCL-8270-RVT	WATER	DONE	U	0619	0623	S0	Amber-A.1
L2537655-01	MW-11S	C NYTCL-8270-RVT	WATER	DONE	U	0623	0625	S0	Amber-A.1
L2537655-02	MW-11D	C NYTCL-8270-RVT	WATER	DONE	U	0623	0625	S0	Amber-A.1
L2537655-03	EQUIPMENT BLANK	C NYTCL-8270-RVT	WATER	DONE	U	0623	0625	S0	Amber-A.1
L2537655-04	MW-1DRZ	C NYTCL-8270-RVT	WATER	DONE	U	0623	0625	S0	Amber-A.1
L2537655-05	MW-1SR	C NYTCL-8270-RVT	WATER	DONE	U	0623	0625	S0	Amber-A.1
L2538013-01	MW-13S	C NYTCL-8270-RVT	WATER	DONE	U	0624	0625	S0	Amber-A.1
L2538013-02	MW-13D	C NYTCL-8270-RVT	WATER	DONE	U	0624	0625	S0	Amber-A.1
L2538013-03	DUP_06172025	C NYTCL-8270-RVT	WATER	DONE	U	0624	0625	S0	Amber-A.1
L2538013-04	MP-1S	C NYTCL-8270-RVT	WATER	DONE	U	0624	0625	S0	Amber-A.1
L2538013-05	MP-1D	C NYTCL-8270-RVT	WATER	DONE	U	0624	0625	S0	Amber-A.1
L2538013-06	PZ-6	C NYTCL-8270-RVT	WATER	DONE	U	0624	0625	S0	Amber-A.1
L2538013-07	MW-6D	C NYTCL-8270-RVT	WATER	DONE	U	0624	0625	S0	Amber-A.1
WG2080671-1	Laboratory Method Bl	S NYTCL-8270-RVT	WATER	DONE	U				
WG2080671-2	Laboratory Control S	S NYTCL-8270-RVT	WATER	DONE	U				
WG2080671-3	LCS Duplicate	S NYTCL-8270-RVT	WATER	DONE	U				
WG2080671-4	Matrix Spike	S NYTCL-8270-RVT	WATER	DONE	U				
WG2080671-5	Matrix Spike Duplica	S NYTCL-8270-RVT	WATER	DONE	U				
WG2080671-6	Matrix Spike	S NYTCL-8270-RVT	WATER	DONE	U				
WG2080671-7	Matrix Spike Duplica	S NYTCL-8270-RVT	WATER	DONE	U				
Comments:									
WG2080671-3	WG2080671-2								
WG2080671-4	L2537087-02								
WG2080671-5	L2537087-02								
WG2080671-6	L2538013-01								
WG2080671-7	L2538013-01								

Analysis log File

Total Files Reported in Log : 33

Log Generated From Directory: I:\8270\SV106\250311RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE	INJ'D
1	Tune1.D	ABNRVT (SIM).	Tune1 Lot# 11459	WG2039658,,ical	3/11/2025	4:27 pm
2	ABNL9.D	ABNRVT (SIM).	IL2,32,,ABNL50 Lot# 114	WG2039658,,ical	3/11/2025	4:50 pm
3	ABNL8.D	ABNRVT (SIM).	IL3,32,,ABNL25 Lot# 114	WG2039658,,ical	3/11/2025	5:14 pm
4	ABNL7.D	ABNRVT (SIM).	IL4,32,,ABNL10 Lot# 114	WG2039658,,ical	3/11/2025	5:37 pm
5	ABNL6.D	ABNRVT (SIM).	IL5,32,,ABNL5 Lot# 1142	WG2039658,,ical	3/11/2025	6:01 pm
6	ABNL5.D	ABNRVT (SIM).	IL6,32,,ABNL2.5 Lot# 11	WG2039658,,ical	3/11/2025	6:24 pm
7	ABNL4.D	ABNRVT (SIM).	IL7,32,,ABNL1 Lot# 1143	WG2039658,,ical	3/11/2025	6:48 pm
8	ABNL3.D	ABNRVT (SIM).	IL8,32,,ABNL0.5 Lot# 11	WG2039658,,ical	3/11/2025	7:11 pm
9	ABNL2.D	ABNRVT (SIM).	IL9,32,,ABNL0.2 Lot# 11	WG2039658,,ical	3/11/2025	7:34 pm
10	ABNL1.D	ABNRVT (SIM).	IL10,32,,ABNL0.1 Lot# 1	WG2039658,,ical	3/11/2025	7:58 pm
11	ABNICV.D	ABNRVT (SIM).	CQICV1,32,,ABNICV Lot#	WG2039658,,ical	3/11/2025	10:18 pm
12	Tune2.D	ABNRVT (SIM).	Tune2 Lot# 11459	WG2039658,,ical	3/11/2025	11:05 pm
13	AP9L9.D	ABNRVT (SIM).	IL2,32,,AP9L50 Lot# 114	WG2039658,,ical	3/11/2025	11:29 pm
14	AP9L8.D	ABNRVT (SIM).	IL3,32,,AP9L25 Lot# 114	WG2039658,,ical	3/11/2025	11:52 pm
15	AP9L6.D	ABNRVT (SIM).	IL5,32,,AP9L5 Lot# 1143	WG2039658,,ical	3/12/2025	12:39 am
16	AP9L7.D	ABNRVT (SIM).	IL4,32,,AP9L10 Lot# 114	WG2039658,,ical	3/12/2025	12:15 am
17	AP9L5.D	ABNRVT (SIM).	IL6,32,,AP9L2.5 Lot# 11	WG2039658,,ical	3/12/2025	1:02 am
18	AP9L4.D	ABNRVT (SIM).	IL7,32,,AP9L1 Lot# 1143	WG2039658,,ical	3/12/2025	1:26 am
19	AP9L3.D	ABNRVT (SIM).	IL8,32,,AP9L0.5 Lot# 11	WG2039658,,ical	3/12/2025	1:49 am
20	AP9L2.D	ABNRVT (SIM).	IL9,32,,AP9L0.2 Lot# 11	WG2039658,,ical	3/12/2025	2:12 am
21	AP9L1.D	ABNRVT (SIM).	IL10,32,,AP9L0.1 Lot# 1	WG2039658,,ical	3/12/2025	2:36 am
22	ADPL9.D	ABNRVT (SIM).	IL2,32,,ADPL50 Lot# 114	WG2039658,,ical	3/12/2025	2:59 am
23	ADPL8.D	ABNRVT (SIM).	IL3,32,,ADPL25 Lot# 114	WG2039658,,ical	3/12/2025	3:23 am
24	ADPL7.D	ABNRVT (SIM).	IL4,32,,ADPL10 Lot# 114	WG2039658,,ical	3/12/2025	3:46 am
25	ADPL6.D	ABNRVT (SIM).	IL5,32,,ADPL5 Lot# 1144	WG2039658,,ical	3/12/2025	4:09 am
26	ADPL5.D	ABNRVT (SIM).	IL6,32,,ADPL2.5 Lot# 11	WG2039658,,ical	3/12/2025	4:33 am
27	ADPL4.D	ABNRVT (SIM).	IL7,32,,ADPL1 Lot# 1144	WG2039658,,ical	3/12/2025	4:56 am
28	ADPL3.D	ABNRVT (SIM).	IL8,32,,ADPL0.5 Lot# 11	WG2039658,,ical	3/12/2025	5:20 am
29	ADPL2.D	ABNRVT (SIM).	IL9,32,,ADPL0.2 Lot# 11	WG2039658,,ical	3/12/2025	5:43 am
30	ADPL1.D	ABNRVT (SIM).	IL10,32,,ADPL0.1 Lot# 1	WG2039658,,ical	3/12/2025	6:06 am
31	AP9ICV.D	ABNRVT (SIM).	CQICV2,32,,AP9ICV Lot#	WG2039658,,ical	3/12/2025	6:30 am
32	ADPICV.D	ABNRVT (SIM).	CQICV,32,,ADPICV Lot# 1	WG2039658,,ical	3/12/2025	6:53 am
33	Blank.D	ABNRVT (SIM).	RVT Instrument Blank	wg,,ical	3/12/2025	7:16 am

Dep.: GCMS
 Inst: DAKOTA
 Date: **04/13/25**
 Run: **ICAL**

Method
 GC: ABNRVT
 Seq: **WG2080969**
 ICAL: 22203



Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
100	Tune1	Tune1 Lot # 11483				
1	ABNL9	IL2,32,,ABNL50 Lot# 11532	Full List			
2	ABNL8	IL3,32,,ABNL25 Lot# 11533				
3	ABNL7	IL4,32,,ABNL10 Lot# 11534				
4	ABNL6	IL5,32,,ABNL5 Lot# 11535				
5	ABNL5	IL6,32,,ABNL2.5 Lot# 11536				
6	ABNL4	IL7,32,,ABNL1 Lot# 11537				
7	ABNL3	IL8,32,,ABNL0.5 Lot# 11538				
8	ABNL2	IL9,32,,ABNL0.2 Lot# 11539				
9	ABNL1	IL10,32,,ABNL0.1 Lot# 11540				
10	AP9L9	IL2,32,,AP9L50 Lot# 11541				
11	AP9L8	IL3,32,,AP9L25 Lot# 11542				
12	AP9L7	IL4,32,,AP9L10 Lot# 11543				
13	AP9L6	IL5,32,,AP9L5 Lot# 11544				
14	AP9L5	IL6,32,,AP9L2.5 Lot# 11545				
15	AP9L4	IL7,32,,AP9L1 Lot# 11546				
16	AP9L3	IL8,32,,AP9L0.5 Lot# 11547				
17	AP9L2	IL9,32,,AP9L0.2 Lot# 11548				
18	AP9L1	IL10,32,,AP9L0.1 Lot# 11549				
19	ABNICV	CQICV1,32,,ABNICV Lot# 11559				
20	AP9ICV	CQICV2,32,,AP9ICV Lot# 11560				
100	Tune2	Tune2 Lot # 11483				
21	ADPL9	IL2,32,,ADPL50 Lot# 11550				
22	ADPL8	IL3,32,,ADPL25 Lot# 11551				
23	ADPL7	IL4,32,,ADPL10 Lot# 11552				
24	ADPL6	IL5,32,,ADPL5 Lot# 11553				
25	ADPL5	IL6,32,,ADPL2.5 Lot# 11554				
26	ADPL4	IL7,32,,ADPL1 Lot# 11555				
27	ADPL3	IL8,32,,ADPL0.5 Lot# 11556				
28	ADPL2	IL9,32,,ADPL0.2 Lot# 11557				
29	ADPL1	IL10,32,,ADPL0.1 Lot# 11558				
30	ADPICV	CQICV,32,,ADPICV Lot# 11561				
31	Blank	Instrument Blank			mrg	
					sv-gmr	

Dep.: GCMS
 Inst: SV106
 Date: **06/19/25**
 Run:

Method
 GC: ABNRVT

Seq: **WG2080865**
 ICAL: **22075**



Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
141	DEG0619	wg-1,32,,SV106 Degdftpp Lot # 11649				smz 6/19
142	ABN0619	wg-3,32,,ABN 11297 HNY0523C	Full List: Some Outages			smz 6/19
143	AP90619	wg-4,32,,AP9 11482 HNY0523C				smz 6/19
144	ADP0619	wg-5,32,,ADP 11661 dv0617A				smz 6/19
1	080736-1	WG2080736-1,32,,gmr				smz 6/19
2	080736-2	WG2080736-2,32,,gmr				smz 6/19
3	080736-3	WG2080736-3,32,,gmr				smz 6/19
4	37083-01	L2537083-01,32,,R3E,gmr				smz 6/19
5	080671-2	WG2080671-2,32,,gmr				
6	080671-3	WG2080671-3,32,,gmr				
7	080671-1	WG2080671-1,32,,gmr				
8	080289-1	WG2080289-1,32,,gmr			sv-smz	
9	080289-2	WG2080289-2,32,,gmr				
10	080289-3	WG2080289-3,32,,gmr				
11	080290-1	WG2080290-1,32,,gmr	rv, wrong IS	jg		
12	080290-2	WG2080290-2,32,,gmr	rv, wrong IS	jg		
13	080290-3	WG2080290-3,32,,gmr	rv, wrong IS	jg	gmr	
14	80190-1	WG2080190-1,32,,rv				smz 6/19
15	80190-2	WG2080190-2,32,,rv				smz 6/19
16	80190-3	WG2080190-3,32,,rv				smz 6/19
17	35037-01	I2535037-01,32,,rv				smz 6/19
18	35172-01	I2535172-01,32,,rv				smz 6/19
19	35174-01	I2535174-01,32,,rv			sv jg	smz 6/19
20	35451-01	L2535451-01,32,,gmr	rv, wrong IS	jg		
21	37087-01	L2537087-01,32,,gmr				6/21jg
22	37087-02	L2537087-02,32,,gmr				6/21jg
23	080671-4	WG2080671-4,32,,gmr				6/21jg
24	080671-5	WG2080671-5,32,,gmr				6/21jg
25	37087-03	L2537087-03,32,,gmr				6/21jg
26	37087-04	L2537087-04,32,,gmr			smz	6/21jg
					sv-mrg	

Dep.: GCMS
 Inst: DAKOTA
 Date: 06/19/25
 Run:

Method
 GC: ABNRVT
 Seq: **WG2080969**
 ICAL: 22203



Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
100	DEG0619	wg-1,32,,Degdfttp Lot # 11649				slr 6/20
96	ABN0619	wg-3,32,,ABN 11297 HNY052	Passing full list, Pyridine low			slr 6/20
97	AP90619	wg-4,32,,AP9 11482 HNY0523C				slr 6/20
98	ADP0619	wg-5,32,,ADP 11661 dv0617A				slr 6/20
1	080412-1	WG2080412-1,32,,gmr				6/24jg
2	080412-2	WG2080412-2,32,,gmr				6/24jg
3	080412-3	WG2080412-3,32,,gmr				6/24jg
4	37297-01	L2537297-01,32,,gmr				6/24jg
5	37655-01	L2537655-01,32,,gmr				6/24jg
6	37655-02	L2537655-02,32,,gmr				6/24jg
7	37655-03	L2537655-03,32,,gmr				6/24jg
8	37655-04	L2537655-04,32,,gmr				6/24jg
9	37655-05	L2537655-05,32,,gmr				6/24jg
10	38013-01	L2538013-01,32,,gmr				6/24jg
11	080671-6	WG2080671-6,32,,gmr				6/24jg
12	080671-7	WG2080671-7,32,,gmr				6/24jg
13	38013-02	L2538013-02,32,,gmr				6/24jg
14	38013-03	L2538013-03,32,,gmr				6/24jg
15	38013-04	L2538013-04,32,,gmr				6/24jg
16	38013-05	L2538013-05,32,,gmr				6/24jg
17	38013-06	L2538013-06,32,,gmr				6/24jg
18	38013-07	L2538013-07,32,,gmr				6/24jg
19	080412-5	WG2080412-5,32,,gmr				6/24jg
20	080412-4	WG2080412-4,32,,gmr				6/24jg
21	37046-03	L2537046-03,32,,gmr				6/24jg
22	37046-02	L2537046-02,32,,gmr				6/24jg
23	37033-05	L2537033-05,32,,gmr			gmr	6/24jg
24	6851-03	L2536851-03d,32,5,jg				slr 6/20
25	6851-04	L2536851-04d,32,5,jg	RX; surr <10%			slr 6/20
26	6851-05	L2536851-05d,32,10,jg				slr 6/20
27	6851-07	L2536851-07d,32,5,jg				slr 6/20
28	6870-01	L2536870-01d,32,5,jg			jg	slr 6/20
					sv-mrg	



ORGANIC ELN REPORT

Workgroup: WG2080671

Prep Method: EPA 3510C Solvent Type: DCM Surrogate Type: ABN Spike Type: ABN Spike Verify by: FMM Lims Spikelot: 8270-RVT Additional Reagents/Std <table><tr><td>H2SO4</td><td>A052325</td></tr><tr><td>Na2SO4</td><td>244434</td></tr><tr><td>NaOH</td><td>10NNaOH061425</td></tr></table>	H2SO4	A052325	Na2SO4	244434	NaOH	10NNaOH061425	Conc.Method: Buchi Solvent Type: DCM Lot #: ek096 Additional Reagents/Std	Cleanup 1 Cleanup Method 1: Cleanup Method 2: Solvent Type: Lot #: Additional Reagents/Std
H2SO4	A052325							
Na2SO4	244434							
NaOH	10NNaOH061425							

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
L2537087-01 WATER	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1		06/19/25 01:25	Samy Dakkash	1	G
L2537087-02 WATER	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1		06/19/25 01:25	Samy Dakkash	1	G
L2537087-03 WATER	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1		06/19/25 01:25	Samy Dakkash	1	G
L2537087-04 WATER	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1		06/19/25 01:25	Samy Dakkash	1	G
L2537087-05 WATER	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1		06/19/25 01:25	Samy Dakkash	1	G



ORGANIC ELN REPORT

Workgroup: WG2080671

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
L2537087-06 WATER	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1		06/19/25 01:25	Samy Dakkash	1	G
L2537655-01 WATER	06/19/25 00:23	Henry Otoo	100	<2,>12	.1		06/19/25 03:23	Samy Dakkash	1	K
L2537655-02 WATER	06/19/25 00:23	Henry Otoo	100	<2,>12	.1		06/19/25 03:23	Samy Dakkash	1	K
L2537655-03 WATER	06/19/25 00:23	Henry Otoo	100	<2,>12	.1		06/19/25 03:23	Samy Dakkash	1	K
L2537655-04 WATER	06/19/25 00:23	Henry Otoo	100	<2,>12	.1		06/19/25 03:23	Samy Dakkash	1	K
L2537655-05 WATER	06/19/25 00:23	Henry Otoo	100	<2,>12	.1		06/19/25 03:23	Samy Dakkash	1	K
L2538013-01 SAMP	06/19/25 00:23	Henry Otoo	100	<2,>12	.1		06/19/25 03:23	Samy Dakkash	1	K
L2538013-02 SAMP	06/19/25 00:23	Henry Otoo	100	<2,>12	.1		06/19/25 03:23	Samy Dakkash	1	K
L2538013-03 SAMP	06/19/25 00:23	Henry Otoo	100	<2,>12	.1		06/19/25 03:23	Samy Dakkash	1	K



ORGANIC ELN REPORT

Workgroup: WG2080671

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
L2538013-04 SAMP	06/19/25 00:23	Henry Otoo	100	<2,>12	.1		06/19/25 03:23	Samy Dakkash	1	K
L2538013-05 SAMP	06/19/25 00:23	Henry Otoo	100	<2,>12	.1		06/19/25 03:23	Samy Dakkash	1	K
L2538013-06 SAMP	06/19/25 00:23	Henry Otoo	100	<2,>12	.1		06/19/25 03:23	Samy Dakkash	1	K
L2538013-07 SAMP	06/19/25 00:23	Henry Otoo	100	<2,>12	.1		06/19/25 03:23	Samy Dakkash	1	K
WG2080671-1 BLANK	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1		06/19/25 01:25	Samy Dakkash	1	G
WG2080673							ma			
WG2080671-2 LCS	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1	.1	06/19/25 01:25	Samy Dakkash	1	G
WG2080671-3 LCSD	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1	.1	06/19/25 01:25	Samy Dakkash	1	G
WG2080671-4 MS	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1	.1	06/19/25 01:25	Samy Dakkash	1	G
WG2080671-5 MSD	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1	.1	06/19/25 01:25	Samy Dakkash	1	G



ORGANIC ELN REPORT

Workgroup: WG2080671

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
WG2080671 -6 MS	06/19/25 00:23	Henry Otoo	100	<2,>12	.1	.1	06/19/25 03:23	Samy Dakkash	1	K
WG2080671 -7 MSD	06/19/25 00:23	Henry Otoo	100	<2,>12	.1	.1	06/19/25 03:23	Samy Dakkash	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: L2537655
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-11S (L2537655-01)	46	37	94	81	78	83	0
MW-11D (L2537655-02)	43	35	98	84	72	82	0
EQUIPMENT BLANK (L2537655-03)	24	23	75	67	41	69	0
MW-1DRZ (L2537655-04)	33	31	87	78	55	76	0
MW-1SR (L2537655-05)	44	38	77	69	64	65	0
WG2080673-1BLANK	48	35	68	72	70	81	0
WG2080673-2LCS	56	42	68	73	82	81	0
WG2080673-3LCSD	42	33	57	62	81	83	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 : L2537655
 Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG2080673-2 Analysis Date : 06/19/25 14:16 File ID : 080673-2
 LCSD Sample ID : WG2080673-3 Analysis Date : 06/19/25 14:33 File ID : 080673-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Acenaphthene	20	14	70	20	12	63	11	40-140	40
2-Chloronaphthalene	20	13	66	20	11	57	15	40-140	40
Fluoranthene	20	15	74	20	15	76	3	40-140	40
Hexachlorobutadiene	20	12	58	20	8.6	43	30	40-140	40
Naphthalene	20	13	64	20	10	52	21	40-140	40
Benzo(a)anthracene	20	15	76	20	16	82	8	40-140	40
Benzo(a)pyrene	20	16	79	20	17	85	7	40-140	40
Benzo(b)fluoranthene	20	16	80	20	17	86	7	40-140	40
Benzo(k)fluoranthene	20	16	81	20	18	88	8	40-140	40
Chrysene	20	16	78	20	16	82	5	40-140	40
Acenaphthylene	20	14	69	20	12	62	11	40-140	40
Anthracene	20	15	75	20	15	76	1	40-140	40
Benzo(ghi)perylene	20	15	75	20	16	80	6	40-140	40
Fluorene	20	14	72	20	14	68	6	40-140	40
Phenanthrene	20	14	71	20	14	71	0	40-140	40
Dibenzo(a,h)anthracene	20	14	71	20	15	75	5	40-140	40
Indeno(1,2,3-cd)pyrene	20	13	67	20	15	73	9	40-140	40
Pyrene	20	15	73	20	15	75	3	40-140	40
2-Methylnaphthalene	20	13	66	20	11	55	18	40-140	40
Pentachlorophenol	20	18	90	20	19	94	4	40-140	40
Hexachlorobenzene	20	15	74	20	14	73	1	40-140	40
Hexachloroethane	20	12	59	20	8.6	43	31	40-140	40
Bis(2-chloroethyl)ether	20	14	70	20	11	55	24	40-140	40



**Method Blank Summary
Form 4
Semivolatiles**

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab Sample ID	: WG2080673-1	Lab File ID	: 080673-1
Instrument ID	: SV119	Extraction Date	: 06/18/25
Matrix	: WATER	Analysis Date	: 06/19/25 14:00
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2080673-2LCS	WG2080673-2	06/19/25 14:16
WG2080673-3LCSD	WG2080673-3	06/19/25 14:33
MW-11S	L2537655-01	06/25/25 14:22
MW-11D	L2537655-02	06/25/25 14:39
EQUIPMENT BLANK	L2537655-03	06/25/25 17:47
MW-1DRZ	L2537655-04	06/25/25 18:04
MW-1SR	L2537655-05	06/25/25 18:21



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

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : SV118	Analysis Date : 02/03/25 15:28
Tune Standard : R1929042-11	Tune File ID : TUNEa_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	52
68	Less than 2.0% of mass 69	0.6 (1.4)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	52.5
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	25.7
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	18.2
442	Base Peak, or >50% of mass 198	78
443	15.0 - 24.0% of mass 442	14.7 (18.8)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	R1929042-2	L10	02/03/25 15:47
L9	R1929042-10	L9	02/03/25 16:04
L8	R1929042-7	L8	02/03/25 16:20
L7	R1929042-9	L7	02/03/25 16:38
L6	R1929042-8	L6	02/03/25 16:55
L5	R1929042-6	L5	02/03/25 17:12
L4	R1929042-5	L4	02/03/25 17:29
L3	R1929042-4	L3	02/03/25 17:46
L2	R1929042-3	L2	02/03/25 18:03
L1	R1929042-1	L1	02/03/25 18:20
ICV Quant Report	R1929042-12	ICV	02/03/25 18:37



Instrument Performance Check (Tune) Summary

Form 5

Semivolatiles

Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: SV118	Analysis Date	: 06/25/25 09:12
Tune Standard	: WG2083275-1	Tune File ID	: deg0625_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	57
68	Less than 2.0% of mass 69	0.7 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.3 (.6)1
127	10.0 - 80.0% of Base Peak	56
197	Less than 2.0% of mass 198	0.5
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	23.7
365	Greater than 1.0% of mass 198	2.5
441	Present, but less than 24% of mass 442	16.2
442	Base Peak, or >50% of mass 198	88.5
443	15.0 - 24.0% of mass 442	15.7 (17.7)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
WG2083275-4TFACTOR-B	WG2083275-4	DEG0625	06/25/25 09:12
WG2083275-5TFACTOR-P	WG2083275-5	DEG0625	06/25/25 09:12
WG2083275-3CCAL	WG2083275-3	CCV0625A	06/25/25 09:49
MW-11S	L2537655-01	37655-01	06/25/25 14:22
MW-11D	L2537655-02	37655-02	06/25/25 14:39
EQUIPMENT BLANK	L2537655-03	37655-03	06/25/25 17:47
MW-1DRZ	L2537655-04	37655-04	06/25/25 18:04
MW-1SR	L2537655-05	37655-05	06/25/25 18:21



Instrument Performance Check (Tune) Summary

Form 5

Semivolatiles

Decafluorotriphenylphosphine (DFTPP)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : SV119	Analysis Date : 06/18/25 18:07
Tune Standard : R1978820-12	Tune File ID : TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	52.8
68	Less than 2.0% of mass 69	0.9 (2)1
69		100
70	Less than 2.0% of mass 69	0.3 (.7)1
127	10.0 - 80.0% of Base Peak	54.3
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	6.4
275	10.0 - 60.0% of Base Peak	25.4
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than 24% of mass 442	19.6
442	Base Peak, or >50% of mass 198	77.4
443	15.0 - 24.0% of mass 442	15 (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
L10	R1978820-3	L10	06/18/25 18:34
L9	R1978820-9	L9	06/18/25 18:50
L8	R1978820-10	L8	06/18/25 19:07
L7	R1978820-8	L7	06/18/25 19:23
L6	R1978820-7	L6	06/18/25 19:40
L5	R1978820-5	L5	06/18/25 19:56
L4	R1978820-6	L4	06/18/25 20:13
L3	R1978820-2	L3	06/18/25 20:30
L2	R1978820-4	L2	06/18/25 20:46
L1	R1978820-1	L1	06/18/25 21:03
ICV Quant Report	R1978820-11	ICV	06/18/25 21:19



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

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : SV119	Analysis Date : 06/19/25 12:55
Tune Standard : WG2081054-1	Tune File ID : deg0619_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	48.8
68	Less than 2.0% of mass 69	0.7 (1.6)1
70	Less than 2.0% of mass 69	0.3 (.6)1
127	10.0 - 80.0% of Base Peak	51
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	6.3
275	10.0 - 60.0% of Base Peak	24.6
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	19.8
442	Base Peak, or >50% of mass 198	76
443	15.0 - 24.0% of mass 442	15.5 (20.4)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
WG2081054-4TFACTOR-B	WG2081054-4	DEG0619	06/19/25 12:55
WG2081054-5TFACTOR-P	WG2081054-5	DEG0619	06/19/25 12:55
WG2081054-3CCAL	WG2081054-3	CCV0619	06/19/25 13:12
WG2080673-1BLANK	WG2080673-1	080673-1	06/19/25 14:00
WG2080673-2LCS	WG2080673-2	080673-2	06/19/25 14:16
WG2080673-3LCSD	WG2080673-3	080673-3	06/19/25 14:33



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV119
 Sample No : WG2081054-3

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Analysis Date : 06/19/25 13:12:00
 Lab File ID : CCV0619

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2081054-3	283963	2.34	1080714	3.01	647598	3.99
Upper Limit	567926	2.84	2161428	3.51	1295196	4.49
Lower Limit	141982	1.84	540357	2.51	323799	3.49
Sample ID						
WG2080673-1 BLANK	343761	2.33	1283885	3.00	756551	3.98
WG2080673-2 LCS	354150	2.33	1347422	3.00	786885	3.98
WG2080673-3 LCSD	367546	2.33	1406901	3.00	830093	3.98

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
 Project Name : CORAM MATERIALS
 Instrument ID : SV119
 Sample No : WG2081054-3

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Analysis Date : 06/19/25 13:12:00
 Lab File ID : CCV0619

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2081054-3	1397581	4.83	1312975	6.41	1256715	7.70
Upper Limit	2795162	5.33	2625950	6.91	2513430	8.20
Lower Limit	698791	4.33	656488	5.91	628358	7.20
Sample ID						
WG2080673-1 BLANK	1606252	4.83	1569765	6.43	1480019	7.73
WG2080673-2 LCS	1673909	4.83	1580578	6.41	1572020	7.70
WG2080673-3 LCSD	1765030	4.83	1617609	6.41	1587750	7.70

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
 Project Name : CORAM MATERIALS
 Instrument ID : SV118
 Sample No : WG2083275-3

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Analysis Date : 06/25/25 09:49:00
 Lab File ID : CCV0625A

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2083275-3	540754	2.10	2018759	2.76	1069813	3.74
Upper Limit	1081508	2.60	4037518	3.26	2139626	4.24
Lower Limit	270377	1.60	1009380	2.26	534907	3.24
Sample ID						
MW-11S	689848	2.10	2641875	2.76	1481691	3.74
MW-11D	689347	2.10	2657609	2.76	1522426	3.74
EQUIPMENT BLANK	706112	2.10	2699867	2.76	1524502	3.74
MW-1DRZ	774689	2.10	2931496	2.76	1638828	3.74
MW-1SR	764124	2.10	2928973	2.76	1625790	3.74

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
 Project Name : CORAM MATERIALS
 Instrument ID : SV118
 Sample No : WG2083275-3

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Analysis Date : 06/25/25 09:49:00
 Lab File ID : CCV0625A

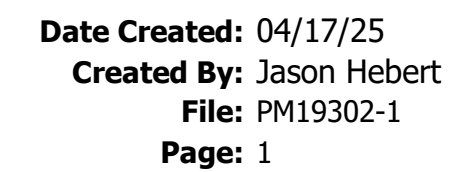
	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2083275-3	2024040	4.58	1764497	6.10	1664687	7.22
Upper Limit	4048080	5.08	3528994	6.60	3329374	7.72
Lower Limit	1012020	4.08	882249	5.60	832344	6.72
Sample ID						
MW-11S	2903687	4.58	2385861	6.10	2331043	7.21
MW-11D	3006907	4.58	2387141	6.10	2323440	7.21
EQUIPMENT BLANK	2945208	4.58	2314006	6.10	2272417	7.21
MW-1DRZ	3154150	4.58	2350258	6.10	2192524	7.21
MW-1SR	3051423	4.58	2297960	6.10	2293413	7.21

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

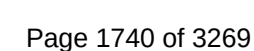
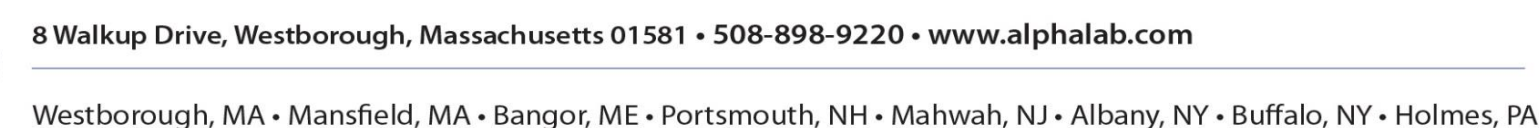
* Values outside of QC limits





Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 100ml 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 Pace Analytical Services.



Semivolatile Sample Data

Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2537655-01
 Client ID : MW-11S
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8270E-SIM
 Lab File ID : 37655-01
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/16/25 12:05
 Date Received : 06/16/25
 Date Analyzed : 06/25/25 14:22
 Date Extracted : 06/19/25
 Dilution Factor : 1
 Analyst : RP
 Instrument ID : SV118
 GC Column : RXI-5SiLM
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 14:22
Sample Matrix	: WATER	Date Extracted	: 06/19/25
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 37655-01	Analyst	: RP
Sample Amount	: 100 ml	Instrument ID	: SV118
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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 Project Name : CORAM MATERIALS Lab ID : L2537655-02 Client ID : MW-11D Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E-SIM Lab File ID : 37655-02 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2537655 Project Number : 2232.0006Y005 Date Collected : 06/16/25 12:08 Date Received : 06/16/25 Date Analyzed : 06/25/25 14:39 Date Extracted : 06/19/25 Dilution Factor : 1 Analyst : RP Instrument ID : SV118 GC Column : RXI-5SilM %Solids : N/A Injection Volume : 1 uL
--	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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 : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Lab ID : L2537655-02	Date Collected : 06/16/25 12:08
Client ID : MW-11D	Date Received : 06/16/25
Sample Location : 416 MILLER PLACE-YAPHANK RD.	Date Analyzed : 06/25/25 14:39
Sample Matrix : WATER	Date Extracted : 06/19/25
Analytical Method : 1,8270E-SIM	Dilution Factor : 1
Lab File ID : 37655-02	Analyst : RP
Sample Amount : 100 ml	Instrument ID : SV118
Extraction Method : EPA 3510C	GC Column : RXI-5SilM
Extract Volume : 1000 uL	%Solids : N/A
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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 Project Name : CORAM MATERIALS Lab ID : L2537655-03 Client ID : EQUIPMENT BLANK Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : Equipment Blank Analytical Method : 1,8270E-SIM Lab File ID : 37655-03 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2537655 Project Number : 2232.0006Y005 Date Collected : 06/16/25 12:30 Date Received : 06/16/25 Date Analyzed : 06/25/25 17:47 Date Extracted : 06/19/25 Dilution Factor : 1 Analyst : RP Instrument ID : SV118 GC Column : RXI-5SiLM %Solids : N/A Injection Volume : 1 uL
---	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 17:47
Sample Matrix	: Equipment Blank	Date Extracted	: 06/19/25
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 37655-03	Analyst	: RP
Sample Amount	: 100 ml	Instrument ID	: SV118
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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 Project Name : CORAM MATERIALS Lab ID : L2537655-04 Client ID : MW-1DRZ Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E-SIM Lab File ID : 37655-04 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2537655 Project Number : 2232.0006Y005 Date Collected : 06/16/25 13:45 Date Received : 06/16/25 Date Analyzed : 06/25/25 18:04 Date Extracted : 06/19/25 Dilution Factor : 1 Analyst : RP Instrument ID : SV118 GC Column : RXI-5SiLM %Solids : N/A Injection Volume : 1 uL
---	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 18:04
Sample Matrix	: WATER	Date Extracted	: 06/19/25
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 37655-04	Analyst	: RP
Sample Amount	: 100 ml	Instrument ID	: SV118
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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 Project Name : CORAM MATERIALS Lab ID : L2537655-05 Client ID : MW-1SR Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E-SIM Lab File ID : 37655-05 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2537655 Project Number : 2232.0006Y005 Date Collected : 06/16/25 13:50 Date Received : 06/16/25 Date Analyzed : 06/25/25 18:21 Date Extracted : 06/19/25 Dilution Factor : 1 Analyst : RP Instrument ID : SV118 GC Column : RXI-5SilM %Solids : N/A Injection Volume : 1 uL
--	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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 : L2537655
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Lab ID : L2537655-05	Date Collected : 06/16/25 13:50
Client ID : MW-1SR	Date Received : 06/16/25
Sample Location : 416 MILLER PLACE-YAPHANK RD.	Date Analyzed : 06/25/25 18:21
Sample Matrix : WATER	Date Extracted : 06/19/25
Analytical Method : 1,8270E-SIM	Dilution Factor : 1
Lab File ID : 37655-05	Analyst : RP
Sample Amount : 100 ml	Instrument ID : SV118
Extraction Method : EPA 3510C	GC Column : RXI-5SilM
Extract Volume : 1000 uL	%Solids : N/A
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : WG2080673-1
 Client ID : WG2080673-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8270E-SIM
 Lab File ID : 080673-1
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/19/25 14:00
 Date Extracted : 06/18/25
 Dilution Factor : 1
 Analyst : DV
 Instrument ID : SV119
 GC Column : RXI-5SiLM
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
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
 Project Name : CORAM MATERIALS
 Lab ID : WG2080673-1
 Client ID : WG2080673-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8270E-SIM
 Lab File ID : 080673-1
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/19/25 14:00
 Date Extracted : 06/18/25
 Dilution Factor : 1
 Analyst : DV
 Instrument ID : SV119
 GC Column : RXI-5SilM
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U



Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-01.D
 Acq On : 25 Jun 2025 02:22 pm
 Operator : SV118:rp
 Sample : L2537655-01,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 25 14:51:05 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\250625RVT\ccv0625a.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.097	152	689848	4000.000	ng/ml	0.00
Standard Area 1 = 540754			Recovery = 127.57%			
9) Naphthalene-d8	2.763	136	2641875	4000.000	ng/ml	0.00
Standard Area 1 = 2018759			Recovery = 130.87%			
18) Acenaphthene-d10	3.741	164	1481691	4000.000	ng/ml	0.00
Standard Area 1 = 1069813			Recovery = 138.50%			
23) Phenanthrene-d10	4.583	188	2903687	4000.000	ng/ml	0.00
Standard Area 1 = 2024040			Recovery = 143.46%			
33) Chrysene-d12	6.101	240	2385861	4000.000	ng/ml	0.00
Standard Area 1 = 1764497			Recovery = 135.21%			
38) Perylene-d12	7.212	264	2331043	4000.000	ng/ml	0.00
Standard Area 1 = 1664687			Recovery = 140.03%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.511	112	194294	921.060	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.05%			
4) Phenol-d6	1.916	99	188471	745.665	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 37.28%			
8) Nitrobenzene-d5	2.379	82	194873	944.174	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.42%			
14) 2-Fluorobiphenyl	3.366	172	467114	807.457	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 80.75%			
22) 2,4,6-Tribromophenol	4.188	330	106599	1555.262	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 77.76%			
32) 4-Terphenyl-d14	5.499	244	560475	830.899	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 83.09%			
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.	d	
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.	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	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-01.D
 Acq On : 25 Jun 2025 02:22 pm
 Operator : SV118:rp
 Sample : L2537655-01,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 25 14:51:05 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\250625RVT\ccv0625a.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	

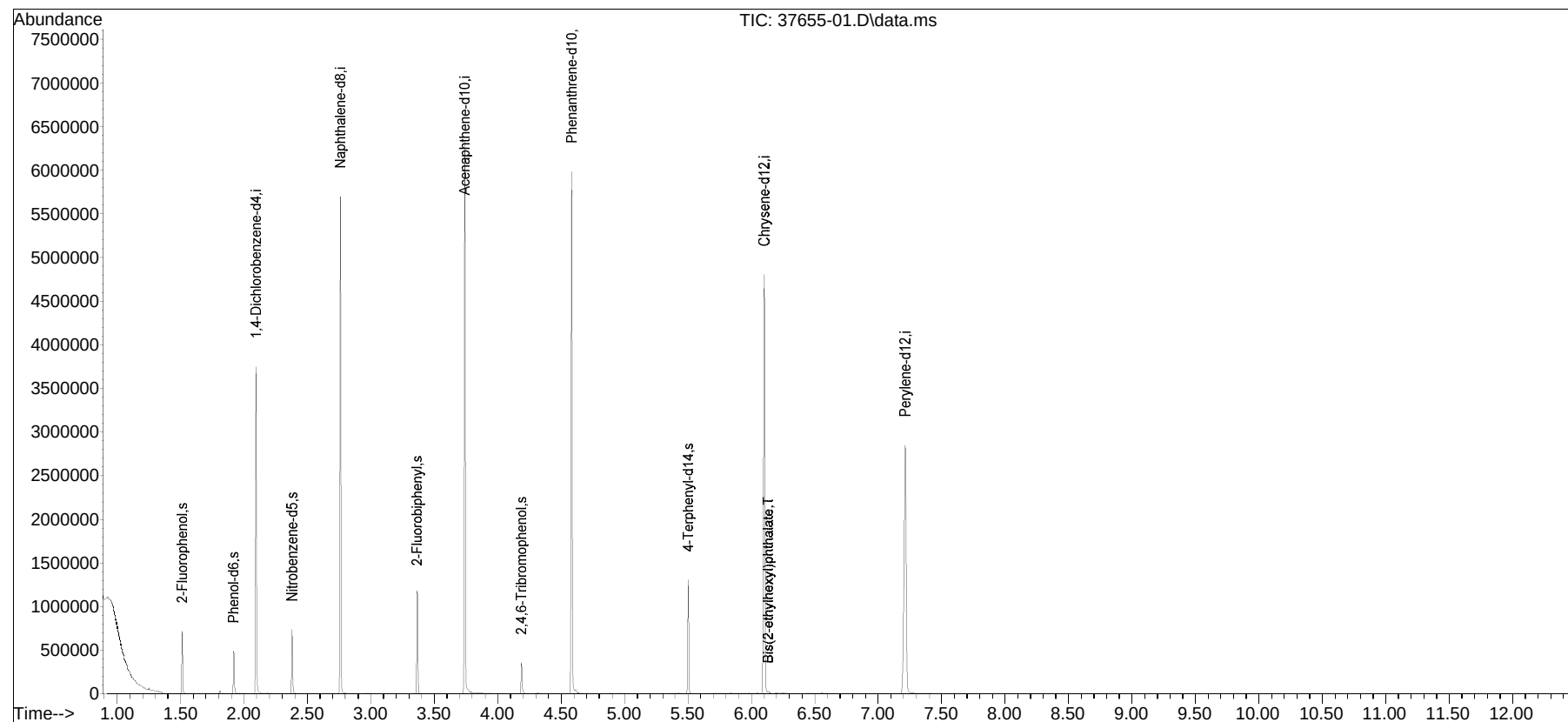
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-01.D
 Acq On : 25 Jun 2025 02:22 pm
 Operator : SV118:rp
 Sample : L2537655-01,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 25 14:51:05 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0625a.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\250625RVTQ	Method	: SIM-RVT_250203sv118.M
Data File	: 37655-01.D	Operator	: SV118:rp
Date Inj'd	: 6/25/2025 2:22 pm	Instrument	: SV118
Sample	: L2537655-01,32,,jjw	Quant Date	: 6/25/2025 2:35 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-02.D
 Acq On : 25 Jun 2025 02:39 pm
 Operator : SV118:rp
 Sample : L2537655-02,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 25 14:57:17 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\250625RVT\ccv0625a.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.097	152	689347	4000.000	ng/ml	0.00
Standard Area 1 = 540754			Recovery = 127.48%			
9) Naphthalene-d8	2.762	136	2657609	4000.000	ng/ml	0.00
Standard Area 1 = 2018759			Recovery = 131.65%			
18) Acenaphthene-d10	3.742	164	1522426	4000.000	ng/ml	0.00
Standard Area 1 = 1069813			Recovery = 142.31%			
23) Phenanthrene-d10	4.583	188	3006907	4000.000	ng/ml	0.00
Standard Area 1 = 2024040			Recovery = 148.56%			
33) Chrysene-d12	6.101	240	2387141	4000.000	ng/ml	0.00
Standard Area 1 = 1764497			Recovery = 135.29%			
38) Perylene-d12	7.214	264	2323440	4000.000	ng/ml	0.00
Standard Area 1 = 1664687			Recovery = 139.57%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.511	112	181035	858.829	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 42.94%			
4) Phenol-d6	1.918	99	178577	707.034	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 35.35%			
8) Nitrobenzene-d5	2.379	82	202952	984.032	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 98.40%			
14) 2-Fluorobiphenyl	3.366	172	491137	843.958	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 84.40%			
22) 2,4,6-Tribromophenol	4.189	330	101457	1440.635	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 72.03%			
32) 4-Terphenyl-d14	5.499	244	570266	816.393	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 81.64%			
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.	d	
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.	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	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-02.D
 Acq On : 25 Jun 2025 02:39 pm
 Operator : SV118:rp
 Sample : L2537655-02,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 25 14:57:17 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\250625RVT\ccv0625a.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	

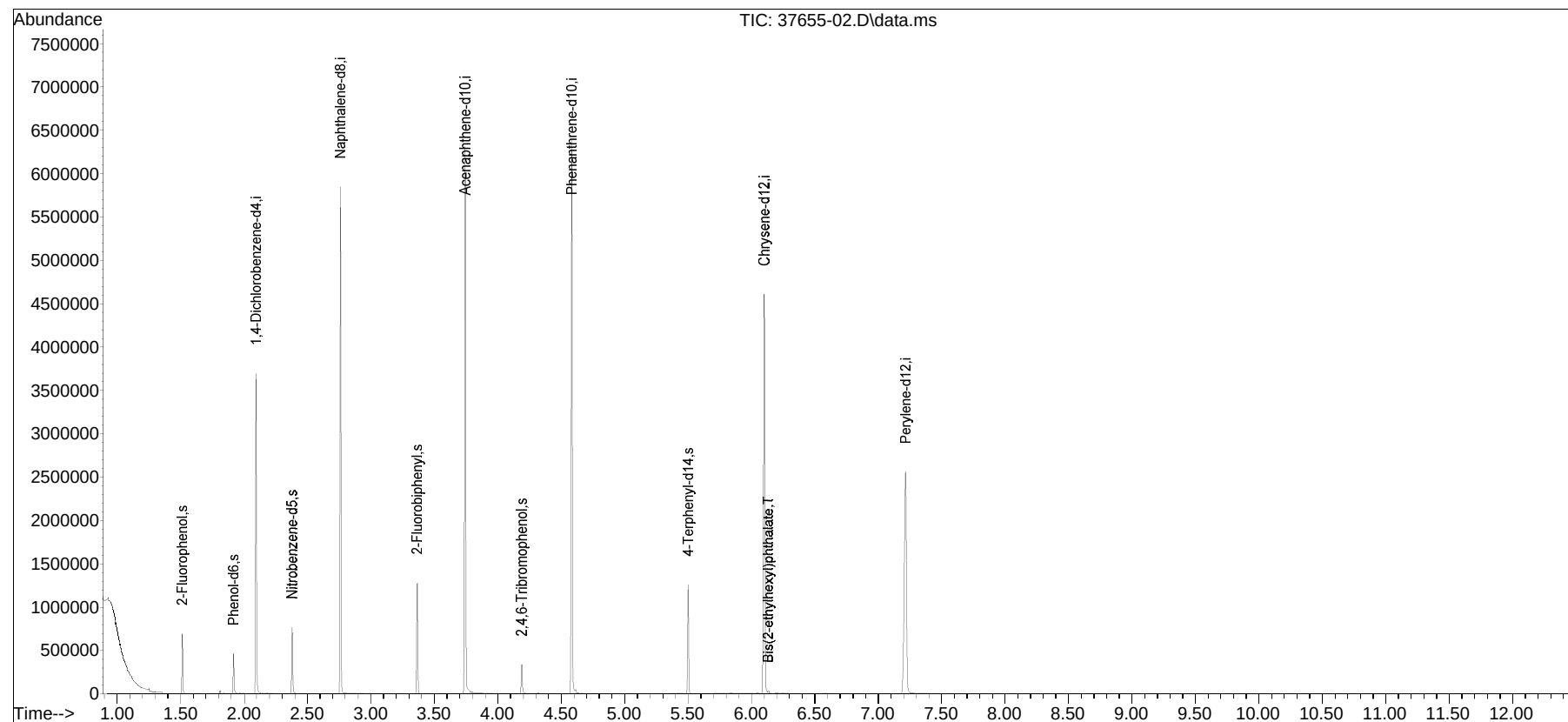
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-02.D
 Acq On : 25 Jun 2025 02:39 pm
 Operator : SV118:rp
 Sample : L2537655-02,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 25 14:57:17 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0625a.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\250625RVTQ	Method	: SIM-RVT_250203sv118.M
Data File	: 37655-02.D	Operator	: SV118:rp
Date Inj'd	: 6/25/2025 2:39 pm	Instrument	: SV118
Sample	: L2537655-02,32,,jjw	Quant Date	: 6/25/2025 2:52 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-03.D
 Acq On : 25 Jun 2025 05:47 pm
 Operator : SV118:rp
 Sample : L2537655-03,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 25 18:37:07 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\250625RVT\ccv0625a.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.097	152	706112	4000.000	ng/ml	0.00
Standard Area 1 = 540754			Recovery = 130.58%			
9) Naphthalene-d8	2.762	136	2699867	4000.000	ng/ml	0.00
Standard Area 1 = 2018759			Recovery = 133.74%			
18) Acenaphthene-d10	3.742	164	1524502	4000.000	ng/ml	0.00
Standard Area 1 = 1069813			Recovery = 142.50%			
23) Phenanthrene-d10	4.583	188	2945208	4000.000	ng/ml	0.00
Standard Area 1 = 2024040			Recovery = 145.51%			
33) Chrysene-d12	6.100	240	2314006	4000.000	ng/ml	0.00
Standard Area 1 = 1764497			Recovery = 131.14%			
38) Perylene-d12	7.214	264	2272417	4000.000	ng/ml	0.00
Standard Area 1 = 1664687			Recovery = 136.51%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.512	112	102651	475.413	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 23.77%			
4) Phenol-d6	1.918	99	121516	469.691	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 23.48%			
8) Nitrobenzene-d5	2.379	82	157851	747.184	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 74.72%			
14) 2-Fluorobiphenyl	3.366	172	393270	665.208	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 66.52%			
22) 2,4,6-Tribromophenol	4.188	330	57392	813.826	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 40.69%			
32) 4-Terphenyl-d14	5.499	244	472072	689.976	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 69.00%			
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.	d	
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.	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	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-03.D
 Acq On : 25 Jun 2025 05:47 pm
 Operator : SV118:rp
 Sample : L2537655-03,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 25 18:37:07 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\250625RVT\ccv0625a.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	

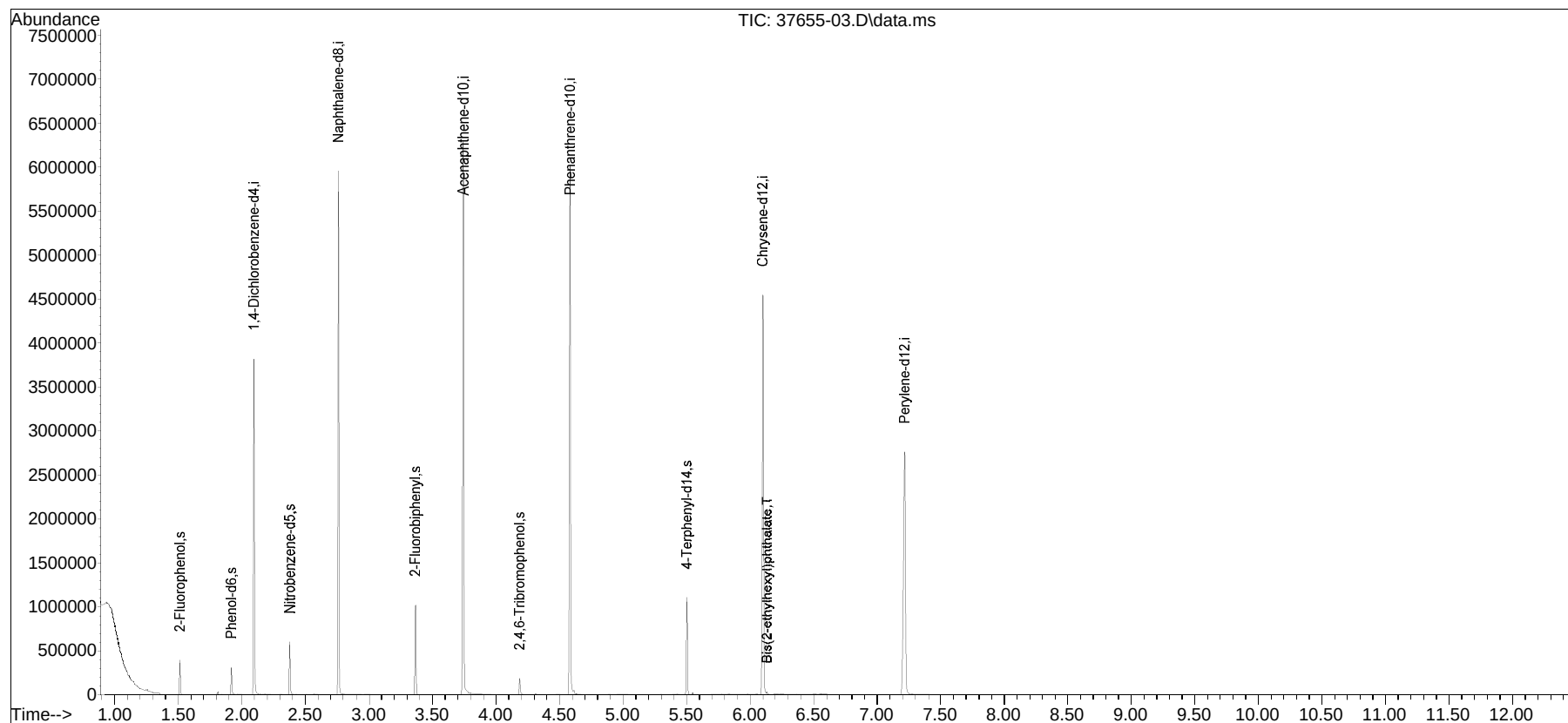
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-03.D
 Acq On : 25 Jun 2025 05:47 pm
 Operator : SV118:rp
 Sample : L2537655-03,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 25 18:37:07 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0625a.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\250625RVTQ	Method	: SIM-RVT_250203sv118.M
Data File	: 37655-03.D	Operator	: SV118:rp
Date Inj'd	: 6/25/2025 5:47 pm	Instrument	: SV118
Sample	: L2537655-03,32,,jjw	Quant Date	: 6/25/2025 6:00 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-04.D
 Acq On : 25 Jun 2025 06:04 pm
 Operator : SV118:rp
 Sample : L2537655-04,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 25 18:40:54 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\250625RVT\ccv0625a.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.099	152	774689	4000.000	ng/ml	0.00
Standard Area 1 = 540754			Recovery = 143.26%			
9) Naphthalene-d8	2.762	136	2931496	4000.000	ng/ml	0.00
Standard Area 1 = 2018759			Recovery = 145.21%			
18) Acenaphthene-d10	3.742	164	1638828	4000.000	ng/ml	0.00
Standard Area 1 = 1069813			Recovery = 153.19%			
23) Phenanthrene-d10	4.583	188	3154150	4000.000	ng/ml	0.00
Standard Area 1 = 2024040			Recovery = 155.83%			
33) Chrysene-d12	6.099	240	2350258	4000.000	ng/ml	0.00
Standard Area 1 = 1764497			Recovery = 133.20%			
38) Perylene-d12	7.214	264	2192524	4000.000	ng/ml	0.00
Standard Area 1 = 1664687			Recovery = 131.71%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.518	112	156280	659.717	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 32.99%			
4) Phenol-d6	1.918	99	177309	624.678	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 31.23%			
8) Nitrobenzene-d5	2.379	82	202211	872.431	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 87.24%			
14) 2-Fluorobiphenyl	3.366	172	499874	778.718	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 77.87%			
22) 2,4,6-Tribromophenol	4.187	330	83340	1099.331	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 54.97%			
32) 4-Terphenyl-d14	5.499	244	554448	756.694	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 75.67%			
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.	d	
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.	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	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-04.D
 Acq On : 25 Jun 2025 06:04 pm
 Operator : SV118:rp
 Sample : L2537655-04,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 25 18:40:54 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\250625RVT\ccv0625a.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	

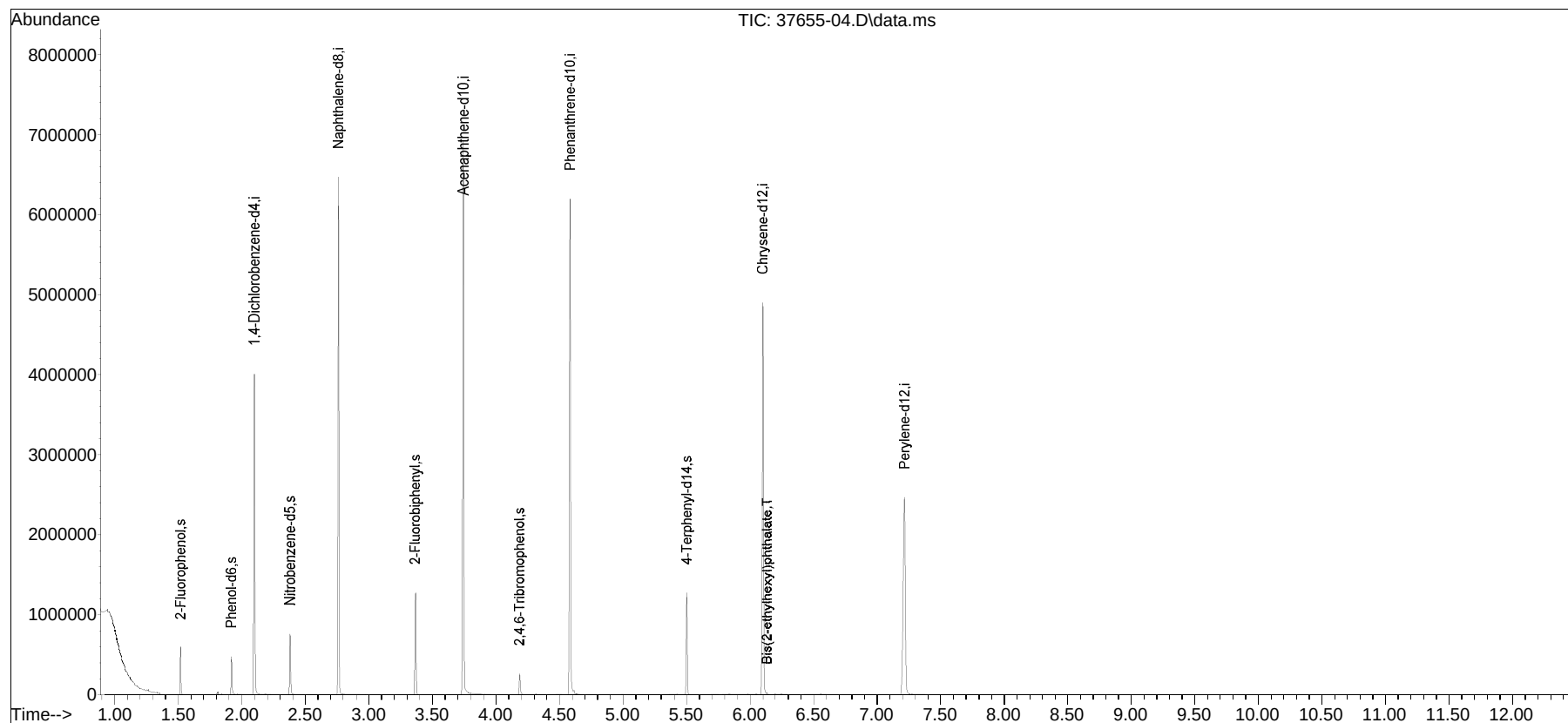
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-04.D
 Acq On : 25 Jun 2025 06:04 pm
 Operator : SV118:rp
 Sample : L2537655-04,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 25 18:40:54 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0625a.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\250625RVTQ	Method	: SIM-RVT_250203sv118.M
Data File	: 37655-04.D	Operator	: SV118:rp
Date Inj'd	: 6/25/2025 6:04 pm	Instrument	: SV118
Sample	: L2537655-04,32,,jjw	Quant Date	: 6/25/2025 6:17 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-05.D
 Acq On : 25 Jun 2025 06:21 pm
 Operator : SV118:rp
 Sample : L2537655-05,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 25 18:43:00 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\250625RVT\ccv0625a.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.097	152	764124	4000.000	ng/ml	0.00
Standard Area 1 = 540754			Recovery = 141.31%			
9) Naphthalene-d8	2.763	136	2928973	4000.000	ng/ml	0.00
Standard Area 1 = 2018759			Recovery = 145.09%			
18) Acenaphthene-d10	3.741	164	1625790	4000.000	ng/ml	0.00
Standard Area 1 = 1069813			Recovery = 151.97%			
23) Phenanthrene-d10	4.583	188	3051423	4000.000	ng/ml	0.00
Standard Area 1 = 2024040			Recovery = 150.76%			
33) Chrysene-d12	6.101	240	2297960	4000.000	ng/ml	0.00
Standard Area 1 = 1764497			Recovery = 130.23%			
38) Perylene-d12	7.214	264	2293413	4000.000	ng/ml	0.00
Standard Area 1 = 1664687			Recovery = 137.77%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.515	112	205195	878.182	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 43.91%			
4) Phenol-d6	1.918	99	214287	765.393	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 38.27%			
8) Nitrobenzene-d5	2.379	82	176865	773.627	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 77.36%			
14) 2-Fluorobiphenyl	3.363	172	441069	687.702	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 68.77%			
22) 2,4,6-Tribromophenol	4.188	330	95628	1271.536	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 63.58%			
32) 4-Terphenyl-d14	5.497	244	459854	648.723	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 64.87%			
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.	d	
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.	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	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-05.D
 Acq On : 25 Jun 2025 06:21 pm
 Operator : SV118:rp
 Sample : L2537655-05,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 25 18:43:00 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\250625RVT\ccv0625a.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	

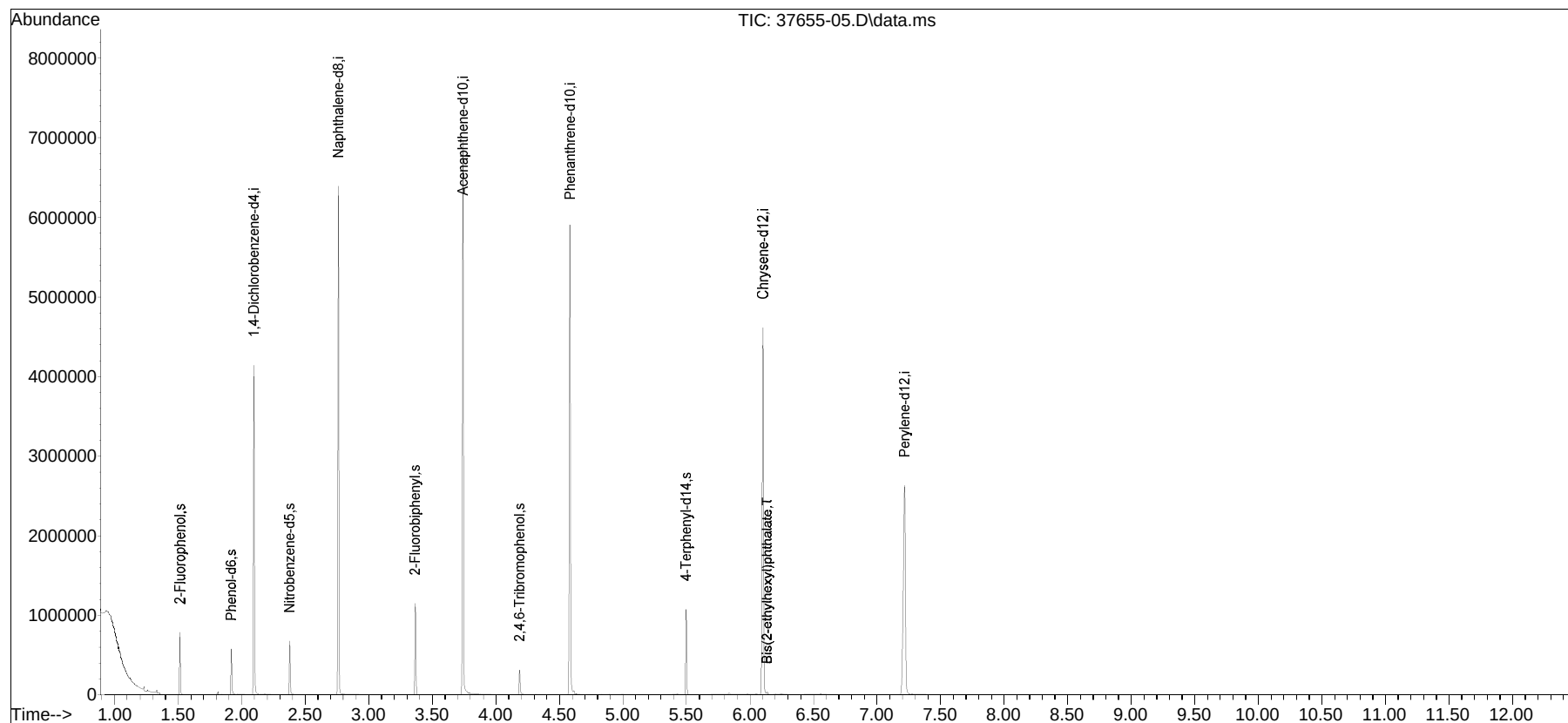
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : 37655-05.D
 Acq On : 25 Jun 2025 06:21 pm
 Operator : SV118:rp
 Sample : L2537655-05,32,,jjw
 Misc : WG2083275,WG2080673,ical21963
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 25 18:43:00 2025
 Quant Method : I:\8270sim\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:17 2025
 Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0625a.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV118\250625RVTQ	Method	: SIM-RVT_250203sv118.M
Data File	: 37655-05.D	Operator	: SV118:rp
Date Inj'd	: 6/25/2025 6:21 pm	Instrument	: SV118
Sample	: L2537655-05,32,,jjw	Quant Date	: 6/25/2025 6:34 pm

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
 Project Name : CORAM MATERIALS
 Instrument ID : SV118
 Calibration dates : 02/03/25 15:47 02/03/25 18:20

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL21963

Calibration Files

L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
 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	1.239	1.204	1.243	1.241	1.289	1.259	1.229	1.173	1.131	1.223	3.88	
3) s Phenol-d6	1.538	1.428	1.427	1.436	1.495	1.503	1.482	1.446	1.435	1.466	2.72	
4) T bis(2-Chloroethyl)ether		1.452	1.310	1.318	1.349	1.310	1.269	1.206	1.195	1.301	6.29	
5) T n-Nitrosodi-n-propylamine	0.803	0.785	0.765	0.784	0.828	0.882	0.885	0.888	0.892	0.835	6.26	
6) t Hexachloroethane		0.559	0.549	0.537	0.556	0.556	0.546	0.528	0.523	0.544	2.49	
7) s Nitrobenzene-d5	1.228	1.170	1.104	1.095	1.173	1.220	1.272	1.256	1.232	1.217	1.197	5.04
8) i Naphthalene-d8	-----ISTD-----											
9) t Naphthalene	1.330	1.169	1.168	1.134	1.162	1.130	1.100	1.042	0.996	1.137	8.24	
10) t Hexachlorobutadiene			0.210	0.207	0.213	0.208	0.204	0.193	0.190	0.204	4.20	
11) t 2-Methylnaphthalene	0.787	0.701	0.704	0.710	0.730	0.723	0.703	0.665	0.643	0.707	5.74	
12) t 1-Methylnaphthalene	0.789	0.712	0.718	0.728	0.748	0.737	0.711	0.675	0.652	0.719	5.54	
13) s 2-Fluorobiphenyl	0.940	0.997	0.878	0.887	0.891	0.906	0.879	0.841	0.788	0.751	0.876	8.03
14) t 2-Chloronaphthalene	0.807	0.766	0.757	0.780	0.799	0.787	0.762	0.726	0.703	0.765	4.39	
15) t 2,6-Dinitrotoluene				0.137	0.148	0.178	0.184	0.189	0.186	0.170	12.95	
16) t Acenaphthylene	1.189	1.093	1.083	1.145	1.212	1.269	1.236	1.188	1.115	1.170	5.54	
17) i Acenaphthene-d10	-----ISTD-----											
18) t Acenaphthene	1.578	1.459	1.432	1.440	1.464	1.429	1.400	1.324	1.289	1.424	5.86	
19) t 2,4-Dinitrotoluene				0.305	0.349	0.437	0.456	0.465	0.456	0.411	16.37	
20) t Fluorene	1.628	1.690	1.541	1.511	1.554	1.609	1.622	1.576	1.494	1.431	1.566	4.82
21) s 2,4,6-Tribromophenol		0.145	0.144	0.156	0.181	0.212	0.214	0.214	0.214	0.185	17.53	
22) i Phenanthrene-d10	-----ISTD-----											
23) T 4,6-Dinitro-o-cresol				0.052	0.072	0.107	0.117	0.128	0.135	*L	0.9973	
24) t Hexachlorobenzene	0.290	0.264	0.262	0.268	0.279	0.270	0.262	0.246	0.243	0.265	5.57	
25) t Pentachlorophenol			0.059	0.063	0.088	0.130	0.141	0.152		*Q	0.9979	
26) t Phenanthrene	1.301	1.264	1.238	1.198	1.247	1.255	1.227	1.190	1.126	1.066	1.211	5.77
27) t Anthracene	1.273	1.263	1.156	1.156	1.189	1.236	1.258	1.223	1.160	1.107	1.202	4.68
28) t Fluoranthene	1.511	1.425	1.362	1.286	1.392	1.419	1.448	1.388	1.331	1.231	1.379	5.88
29) t Pyrene	1.550	1.470	1.410	1.321	1.447	1.470	1.517	1.456	1.370	1.262	1.427	6.19
30) s 4-Terphenyl-d14	1.052	0.994	0.932	0.865	0.947	0.960	0.967	0.913	0.868	0.794	0.929	7.91
31) i Chrysene-d12	-----ISTD-----											
32) t Benzo[a]anthracene		0.534	0.436	0.390	0.392	0.411	0.408	0.403	0.407	0.423	11.16	
33) t 3,3'-Dichlorobenzidine				0.419	0.456	0.550	0.578	0.600	0.604	0.534	14.68	
34) t Chrysene	1.390	1.357	1.364	1.358	1.421	1.446	1.429	1.385	1.338	1.314	1.380	3.05
35) T bis(2-Ethylhexyl)phthalate				0.556	0.603	0.795	0.883	0.958	0.999	*L	0.9974	
36) i Perylene-d12	-----ISTD-----											



Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV118
 Calibration dates : 02/03/25 15:47 02/03/25 18:20

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL21963

Calibration Files

L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
 L10 =L10.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t Benzo[b]fluoranthene	1.338	1.316	1.277	1.249	1.270	1.349	1.381	1.342	1.317	1.321	1.316	3.06
38) t Benzo[k]fluoranthene	1.173	1.259	1.124	1.188	1.219	1.299	1.367	1.346	1.282	1.266	1.252	6.13
39) t Benzo[a]pyrene	1.037	1.021	0.982	1.006	1.029	1.103	1.191	1.200	1.187	1.195	1.095	8.21
40) t Indeno[1,2,3-cd]pyrene		0.884	0.863	0.888	0.902	0.951	1.005	1.060	1.074	1.111	0.971	9.69
41) t Dibenzo[a,h]anthracene	0.886	0.835	0.786	0.834	0.875	0.960	1.026	1.058	1.046	1.066	0.937	11.36
42) t Benzo[g,h,i]perylene		0.942	0.922	0.936	0.985	1.052	1.079	1.110	1.092	1.115	1.026	7.75



Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV119
 Calibration dates : 06/18/25 18:34 06/18/25 21:03

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22394

Calibration Files

L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
 L10 =L10.D

Compound		L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	
1) i	1,4-Dichlorobenzene-d4	-----ISTD-----											
2) T	N-Nitrosodimethylamine					0.731	0.667	0.666	0.646	0.648	0.611	0.662	5.99
3) s	2-Fluorophenol		1.153	1.157	1.129	1.147	1.142	1.150	1.118	1.086	1.029	1.123	3.72
4) s	Phenol-d6		1.777	1.380	1.545	1.400	1.406	1.433	1.400	1.415	1.371	1.459	8.91
5) T	Bis(2-chloroethyl)ether				1.231	1.169	1.180	1.210	1.170	1.159	1.120	1.177	3.06
6) T	n-nitrosodi-n-propylamine			0.894	0.866	0.864	0.860	0.908	0.875	0.915	0.897	0.885	2.39
7) t	Hexachloroethane			0.521	0.574	0.535	0.529	0.542	0.524	0.521	0.502	0.531	3.95
8) s	Nitrobenzene-d5		1.250	1.207	1.198	1.191	1.185	1.228	1.188	1.213	1.170	1.203	2.03
9) i	Naphthalene-d8	-----ISTD-----											
10) t	Naphthalene		1.136	1.119	1.071	1.044	1.030	1.049	1.019	1.006	0.957	1.048	5.29
11) t	Hexachlorobutadiene		0.231	0.219	0.205	0.208	0.206	0.208	0.203	0.198	0.189	0.208	5.83
12) t	2-Methylnaphthalene		0.803	0.724	0.690	0.690	0.682	0.701	0.670	0.666	0.628	0.695	6.95
13) t	1-Methylnaphthalene		0.777	0.750	0.733	0.719	0.717	0.736	0.697	0.689	0.648	0.718	5.20
14) s	2-Fluorobiphenyl		0.942	0.951	0.946	0.933	0.928	0.940	0.877	0.843	0.785	0.905	6.40
15) t	2-Chloronaphthalene		0.795	0.791	0.796	0.798	0.790	0.803	0.762	0.758	0.721	0.779	3.49
16) t	2,6-Dinitrotoluene					0.147	0.141	0.157	0.157	0.176	0.173	0.159	8.84
17) t	Acenaphthylene	1.363	1.331	1.292	1.285	1.301	1.292	1.349	1.279	1.270	1.193	1.296	3.66
18) i	Acenaphthene-d10	-----ISTD-----											
19) t	Acenaphthene	1.428	1.360	1.324	1.329	1.322	1.318	1.351	1.310	1.305	1.240	1.329	3.57
20) t	2,4-Dinitrotoluene					0.303	0.304	0.347	0.360	0.401	0.402	0.353	12.47
21) t	Fluorene	1.671	1.627	1.617	1.603	1.594	1.574	1.646	1.576	1.551	1.437	1.589	4.05
22) s	2,4,6-Tribromophenol			0.201	0.203	0.190	0.190	0.205	0.202	0.210	0.205	0.201	3.53
23) i	Phenanthrene-d10	-----ISTD-----											
24) T	4,6-Dinitro-o-cresol					0.073	0.071	0.084	0.085	0.095	0.099	*Q	0.99
95)													
25) t	Hexachlorobenzene		0.261	0.251	0.251	0.251	0.251	0.254	0.243	0.240	0.226	0.248	4.02
26) t	Pentachlorophenol				0.173	0.122	0.113	0.105	0.109	0.128	0.143	*Q	0.99
96)													
27) t	Phenanthrene	1.432	1.308	1.211	1.184	1.157	1.140	1.171	1.125	1.113	1.046	1.189	9.21
28) t	Anthracene	1.184	1.185	1.172	1.170	1.158	1.143	1.196	1.157	1.150	1.082	1.160	2.77
29) t	Fluoranthene	1.572	1.482	1.438	1.458	1.426	1.416	1.459	1.405	1.357		1.446	4.13
30) t	Pyrene	1.605	1.535	1.513	1.500	1.484	1.460	1.513	1.444	1.372		1.492	4.33
31) T	Benzidine							0.411	0.618	0.779	0.805	*L	0.99
98)													
32) s	4-Terphenyl-d14			0.929	0.954	0.941	0.923	0.940	0.894	0.840	0.774	0.899	6.90
33) i	Chrysene-d12	-----ISTD-----											



Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV119
 Calibration dates : 06/18/25 18:34 06/18/25 21:03

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22394

Calibration Files

L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
 L10 =L10.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg
34) t Benzo[a]anthracene 96)			3.637	2.454	1.594	1.438	1.460	1.421	1.439	1.378	*L 0.99
35) t 3,3'-Dichlorobenzidine					0.400	0.435	0.543	0.557	0.605	0.593	0.522 16.27
36) t Chrysene			1.228	1.330	1.305	1.314	1.384	1.330	1.344	1.284	1.315 3.48
37) T Bis(2-ethylhexyl)phtha... 68)					0.491	0.511	0.637	0.698	0.804	0.802	*L 0.99
38) i Perylene-d12	-----ISTD-----										
39) t Benzo[b]fluoranthene			0.997	1.066	1.118	1.188	1.356	1.314	1.330	1.275	1.206 11.10
40) t Benzo[k]fluoranthene			1.059	1.170	1.237	1.290	1.417	1.384	1.368	1.260	1.273 9.40
41) t Benzo[a]pyrene			0.873	0.943	1.006	1.059	1.220	1.218	1.255	1.201	1.097 13.32
42) t Indeno[1,2,3-cd]pyrene 66)			0.629	0.698	0.756	0.849	1.060	1.124	1.189		*L 0.99
43) t Dibenzo[a,h]anthracene 76)			0.533	0.582	0.688	0.812	1.066	1.081	1.122		*L 0.99
44) t Benzo[g,h,i]perylene 87)			0.707	0.808	0.886	0.968	1.137	1.160	1.200		*L 0.99



Response Factor Report SV118

Method Path : I:\8270SIM\SV118\250203RVTical\
 Method File : SIM-RVT_250203sv118.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Mon Feb 10 09:31:08 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 =L8.D L9 =L9.D
 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	1.239	1.204	1.243	1.241	1.289	1.259	1.229	1.173	1.131	1.223	3.88	
3) s Phenol-d6	1.538	1.428	1.427	1.436	1.495	1.503	1.482	1.446	1.435	1.466	2.72	
4) T bis(2-Chloroethyl)ether	1.452	1.310	1.318	1.349	1.310	1.269	1.206	1.195	1.301	6.29		
5) T n-Nitrosodi-n-propylamine	0.803	0.785	0.765	0.784	0.828	0.882	0.885	0.888	0.892	0.835	6.26	
6) t Hexachloroethane	0.559	0.549	0.537	0.556	0.556	0.546	0.528	0.523	0.544	2.49		
7) s Nitrobenzene-d5	1.228	1.104	1.095	1.173	1.220	1.272	1.256	1.232	1.217	1.197	5.04	
8) i Naphthalene-d8	-----ISTD-----											
9) t Naphthalene	1.330	1.169	1.168	1.134	1.162	1.130	1.100	1.042	0.996	1.137	8.24	
10) t Hexachlorobutadiene	0.210	0.207	0.213	0.208	0.204	0.193	0.190	0.204	4.20			
11) t 2-Methylnaphthalene	0.787	0.701	0.704	0.710	0.730	0.723	0.703	0.665	0.643	0.707	5.74	
12) t 1-Methylnaphthalene	0.789	0.712	0.718	0.728	0.748	0.737	0.711	0.675	0.652	0.719	5.54	
13) s 2-Fluorobiphenyl	0.940	0.997	0.878	0.887	0.891	0.906	0.879	0.841	0.788	0.751	0.876	8.03
14) t 2-Chloronaphthalene	0.807	0.766	0.757	0.780	0.799	0.787	0.762	0.726	0.703	0.765	4.39	
15) t 2,6-Dinitrotoluene	0.137	0.148	0.178	0.184	0.189	0.186	0.170	12.95				
16) t Acenaphthylene	1.189	1.093	1.083	1.145	1.212	1.269	1.236	1.188	1.115	1.170	5.54	
17) i Acenaphthene-d10	-----ISTD-----											
18) t Acenaphthene	1.578	1.459	1.432	1.440	1.464	1.429	1.400	1.324	1.289	1.424	5.86	
19) t 2,4-Dinitrotoluene	0.305	0.349	0.437	0.456	0.465	0.456	0.411	16.37				
20) t Fluorene	1.628	1.690	1.541	1.511	1.554	1.609	1.622	1.576	1.494	1.431	1.566	4.82
21) s 2,4,6-Tribromophenol	0.145	0.144	0.156	0.181	0.212	0.214	0.214	0.214	0.185	17.53		
22) i Phenanthrene-d10	-----ISTD-----											
23) T 4,6-Dinitro-o-cresol	0.052	0.072	0.107	0.117	0.128	0.135	*L	0.9973				
24) t Hexachlorobenzene	0.290	0.264	0.262	0.268	0.279	0.270	0.262	0.246	0.243	0.265	5.57	
25) t Pentachlorophenol	0.059	0.063	0.088	0.130	0.141	0.152	*Q	0.9979				
26) t Phenanthrene	1.301	1.264	1.238	1.198	1.247	1.255	1.227	1.190	1.126	1.066	1.211	5.77
27) t Anthracene	1.273	1.263	1.156	1.156	1.189	1.236	1.258	1.223	1.160	1.107	1.202	4.68
28) t Fluoranthene	1.511	1.425	1.362	1.286	1.392	1.419	1.448	1.388	1.331	1.231	1.379	5.88
29) t Pyrene	1.550	1.470	1.410	1.321	1.447	1.470	1.517	1.456	1.370	1.262	1.427	6.19
30) s 4-Terphenyl-d14	1.052	0.994	0.932	0.865	0.947	0.960	0.967	0.913	0.868	0.794	0.929	7.91
31) i Chrysene-d12	-----ISTD-----											
32) t Benzo[a]anthracene	0.534	0.436	0.390	0.392	0.411	0.408	0.403	0.407	0.423	11.16		
33) t 3,3'-Dichlorobenzidine	0.419	0.456	0.550	0.578	0.600	0.604	0.534	14.68				
34) t Chrysene	1.390	1.357	1.364	1.358	1.421	1.446	1.429	1.385	1.338	1.314	1.380	3.05
35) T bis(2-Ethylhexyl)phthalate	0.556	0.603	0.795	0.883	0.958	0.999	*L	0.9974				
36) i Perylene-d12	-----ISTD-----											
37) t Benzo[b]fluora...	1.338	1.316	1.277	1.249	1.270	1.349	1.381	1.342	1.317	1.321	1.316	3.06
38) t Benzo[k]fluora...	1.173	1.259	1.124	1.188	1.219	1.299	1.367	1.346	1.282	1.266	1.252	6.13
39) t Benzo[a]pyrene	1.037	1.021	0.982	1.006	1.029	1.103	1.191	1.200	1.187	1.195	1.095	8.21
40) t Indeno[1,2,3-c...	0.884	0.863	0.888	0.902	0.951	1.005	1.060	1.074	1.111	0.971	9.69	
41) t Dibenzo[a,h]anthracene	0.886	0.835	0.786	0.834	0.875	0.960	1.026	1.058	1.046	1.066	0.937	11.36
42) t Benzo[g,h,i]pe...	0.942	0.922	0.936	0.985	1.052	1.079	1.110	1.092	1.115	1.026	7.75	

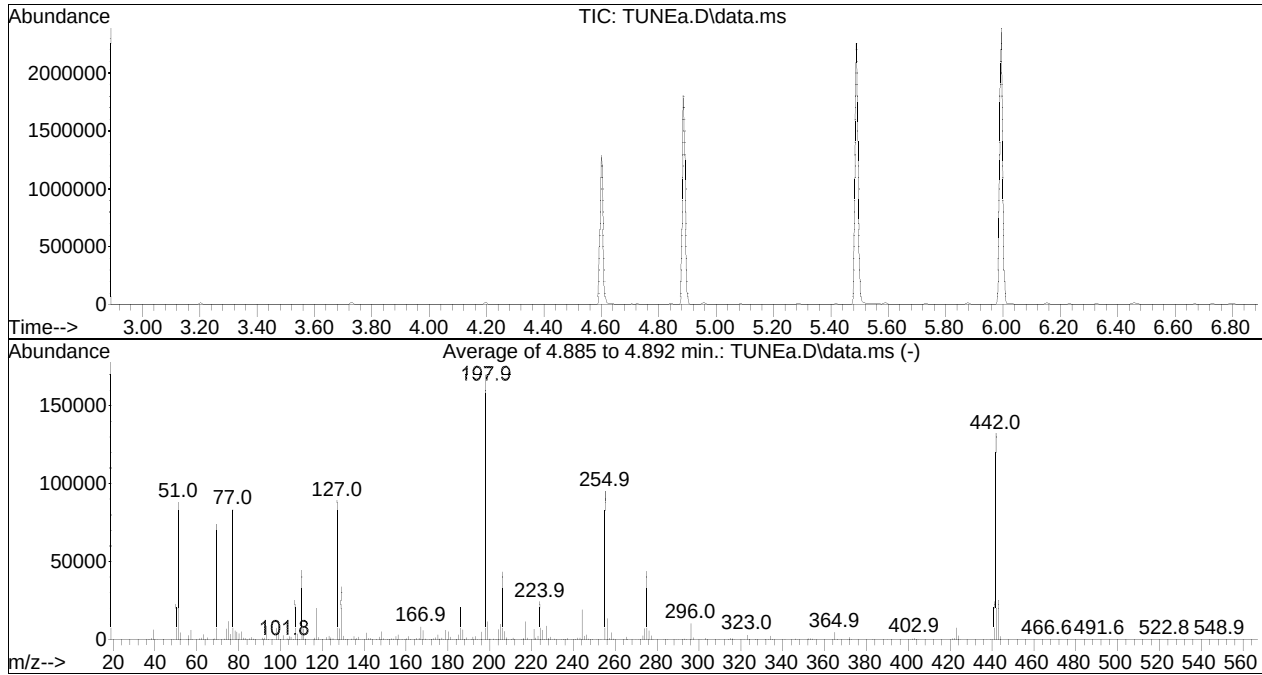
(#) = Out of Range

DFTPP

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : TUNEa.D
 Acq On : 03 Feb 2025 03:28 pm
 Operator : SV118:rp
 Sample : TUNE
 Misc : WG2028184,,ical
 ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Fri Feb 07 14:32:24 2025



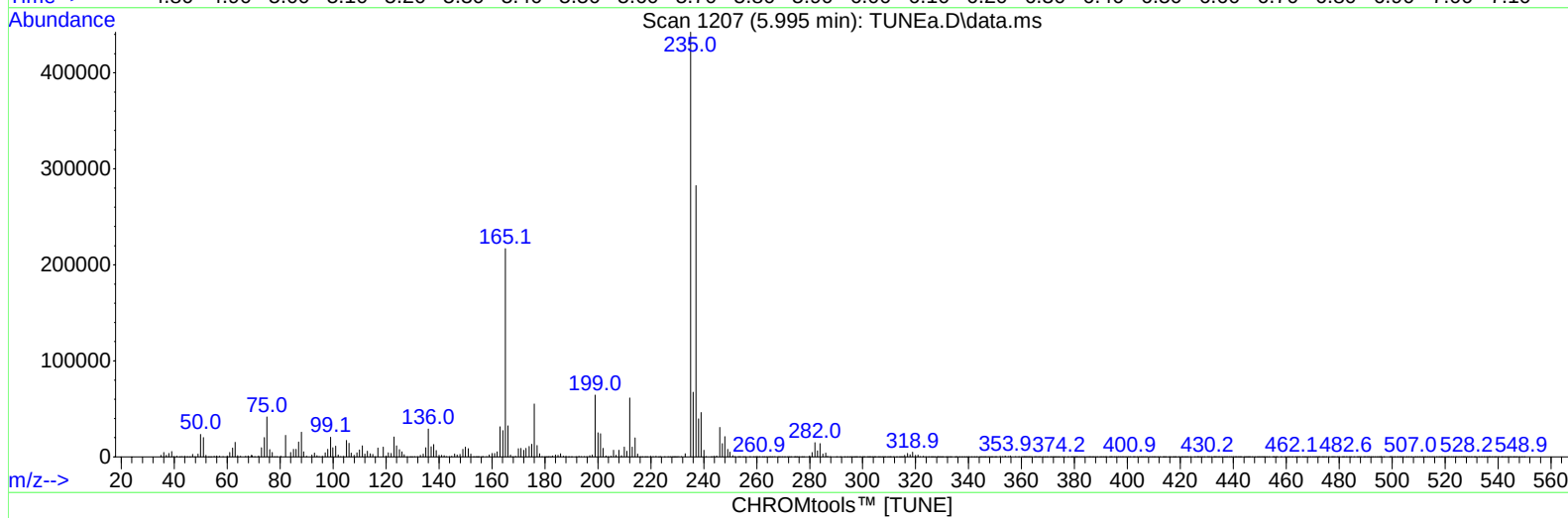
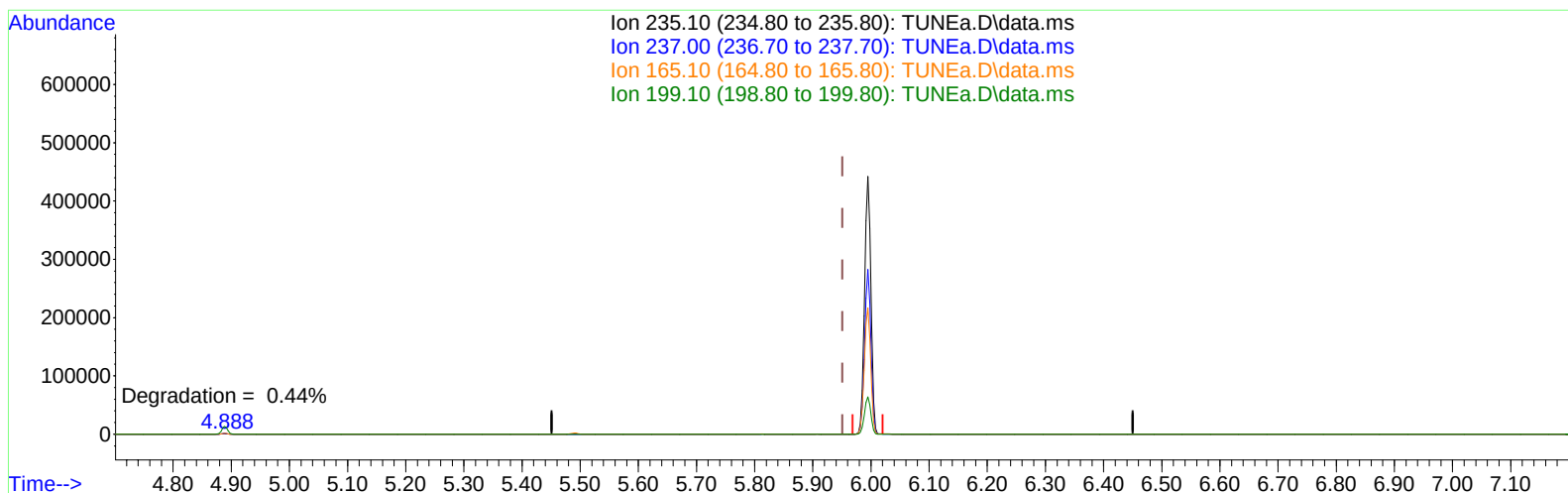
Spectrum Information: Average of 4.885 to 4.892 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	52.0	88032	PASS
68	69	0.00	2	1.4	1027	PASS
69	69	100	100	100.0	73990	PASS
70	69	0.00	2	0.6	413	PASS
127	198	10	80	52.5	88923	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	169344	PASS
199	198	5	9	6.8	11569	PASS
275	198	10	60	25.7	43466	PASS
365	198	1	100	2.9	4903	PASS
441	442	0.01	24	18.2	24057	PASS
442	198	50	100	78.0	132025	PASS
443	442	15	24	18.8	24854	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : TUNEa.D
 Acq On : 03 Feb 2025 03:28 pm
 Operator : SV118:rp
 Sample : TUNE
 Misc : WG2028184,,ical
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Feb 03 15:42:23 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\dftppsv118.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jan 31 09:46:03 2025
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(6) ddt (T)

5.995min (+ 0.044) 54.43

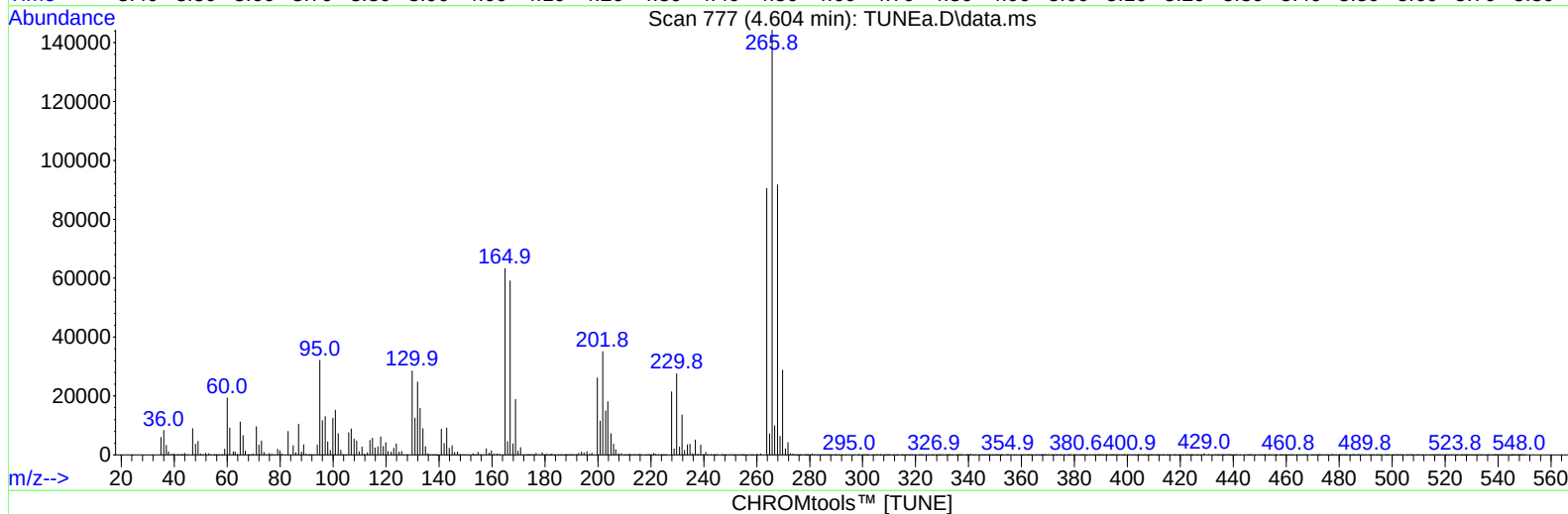
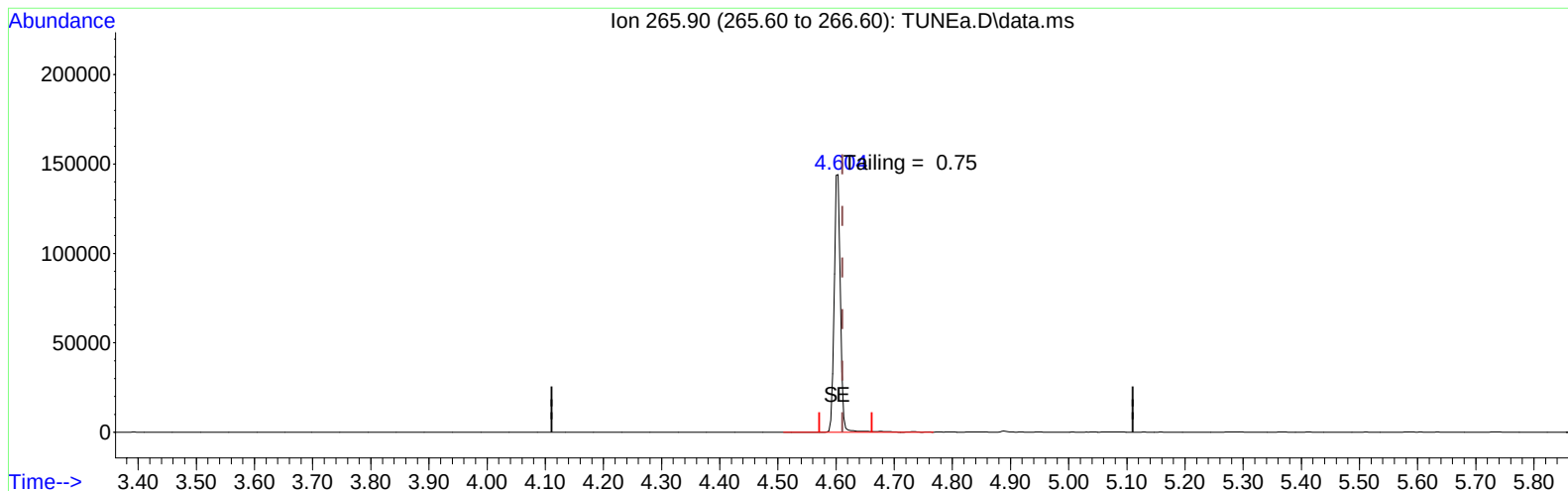
response 331812

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.48
165.10	53.30	49.34
199.10	17.10	14.51

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : TUNEa.D
 Acq On : 03 Feb 2025 03:28 pm
 Operator : SV118:rp
 Sample : TUNE
 Misc : WG2028184,,ical
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Feb 03 15:42:23 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\dftppsv118.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jan 31 09:46:03 2025
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(1) pentachlorophenol (T)

4.604min (-0.007) 51.67

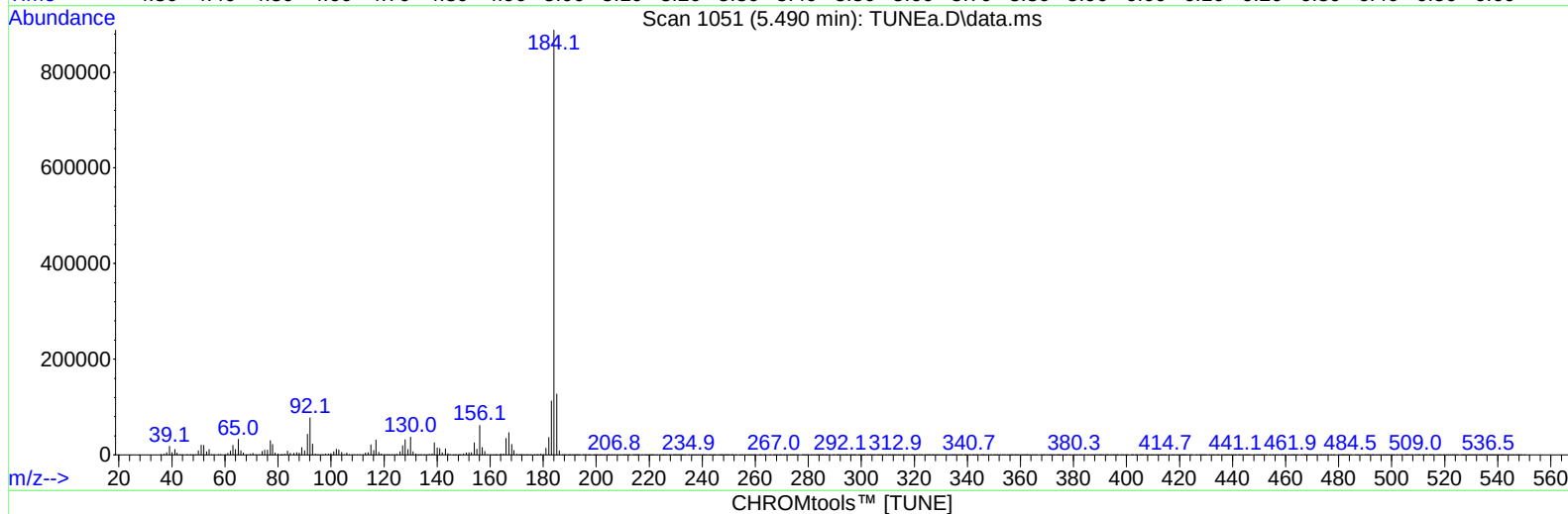
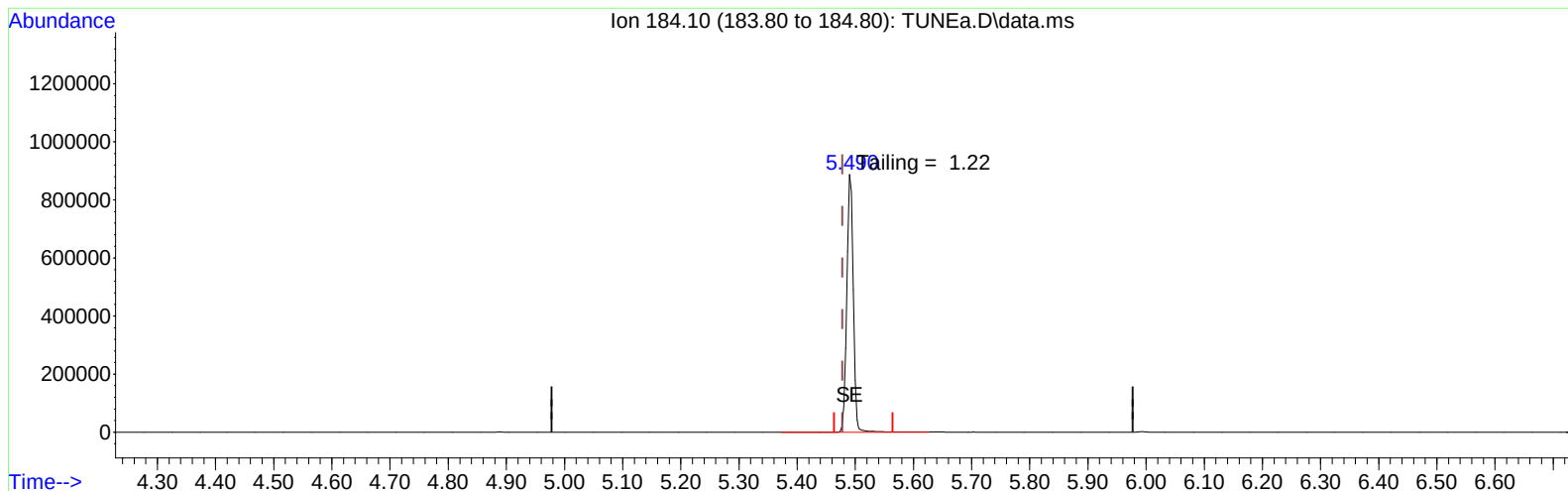
response 108526

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\SV118\250203RVTical\
 Data File : TUNEa.D
 Acq On : 03 Feb 2025 03:28 pm
 Operator : SV118:rp
 Sample : TUNE
 Misc : WG2028184,,ical
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Feb 03 15:42:23 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\dftppsv118.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jan 31 09:46:03 2025
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(3) benzidine (T)

5.490min (+ 0.012) 67.04

response 682518

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\SV118\250203RVTical\
 Data File : L10.D
 Acq On : 03 Feb 2025 03:47 pm
 Operator : SV118:rp
 Sample : IL10,32,, #11278 5000 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 07 14:31:04 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:15:43 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.194	152	452197	4000.000	ng/ml	-0.01
Standard Area 1 = 474552			Recovery = 95.29%			
8) Naphthalene-d8	2.860	136	1708889	4000.000	ng/ml	-0.03
Standard Area 1 = 1755733			Recovery = 97.33%			
17) Acenaphthene-d10	3.841	164	959890	4000.000	ng/ml	-0.04
Standard Area 1 = 985911			Recovery = 97.36%			
22) Phenanthrene-d10	4.685	188	1893106	4000.000	ng/ml	-0.04
Standard Area 1 = 1968639			Recovery = 96.16%			
31) Chrysene-d12	6.255	240	1694132	4000.000	ng/ml	-0.02
Standard Area 1 = 1866106			Recovery = 90.78%			
36) Perylene-d12	7.468	264	1693455M4	4000.000	ng/ml	-0.04
Standard Area 1 = 1827508			Recovery = 92.66%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.614	112	639284	4623.256	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 231.16%#			
3) Phenol-d6	2.009	99	811214	4896.212	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 244.81%#			
7) Nitrobenzene-d5	2.478	82	687968	5085.038	ng/ml	-0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery = 508.50%#			
13) 2-Fluorobiphenyl	3.461	172	1604831	4288.736	ng/ml	-0.03
Spiked Amount 1000.000	Range 30 - 130		Recovery = 428.87%#			
21) 2,4,6-Tribromophenol	4.290	330	256213	5770.160	ng/ml	-0.04
Spiked Amount 2000.000	Range 15 - 110		Recovery = 288.51%#			
30) 4-Terphenyl-d14	5.614	244	1877732	4269.731	ng/ml	-0.03
Spiked Amount 1000.000	Range 30 - 130		Recovery = 426.97%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.063	93	675718	4593.251	ng/ml	100
5) n-nitrosodi-n-propylamine	2.404	70	504114	5343.512	ng/ml	99
6) Hexachloroethane	2.453	117	295748	4806.130	ng/ml	100
9) Naphthalene	2.871	128	2127755	4381.902	ng/ml	99
10) Hexachlorobutadiene	2.943	225	406590	4676.161	ng/ml	100
11) 2-Methylnaphthalene	3.252	142	1372563	4542.803	ng/ml	99
12) 1-Methylnaphthalene	3.307	142	1392381	4534.462	ng/ml	99
14) 2-Chloronaphthalene	3.524	162	1502213	4595.234	ng/ml	99
15) 2,6-Dinitrotoluene	3.725	165	397823	5461.950	ng/ml	98
16) Acenaphthylene	3.758	152	2382002	4765.250	ng/ml	98
18) Acenaphthene	3.860	153	1546680	4526.279	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L10.D
 Acq On : 03 Feb 2025 03:47 pm
 Operator : SV118:rp
 Sample : IL10,32,, #11278 5000 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 07 14:31:04 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:15:43 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	2,4-Dinitrotoluene	3.954	165	547074	5545.033	ng/ml	98
20)	Fluorene	4.151	166	1717061	4570.298	ng/ml	99
23)	4,6-Dinitro-o-cresol	4.189	198	318883	5162.455	ng/ml	99
24)	Hexachlorobenzene	4.472	284	574779	4584.263	ng/ml	98
25)	Pentachlorophenol	4.583	266	379430	4565.100	ng/ml	100
26)	Phenanthrene	4.699	178	2522705	4395.127	ng/ml	98
27)	Anthracene	4.729	178	2620420	4606.134	ng/ml	98
28)	Fluoranthene	5.385	202	2913960	4464.170	ng/ml	98
29)	Pyrene	5.516	202	2986325	4420.526	ng/ml	98
32)	Benzo[a]anthracene	6.247	226	862415	4817.827	ng/ml#	95
33)	3,3'-Dichlorobenzidine	6.237	252	1279887	5655.686	ng/ml	99
34)	Chrysene	6.275	228	2782067	4759.864	ng/ml#	98
35)	Bis(2-ethylhexyl)phtha...	6.284	149	2116516	5149.319	ng/ml	98
37)	Benzo[b]fluoranthene	7.096	252	2796699	5015.226	ng/ml	99
38)	Benzo[k]fluoranthene	7.125	252	2679131M6	5057.114	ng/ml	
39)	Benzo[a]pyrene	7.406	252	2529301	5450.456	ng/ml	99
40)	Indeno[1,2,3-cd]pyrene	8.699	276	2352804	5718.907	ng/ml	99
41)	Dibenzo[a,h]anthracene	8.738	278	2256830M6	5677.930	ng/ml	
42)	Benzo[g,h,i]perylene	9.043	276	2360973M6	5430.963	ng/ml	

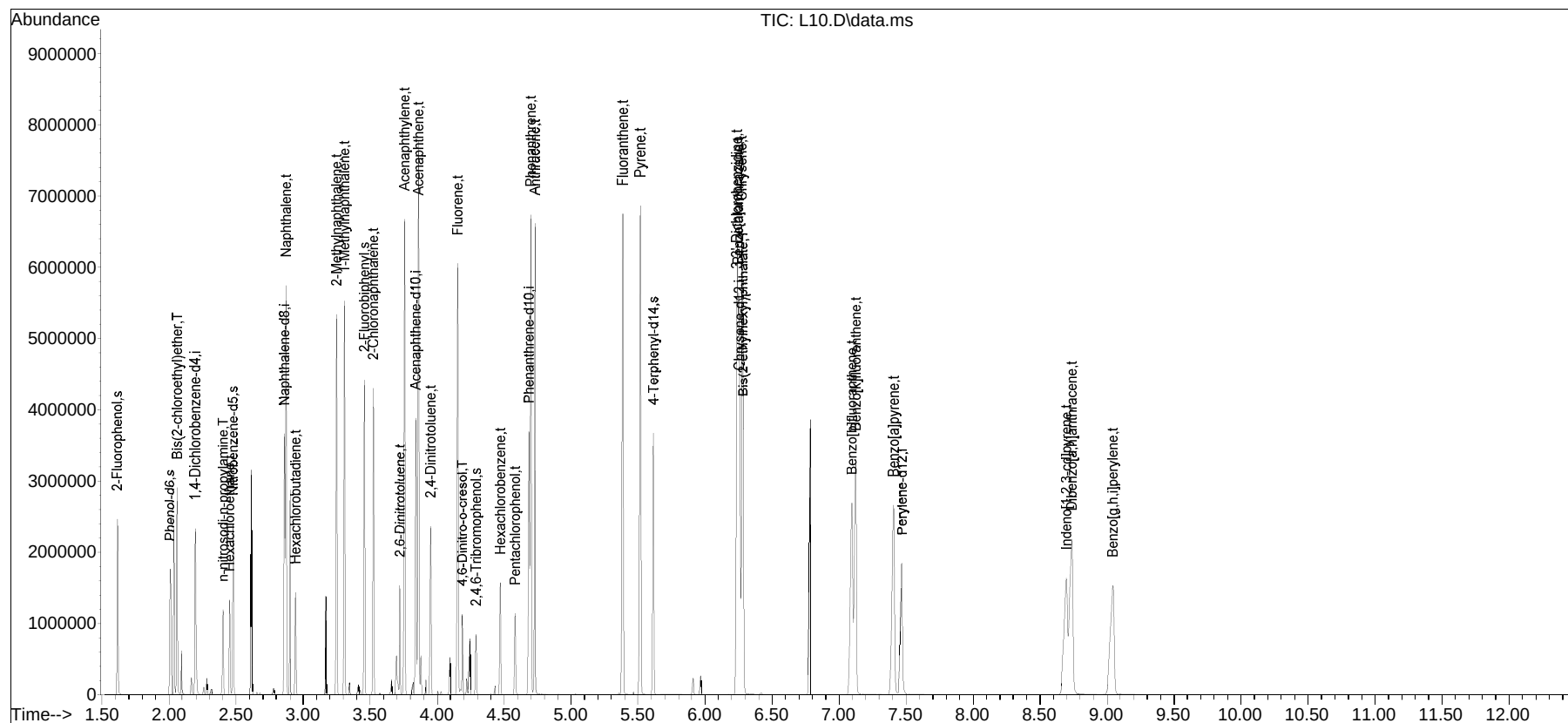
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L10.D
 Acq On : 03 Feb 2025 03:47 pm
 Operator : SV118:rp
 Sample : IL10,32,, #11278 5000 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 07 14:31:04 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:15:43 2025
 Response via : Initial Calibration

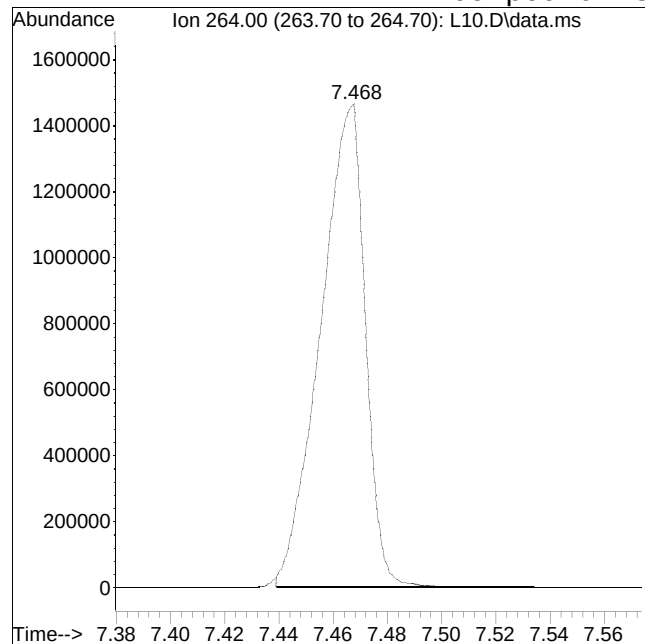
Sub List : Default - All compounds listedical\L8.D•



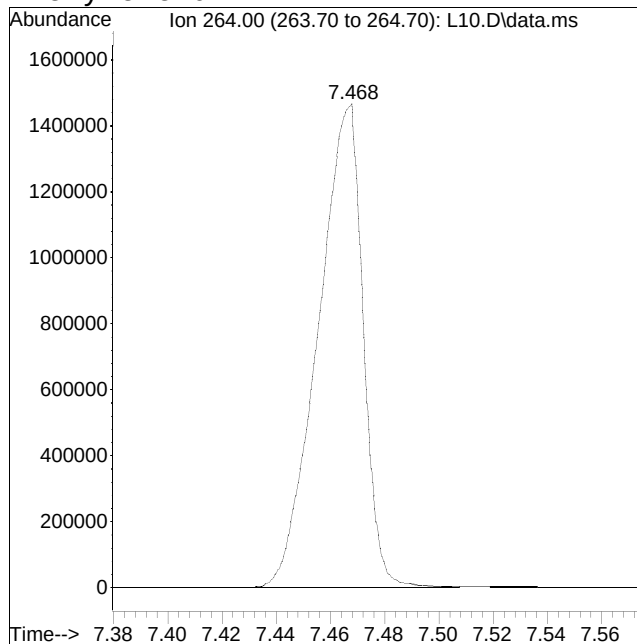
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L10.D Operator : SV118:rp
Date Inj'd : 2/3/2025 3:47 pm Instrument : SV118
Sample : IL10,32,, #11278 5000 ng/mQuant Date : 2/4/2025 10:15 am

Compound #36: Perylene-d12



Original Peak Response = 1677628



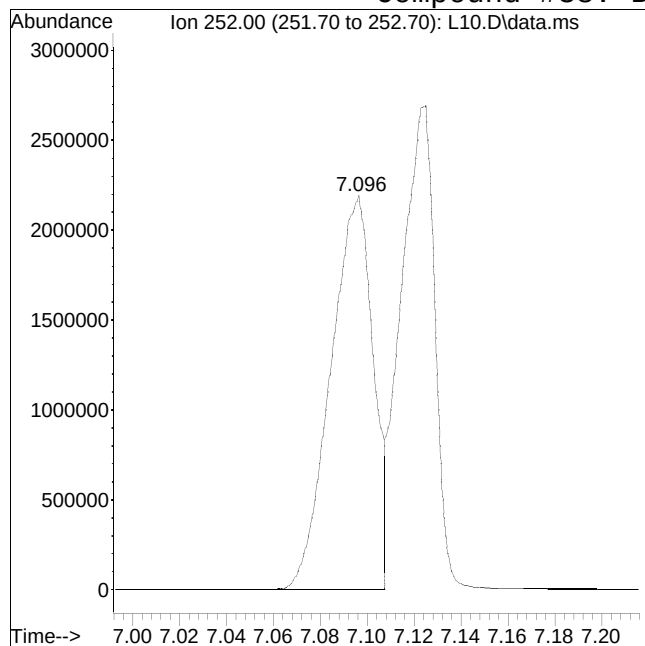
Manual Peak Response = 1693455 M4

M4 = Poor automated baseline construction.

Manual Integration Report

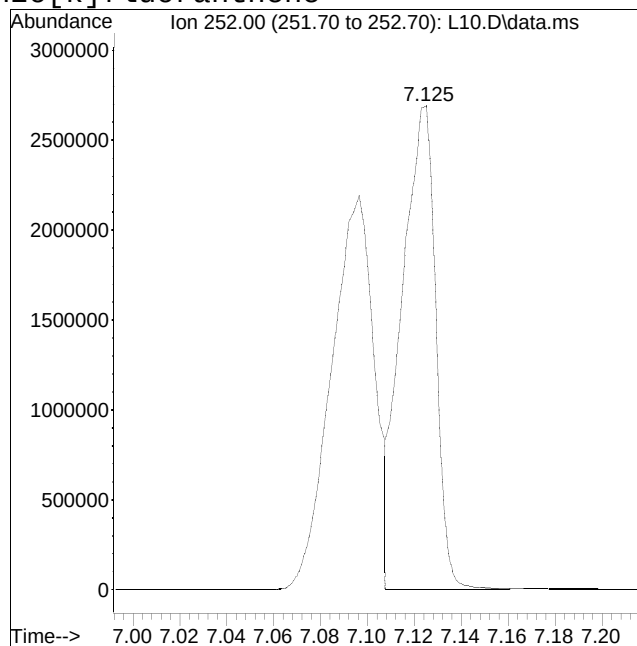
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L10.D Operator : SV118:rp
Date Inj'd : 2/3/2025 3:47 pm Instrument : SV118
Sample : IL10,32,, #11278 5000 ng/mQuant Date : 2/4/2025 10:15 am

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 2796699

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

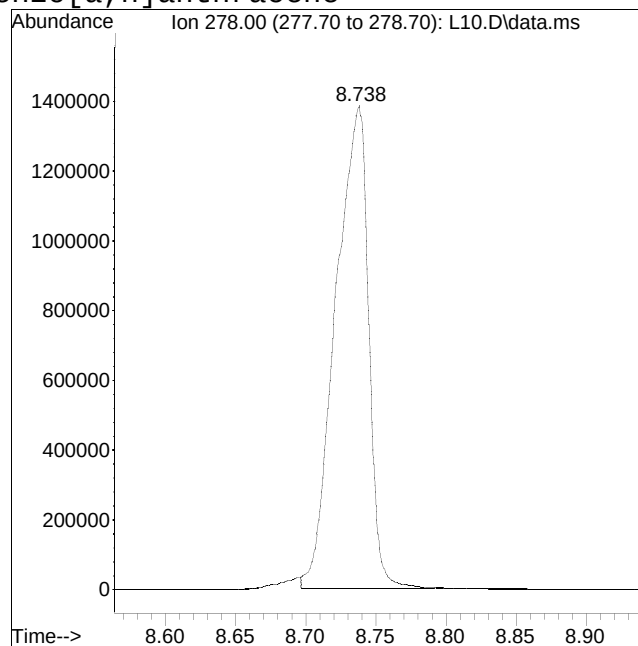
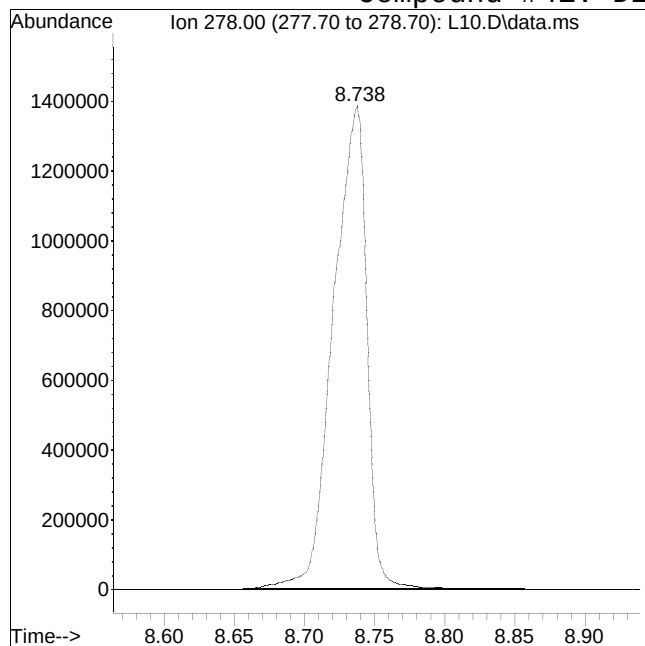


Manual Peak Response = 2679131 M6

Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L10.D Operator : SV118:rp
Date Inj'd : 2/3/2025 3:47 pm Instrument : SV118
Sample : IL10,32,, #11278 5000 ng/mQuant Date : 2/4/2025 10:15 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 2308735

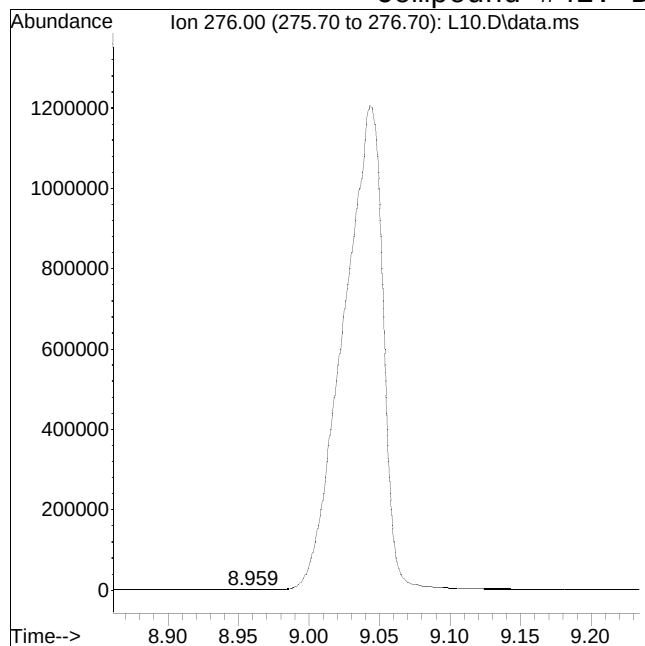
Manual Peak Response = 2256830 M6

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

Manual Integration Report

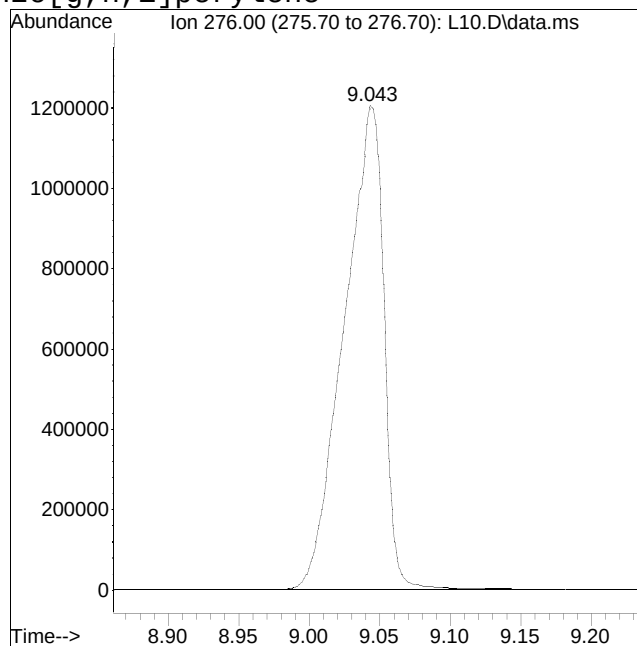
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L10.D Operator : SV118:rp
Date Inj'd : 2/3/2025 3:47 pm Instrument : SV118
Sample : IL10,32,, #11278 5000 ng/mQuant Date : 2/4/2025 10:15 am

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 19

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



Manual Peak Response = 2360973 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L9.D
 Acq On : 03 Feb 2025 04:04 pm
 Operator : SV118:rp
 Sample : IL9,32,, #11280 2500 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 10:25:38 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:16:22 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.197	152	437004	4000.000	ng/ml	0.00
Standard Area 1 = 474552			Recovery = 92.09%			
8) Naphthalene-d8	2.862	136	1641172	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery = 93.48%			
17) Acenaphthene-d10	3.841	164	934478	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery = 94.78%			
22) Phenanthrene-d10	4.684	188	1879809	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery = 95.49%			
31) Chrysene-d12	6.243	240	1801406	4000.000	ng/ml	0.00
Standard Area 1 = 1866106			Recovery = 96.53%			
36) Perylene-d12	7.450	264	1823251	4000.000	ng/ml	0.00
Standard Area 1 = 1827508			Recovery = 99.77%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.617	112	320327	2397.121	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 119.86%#			
3) Phenol-d6	2.011	99	395014	2467.059	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 123.35%#			
7) Nitrobenzene-d5	2.479	82	336601	2574.445	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 257.44%#			
13) 2-Fluorobiphenyl	3.461	172	807891	2248.084	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 224.81%#			
21) 2,4,6-Tribromophenol	4.289	330	124940	2890.284	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 144.51%#			
30) 4-Terphenyl-d14	5.606	244	1019461	2334.526	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 233.45%#			
Target Compounds						
						Qvalue
4) Bis(2-chloroethyl)ether	2.066	93	329472	2317.477	ng/ml	100
5) n-nitrosodi-n-propylamine	2.403	70	242500	2659.819	ng/ml	100
6) Hexachloroethane	2.455	117	144267	2425.956	ng/ml	100
9) Naphthalene	2.871	128	1068336	2290.913	ng/ml	100
10) Hexachlorobutadiene	2.945	225	198057	2371.825	ng/ml	100
11) 2-Methylnaphthalene	3.254	142	682409	2351.777	ng/ml	100
12) 1-Methylnaphthalene	3.309	142	692763	2349.157	ng/ml	100
14) 2-Chloronaphthalene	3.526	162	744311	2370.775	ng/ml	100
15) 2,6-Dinitrotoluene	3.722	165	193375	2764.508	ng/ml	99
16) Acenaphthylene	3.759	152	1218847	2538.940	ng/ml	100
18) Acenaphthene	3.859	153	773213	2324.301	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L9.D
 Acq On : 03 Feb 2025 04:04 pm
 Operator : SV118:rp
 Sample : IL9,32,, #11280 2500 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 10:25:38 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:16:22 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	2,4-Dinitrotoluene	3.951	165	271346	2825.100	ng/ml	98
20)	Fluorene	4.150	166	872604	2385.769	ng/ml	99
23)	4,6-Dinitro-o-cresol	4.183	198	150296	2468.753	ng/ml	99
24)	Hexachlorobenzene	4.469	284	288514	2317.377	ng/ml	99
25)	Pentachlorophenol	4.582	266	178859	2488.628	ng/ml	100
26)	Phenanthrene	4.696	178	1322388	2320.198	ng/ml	99
27)	Anthracene	4.726	178	1363415	2413.543	ng/ml	99
28)	Fluoranthene	5.380	202	1564141	2413.205	ng/ml	100
29)	Pyrene	5.509	202	1610033	2400.119	ng/ml	99
32)	Benzo[a]anthracene	6.231	226	453580	2383.002	ng/ml#	98
33)	3,3'-Dichlorobenzidine	6.222	252	675166	2805.821	ng/ml	99
34)	Chrysene	6.257	228	1506431	2423.884	ng/ml#	99
35)	Bis(2-ethylhexyl)phtha...	6.272	149	1078190	2481.619	ng/ml	99
37)	Benzo[b]fluoranthene	7.074	252	1501052	2500.159	ng/ml	99
38)	Benzo[k]fluoranthene	7.101	252	1460458	2560.502	ng/ml	99
39)	Benzo[a]pyrene	7.383	252	1353116	2708.286	ng/ml	99
40)	Indeno[1,2,3-cd]pyrene	8.674	276	1223899	2763.122	ng/ml	99
41)	Dibenzo[a,h]anthracene	8.707	278	1192078M6	2785.627	ng/ml	
42)	Benzo[g,h,i]perylene	9.014	276	1244200	2658.295	ng/ml	100

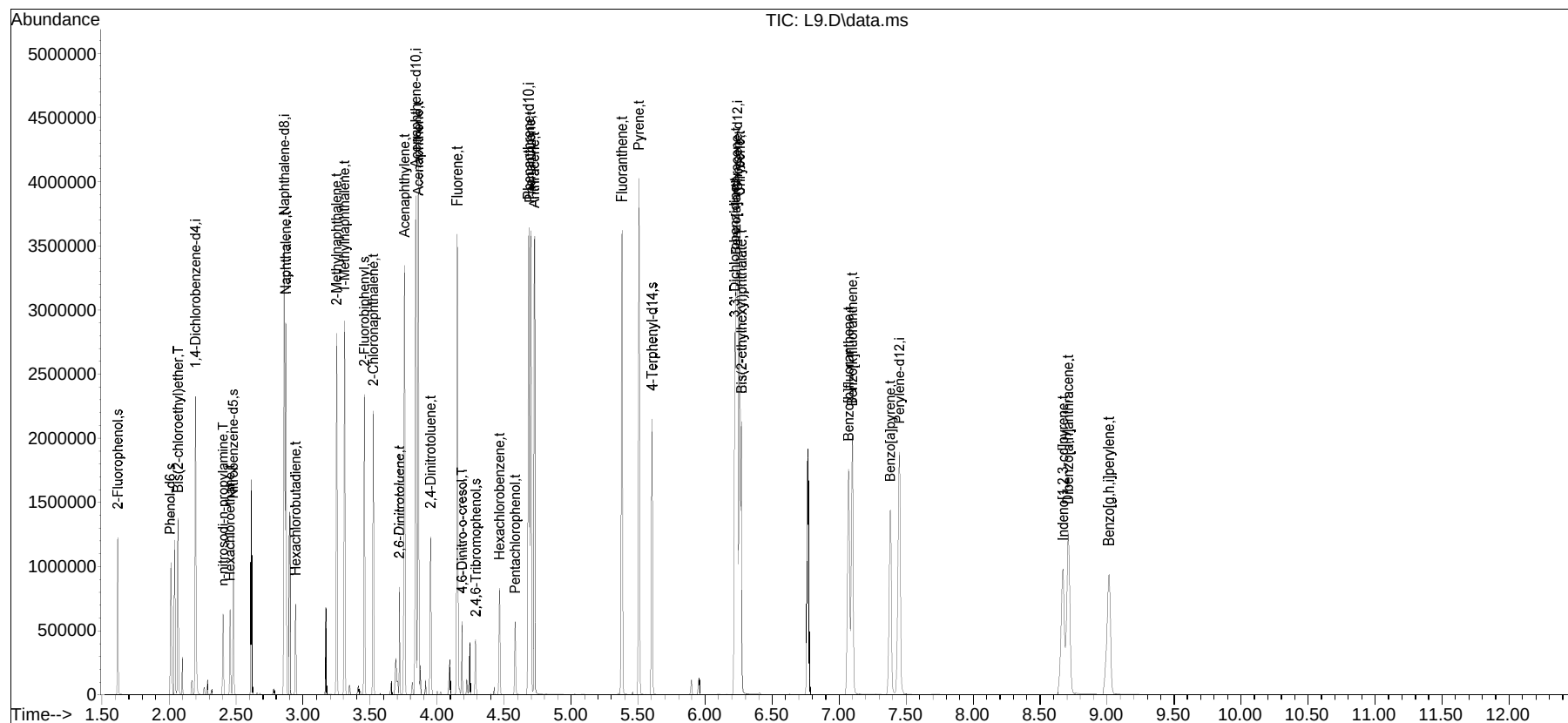
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L9.D
 Acq On : 03 Feb 2025 04:04 pm
 Operator : SV118:rp
 Sample : IL9,32,, #11280 2500 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 10:25:38 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:16:22 2025
 Response via : Initial Calibration

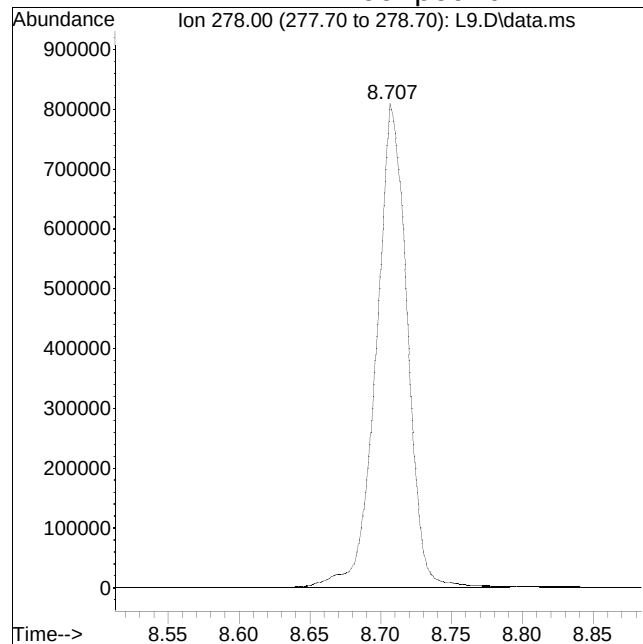
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

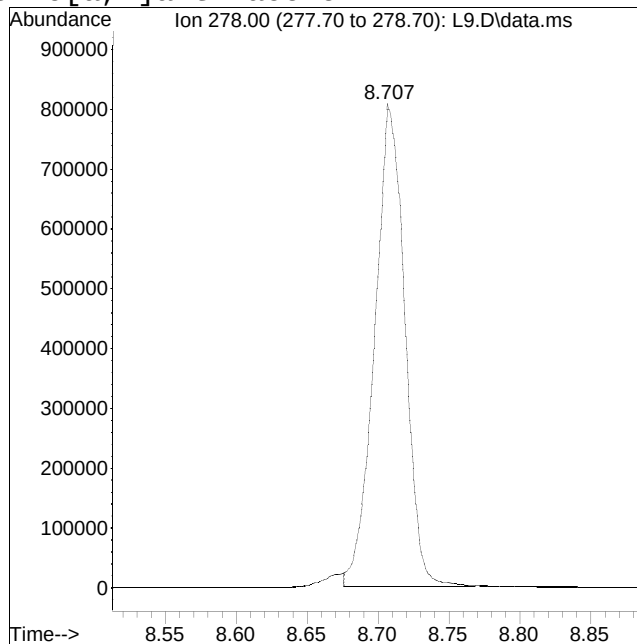
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L9.D Operator : SV118:rp
Date Inj'd : 2/3/2025 4:04 pm Instrument : SV118
Sample : IL9,32,, #11280 2500 ng/ml Quant Date : 2/4/2025 10:16 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1235308

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



Manual Peak Response = 1192078 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L8.D
 Acq On : 03 Feb 2025 04:20 pm
 Operator : SV118:rp
 Sample : IL8,32,, #11281 1000 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 04 10:15:08 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:16:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.200	152	474400	4000.000	ng/ml	0.00
Standard Area 1 = 474552			Recovery	=	99.97%	
8) Naphthalene-d8	2.861	136	1755733	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery	=	100.00%	
17) Acenaphthene-d10	3.841	164	985911	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery	=	100.00%	
22) Phenanthrene-d10	4.684	188	1968639	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery	=	100.00%	
31) Chrysene-d12	6.237	240	1866853	4000.000	ng/ml	0.00
Standard Area 1 = 1866106			Recovery	=	100.04%	
36) Perylene-d12	7.444	264	1847760	4000.000	ng/ml	0.00
Standard Area 1 = 1827508			Recovery	=	101.11%	
System Monitoring Compounds						
2) 2-Fluorophenol	1.621	112	145743	1004.673	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	50.23%	
3) Phenol-d6	2.012	99	175761	1011.184	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	50.56%	
7) Nitrobenzene-d5	2.480	82	149010	1049.843	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	104.98%	
13) 2-Fluorobiphenyl	3.461	172	369235	960.414	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	96.04%	
21) 2,4,6-Tribromophenol	4.286	330	52869	1159.235	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	57.96%	
30) 4-Terphenyl-d14	5.604	244	449158	982.143	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	98.21%	
Target Compounds						
						Qvalue
4) Bis(2-chloroethyl)ether	2.067	93	150466	974.936	ng/ml	100
5) n-nitrosodi-n-propylamine	2.403	70	104905	1059.930	ng/ml	100
6) Hexachloroethane	2.457	117	64799	1003.749	ng/ml	100
9) Naphthalene	2.873	128	482745	967.641	ng/ml	100
10) Hexachlorobutadiene	2.946	225	89422	1000.996	ng/ml	100
11) 2-Methylnaphthalene	3.254	142	308281	993.102	ng/ml	100
12) 1-Methylnaphthalene	3.309	142	312243	989.728	ng/ml	100
14) 2-Chloronaphthalene	3.525	162	334556	996.094	ng/ml	100
15) 2,6-Dinitrotoluene	3.722	165	80951	1081.771	ng/ml	100
16) Acenaphthylene	3.759	152	542495	1056.318	ng/ml	100
18) Acenaphthene	3.859	153	345172	983.468	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L8.D
 Acq On : 03 Feb 2025 04:20 pm
 Operator : SV118:rp
 Sample : IL8,32,, #11281 1000 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 04 10:15:08 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:16:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	2,4-Dinitrotoluene	3.951	165	112289	1108.100	ng/ml	100
20)	Fluorene	4.149	166	388437	1006.614	ng/ml	100
23)	4,6-Dinitro-o-cresol	4.180	198	57711	927.332	ng/ml	100
24)	Hexachlorobenzene	4.469	284	129022	989.558	ng/ml	100
25)	Pentachlorophenol	4.579	266	69610	1035.983	ng/ml	100
26)	Phenanthrene	4.696	178	585672	981.224	ng/ml	100
27)	Anthracene	4.725	178	601694	1017.069	ng/ml	100
28)	Fluoranthene	5.379	202	683086	1006.332	ng/ml	100
29)	Pyrene	5.508	202	716810	1020.351	ng/ml	100
32)	Benzo[a]anthracene	6.225	226	190425	965.375	ng/ml#	100
33)	3,3'-Dichlorobenzidine	6.215	252	269575	1081.012	ng/ml	100
34)	Chrysene	6.252	228	646269	1003.408	ng/ml#	100
35)	Bis(2-ethylhexyl)phtha...	6.263	149	411989	932.797	ng/ml	100
37)	Benzo[b]fluoranthene	7.064	252	619863	1018.752	ng/ml	100
38)	Benzo[k]fluoranthene	7.090	252	621770	1075.639	ng/ml	100
39)	Benzo[a]pyrene	7.371	252	554169	1094.467	ng/ml	100
40)	Indeno[1,2,3-cd]pyrene	8.658	276	489591	1090.659	ng/ml	100
41)	Dibenzo[a,h]anthracene	8.693	278	488744M6	1126.940	ng/ml	
42)	Benzo[g,h,i]perylene	8.998	276	512735	1080.953	ng/ml	100

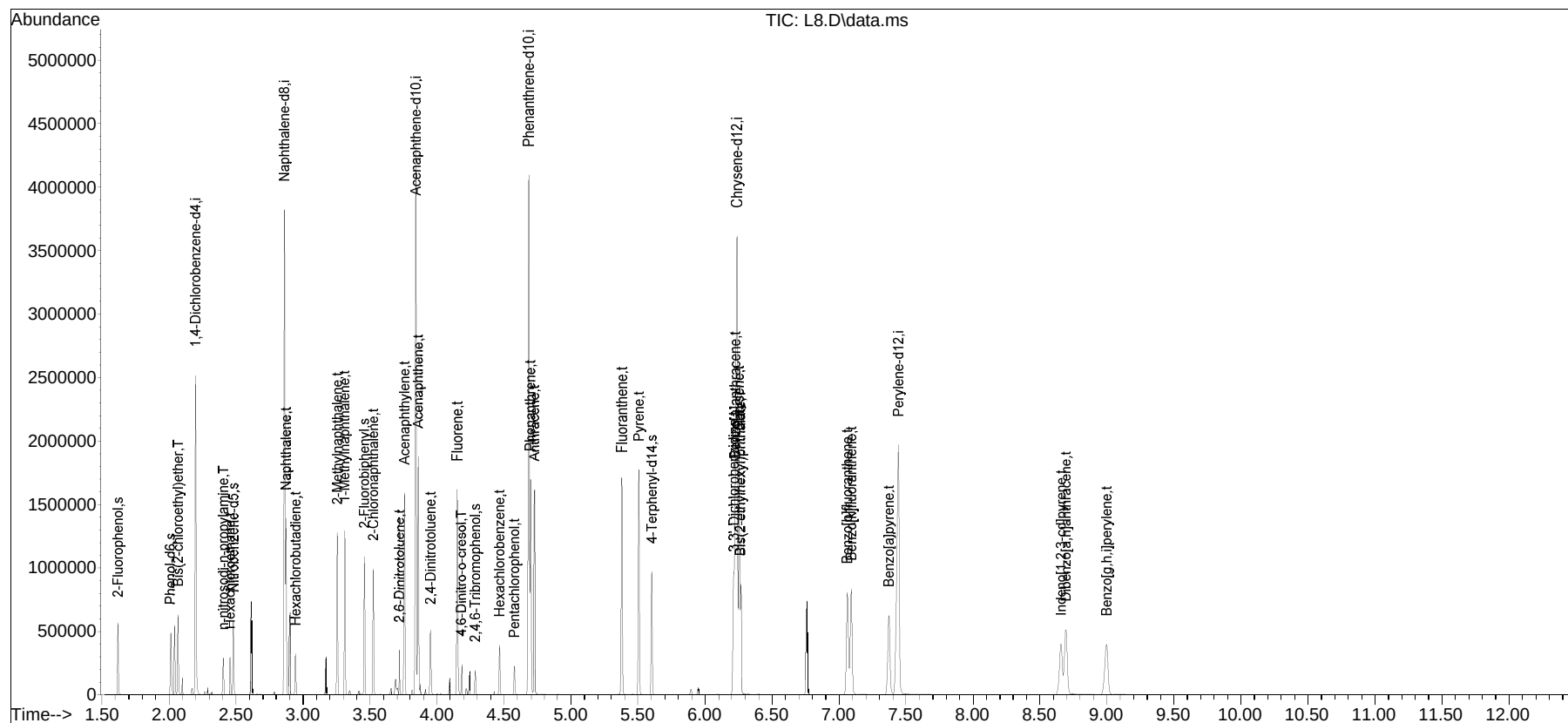
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L8.D
 Acq On : 03 Feb 2025 04:20 pm
 Operator : SV118:rp
 Sample : IL8,32,, #11281 1000 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 04 10:15:08 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:16:18 2025
 Response via : Initial Calibration

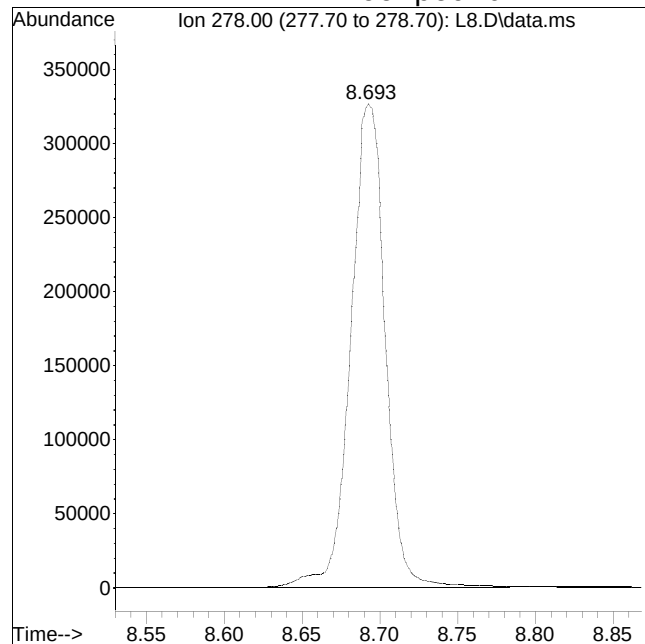
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

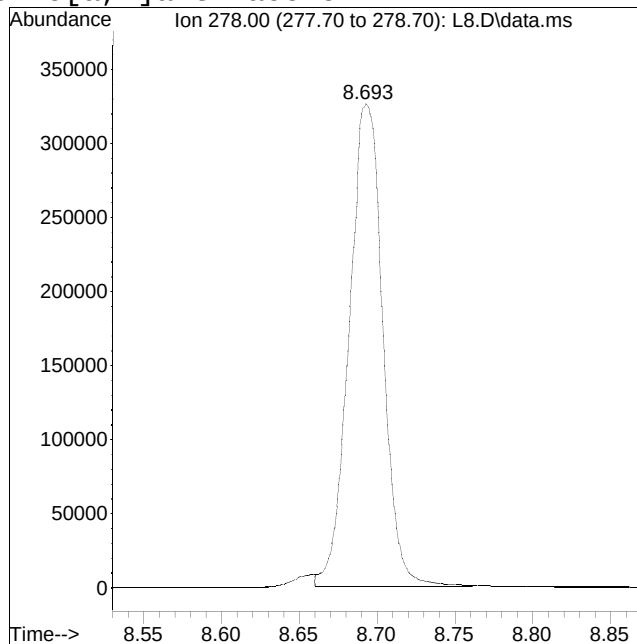
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L8.D Operator : SV118:rp
Date Inj'd : 2/3/2025 4:20 pm Instrument : SV118
Sample : IL8,32,, #11281 1000 ng/ml Quant Date : 2/4/2025 10:16 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 505050

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



Manual Peak Response = 488744 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L7.D
 Acq On : 03 Feb 2025 04:38 pm
 Operator : SV118:rp
 Sample : IL7,32,, #11282 500 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 04 10:15:02 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:16:12 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.199	152	478468	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery	=	100.86%	
8) Naphthalene-d8	2.861	136	1773140	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery	=	100.99%	
17) Acenaphthene-d10	3.841	164	1006527	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery	=	102.09%	
22) Phenanthrene-d10	4.686	188	2009391	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery	=	102.07%	
31) Chrysene-d12	6.239	240	1955025	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery	=	104.72%	
36) Perylene-d12	7.448	264	1892664	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery	=	102.43%	
System Monitoring Compounds						
2) 2-Fluorophenol	1.618	112	75282	514.541	ng/ml	0.00
Spiked Amount 2000.000	Range	15 - 110	Recovery	=	25.73%	
3) Phenol-d6	2.010	99	89872	512.654	ng/ml	0.00
Spiked Amount 2000.000	Range	15 - 110	Recovery	=	25.63%	
7) Nitrobenzene-d5	2.480	82	76068	531.377	ng/ml	0.00
Spiked Amount 1000.000	Range	30 - 130	Recovery	=	53.14%	
13) 2-Fluorobiphenyl	3.462	172	194913	502.009	ng/ml	0.00
Spiked Amount 1000.000	Range	30 - 130	Recovery	=	50.20%	
21) 2,4,6-Tribromophenol	4.288	330	26694	573.319	ng/ml	0.00
Spiked Amount 2000.000	Range	15 - 110	Recovery	=	28.67%	
30) 4-Terphenyl-d14	5.604	244	242980	520.533	ng/ml	0.00
Spiked Amount 1000.000	Range	30 - 130	Recovery	=	52.05%	
Target Compounds						
						Qvalue
4) Bis(2-chloroethyl)ether	2.066	93	78373	503.496	ng/ml	100
5) n-nitrosodi-n-propylamine	2.403	70	52752	528.460	ng/ml	99
6) Hexachloroethane	2.456	117	33245	510.593	ng/ml	100
9) Naphthalene	2.873	128	250409	497.006	ng/ml	100
10) Hexachlorobutadiene	2.946	225	46112	511.114	ng/ml	100
11) 2-Methylnaphthalene	3.255	142	160230	511.100	ng/ml	100
12) 1-Methylnaphthalene	3.310	142	163256	512.398	ng/ml	100
14) 2-Chloronaphthalene	3.526	162	174533	514.546	ng/ml	100
15) 2,6-Dinitrotoluene	3.722	165	39529	523.052	ng/ml	98
16) Acenaphthylene	3.759	152	281212	542.186	ng/ml	100
18) Acenaphthene	3.859	153	179745	501.642	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L7.D
 Acq On : 03 Feb 2025 04:38 pm
 Operator : SV118:rp
 Sample : IL7,32,, #11282 500 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 04 10:15:02 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:16:12 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	2,4-Dinitrotoluene	3.951	165	54956	531.214	ng/ml	97
20)	Fluorene	4.152	166	204042	517.934	ng/ml	100
23)	4,6-Dinitro-o-cresol	4.180	198	26779	440.646	ng/ml	98
24)	Hexachlorobenzene	4.469	284	67893	510.157	ng/ml	100
25)	Pentachlorophenol	4.581	266	32624	501.574	ng/ml	100
26)	Phenanthrene	4.698	178	308118	505.746	ng/ml	100
27)	Anthracene	4.725	178	315856	523.077	ng/ml	100
28)	Fluoranthene	5.377	202	363708	524.953	ng/ml	99
29)	Pyrene	5.508	202	380989	531.324	ng/ml	99
32)	Benzo[a]anthracene	6.229	226	100349	485.784	ng/ml#	100
33)	3,3'-Dichlorobenzidine	6.216	252	134288	514.216	ng/ml	100
34)	Chrysene	6.253	228	349178	517.689	ng/ml#	99
35)	Bis(2-ethylhexyl)phtha...	6.266	149	194394	435.762	ng/ml	100
37)	Benzo[b]fluoranthene	7.068	252	326733	524.249	ng/ml	100
38)	Benzo[k]fluoranthene	7.095	252	323330	546.078	ng/ml	99
39)	Benzo[a]pyrene	7.375	252	281877	543.491	ng/ml	100
40)	Indeno[1,2,3-cd]pyrene	8.658	276	237753	517.075	ng/ml	99
41)	Dibenzo[a,h]anthracene	8.697	278	242764M6	546.482	ng/ml	
42)	Benzo[g,h,i]perylene	9.000	276	255221	525.294	ng/ml	100

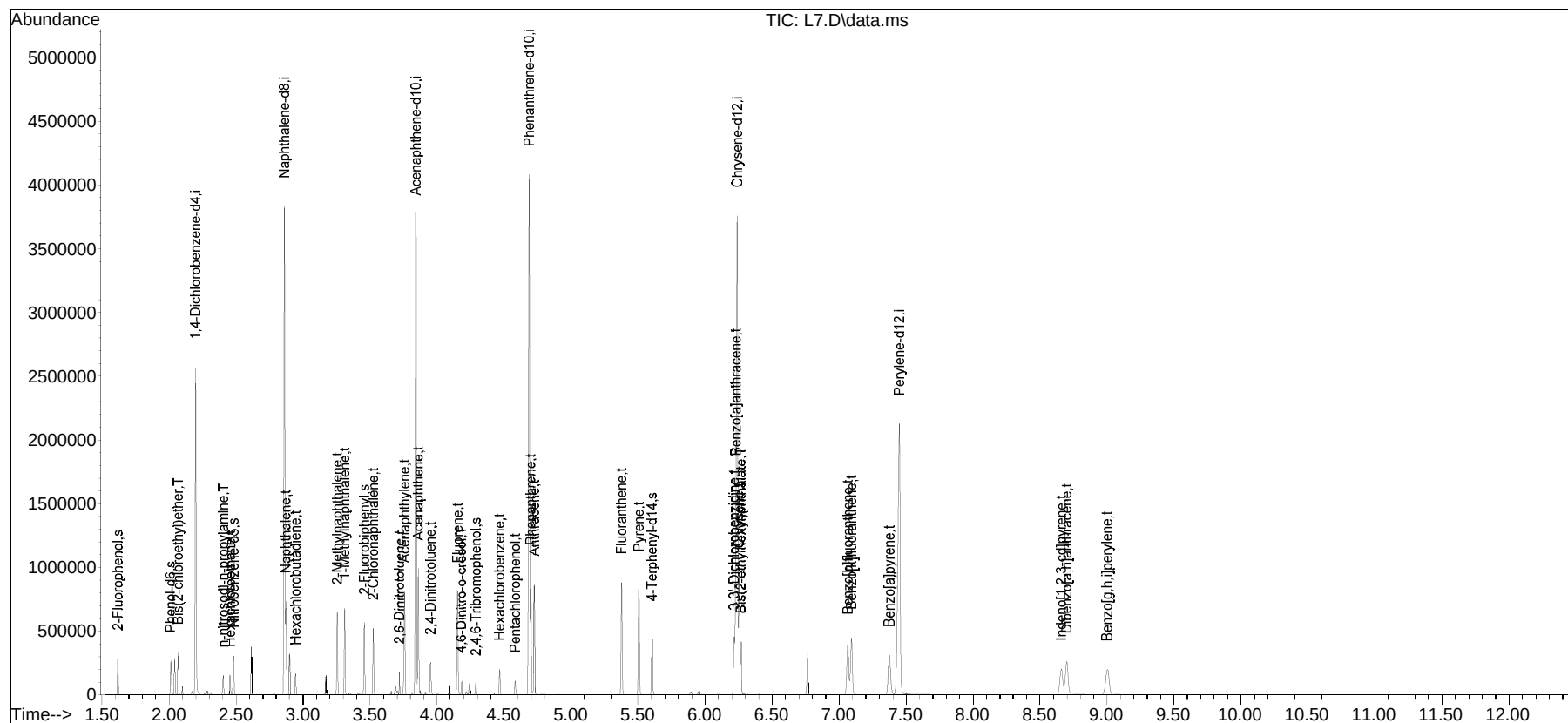
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L7.D
 Acq On : 03 Feb 2025 04:38 pm
 Operator : SV118:rp
 Sample : IL7,32,, #11282 500 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 04 10:15:02 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:16:12 2025
 Response via : Initial Calibration

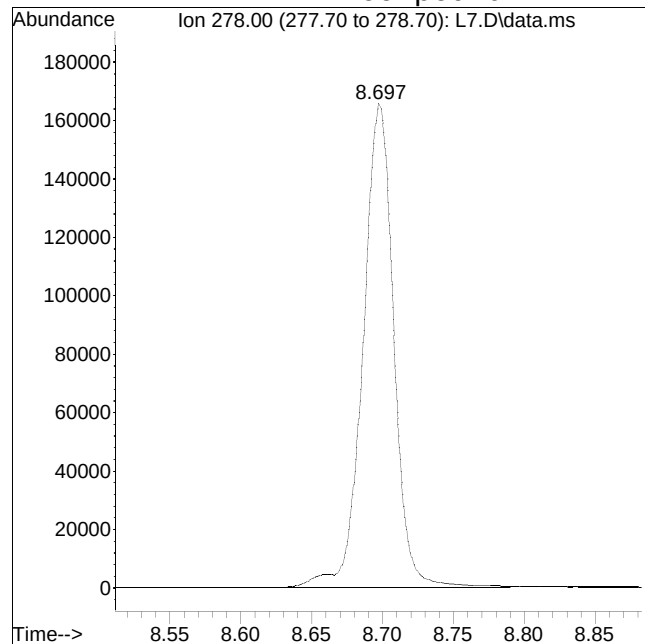
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

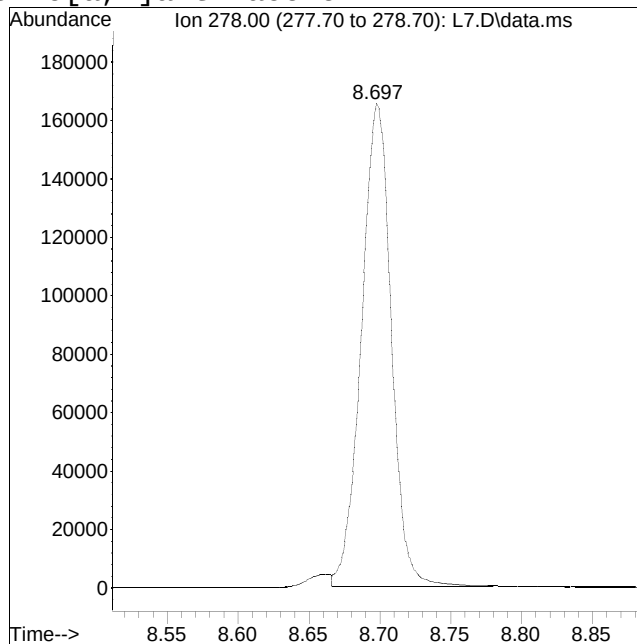
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L7.D Operator : SV118:rp
Date Inj'd : 2/3/2025 4:38 pm Instrument : SV118
Sample : IL7,32,, #11282 500 ng/ml Quant Date : 2/4/2025 10:16 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 251427

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



Manual Peak Response = 242764 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L6.D
 Acq On : 03 Feb 2025 04:55 pm
 Operator : SV118:rp
 Sample : IL6,32,, #11283 100 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 04 10:23:51 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:16:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.201	152	470615	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery =	99.20%		
8) Naphthalene-d8	2.863	136	1698938	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery =	96.77%		
17) Acenaphthene-d10	3.841	164	943071	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery =	95.65%		
22) Phenanthrene-d10	4.684	188	1870963	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery =	95.04%		
31) Chrysene-d12	6.239	240	1797903	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery =	96.31%		
36) Perylene-d12	7.448	264	1701994	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery =	92.11%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.622	112	15165	105.380	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	5.27%#		
3) Phenol-d6	2.013	99	17591	102.018	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	5.10%#		
7) Nitrobenzene-d5	2.481	82	14359	101.979	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	10.20%#		
13) 2-Fluorobiphenyl	3.461	172	38497	103.482	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	10.35%#		
21) 2,4,6-Tribromophenol	4.286	330	4261	97.673	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	4.88%#		
30) 4-Terphenyl-d14	5.605	244	44919	103.349	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	10.33%#		
Target Compounds						
						Qvalue
4) Bis(2-chloroethyl)ether	2.068	93	15870	103.656	ng/ml	100
5) n-nitrosodi-n-propylamine	2.404	70	9739	99.191	ng/ml	98
6) Hexachloroethane	2.458	117	6546	102.214	ng/ml	100
9) Naphthalene	2.874	128	49347	102.221	ng/ml	100
10) Hexachlorobutadiene	2.948	225	9037	104.543	ng/ml	100
11) 2-Methylnaphthalene	3.255	142	30986	103.156	ng/ml	100
12) 1-Methylnaphthalene	3.310	142	31750	104.003	ng/ml	100
14) 2-Chloronaphthalene	3.525	162	33917	104.359	ng/ml	100
15) 2,6-Dinitrotoluene	3.719	165	6299	86.989	ng/ml	93
16) Acenaphthylene	3.758	152	51475	103.580	ng/ml	100
18) Acenaphthene	3.856	153	34526	102.841	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L6.D
 Acq On : 03 Feb 2025 04:55 pm
 Operator : SV118:rp
 Sample : IL6,32,, #11283 100 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 04 10:23:51 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:16:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	2,4-Dinitrotoluene	3.948	165	8230	84.905	ng/ml	87
20)	Fluorene	4.149	166	37941	102.789	ng/ml	98
23)	4,6-Dinitro-o-cresol	4.180	198	3378	89.931	ng/ml	96
24)	Hexachlorobenzene	4.468	284	13062	105.412	ng/ml	100
25)	Pentachlorophenol	4.581	266	4106	78.594	ng/ml	100
26)	Phenanthrene	4.695	178	58692M6	103.465	ng/ml	
27)	Anthracene	4.725	178	57813	102.826	ng/ml	99
28)	Fluoranthene	5.377	202	66381	102.899	ng/ml	99
29)	Pyrene	5.508	202	68763	102.992	ng/ml	100
32)	Benzo[a]anthracene	6.232	226	17631	92.810	ng/ml#	90
33)	3,3'-Dichlorobenzidine	6.217	252	20496	85.342	ng/ml	99
34)	Chrysene	6.254	228	64975	104.750	ng/ml#	100
35)	Bis(2-ethylhexyl)phtha...	6.270	149	27102	89.963	ng/ml	100
37)	Benzo[b]fluoranthene	7.068	252	57404	102.424	ng/ml	99
38)	Benzo[k]fluoranthene	7.092	252	55287	103.836	ng/ml	100
39)	Benzo[a]pyrene	7.375	252	46950	100.666	ng/ml	100
40)	Indeno[1,2,3-cd]pyrene	8.658	276	40457	97.845	ng/ml	99
41)	Dibenzo[a,h]anthracene	8.695	278	40867M6	102.301	ng/ml	
42)	Benzo[g,h,i]perylene	8.996	276	44761	102.447	ng/ml	100

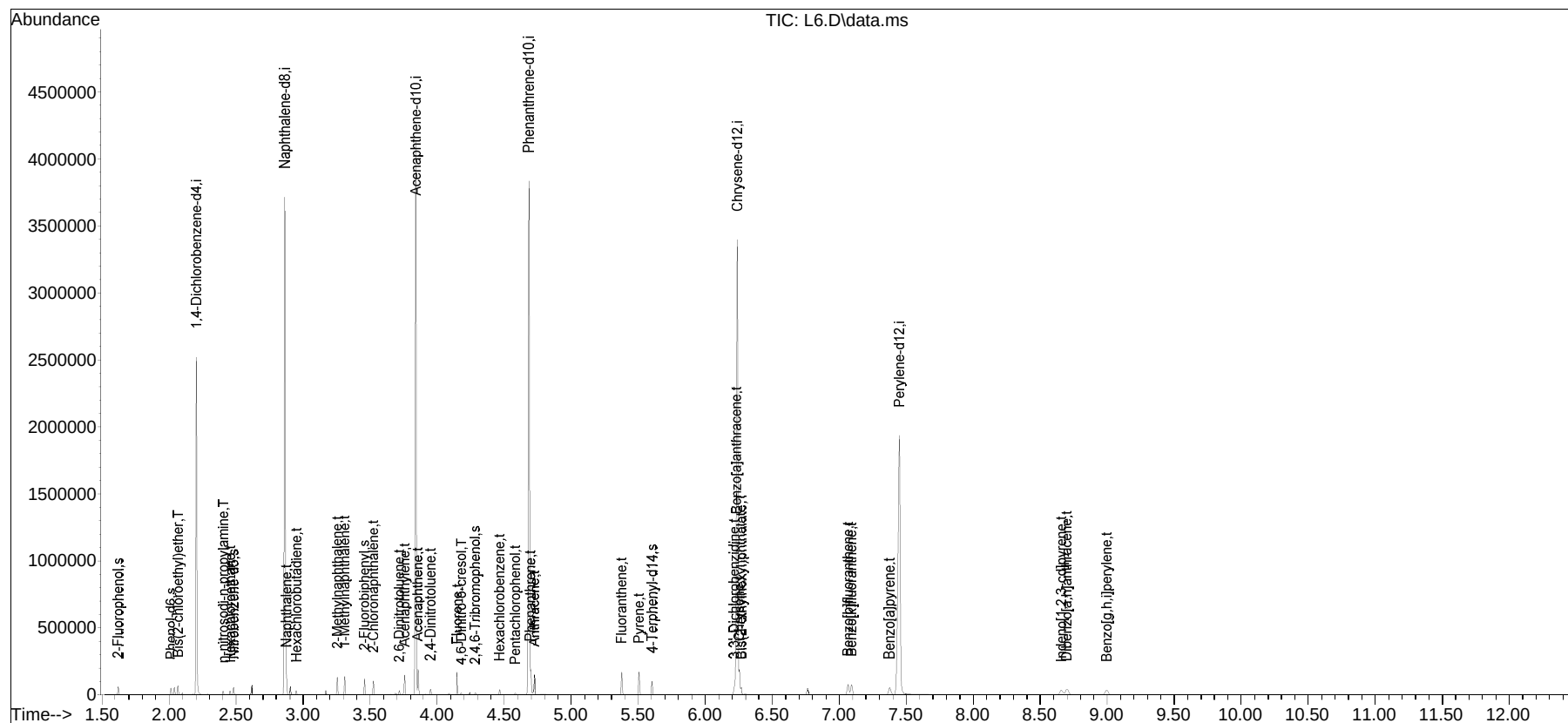
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L6.D
Acq On    : 03 Feb 2025  04:55 pm
Operator  : SV118:rp
Sample    : IL6,32,, #11283 100 ng/ml
Misc      : WG2028184,,ical
ALS Vial  : 5      Sample Multiplier: 1
```

Quant Time: Feb 04 10:23:51 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:08 2025
Response via : Initial Calibration

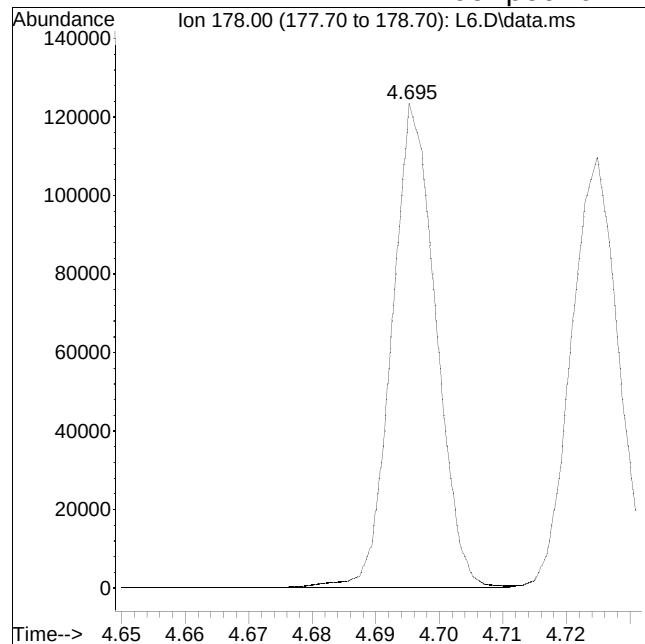
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

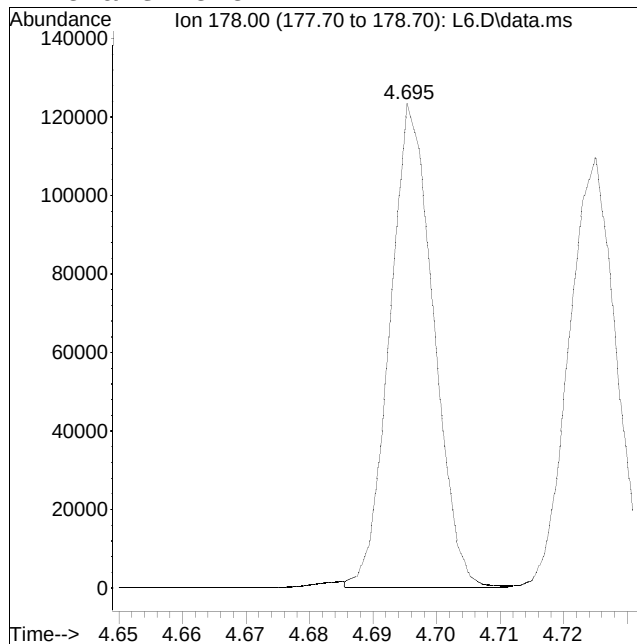
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L6.D Operator : SV118:rp
Date Inj'd : 2/3/2025 4:55 pm Instrument : SV118
Sample : IL6,32,, #11283 100 ng/ml Quant Date : 2/4/2025 10:16 am

Compound #26: Phenanthrene



Original Peak Response = 59494

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

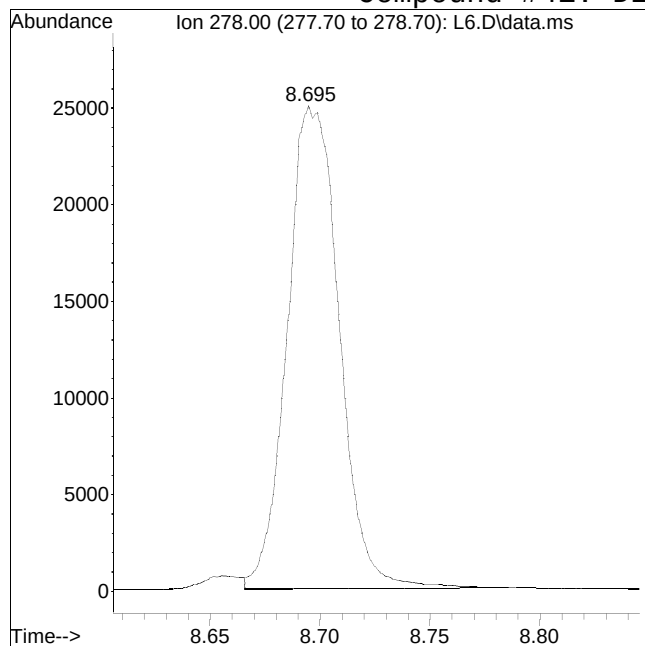


Manual Peak Response = 58692 M6

Manual Integration Report

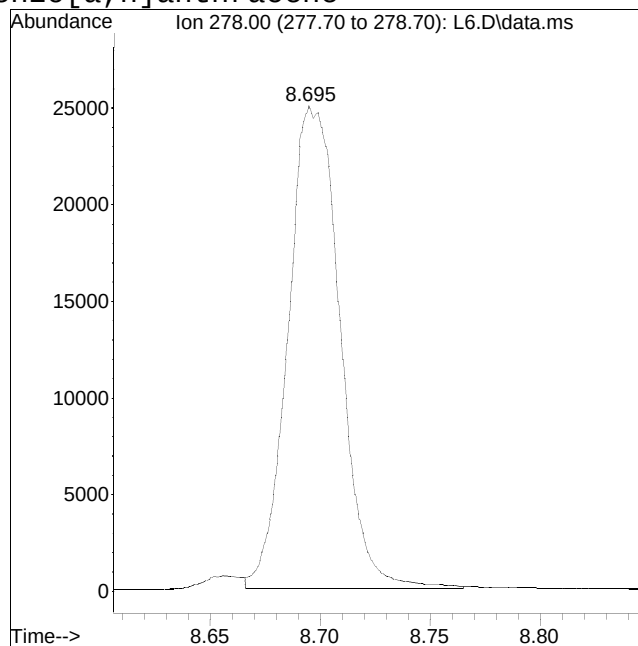
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L6.D Operator : SV118:rp
Date Inj'd : 2/3/2025 4:55 pm Instrument : SV118
Sample : IL6,32,, #11283 100 ng/ml Quant Date : 2/4/2025 10:16 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 41040

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



Manual Peak Response = 40867 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L5.D
 Acq On : 03 Feb 2025 05:12 pm
 Operator : SV118:rp
 Sample : IL5,32,, #11284 40 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 10:14:53 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:16:02 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.200	152	474475	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery = 100.02%			
8) Naphthalene-d8	2.861	136	1710425	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery = 97.42%			
17) Acenaphthene-d10	3.841	164	953080	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery = 96.67%			
22) Phenanthrene-d10	4.684	188	1888214	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery = 95.91%			
31) Chrysene-d12	6.239	240	1864485	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery = 99.87%			
36) Perylene-d12	7.448	264	1797382	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery = 97.27%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.620	112	5890	40.596	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 2.03%#			
3) Phenol-d6	2.012	99	6813	39.190	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.96%#			
7) Nitrobenzene-d5	2.480	82	5565	39.202	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.92%#			
13) 2-Fluorobiphenyl	3.461	172	15247	40.709	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.07%#			
21) 2,4,6-Tribromophenol	4.286	330	1488	33.751	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.69%#			
30) 4-Terphenyl-d14	5.604	244	17879	40.760	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.08%#			
Target Compounds						
						Qvalue
4) Bis(2-chloroethyl)ether	2.067	93	6253	40.510	ng/ml	100
5) n-nitrosodi-n-propylamine	2.403	70	3719	37.570	ng/ml	98
6) Hexachloroethane	2.457	117	2547	39.447	ng/ml	100
9) Naphthalene	2.873	128	19390	39.896	ng/ml	99
10) Hexachlorobutadiene	2.947	225	3540	40.677	ng/ml	100
11) 2-Methylnaphthalene	3.254	142	12144	40.157	ng/ml	100
12) 1-Methylnaphthalene	3.309	142	12446	40.496	ng/ml	99
14) 2-Chloronaphthalene	3.526	162	13348	40.795	ng/ml	100
15) 2,6-Dinitrotoluene	3.720	165	2345	32.167	ng/ml	93
16) Acenaphthylene	3.757	152	19590	39.155	ng/ml	99
18) Acenaphthene	3.857	153	13726	40.455	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L5.D
 Acq On : 03 Feb 2025 05:12 pm
 Operator : SV118:rp
 Sample : IL5,32,, #11284 40 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 10:14:53 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:16:02 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	2,4-Dinitrotoluene	3.949	165	2905	29.655	ng/ml#	82
20)	Fluorene	4.149	166	14808	39.696	ng/ml	99
23)	4,6-Dinitro-o-cresol	4.180	198	987	50.883	ng/ml	95
24)	Hexachlorobenzene	4.469	284	5068	40.526	ng/ml	100
25)	Pentachlorophenol	4.579	266	1196	29.685	ng/ml	92
26)	Phenanthrene	4.696	178	23545M6	41.127	ng/ml	
27)	Anthracene	4.725	178	22445	39.556	ng/ml	99
28)	Fluoranthene	5.377	202	26276	40.359	ng/ml	99
29)	Pyrene	5.506	202	27321	40.547	ng/ml	99
32)	Benzo[a]anthracene	6.229	226	7270	36.903	ng/ml#	78
33)	3,3'-Dichlorobenzidine	6.216	252	7808	31.350	ng/ml	99
34)	Chrysene	6.252	228	26500	41.197	ng/ml#	99
35)	Bis(2-ethylhexyl)phtha...	6.267	149	10358	50.945	ng/ml	99
37)	Benzo[b]fluoranthene	7.066	252	22832	38.576	ng/ml	100
38)	Benzo[k]fluoranthene	7.093	252	21914	38.973	ng/ml	100
39)	Benzo[a]pyrene	7.375	252	18500	37.561	ng/ml	100
40)	Indeno[1,2,3-cd]pyrene	8.652	276	16204	37.109	ng/ml	100
41)	Dibenzo[a,h]anthracene	8.691	278	15728M4	37.282	ng/ml	
42)	Benzo[g,h,i]perylene	8.992	276	17705	38.372	ng/ml	100

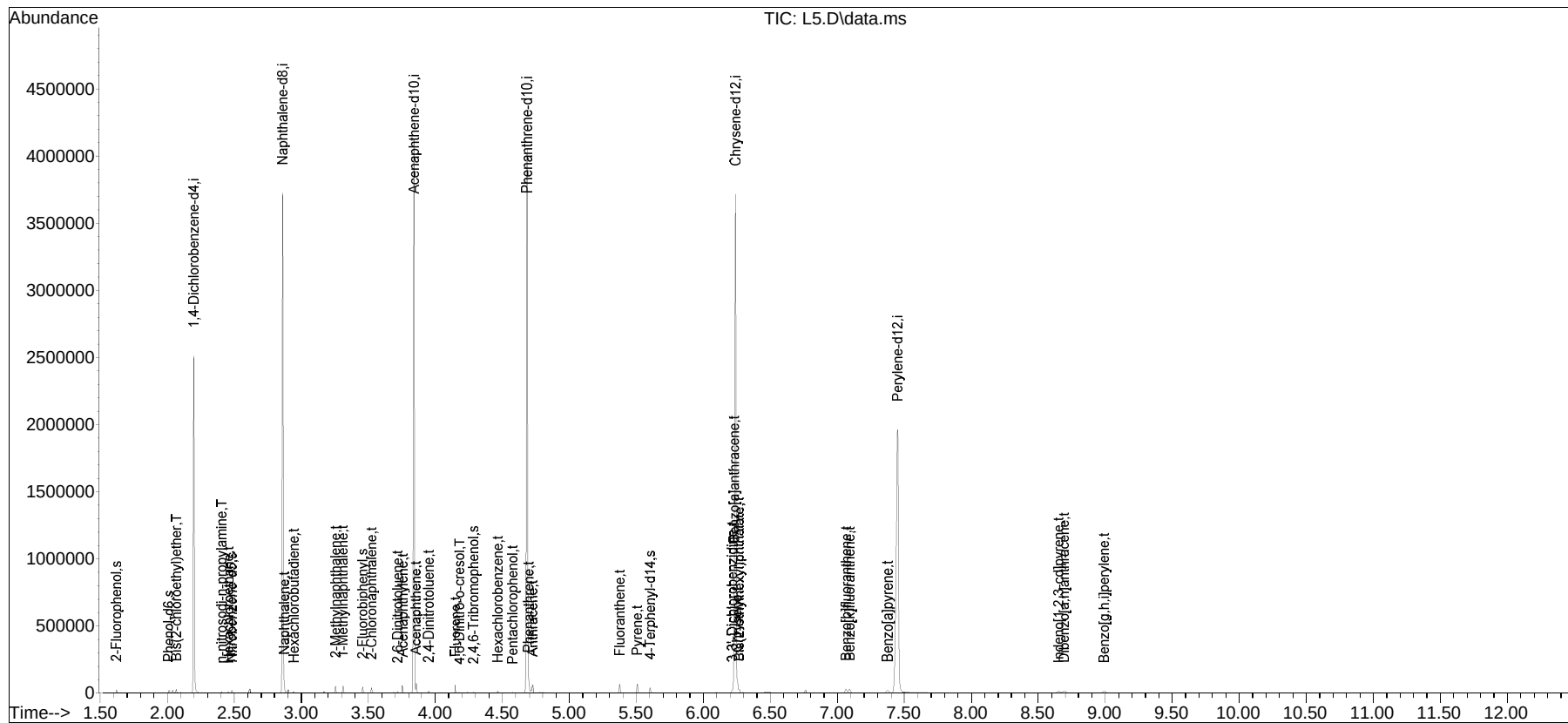
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L5.D
Acq On    : 03 Feb 2025 05:12 pm
Operator  : SV118:rp
Sample    : IL5,32,, #11284 40 ng/ml
Misc      : WG2028184,,ical
ALS Vial  : 6 Sample Multiplier: 1
```

Quant Time: Feb 04 10:14:53 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:02 2025
Response via : Initial Calibration

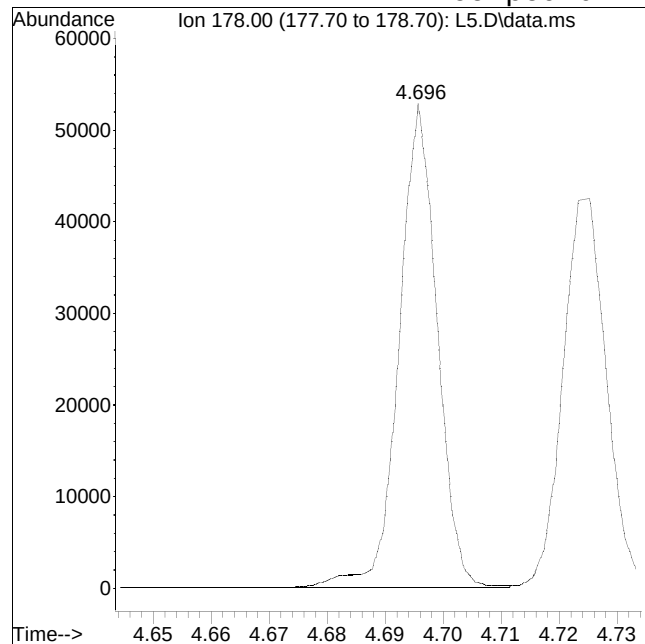
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

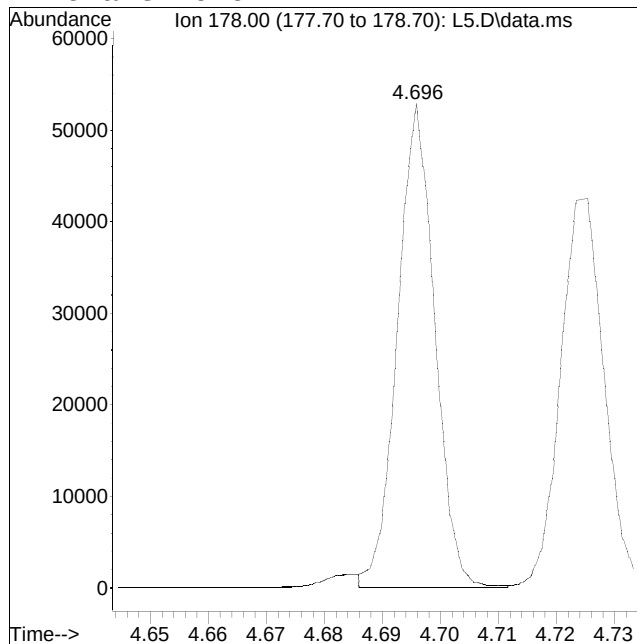
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L5.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:12 pm Instrument : SV118
Sample : IL5,32,, #11284 40 ng/ml Quant Date : 2/4/2025 10:16 am

Compound #26: Phenanthrene



Original Peak Response = 24110

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

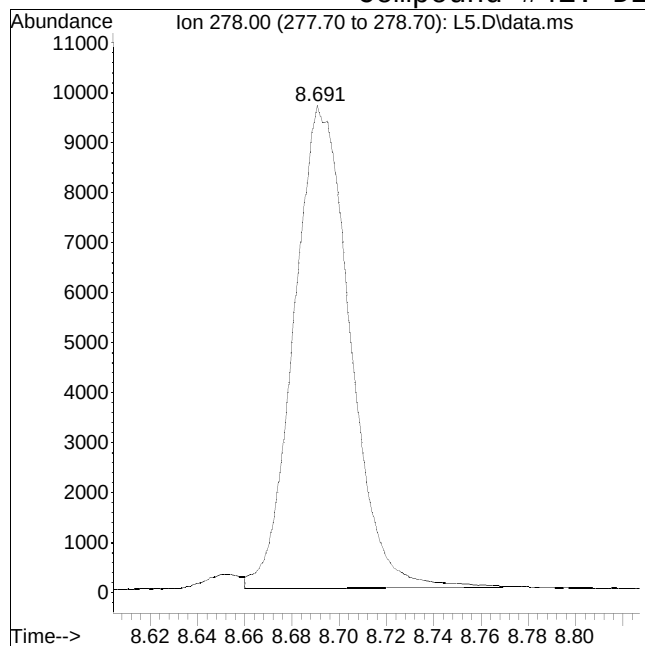


Manual Peak Response = 23545 M6

Manual Integration Report

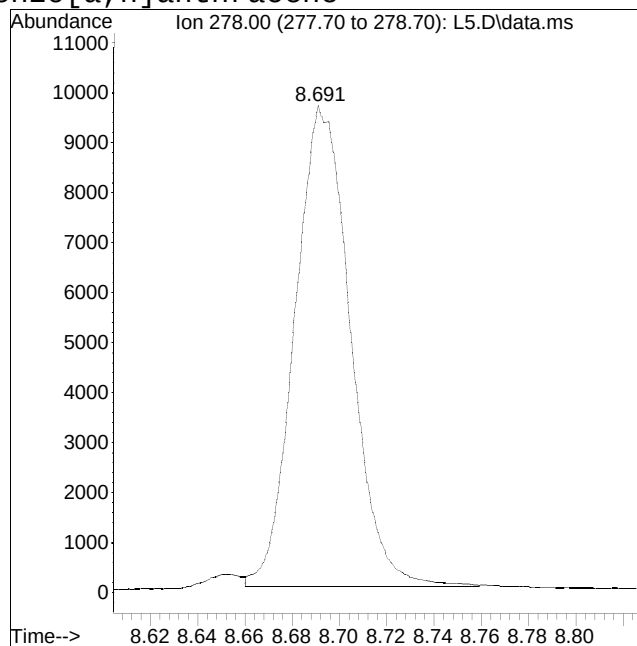
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L5.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:12 pm Instrument : SV118
Sample : IL5,32,, #11284 40 ng/ml Quant Date : 2/4/2025 10:16 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 15886

M4 = Poor automated baseline construction.



Manual Peak Response = 15728 M4

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L4.D
 Acq On : 03 Feb 2025 05:29 pm
 Operator : SV118:rp
 Sample : IL4,32,, #11285 10 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 10 09:29:11 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:15:57 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.203	152	502433	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery = 105.91%			
8) Naphthalene-d8	2.863	136	1779282	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery = 101.34%			
17) Acenaphthene-d10	3.840	164	966545	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery = 98.04%			
22) Phenanthrene-d10	4.683	188	1848885	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery = 93.92%			
31) Chrysene-d12	6.238	240	1672331	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery = 89.58%			
36) Perylene-d12	7.443	264	1552719	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery = 84.03%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.629	112	1561	10.160	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.51%#			
3) Phenol-d6	2.015	99	1793	9.740	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.49%#			
7) Nitrobenzene-d5	2.481	82	1375M6	9.147	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.91%#			
13) 2-Fluorobiphenyl	3.460	172	3944	10.123	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 1.01%#			
21) 2,4,6-Tribromophenol	4.285	330	348	7.783	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.39%#			
30) 4-Terphenyl-d14	5.603	244	4000	9.313	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.93%#			
Target Compounds						
						Qvalue
4) Bis(2-chloroethyl)ether	2.071	93	1646	10.070	ng/ml	98
5) n-nitrosodi-n-propylamine	2.406	70	961	9.168	ng/ml	100
6) Hexachloroethane	2.459	117	689	10.077	ng/ml	98
9) Naphthalene	2.872	128	5197	10.279	ng/ml#	97
10) Hexachlorobutadiene	2.946	225	933	10.306	ng/ml	100
11) 2-Methylnaphthalene	3.255	142	3133	9.959	ng/ml	100
12) 1-Methylnaphthalene	3.308	142	3192	9.984	ng/ml	99
14) 2-Chloronaphthalene	3.525	162	3366	9.889	ng/ml	100
15) 2,6-Dinitrotoluene	3.719	165	600M6	7.912	ng/ml	
16) Acenaphthylene	3.756	152	4816	9.253	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L4.D
 Acq On : 03 Feb 2025 05:29 pm
 Operator : SV118:rp
 Sample : IL4,32,, #11285 10 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 10 09:29:11 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:15:57 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18)	Acenaphthene	3.856	153	3460	10.056	ng/ml	98
19)	2,4-Dinitrotoluene	3.948	165	638	6.422	ng/ml#	74
20)	Fluorene	4.149	166	3652	9.654	ng/ml	99
23)	4,6-Dinitro-o-cresol	4.179	198	176	37.869	ng/ml	87
24)	Hexachlorobenzene	4.468	284	1209	9.873	ng/ml	98
25)	Pentachlorophenol	4.579	266	272M4	14.367	ng/ml	
26)	Phenanthrene	4.695	178	5536M3	9.876	ng/ml	
27)	Anthracene	4.723	178	5345	9.620	ng/ml	98
28)	Fluoranthene	5.377	202	5943M1	9.322	ng/ml	
29)	Pyrene	5.506	202	6107	9.256	ng/ml	99
32)	Benzo[a]anthracene	6.229	226	1824	10.322	ng/ml#	17
33)	3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34)	Chrysene	6.251	228	5677	9.839	ng/ml#	100
35)	Bis(2-ethylhexyl)phtha...	6.267	149	2479	34.249	ng/ml	98
37)	Benzo[b]fluoranthene	7.068	252	4849	9.484	ng/ml	100
38)	Benzo[k]fluoranthene	7.092	252	4613M6	9.497	ng/ml	
39)	Benzo[a]pyrene	7.375	252	3905	9.178	ng/ml	99
40)	Indeno[1,2,3-cd]pyrene	8.655	276	3446	9.135	ng/ml	99
41)	Dibenzo[a,h]anthracene	8.691	278	3236M1	8.879	ng/ml	
42)	Benzo[g,h,i]perylene	8.996	276	3632	9.112	ng/ml	100

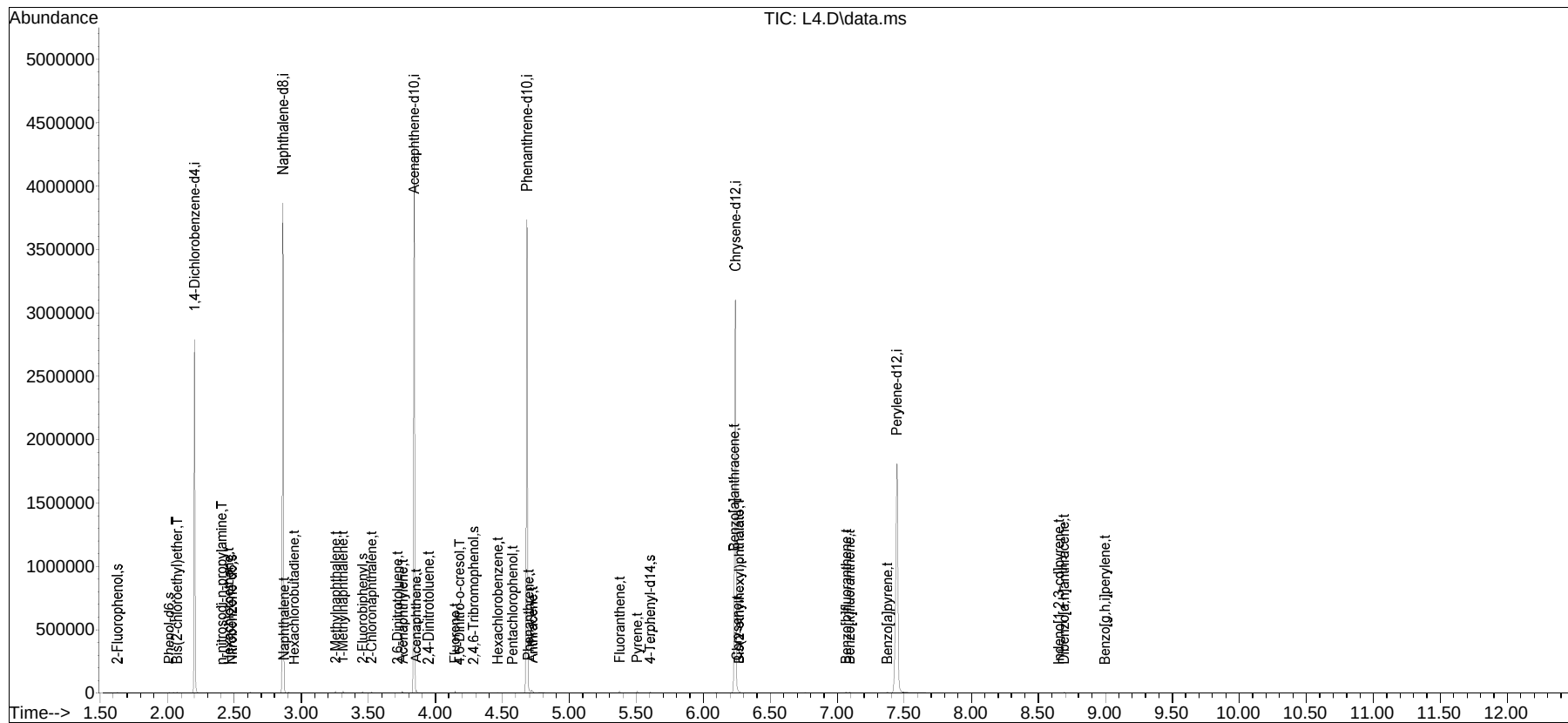
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L4.D
Acq On    : 03 Feb 2025 05:29 pm
Operator  : SV118:rp
Sample    : IL4,32,, #11285 10 ng/ml
Misc      : WG2028184,,ical
ALS Vial  : 7 Sample Multiplier: 1
```

Quant Time: Feb 10 09:29:11 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:57 2025
Response via : Initial Calibration

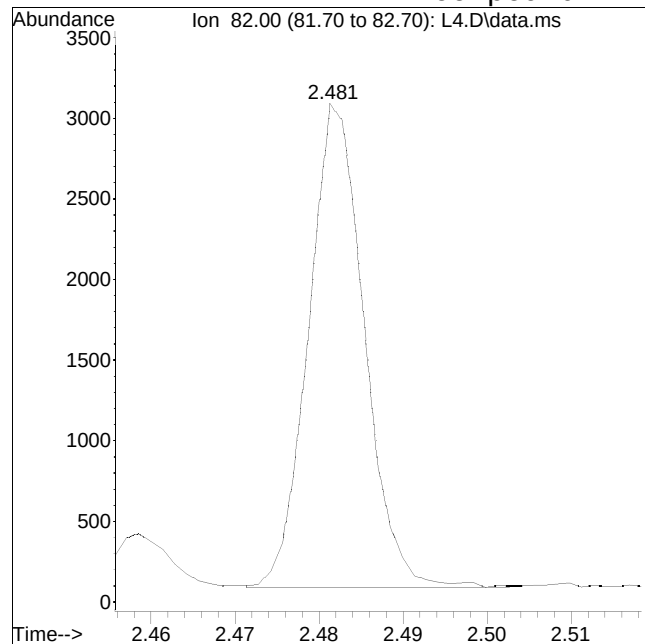
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

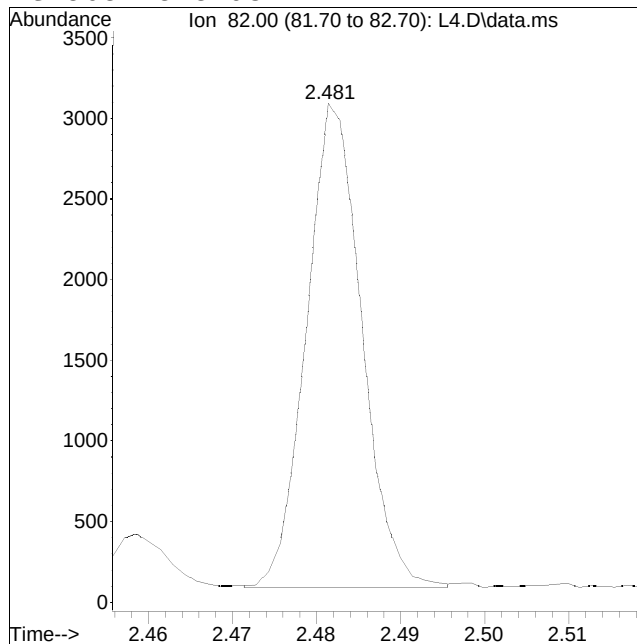
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L4.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:29 pm Instrument : SV118
Sample : IL4,32,, #11285 10 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #7: Nitrobenzene-d5



Original Peak Response = 1381

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

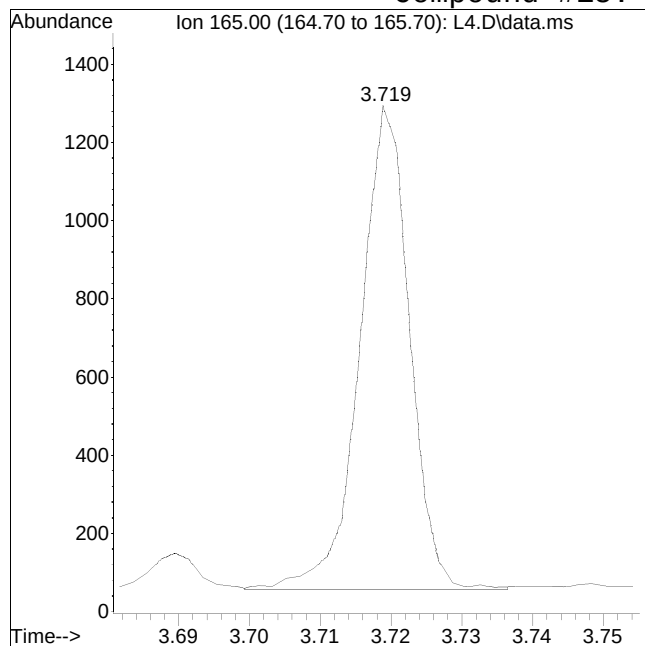


Manual Peak Response = 1375 M6

Manual Integration Report

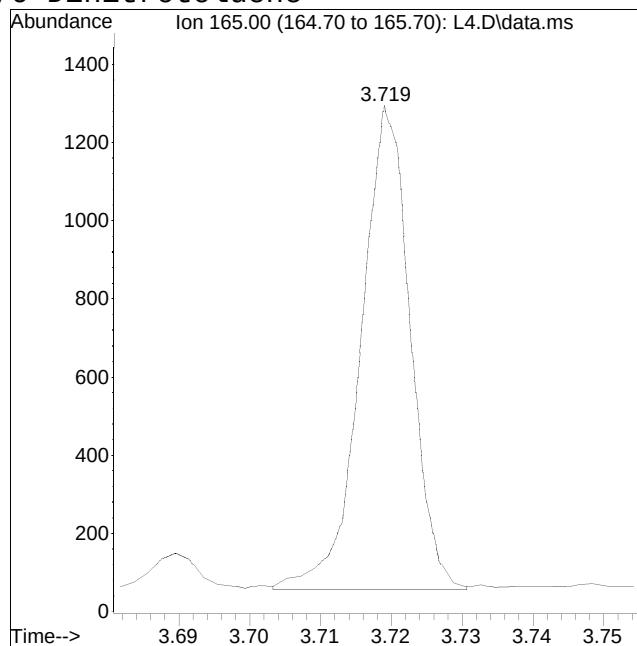
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L4.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:29 pm Instrument : SV118
Sample : IL4,32,, #11285 10 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 604

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

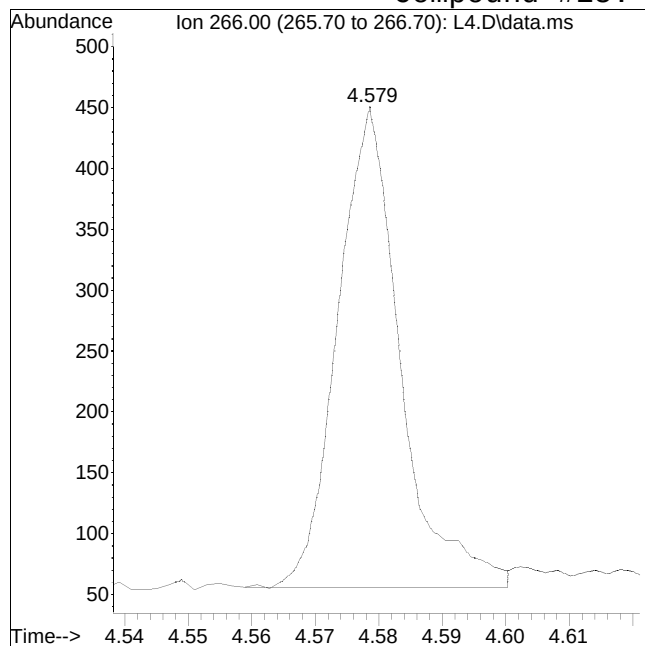


Manual Peak Response = 600 M6

Manual Integration Report

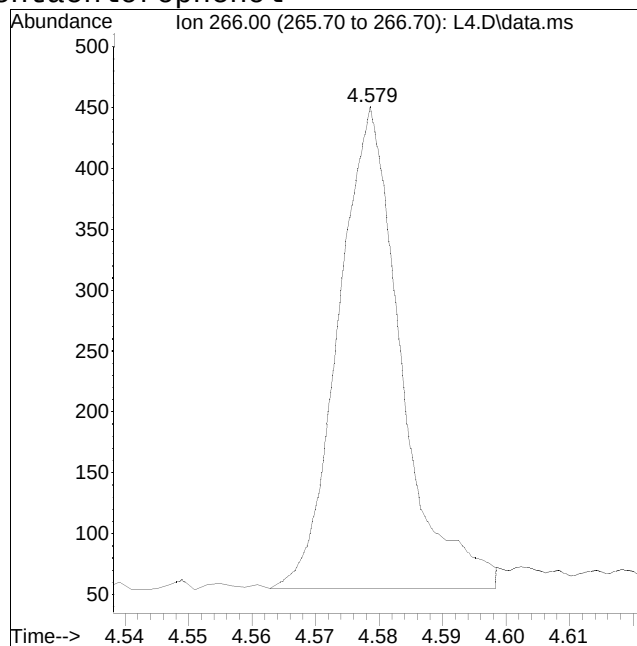
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L4.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:29 pm Instrument : SV118
Sample : IL4,32,, #11285 10 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #25: Pentachlorophenol



Original Peak Response = 272

M4 = Poor automated baseline construction.

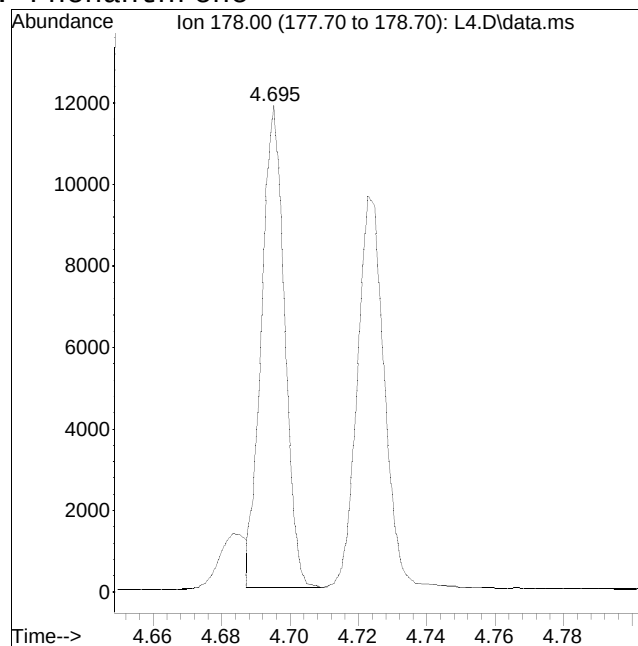
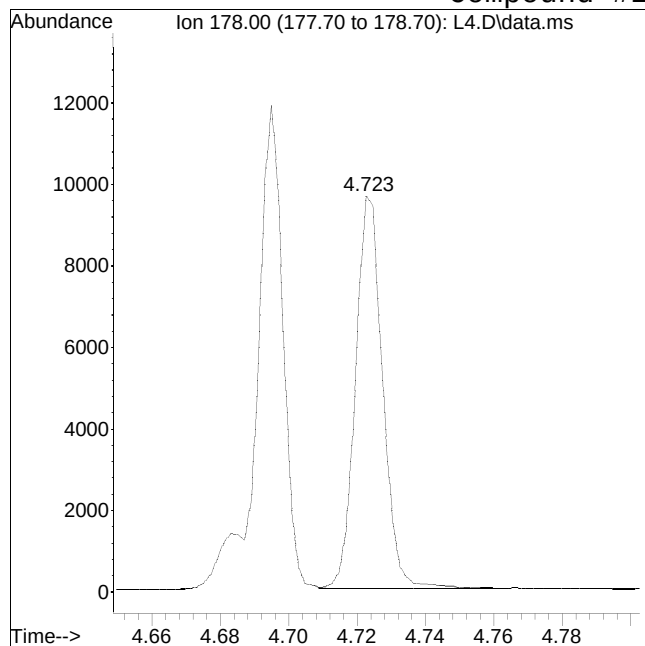


Manual Peak Response = 272 M4

Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L4.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:29 pm Instrument : SV118
Sample : IL4,32,, #11285 10 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #26: Phenanthrene



Original Peak Response = 5339

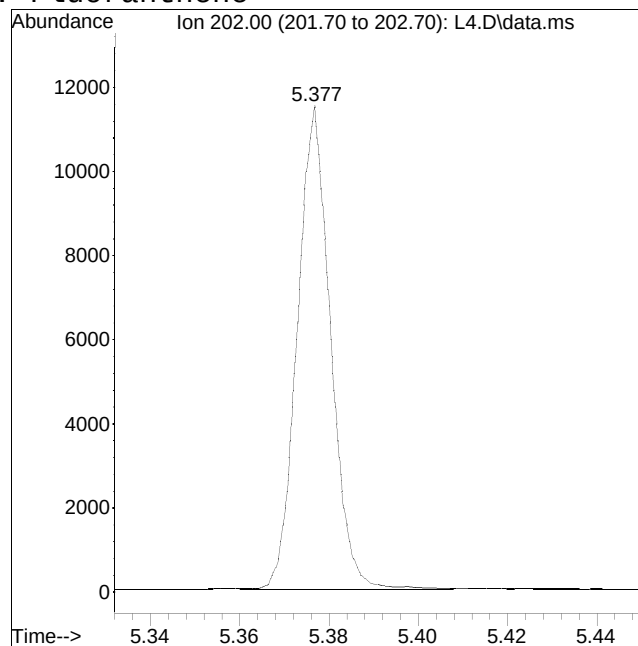
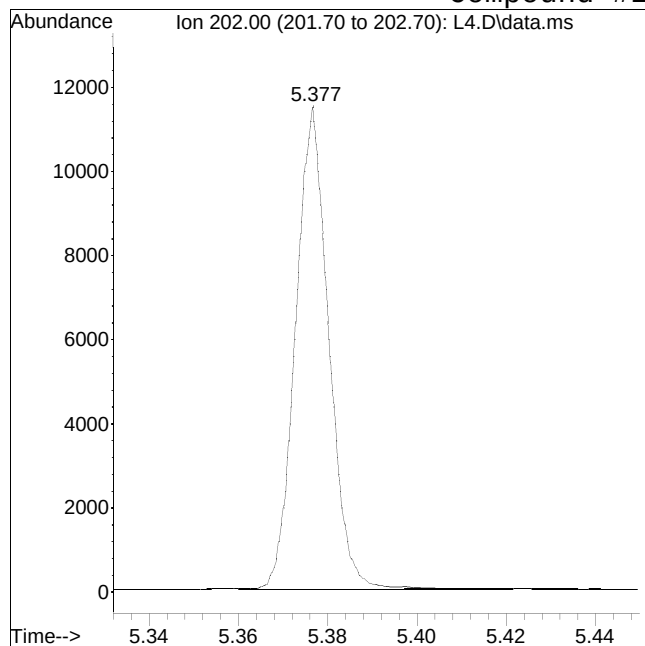
Manual Peak Response = 5536 M3

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\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L4.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:29 pm Instrument : SV118
Sample : IL4,32,, #11285 10 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #28: Fluoranthene



Original Peak Response = 5939

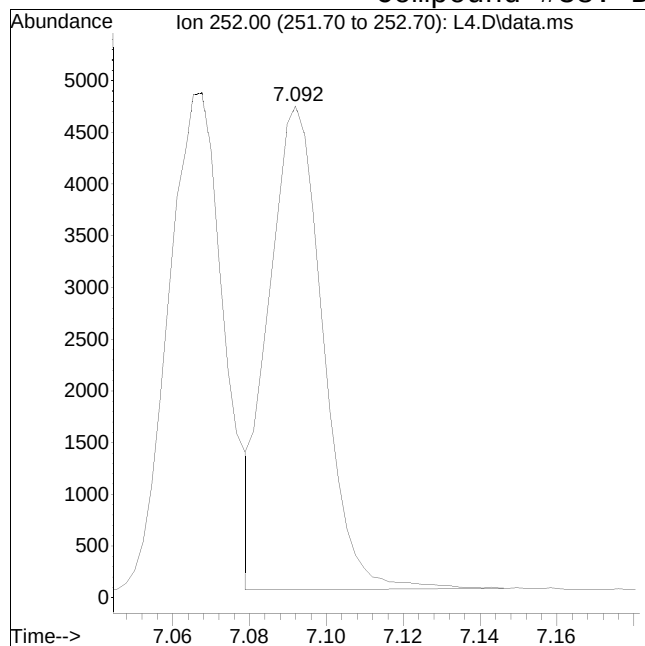
Manual Peak Response = 5943 M1

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

Manual Integration Report

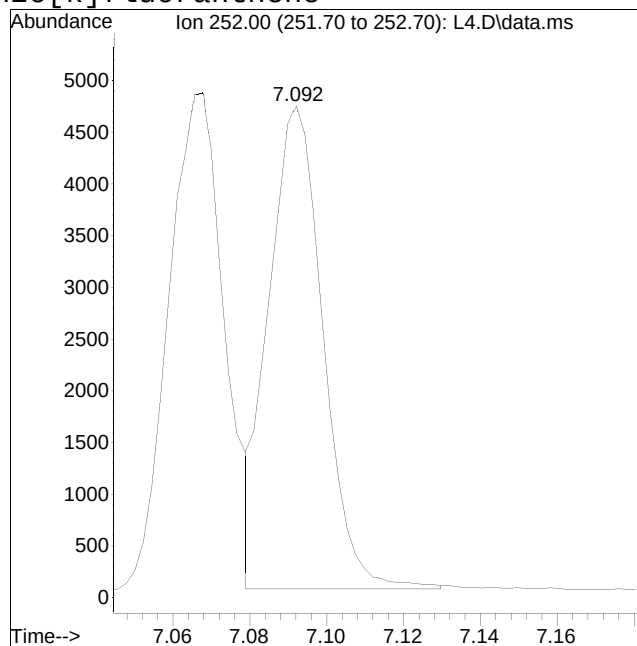
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L4.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:29 pm Instrument : SV118
Sample : IL4,32,, #11285 10 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 4638

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

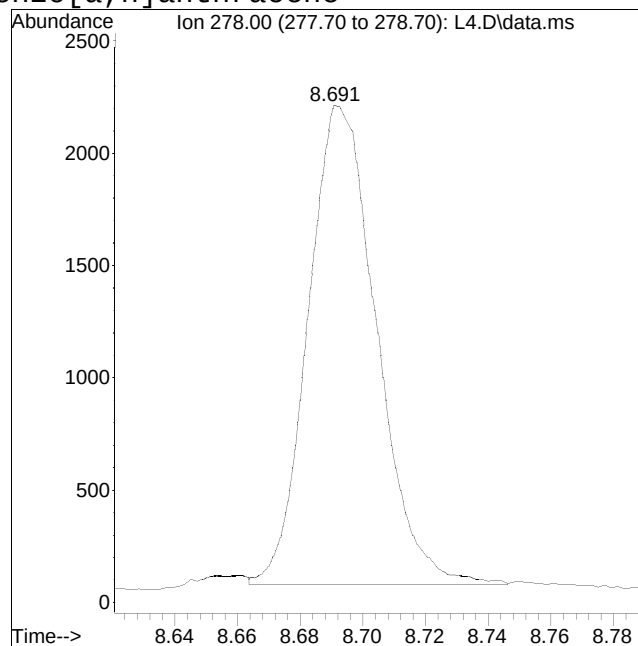
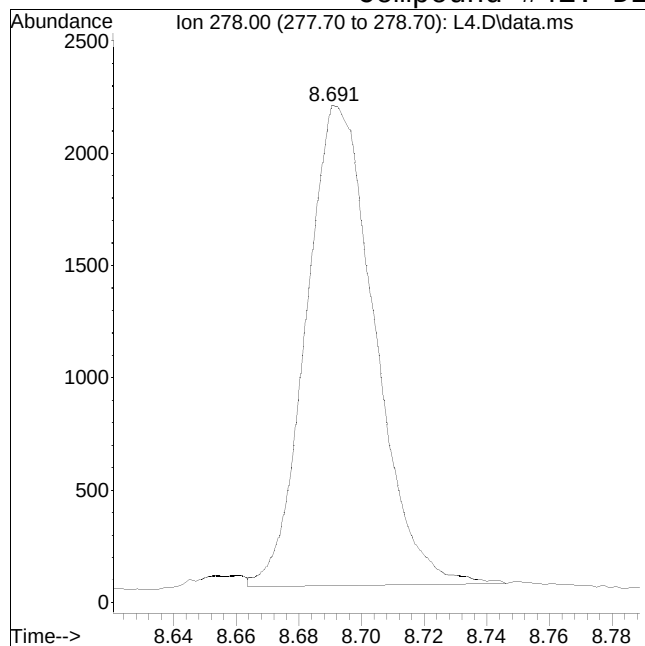


Manual Peak Response = 4613 M6

Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L4.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:29 pm Instrument : SV118
Sample : IL4,32,, #11285 10 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 3243

Manual Peak Response = 3236 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L3.D
 Acq On : 03 Feb 2025 05:46 pm
 Operator : SV118:rp
 Sample : IL3,32,, #11286 5 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 10:21:16 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:15:53 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L3.D
 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	493524	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery = 104.03%			
8) Naphthalene-d8	2.861	136	1774159	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery = 101.05%			
17) Acenaphthene-d10	3.840	164	985685	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery = 99.98%			
22) Phenanthrene-d10	4.683	188	1948289	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery = 98.97%			
31) Chrysene-d12	6.235	240	1853197	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery = 99.27%			
36) Perylene-d12	7.446	264	1705671	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery = 92.31%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.622	112	743	4.923	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.25%#			
3) Phenol-d6	2.012	99	881	4.872	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
7) Nitrobenzene-d5	2.481	82	681	4.612	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.46%#			
13) 2-Fluorobiphenyl	3.461	172	1948	5.014	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.50%#			
21) 2,4,6-Tribromophenol	4.286	330	179	3.926	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.20%#			
30) 4-Terphenyl-d14	5.603	244	2270	5.016	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.50%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.068	93	896	5.581	ng/ml	91
5) n-nitrosodi-n-propylamine	2.406	70	484	4.701	ng/ml	99
6) Hexachloroethane	2.457	117	345	5.137	ng/ml	94
9) Naphthalene	2.872	128	2592	5.142	ng/ml	98
10) Hexachlorobutadiene	2.946	225	469	5.195	ng/ml	99
11) 2-Methylnaphthalene	3.255	142	1554	4.954	ng/ml	99
12) 1-Methylnaphthalene	3.310	142	1579	4.953	ng/ml	98
14) 2-Chloronaphthalene	3.525	162	1699	5.006	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.756	152	2425	4.673	ng/ml	98
18) Acenaphthene	3.856	153	1798M6	5.124	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L3.D
 Acq On : 03 Feb 2025 05:46 pm
 Operator : SV118:rp
 Sample : IL3,32,, #11286 5 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 10:21:16 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:15:53 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	2,4-Dinitrotoluene	0.000		0	N.D.	d	
20)	Fluorene	4.149	166	1899	4.922	ng/ml	98
23)	4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24)	Hexachlorobenzene	4.466	284	644	4.991	ng/ml	99
25)	Pentachlorophenol	0.000		0	N.D.	d	
26)	Phenanthrene	4.695	178	3015M3	5.104	ng/ml	
27)	Anthracene	4.723	178	2815	4.808	ng/ml	100
28)	Fluoranthene	5.377	202	3317	4.938	ng/ml	100
29)	Pyrene	5.506	202	3433	4.938	ng/ml	99
32)	Benzo[a]anthracene	6.230	226	1237	6.317	ng/ml#	1
33)	3,3'-Dichlorobenzidine	6.215	252	858	3.466	ng/ml	97
34)	Chrysene	6.250	228	3159	4.941	ng/ml#	99
35)	Bis(2-ethylhexyl)phtha...	6.266	149	1334	31.123	ng/ml	100
37)	Benzo[b]fluoranthene	7.063	252	2723	4.848	ng/ml	98
38)	Benzo[k]fluoranthene	7.090	252	2396M6	4.490	ng/ml	
39)	Benzo[a]pyrene	7.373	252	2094	4.480	ng/ml	99
40)	Indeno[1,2,3-cd]pyrene	8.658	276	1841	4.443	ng/ml	99
41)	Dibenzo[a,h]anthracene	8.691	278	1675M1	4.184	ng/ml	
42)	Benzo[g,h,i]perylene	8.994	276	1966	4.490	ng/ml	99

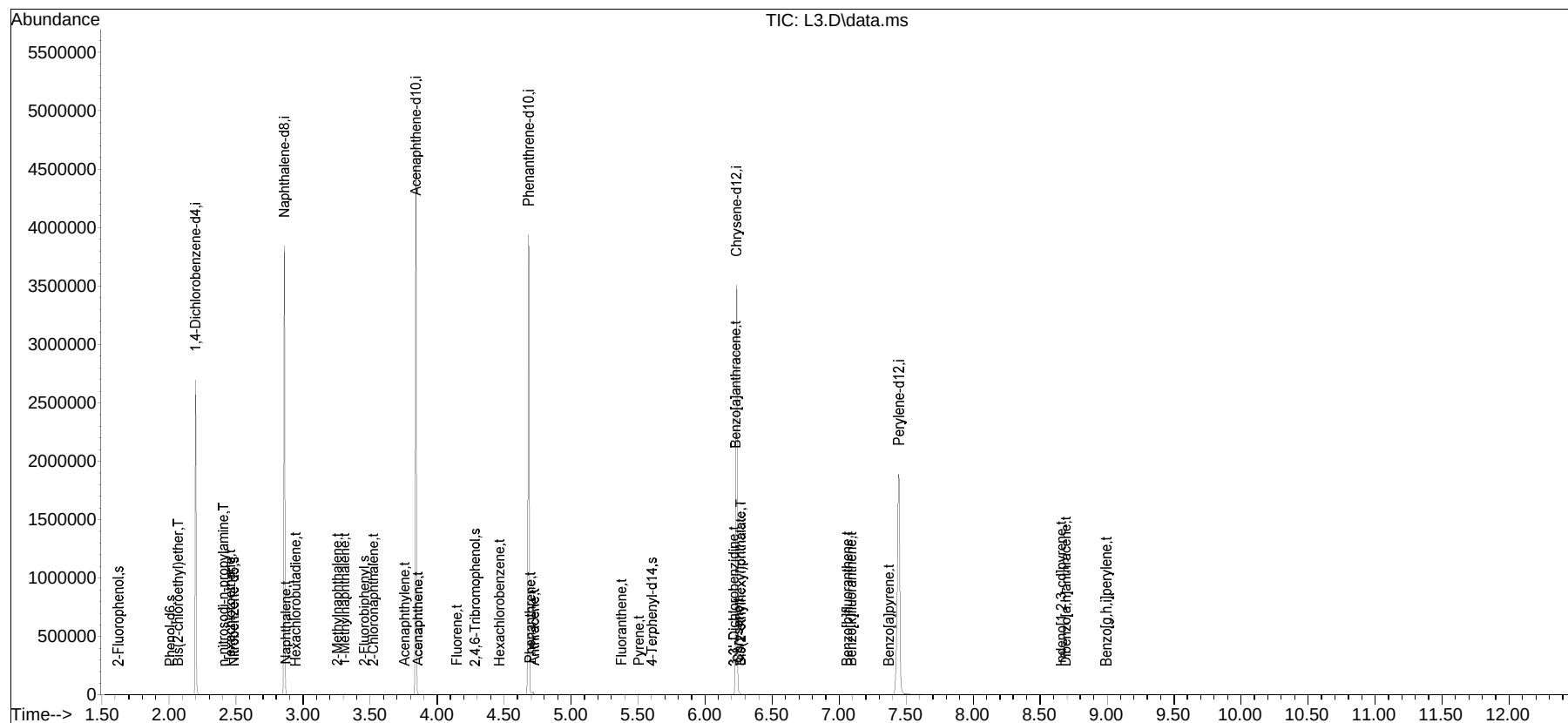
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L3.D
Acq On : 03 Feb 2025 05:46 pm
Operator : SV118:rp
Sample : IL3,32,, #11286 5 ng/ml
Misc : WG2028184,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 10:21:16 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:53 2025
Response via : Initial Calibration

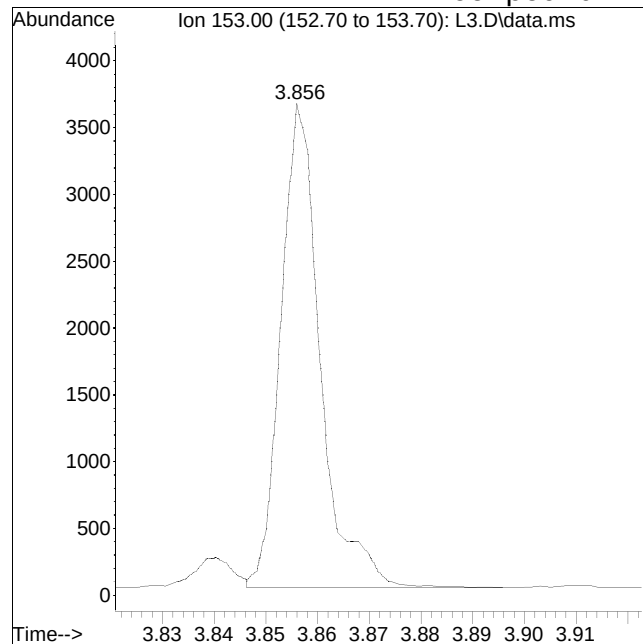
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

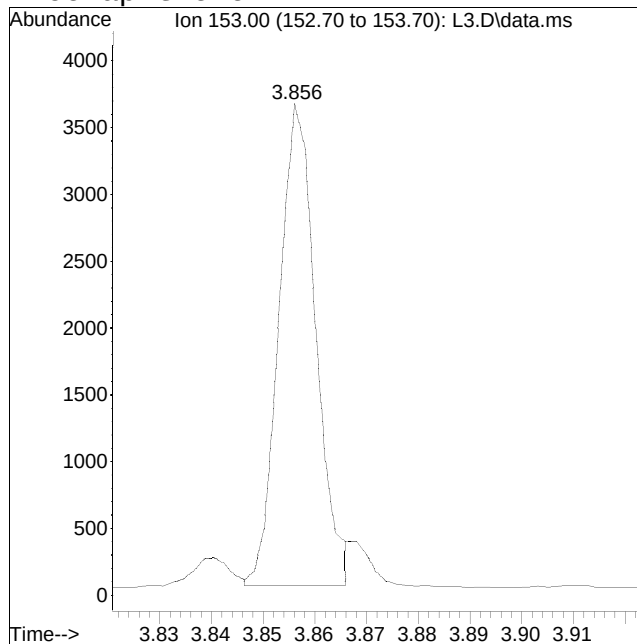
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L3.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:46 pm Instrument : SV118
Sample : IL3,32,, #11286 5 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #18: Acenaphthene



Original Peak Response = 1920

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

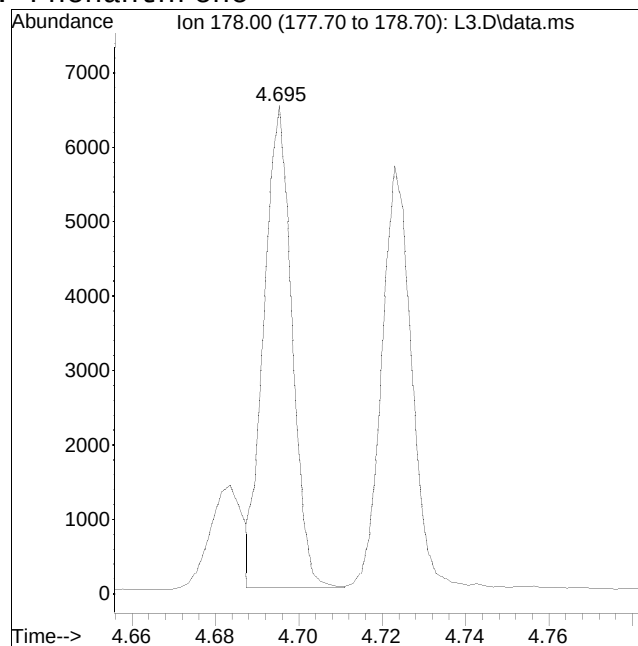
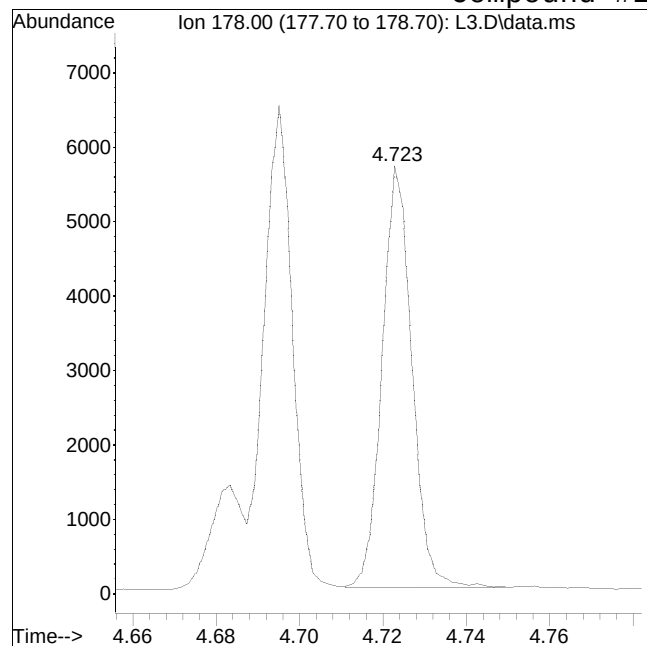


Manual Peak Response = 1798 M6

Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L3.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:46 pm Instrument : SV118
Sample : IL3,32,, #11286 5 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #26: Phenanthrene



Original Peak Response = 2811

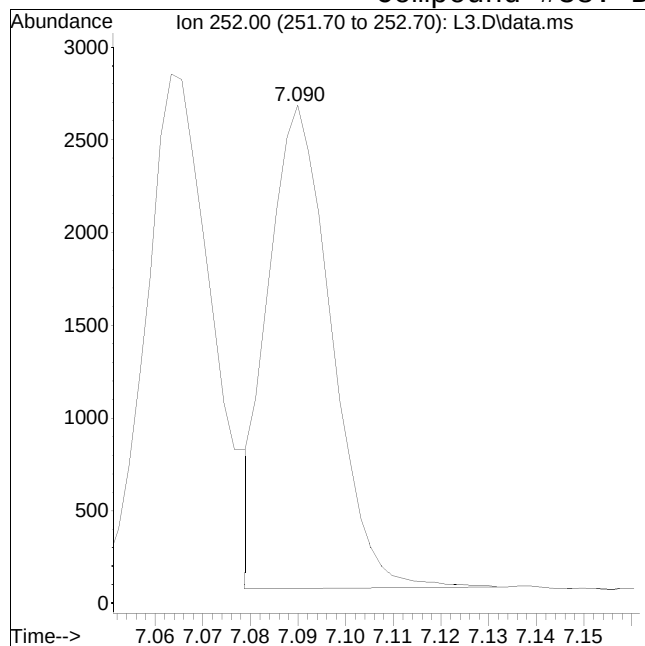
Manual Peak Response = 3015 M3

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

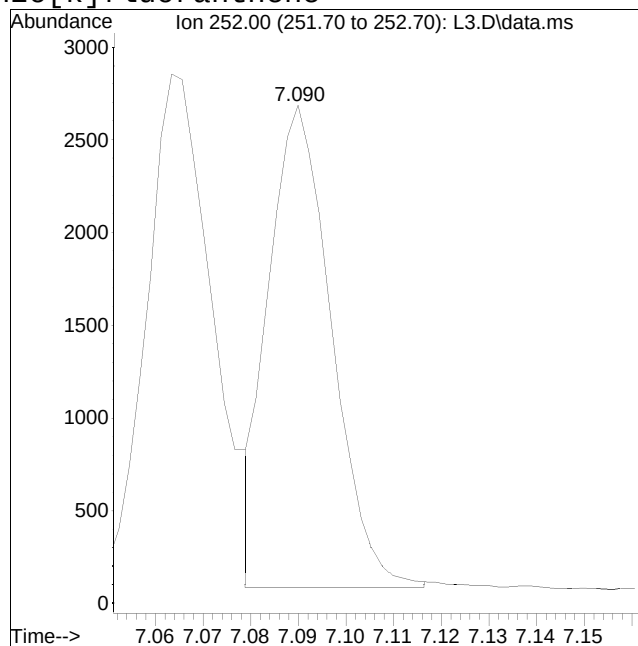
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L3.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:46 pm Instrument : SV118
Sample : IL3,32,, #11286 5 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 2418

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

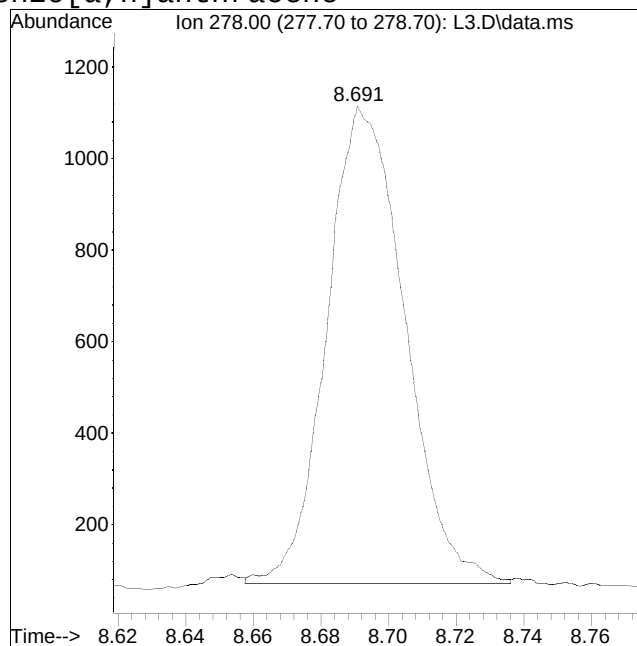
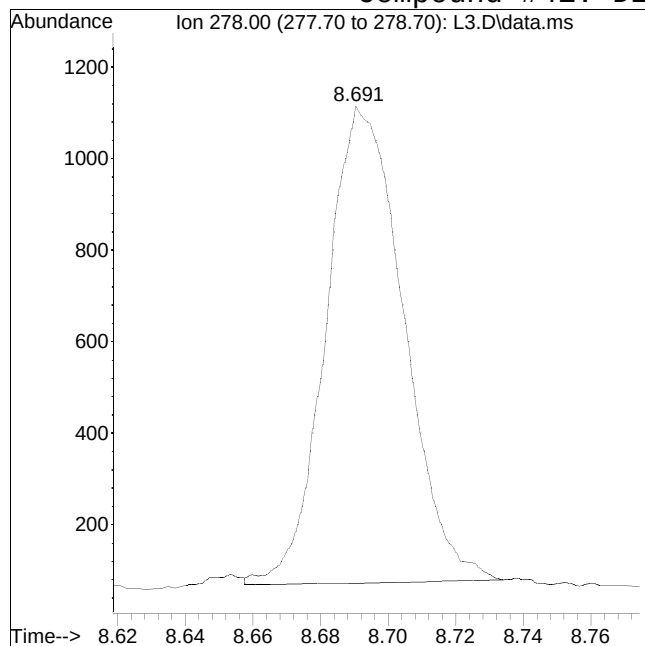


Manual Peak Response = 2396 M6

Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L3.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:46 pm Instrument : SV118
Sample : IL3,32,, #11286 5 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1662

Manual Peak Response = 1675 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L2.D
 Acq On : 03 Feb 2025 06:03 pm
 Operator : SV118:rp
 Sample : IL2,32,, #11287 2 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 10:20:11 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:15:47 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.200	152	550239	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery	=	115.99%	
8) Naphthalene-d8	2.863	136	1976420	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery	=	112.57%	
17) Acenaphthene-d10	3.841	164	1107818	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery	=	112.36%	
22) Phenanthrene-d10	4.685	188	2195296	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery	=	111.51%	
31) Chrysene-d12	6.237	240	2122774	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery	=	113.71%	
36) Perylene-d12	7.445	264	1992063	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery	=	107.81%	
System Monitoring Compounds						
2) 2-Fluorophenol	1.621	112	341	2.027	ng/ml	0.00
Spiked Amount 2000.000	Range	15 - 110	Recovery	=	0.10%#	
3) Phenol-d6	2.012	99	423	2.098	ng/ml	0.00
Spiked Amount 2000.000	Range	15 - 110	Recovery	=	0.10%#	
7) Nitrobenzene-d5	2.481	82	322	1.956	ng/ml	0.00
Spiked Amount 1000.000	Range	30 - 130	Recovery	=	0.20%#	
13) 2-Fluorobiphenyl	3.462	172	985	2.276	ng/ml	0.00
Spiked Amount 1000.000	Range	30 - 130	Recovery	=	0.23%#	
21) 2,4,6-Tribromophenol	4.288	330	93	1.815	ng/ml	0.00
Spiked Amount 2000.000	Range	15 - 110	Recovery	=	0.09%#	
30) 4-Terphenyl-d14	5.603	244	1091	2.139	ng/ml	0.00
Spiked Amount 1000.000	Range	30 - 130	Recovery	=	0.21%#	
Target Compounds						
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
5) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.873	128	1314M6	2.340	ng/ml	
10) Hexachlorobutadiene	2.945	225	204	2.029	ng/ml	92
11) 2-Methylnaphthalene	3.255	142	778	2.226	ng/ml	99
12) 1-Methylnaphthalene	3.310	142	780	2.196	ng/ml	99
14) 2-Chloronaphthalene	3.526	162	797	2.108	ng/ml	100
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.758	152	1175	2.032	ng/ml	98
18) Acenaphthene	3.858	153	874	2.216	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L2.D
 Acq On : 03 Feb 2025 06:03 pm
 Operator : SV118:rp
 Sample : IL2,32,, #11287 2 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 10:20:11 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:15:47 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	2,4-Dinitrotoluene	0.000		0	N.D.	d	
20)	Fluorene	4.151	166	936	2.159	ng/ml	98
23)	4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24)	Hexachlorobenzene	4.468	284	318	2.187	ng/ml	97
25)	Pentachlorophenol	0.000		0	N.D.	d	
26)	Phenanthrene	4.697	178	1387M3	2.084	ng/ml	
27)	Anthracene	4.725	178	1386	2.101	ng/ml	98
28)	Fluoranthene	5.377	202	1564	2.066	ng/ml	99
29)	Pyrene	5.508	202	1614	2.060	ng/ml	99
32)	Benzo[a]anthracene	6.236	226	833	3.714	ng/ml#	1
33)	3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34)	Chrysene	6.251	228	1440	1.966	ng/ml#	99
35)	Bis(2-ethylhexyl)phtha...	6.264	149	975	30.055	ng/ml	100
37)	Benzo[b]fluoranthene	7.063	252	1311	1.999	ng/ml	97
38)	Benzo[k]fluoranthene	7.089	252	1254	2.012	ng/ml	99
39)	Benzo[a]pyrene	7.372	252	1017	1.863	ng/ml	100
40)	Indeno[1,2,3-cd]pyrene	8.655	276	880	1.818	ng/ml	98
41)	Dibenzo[a,h]anthracene	8.694	278	832M4	1.779	ng/ml	
42)	Benzo[g,h,i]perylene	8.993	276	938	1.834	ng/ml	97

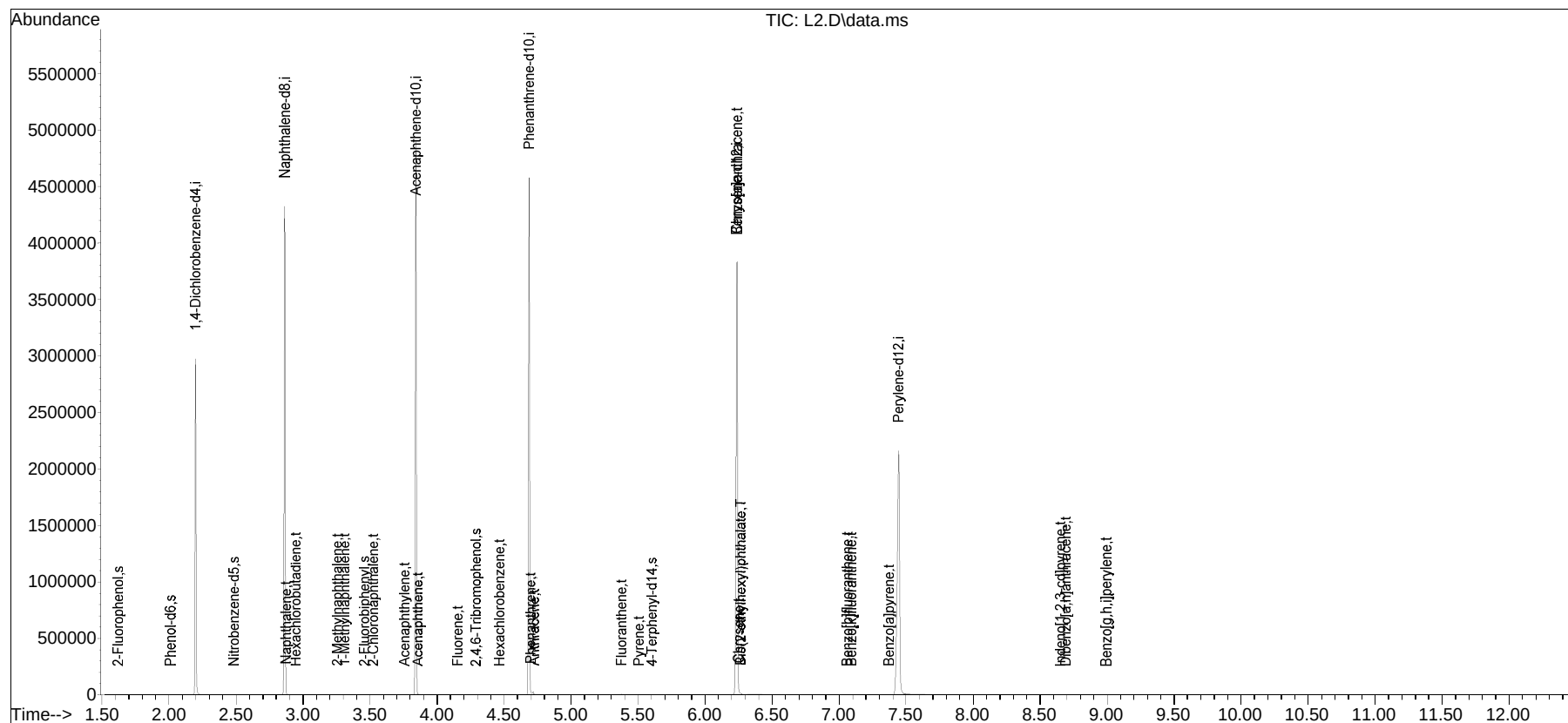
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L2.D
 Acq On : 03 Feb 2025 06:03 pm
 Operator : SV118:rp
 Sample : IL2,32,, #11287 2 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 10:20:11 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:15:47 2025
 Response via : Initial Calibration

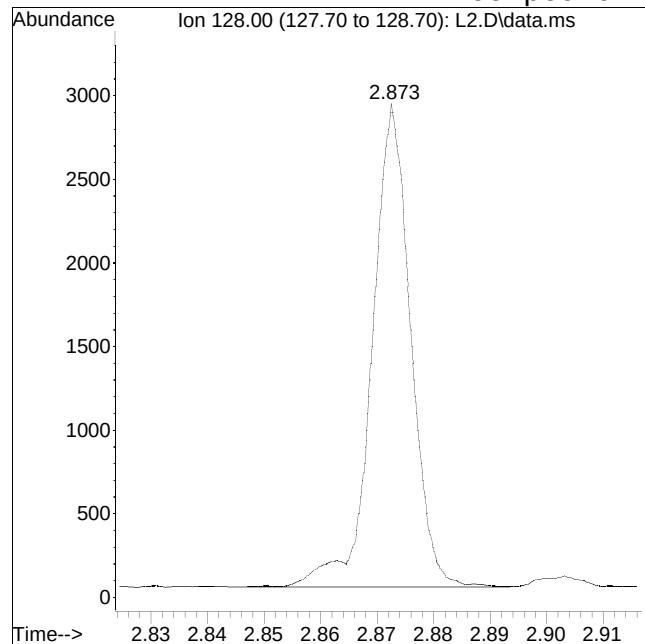
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

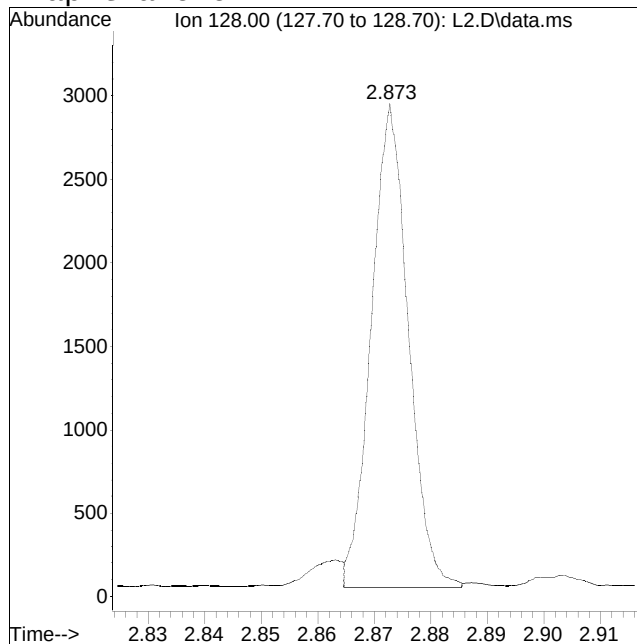
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L2.D Operator : SV118:rp
Date Inj'd : 2/3/2025 6:03 pm Instrument : SV118
Sample : IL2,32,, #11287 2 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #9: Naphthalene



Original Peak Response = 1377

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

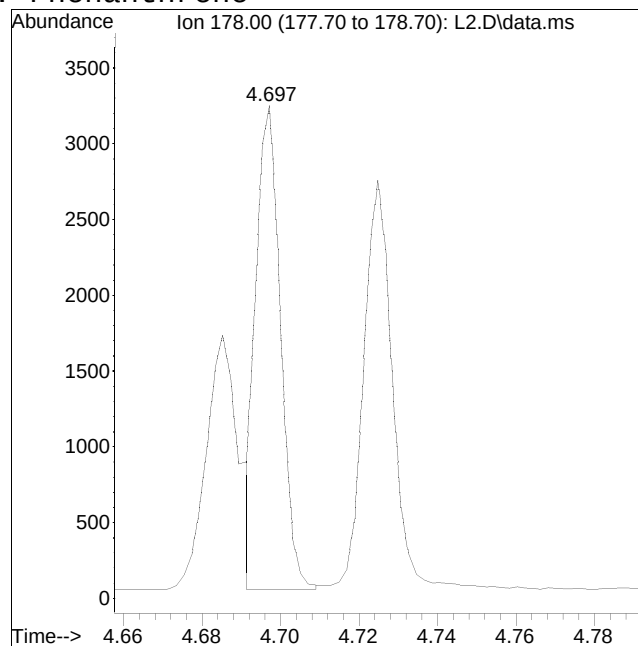
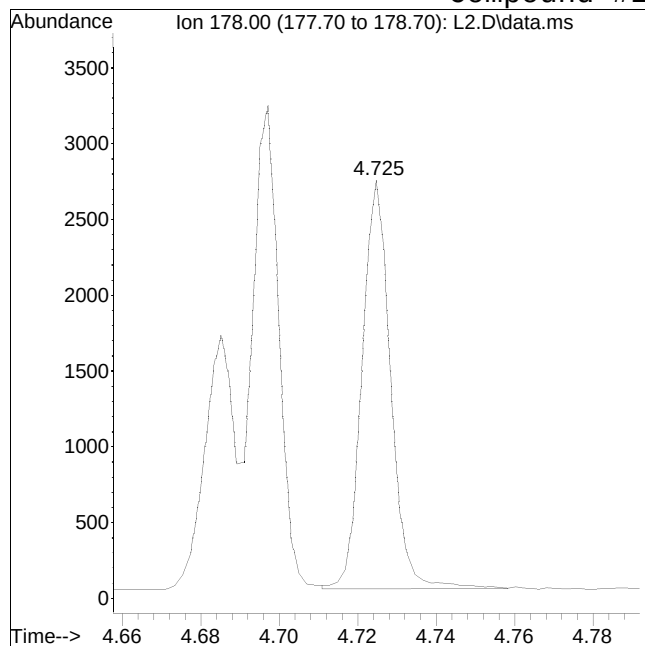


Manual Peak Response = 1314 M6

Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L2.D Operator : SV118:rp
Date Inj'd : 2/3/2025 6:03 pm Instrument : SV118
Sample : IL2,32,, #11287 2 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #26: Phenanthrene



Original Peak Response = 1366

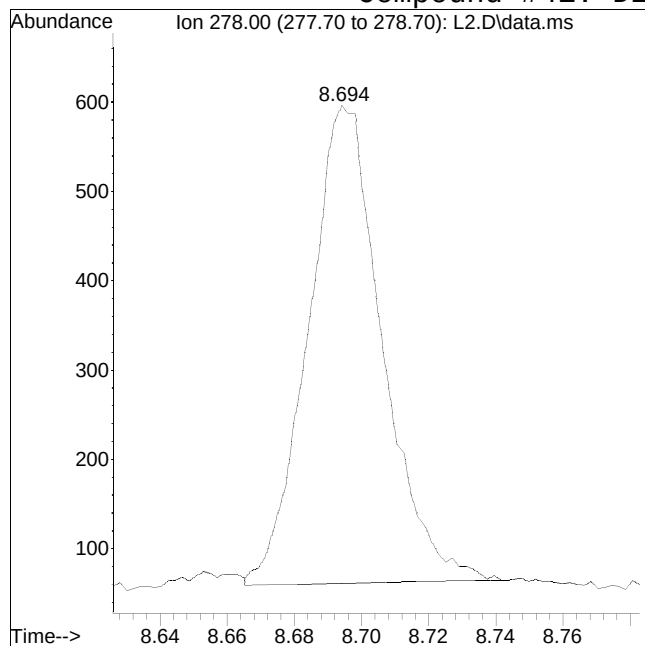
Manual Peak Response = 1387 M3

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

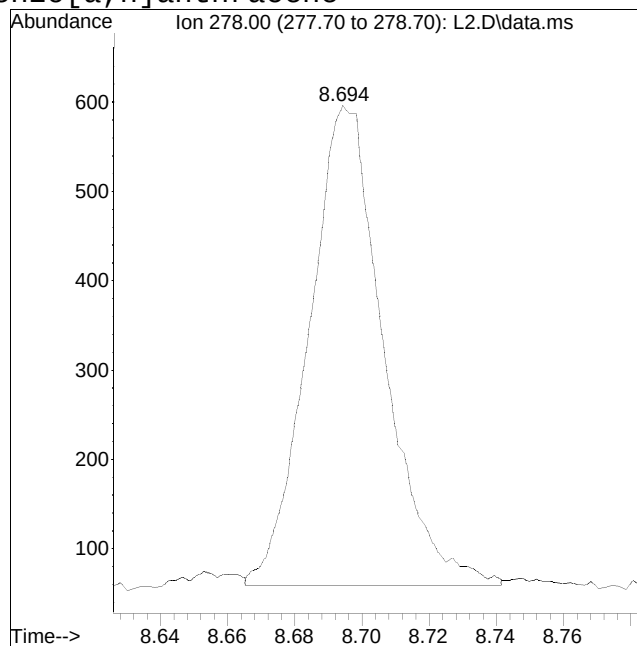
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L2.D Operator : SV118:rp
Date Inj'd : 2/3/2025 6:03 pm Instrument : SV118
Sample : IL2,32,, #11287 2 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 819

M4 = Poor automated baseline construction.



Manual Peak Response = 832 M4

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L1.D
 Acq On : 03 Feb 2025 06:20 pm
 Operator : SV118:rp
 Sample : IL1,32,, #11288 1 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 04 10:18:22 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:15:37 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.200	152	469241	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery = 98.91%			
8) Naphthalene-d8	2.863	136	1685425	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery = 96.00%			
17) Acenaphthene-d10	3.841	164	931339	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery = 94.46%			
22) Phenanthrene-d10	4.686	188	1832132	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery = 93.07%			
31) Chrysene-d12	6.237	240	1793001	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery = 96.04%			
36) Perylene-d12	7.446	264	1697473	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery = 91.87%			
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
3) Phenol-d6	0.000	99	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
7) Nitrobenzene-d5	2.481	82	144	1.026	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.10%#			
13) 2-Fluorobiphenyl	3.462	172	396	1.073	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.11%#			
21) 2,4,6-Tribromophenol	4.286	330	43	0.998	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.05%#			
30) 4-Terphenyl-d14	5.604	244	482	1.132	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.11%#			
Target Compounds						
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
5) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
12) 1-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.757	152	477	0.968	ng/ml	100
18) Acenaphthene	3.859	153	375	1.131	ng/ml	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : L1.D
 Acq On : 03 Feb 2025 06:20 pm
 Operator : SV118:rp
 Sample : IL1,32,, #11288 1 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 04 10:18:22 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 04 10:15:37 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	2,4-Dinitrotoluene	0.000		0	N.D.	d	
20)	Fluorene	4.149	166	379	1.040	ng/ml	97
23)	4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24)	Hexachlorobenzene	0.000		0	N.D.	d	
25)	Pentachlorophenol	0.000		0	N.D.	d	
26)	Phenanthrene	4.698	178	596M6	1.073	ng/ml	
27)	Anthracene	4.725	178	583	1.059	ng/ml	98
28)	Fluoranthene	5.380	202	692	1.095	ng/ml	100
29)	Pyrene	5.506	202	710	1.086	ng/ml	99
32)	Benzo[a]anthracene	6.236	226	549	2.898	ng/ml#	1
33)	3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34)	Chrysene	6.250	228	623	1.007	ng/ml#	98
35)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
37)	Benzo[b]fluoranthene	7.068	252	568	1.016	ng/ml	96
38)	Benzo[k]fluoranthene	7.093	252	498	0.938	ng/ml	96
39)	Benzo[a]pyrene	7.376	252	440	0.946	ng/ml	97
40)	Indeno[1,2,3-cd]pyrene	8.660	276	401	0.972	ng/ml	99
41)	Dibenzo[a,h]anthracene	8.697	278	376	0.944	ng/ml	98
42)	Benzo[g,h,i]perylene	8.996	276	439	1.007	ng/ml	100

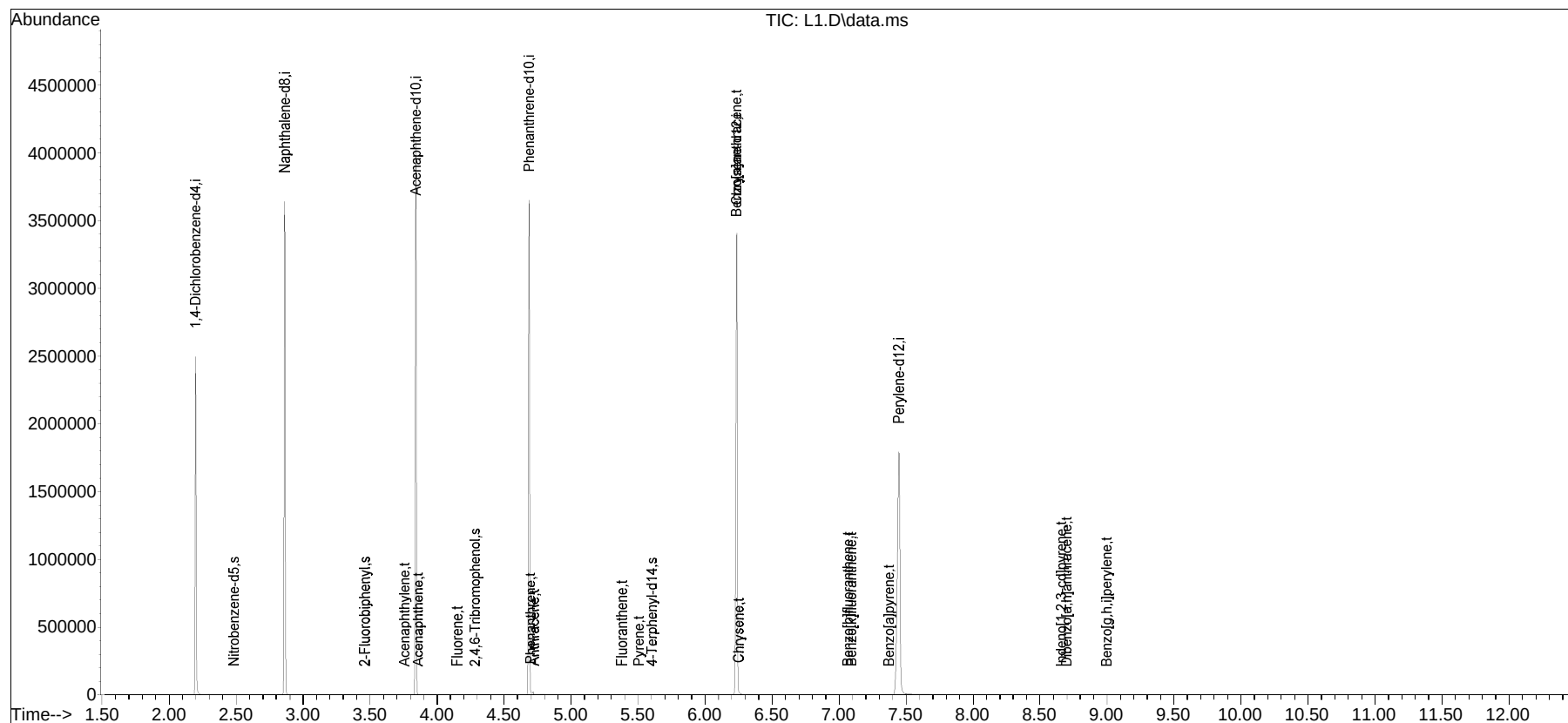
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L1.D
Acq On    : 03 Feb 2025 06:20 pm
Operator  : SV118:rp
Sample    : IL1,32,, #11288 1 ng/ml
Misc      : WG2028184,, ical
ALS Vial  : 10 Sample Multiplier: 1
```

Quant Time: Feb 04 10:18:22 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:37 2025
Response via : Initial Calibration

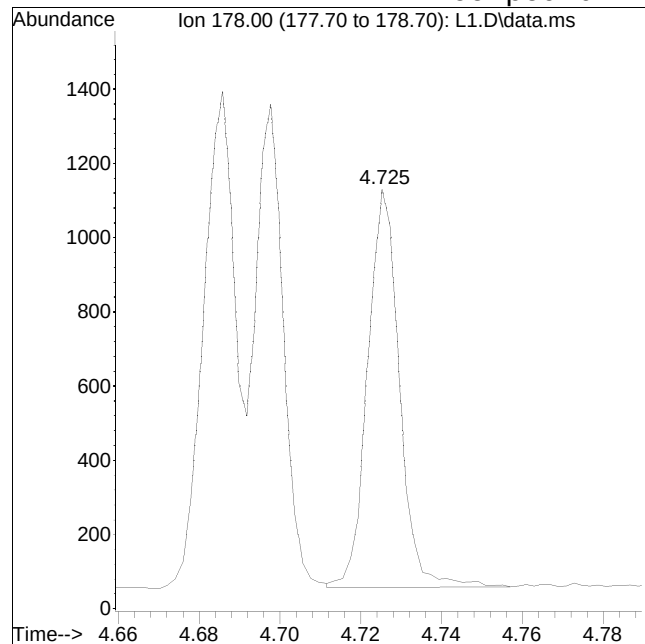
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

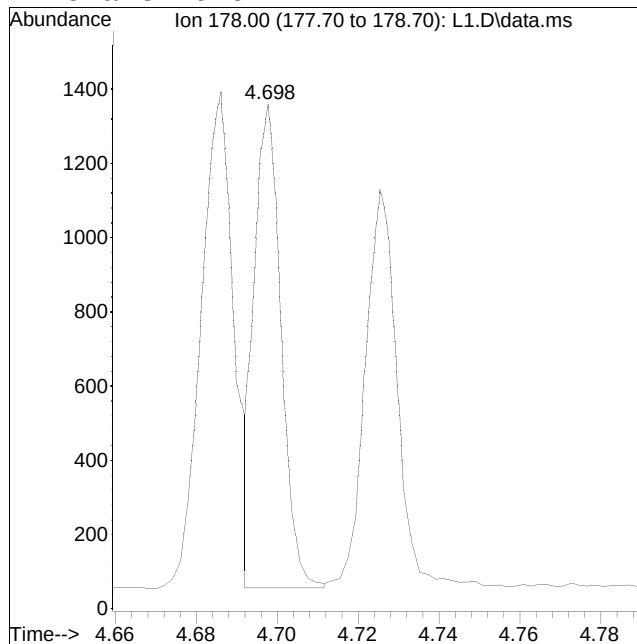
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L1.D Operator : SV118:rp
Date Inj'd : 2/3/2025 6:20 pm Instrument : SV118
Sample : IL1,32,, #11288 1 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #26: Phenanthrene



Original Peak Response = 585

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



Manual Peak Response = 596 M6

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : ICV.D
 Acq On : 03 Feb 2025 06:37 pm
 Operator : SV118:rp
 Sample : CQICV,32,, #11275 1000 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 07 14:31:33 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Feb 07 14:32:41 2025
 Response via : Initial Calibration

Min. RRF : 0.010 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	95	0.00
2 s	2-Fluorophenol	1.223	1.171	4.3	90	0.00
3 s	Phenol-d6	1.466	1.386	5.5	89	0.00
4 T	Bis(2-chloroethyl)ether	1.301	1.233	5.2	92	0.00
5 T	n-nitrosodi-n-propylamine	0.835	0.832	0.4	89	0.00
6 t	Hexachloroethane	0.544	0.530	2.6	92	0.00
7 s	Nitrobenzene-d5	1.197	1.210	-1.1	91	0.00
8 i	Naphthalene-d8	1.000	1.000	0.0	95	0.00
9 t	Naphthalene	1.137	1.056	7.1	91	0.00
10 t	Hexachlorobutadiene	0.204	0.192	5.9	90	0.00
11 t	2-Methylnaphthalene	0.707	0.678	4.1	92	0.00
12 t	1-Methylnaphthalene	0.719	0.695	3.3	93	0.00
13 s	2-Fluorobiphenyl	0.876	0.842	3.9	95	0.00
14 t	2-Chloronaphthalene	0.765	0.737	3.7	92	0.00
15 t	2,6-Dinitrotoluene	0.170	0.171	-0.6	88	0.00
16 t	Acenaphthylene	1.170	1.224	-4.6	94	0.00
17 i	Acenaphthene-d10	1.000	1.000	0.0	96	0.00
18 t	Acenaphthene	1.424	1.335	6.2	92	0.00
19 t	2,4-Dinitrotoluene	0.411	0.411	0.0	87	0.00
20 t	Fluorene	1.566	1.532	2.2	93	0.00
21 s	2,4,6-Tribromophenol	0.185	0.197	-6.5	89	0.00
22 i	Phenanthrene-d10	1.000	1.000	0.0	95	0.00
23 T	4,6-Dinitro-o-cresol	*1000.000	843.477	15.7	86	0.00
24 t	Hexachlorobenzene	0.265	0.252	4.9	92	0.00
25 t	Pentachlorophenol	*1000.000	964.113	3.6	88	0.00
26 t	Phenanthrene	1.211	1.145	5.5	92	0.00
27 t	Anthracene	1.202	1.188	1.2	93	0.00
28 t	Fluoranthene	1.379	1.343	2.6	92	0.00
29 t	Pyrene	1.427	1.410	1.2	92	0.00
30 s	4-Terphenyl-d14	0.929	0.918	1.2	96	0.00
31 i	Chrysene-d12	1.000	1.000	0.0	95	0.00
32 t	Benzo[a]anthracene	0.423	0.387	8.5	90	0.00
33 t	3,3'-Dichlorobenzidine	0.534	0.541	-1.3	89	0.00
34 t	Chrysene	1.380	1.318	4.5	91	0.00
35 T	Bis(2-ethylhexyl)phthalate	*1000.000	873.437	12.7	89	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : ICV.D
 Acq On : 03 Feb 2025 06:37 pm
 Operator : SV118:rp
 Sample : CQICV,32,, #11275 1000 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 07 14:31:33 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Feb 07 14:32:41 2025
 Response via : Initial Calibration

Min. RRF : 0.010 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	95	0.00
37 t	Benzo[b]fluoranthene	1.316	1.279	2.8	90	0.00
38 t	Benzo[k]fluoranthene	1.252	1.326	-5.9	94	0.00
39 t	Benzo[a]pyrene	1.095	1.179	-7.7	93	0.00
40 t	Indeno[1,2,3-cd]pyrene	0.971	1.003	-3.3	90	0.00
41 t	Dibenzo[a,h]anthracene	0.937	0.994	-6.1	89	0.01
42 t	Benzo[g,h,i]perylene	1.026	1.027	-0.1	88	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\SV118\250203RVTical\
 Data File : ICV.D
 Acq On : 03 Feb 2025 06:37 pm
 Operator : SV118:rp
 Sample : CQICV,32,, #11275 1000 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 10 09:30:47 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Feb 10 09:31:55 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.200	152	449560	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery =	94.76%		
8) Naphthalene-d8	2.863	136	1669889	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery =	95.11%		
17) Acenaphthene-d10	3.843	164	948422	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery =	96.20%		
22) Phenanthrene-d10	4.688	188	1875760	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery =	95.28%		
31) Chrysene-d12	6.240	240	1781042	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery =	95.40%		
36) Perylene-d12	7.446	264	1753630	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery =	94.91%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.620	112	131626	957.494	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	47.87%		
3) Phenol-d6	2.012	99	155721	945.392	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	47.27%		
7) Nitrobenzene-d5	2.480	82	135999	1011.118	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	101.11%		
13) 2-Fluorobiphenyl	3.462	172	351710	961.847	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	96.18%		
21) 2,4,6-Tribromophenol	4.288	330	46793	1066.565	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	53.33%		
30) 4-Terphenyl-d14	5.606	244	430348	987.608	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	98.76%		
Target Compounds						
						Qvalue
4) Bis(2-chloroethyl)ether	2.067	93	138533	947.214	ng/ml	100
5) n-nitrosodi-n-propylamine	2.403	70	93548	997.391	ng/ml	99
6) Hexachloroethane	2.457	117	59528	973.050	ng/ml	100
9) Naphthalene	2.873	128	440957	929.305	ng/ml	100
10) Hexachlorobutadiene	2.947	225	80293	944.995	ng/ml	100
11) 2-Methylnaphthalene	3.255	142	283062	958.712	ng/ml	100
12) 1-Methylnaphthalene	3.310	142	290156	966.941	ng/ml	100
14) 2-Chloronaphthalene	3.527	162	307878	963.775	ng/ml	100
15) 2,6-Dinitrotoluene	3.724	165	71414	1003.362	ng/ml	99
16) Acenaphthylene	3.761	152	510855	1045.833	ng/ml	100
18) Acenaphthene	3.861	153	316552	937.574	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : ICV.D
 Acq On : 03 Feb 2025 06:37 pm
 Operator : SV118:rp
 Sample : CQICV,32,, #11275 1000 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 10 09:30:47 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Feb 10 09:31:55 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	2,4-Dinitrotoluene	3.951	165	97432	999.493	ng/ml	97
20)	Fluorene	4.152	166	363147	978.275	ng/ml	100
23)	4,6-Dinitro-o-cresol	4.183	198	49821	843.477	ng/ml	99
24)	Hexachlorobenzene	4.471	284	118374	952.846	ng/ml	100
25)	Pentachlorophenol	4.583	266	61333	964.113	ng/ml	100
26)	Phenanthrene	4.700	178	536900	945.389	ng/ml	100
27)	Anthracene	4.727	178	557215	988.524	ng/ml	100
28)	Fluoranthene	5.380	202	629910	973.881	ng/ml	99
29)	Pyrene	5.510	202	661209	987.810	ng/ml	99
32)	Benzo[a]anthracene	6.231	226	172280	915.459	ng/ml#	99
33)	3,3'-Dichlorobenzidine	6.219	252	241044	1013.157	ng/ml	100
34)	Chrysene	6.254	228	586733	954.855	ng/ml#	100
35)	Bis(2-ethylhexyl)phtha...	6.267	149	367276	873.437	ng/ml	100
37)	Benzo[b]fluoranthene	7.073	252	560896	972.063	ng/ml	98
38)	Benzo[k]fluoranthene	7.095	252	581465	1059.096	ng/ml	98
39)	Benzo[a]pyrene	7.380	252	516672	1076.077	ng/ml	100
40)	Indeno[1,2,3-cd]pyrene	8.660	276	439757	1033.228	ng/ml	100
41)	Dibenzo[a,h]anthracene	8.703	278	435769M6	1060.539	ng/ml	
42)	Benzo[g,h,i]perylene	9.003	276	450098	1000.819	ng/ml	100

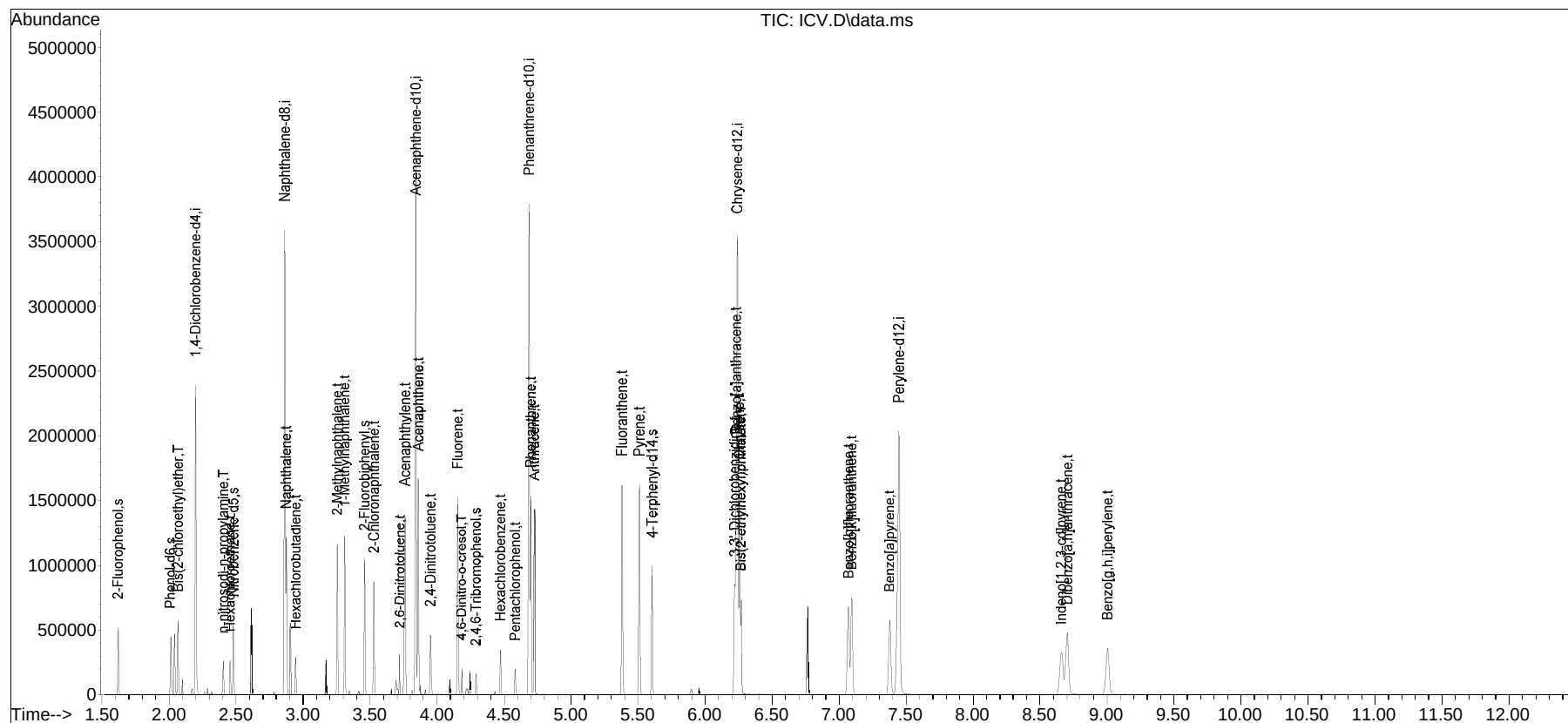
(#) = qualifier out of range (m) = manual integration (+) = signals summed

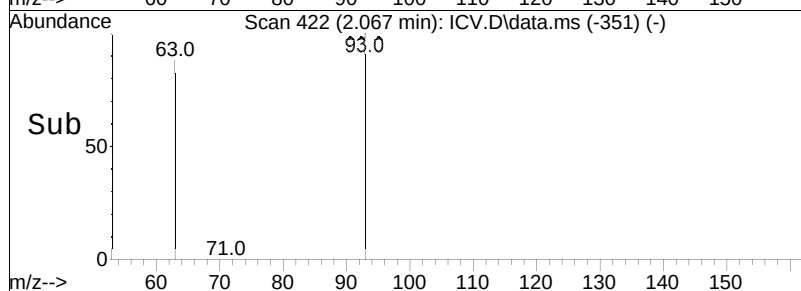
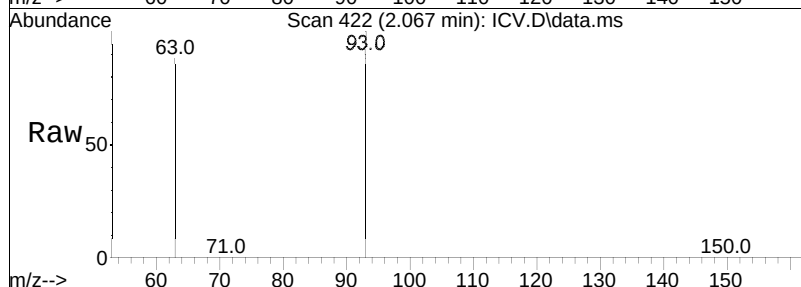
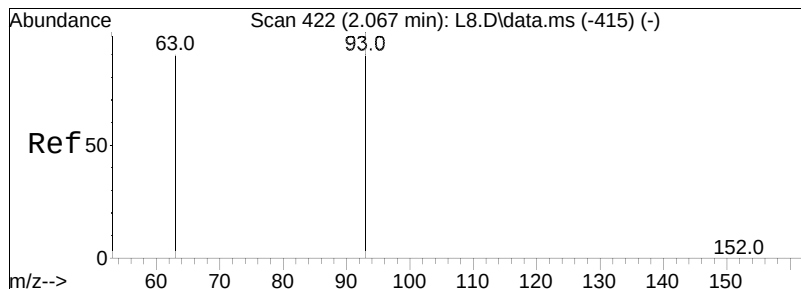
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
 Data File : ICV.D
 Acq On : 03 Feb 2025 06:37 pm
 Operator : SV118:rp
 Sample : CQICV,32,, #11275 1000 ng/ml
 Misc : WG2028184,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 10 09:30:47 2025
 Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Feb 10 09:31:55 2025
 Response via : Initial Calibration

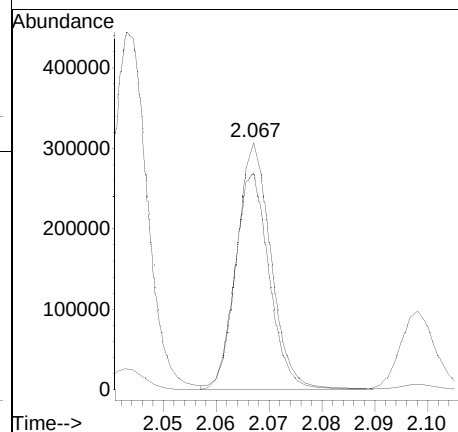
Sub List : Default - All compounds listedical\L8.D•

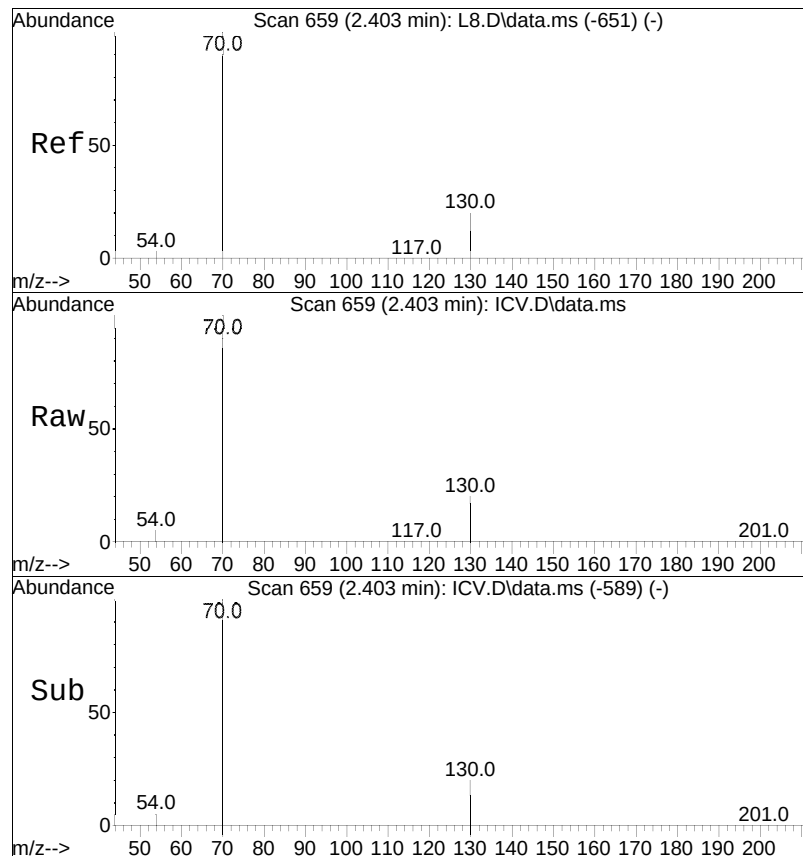




#4
 Bis(2-chloroethyl)ether
 Concen: 947.21 ng/ml
 RT: 2.067 min Scan# 422
 Delta R.T. 0.000 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

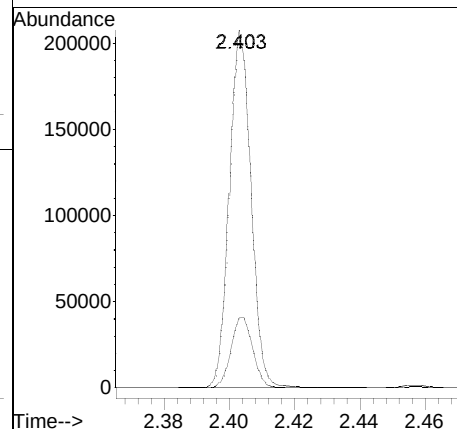
Tgt Ion: 93 Resp: 138533
 Ion Ratio Lower Upper
 93 100
 63 87.7 70.2 105.4

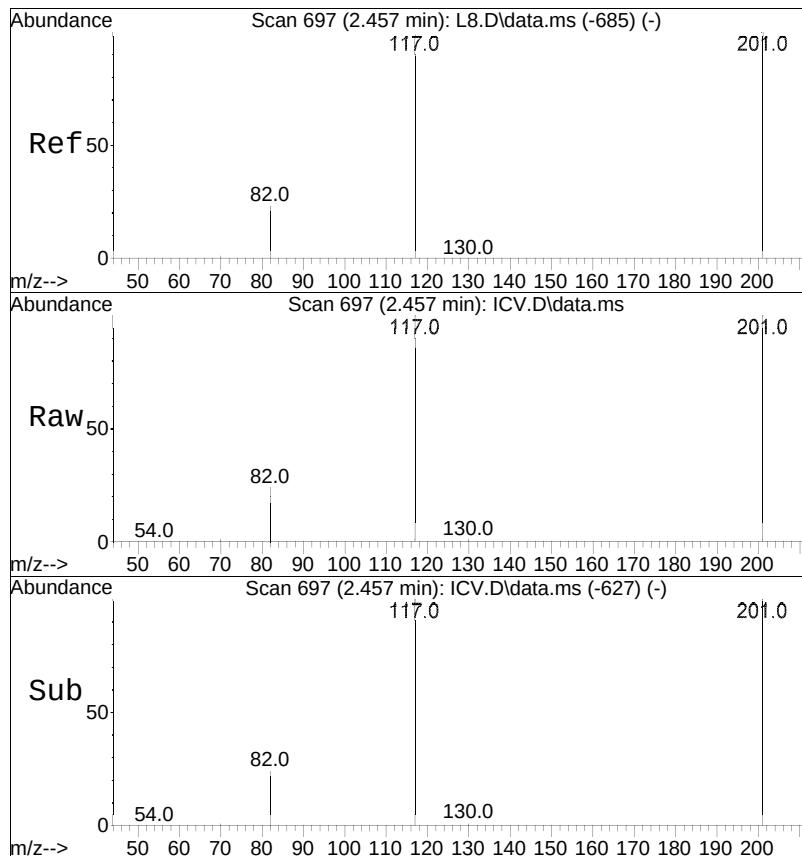




#5
 n-nitrosodi-n-propylamine
 Concen: 997.39 ng/ml
 RT: 2.403 min Scan# 659
 Delta R.T. 0.000 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

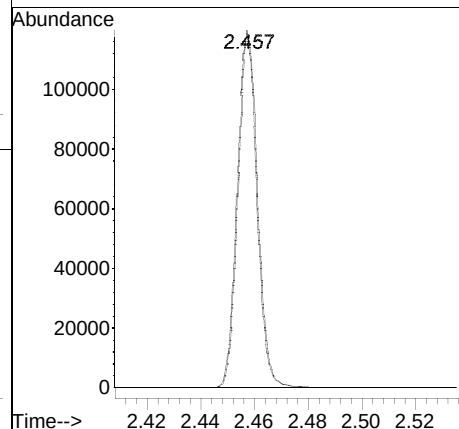
Tgt Ion	Ratio	Lower	Upper
70	100		
130	19.9	16.2	24.4

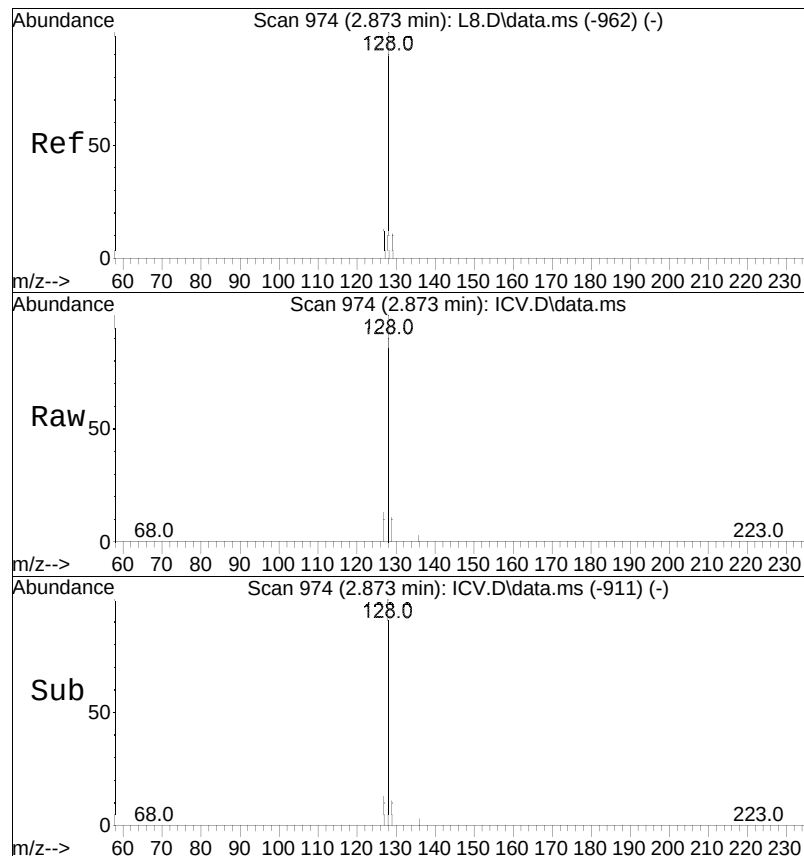




#6
 Hexachloroethane
 Concen: 973.05 ng/ml
 RT: 2.457 min Scan# 697
 Delta R.T. 0.000 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

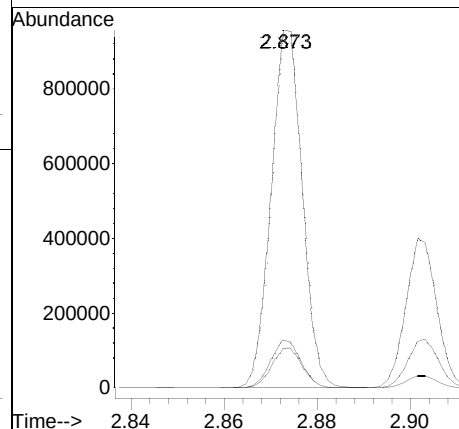
Tgt Ion:117 Resp: 59528
 Ion Ratio Lower Upper
 117 100
 201 100.3 80.5 120.7

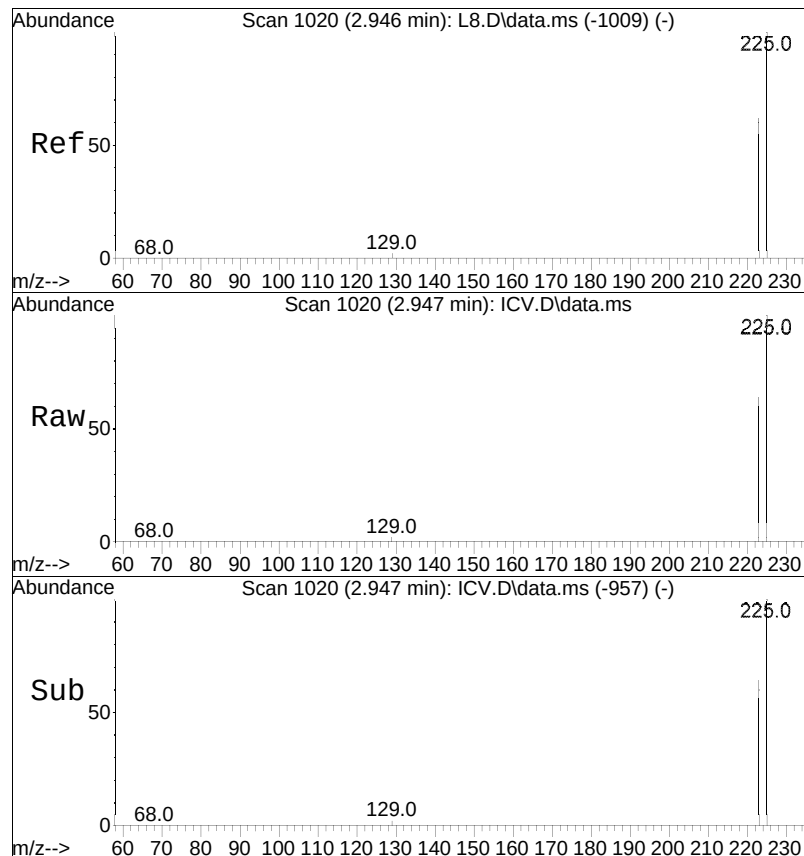




#9
 Naphthalene
 Concen: 929.30 ng/ml
 RT: 2.873 min Scan# 974
 Delta R.T. -0.000 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

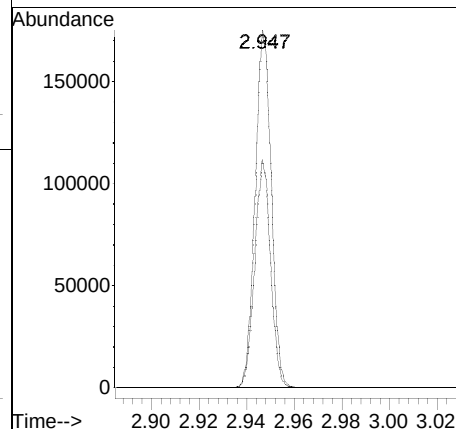
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	440957		
129	11.1		8.9	13.3
127	13.2		10.6	15.8

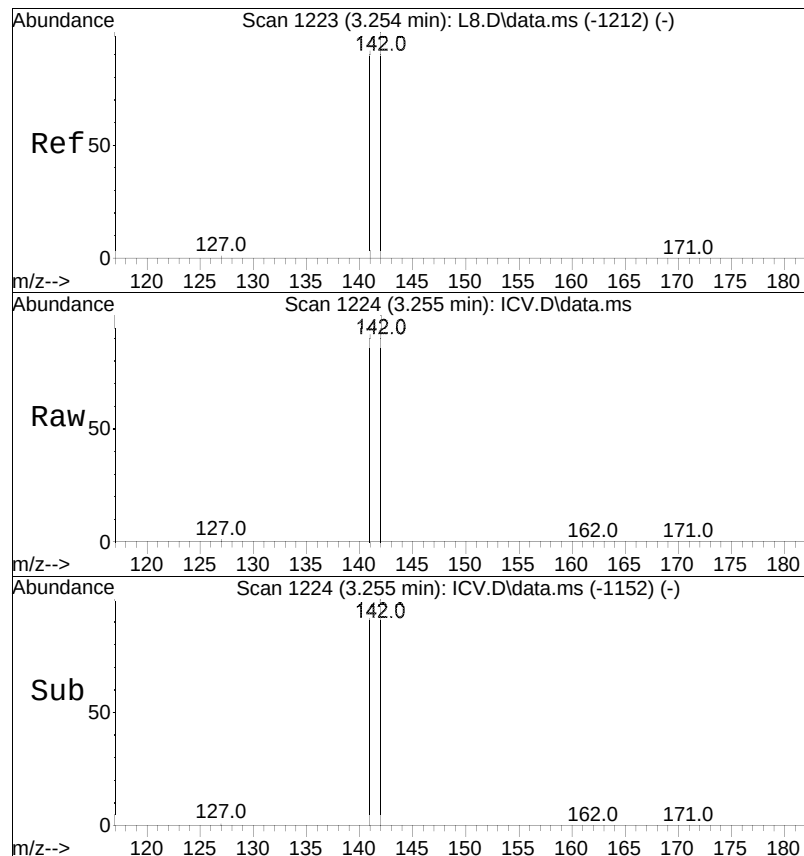




#10
 Hexachlorobutadiene
 Concen: 945.00 ng/ml
 RT: 2.947 min Scan# 1020
 Delta R.T. 0.001 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

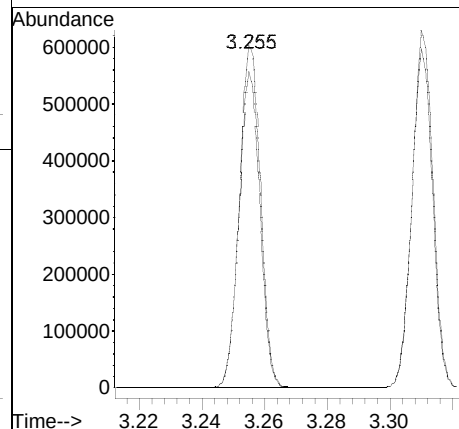
Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.2

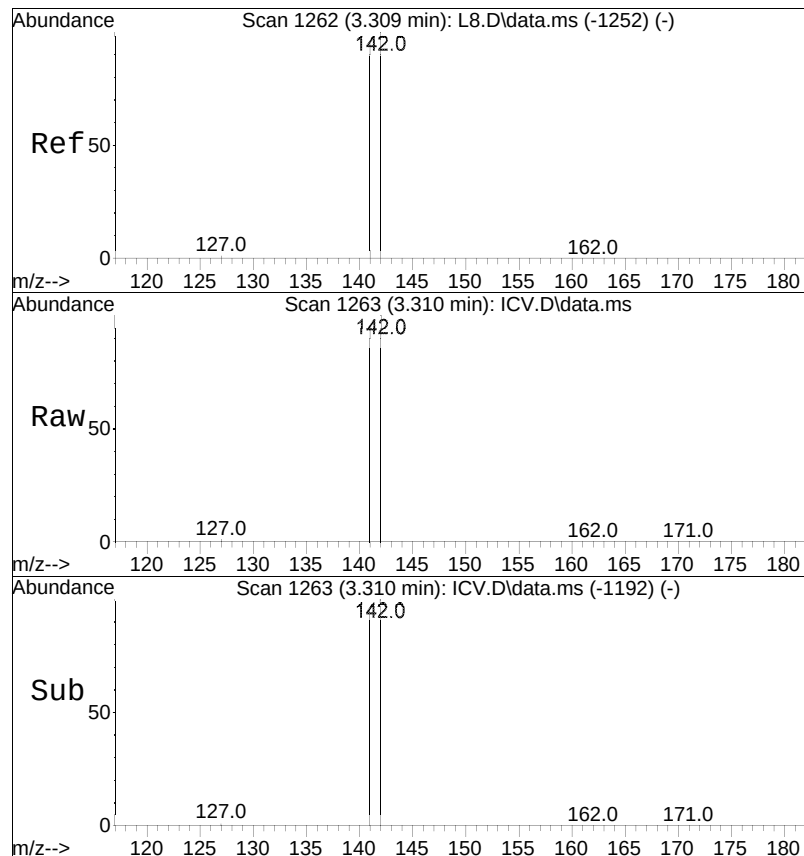




#11
 2-Methylnaphthalene
 Concen: 958.71 ng/ml
 RT: 3.255 min Scan# 1224
 Delta R.T. 0.001 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

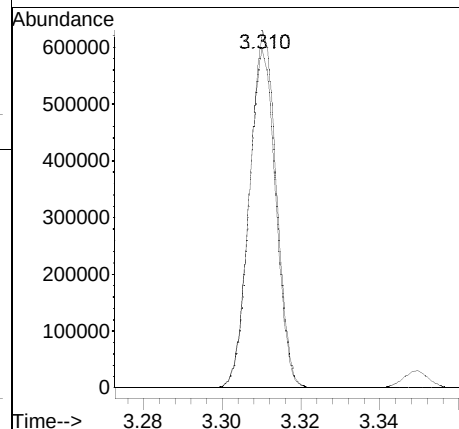
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.4	110.2

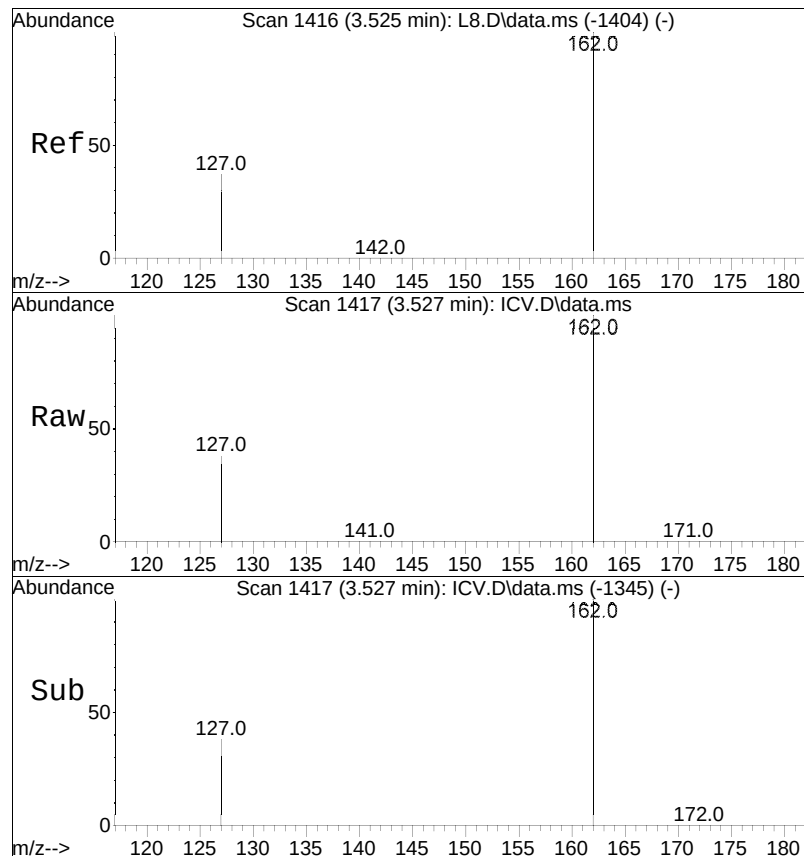




#12
 1-Methylnaphthalene
 Concen: 966.94 ng/ml
 RT: 3.310 min Scan# 1263
 Delta R.T. 0.001 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

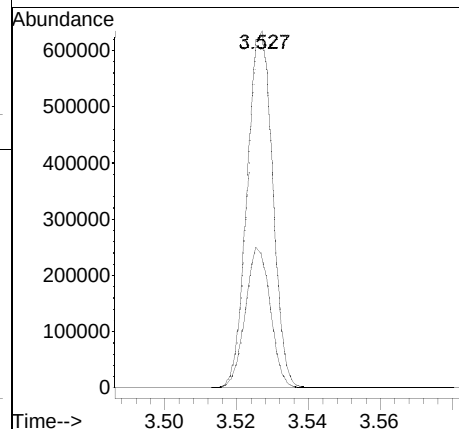
Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.8	76.0	114.0

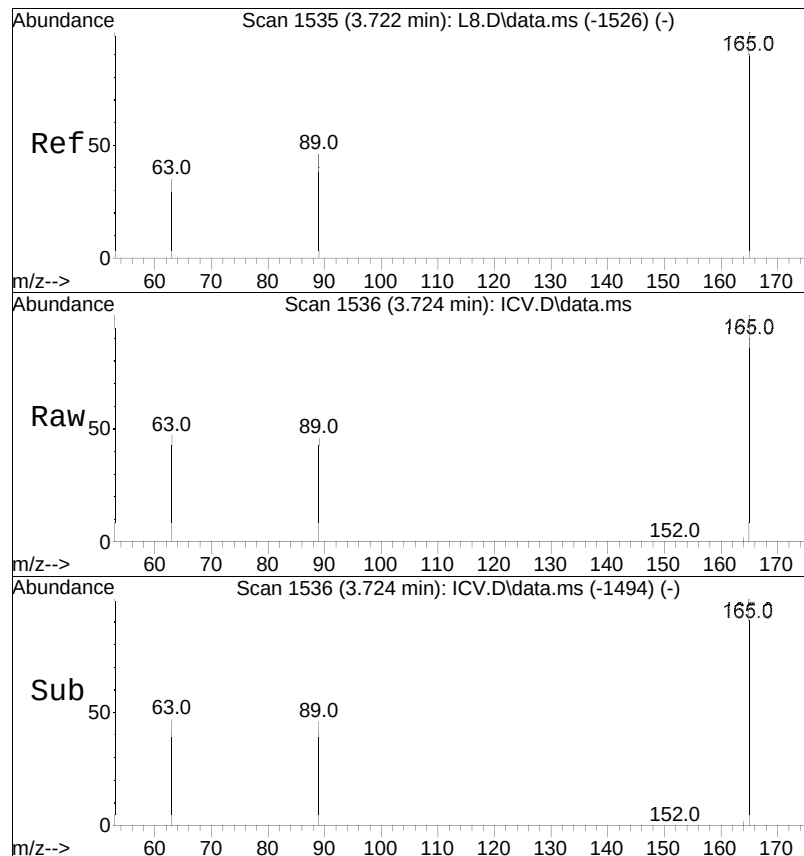




#14
 2-Chloronaphthalene
 Concen: 963.78 ng/ml
 RT: 3.527 min Scan# 1417
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

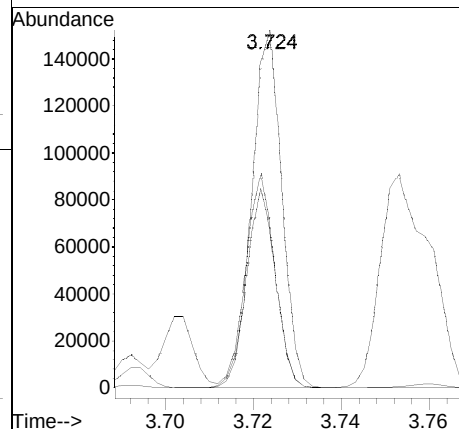
Tgt Ion:	162	Resp:	307878
Ion Ratio	Lower	Upper	
162	100		
127	38.8	31.0	46.6

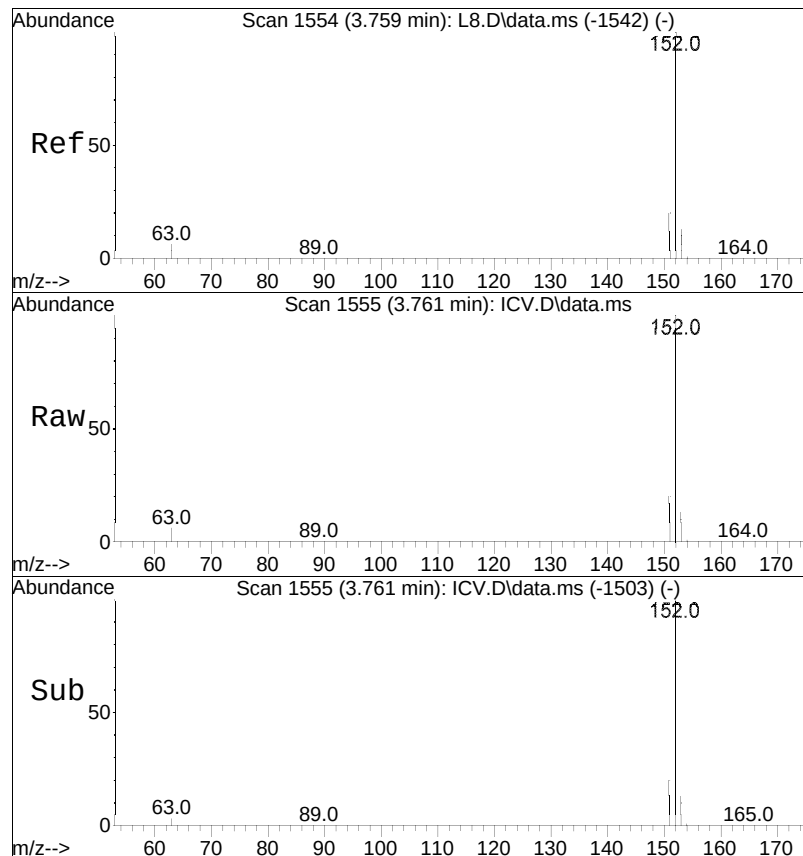




#15
 2,6-Dinitrotoluene
 Concen: 1003.36 ng/ml
 RT: 3.724 min Scan# 1536
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

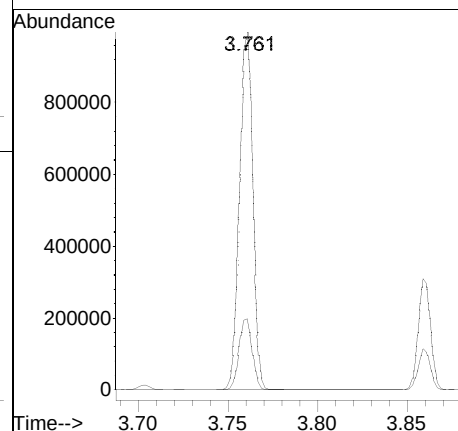
Tgt Ion	Ratio	Lower	Upper
165	100		
89	54.7	43.2	64.8
63	58.5	46.4	69.6

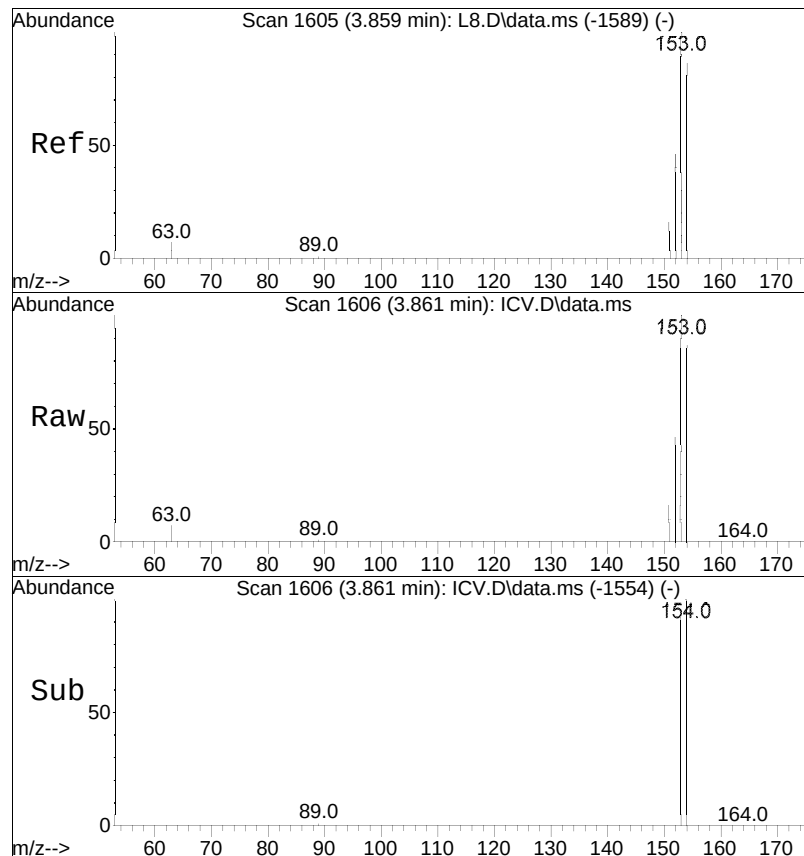




#16
 Acenaphthylene
 Concen: 1045.83 ng/ml
 RT: 3.761 min Scan# 1555
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

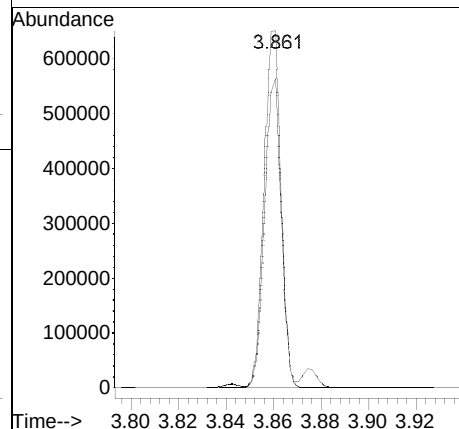
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0

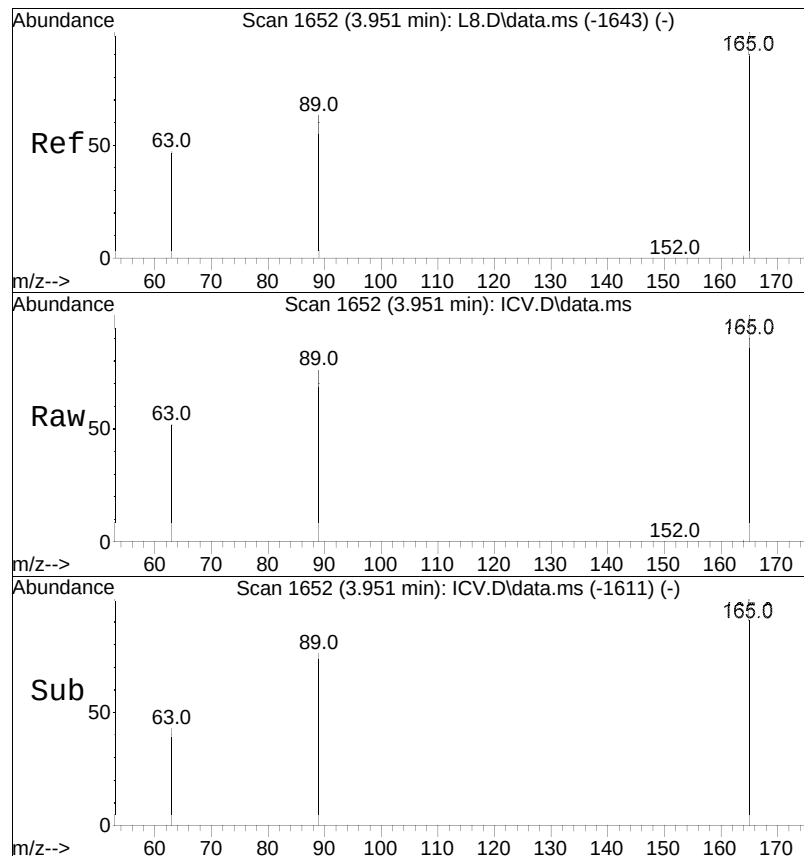




#18
 Acenaphthene
 Concen: 937.57 ng/ml
 RT: 3.861 min Scan# 1606
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

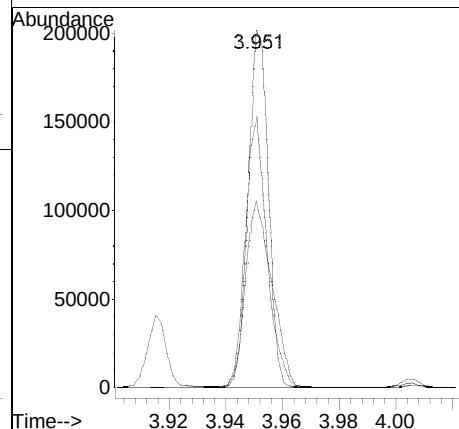
Tgt Ion	Ratio	Lower	Upper
153	100		
154	84.9	67.9	101.9

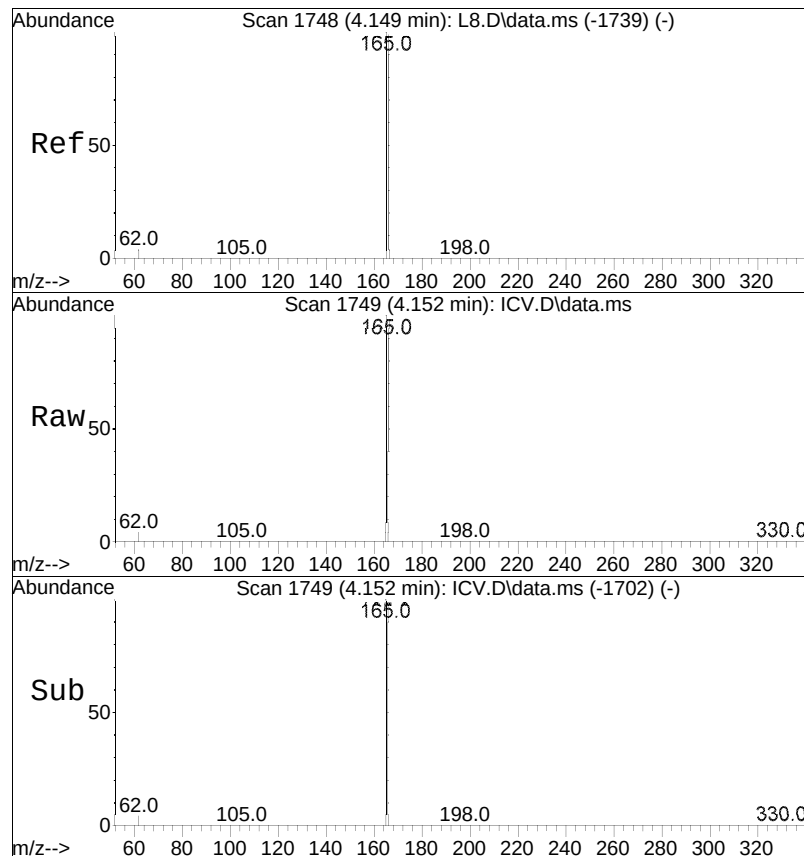




#19
 2,4-Dinitrotoluene
 Concen: 999.49 ng/ml
 RT: 3.951 min Scan# 1652
 Delta R.T. -0.000 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

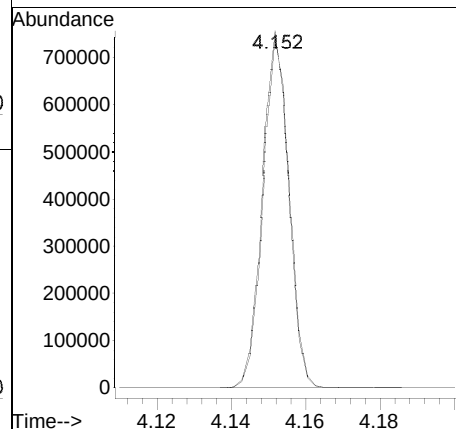
Tgt Ion	Ratio	Lower	Upper
165	100		
89	82.1	63.9	95.9
63	69.0	53.0	79.6

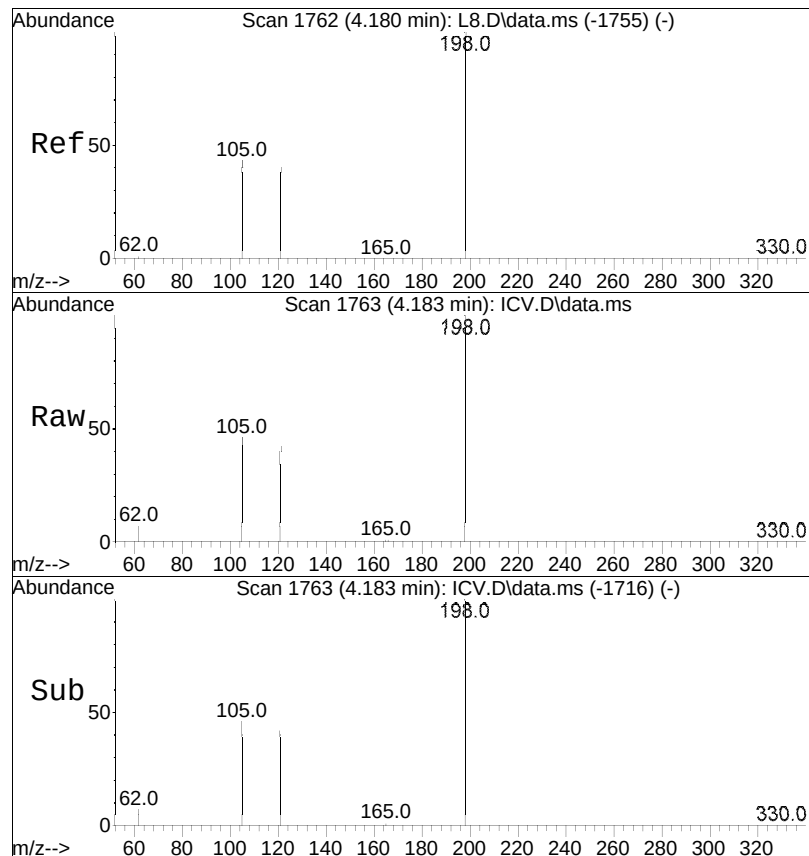




#20
Fluorene
Concen: 978.28 ng/ml
RT: 4.152 min Scan# 1749
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

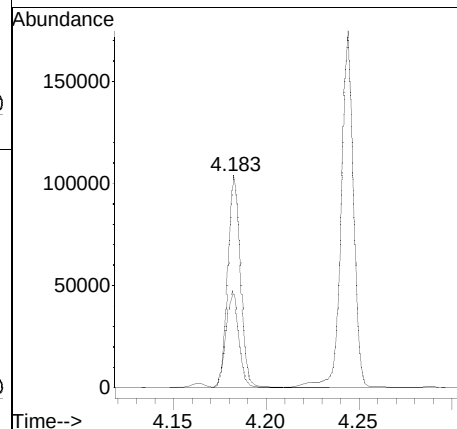
Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.6	81.3	121.9

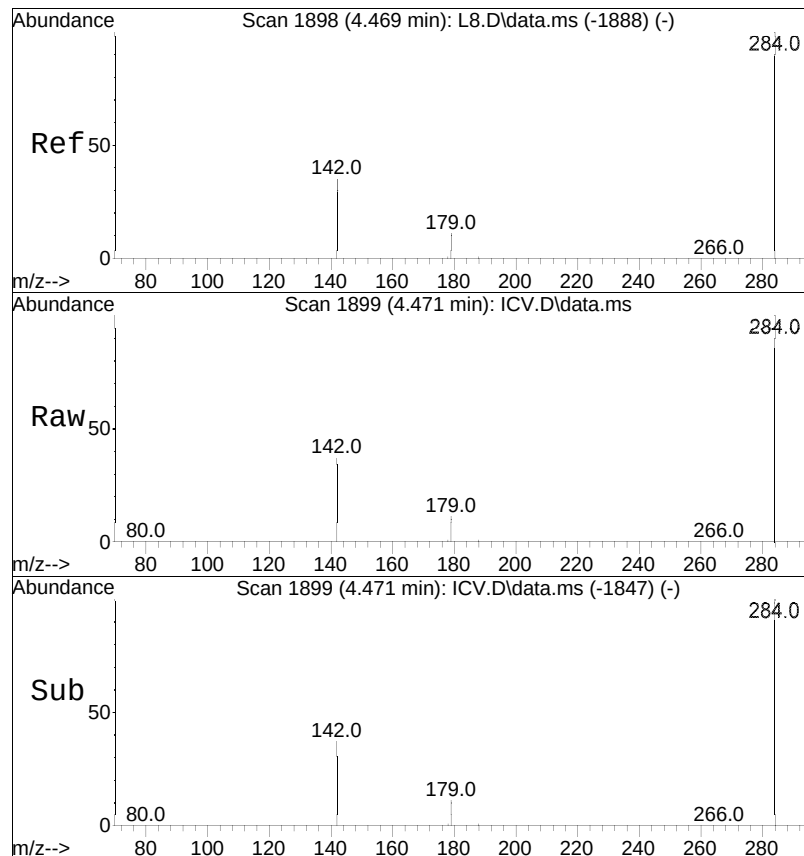




#23
 4,6-Dinitro-o-cresol
 Concen: 843.48 ng/ml
 RT: 4.183 min Scan# 1763
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

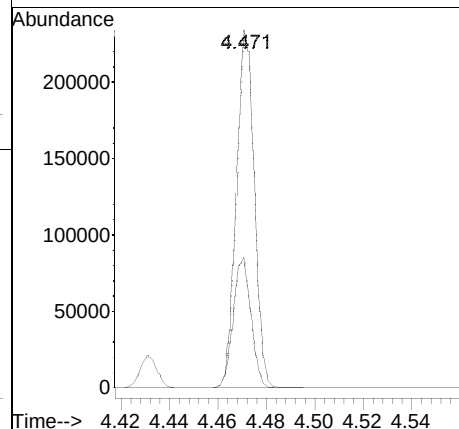
Tgt Ion	198	105	Ratio	Lower	Upper
Resp	49821				
Ion	100	45.0		35.5	53.3

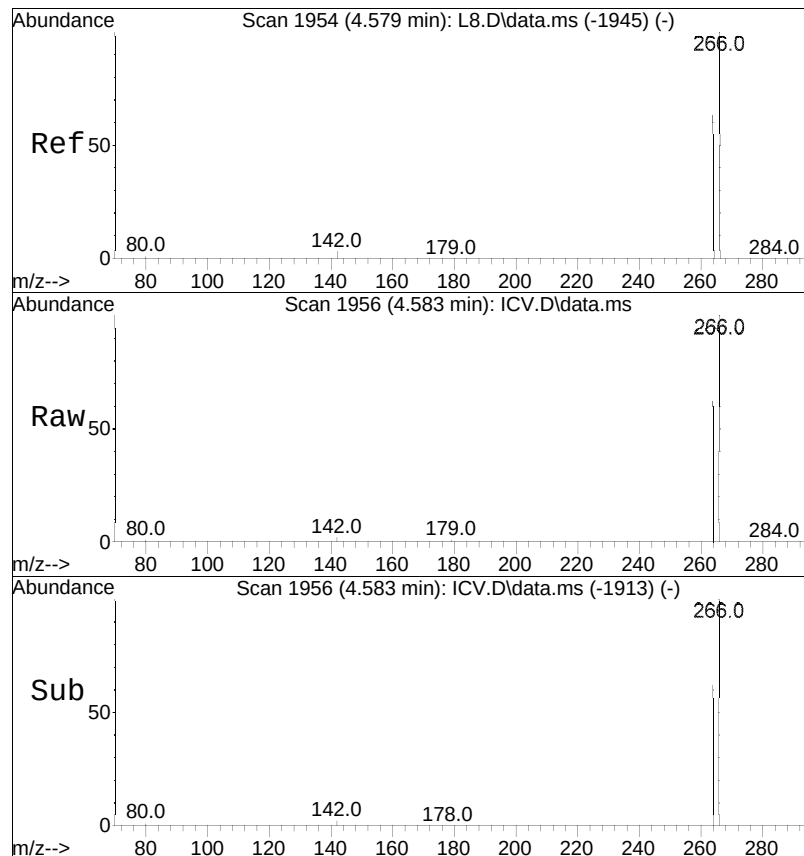




#24
 Hexachlorobenzene
 Concen: 952.85 ng/ml
 RT: 4.471 min Scan# 1899
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

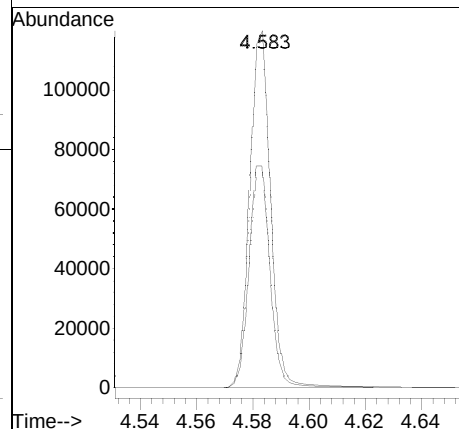
Tgt Ion	Ratio	Lower	Upper
284	100		
142	36.3	29.0	43.4

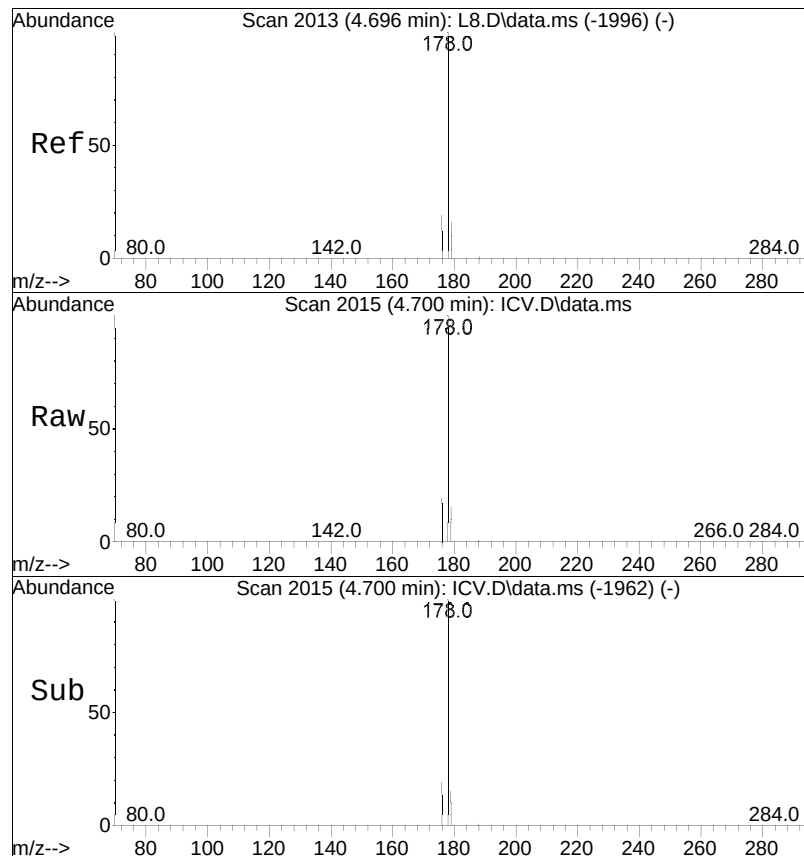




#25
 Pentachlorophenol
 Concen: 964.11 ng/ml
 RT: 4.583 min Scan# 1956
 Delta R.T. 0.004 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

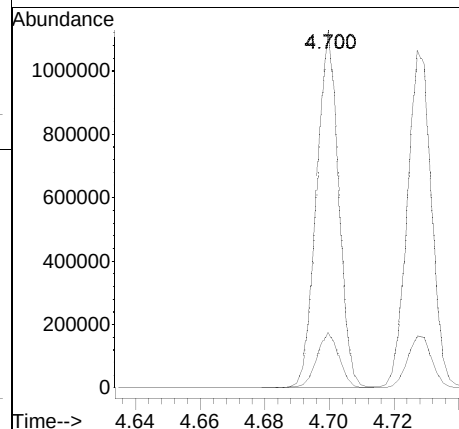
Tgt	Ion	Ratio	Lower	Upper
266	266	100		
264	264	62.9	50.3	75.5

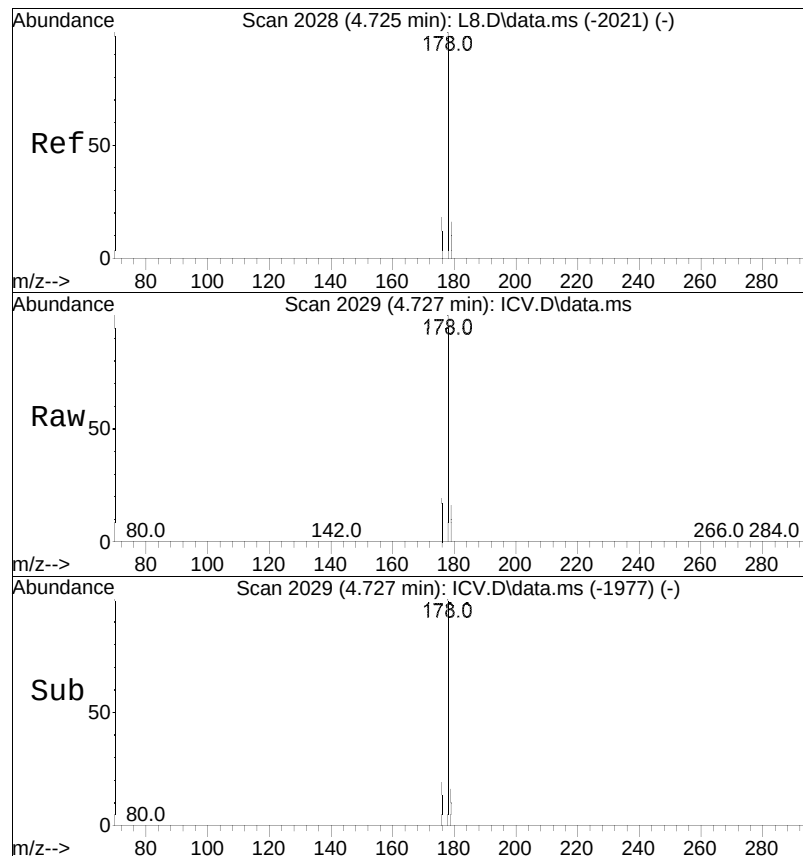




#26
 Phenanthrene
 Concen: 945.39 ng/ml
 RT: 4.700 min Scan# 2015
 Delta R.T. 0.004 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

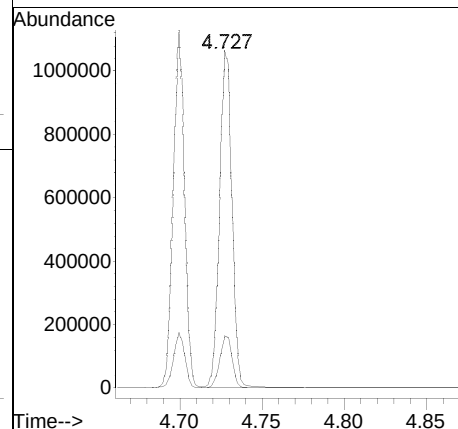
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

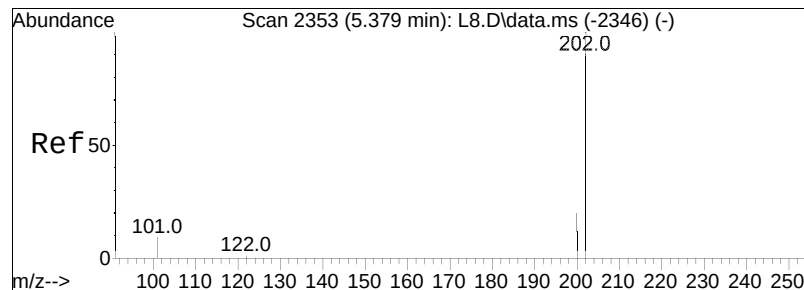




#27
 Anthracene
 Concen: 988.52 ng/ml
 RT: 4.727 min Scan# 2029
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

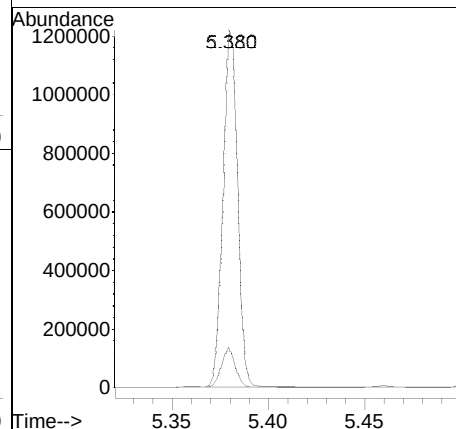
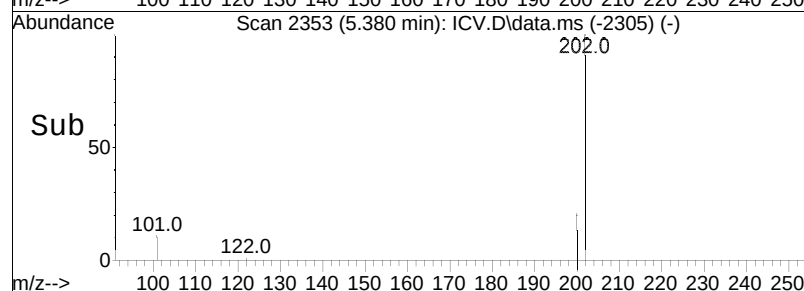
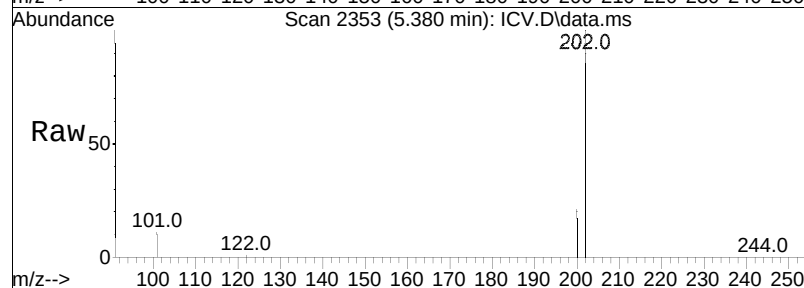
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.4	18.6

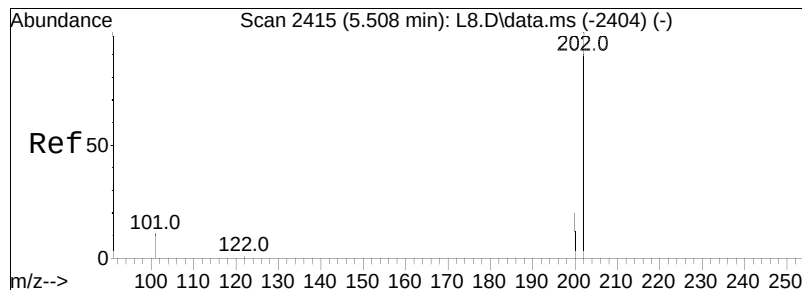




#28
 Fluoranthene
 Concen: 973.88 ng/ml
 RT: 5.380 min Scan# 2353
 Delta R.T. 0.001 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.8	8.8	13.2





#29

Pyrene

Concen: 987.81 ng/ml

RT: 5.510 min Scan# 2416

Delta R.T. 0.002 min

Lab File: ICV.D

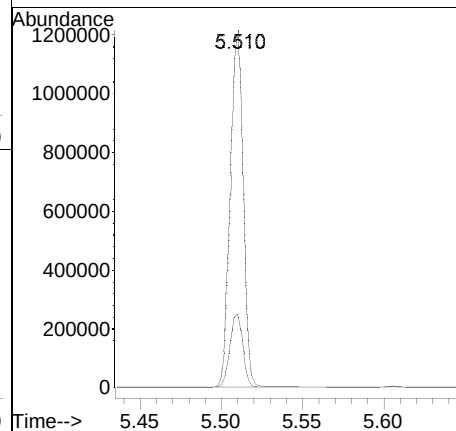
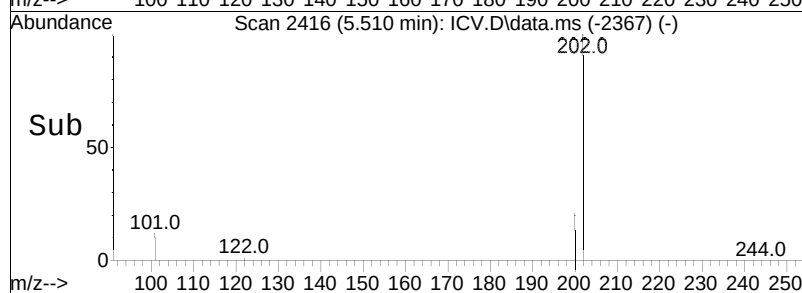
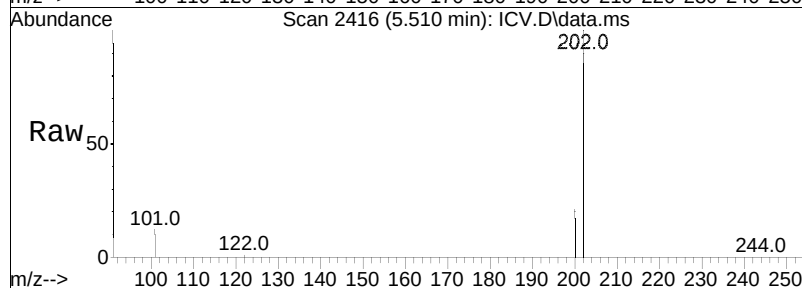
Acq: 03 Feb 2025 06:37 pm

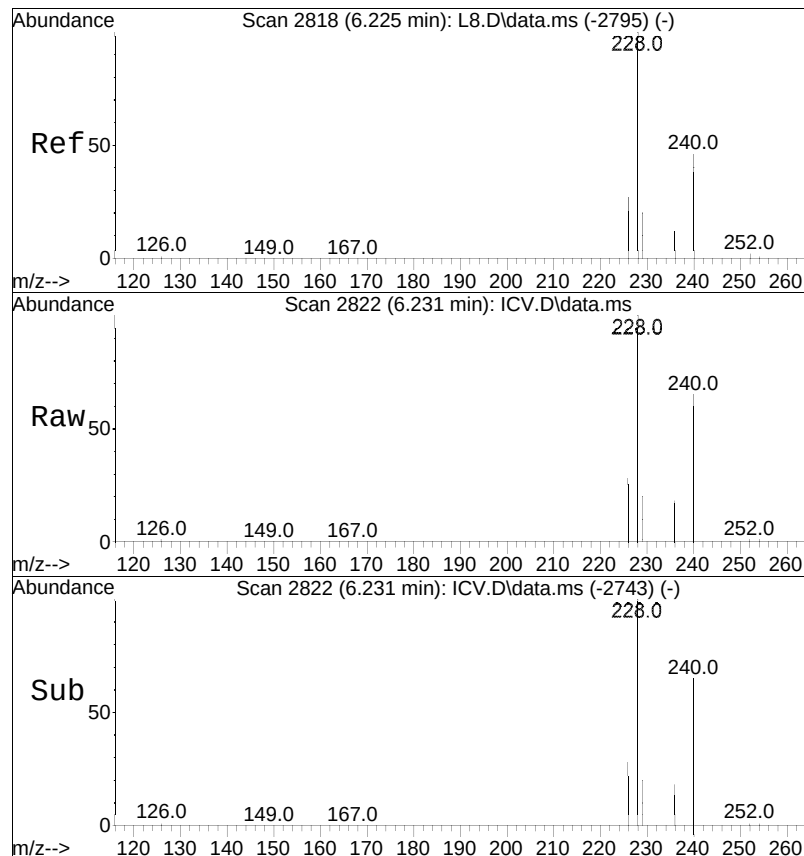
Tgt Ion: 202 Resp: 661209

Ion Ratio Lower Upper

202 100

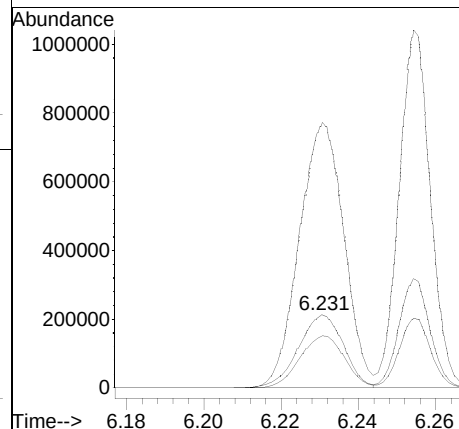
200 20.9 16.9 25.3

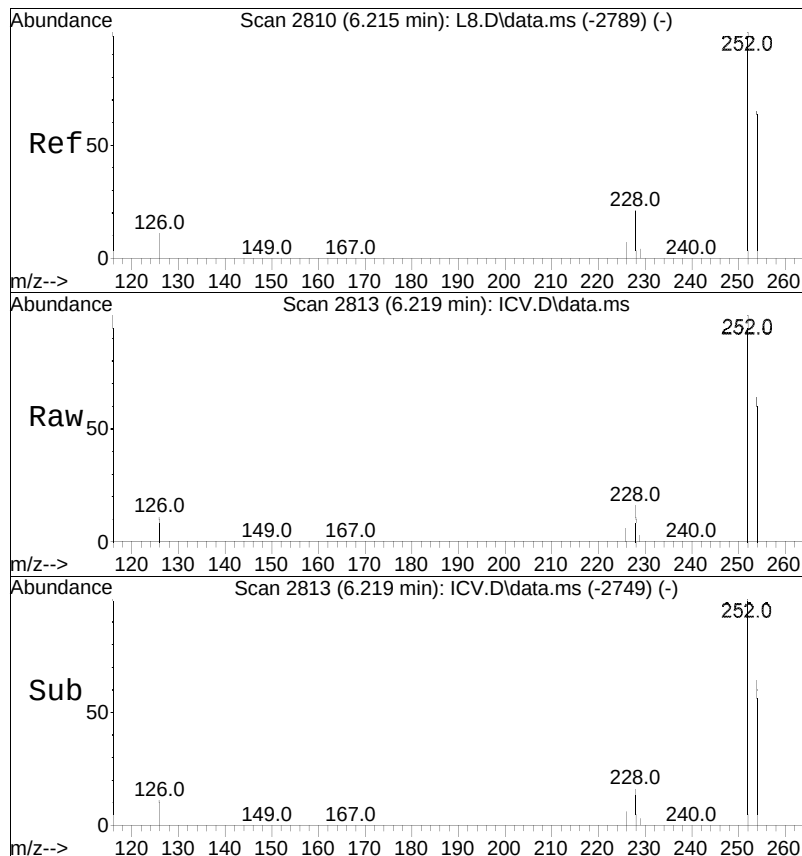




#32
 Benzo[a]anthracene
 Concen: 915.46 ng/ml
 RT: 6.231 min Scan# 2822
 Delta R.T. 0.006 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

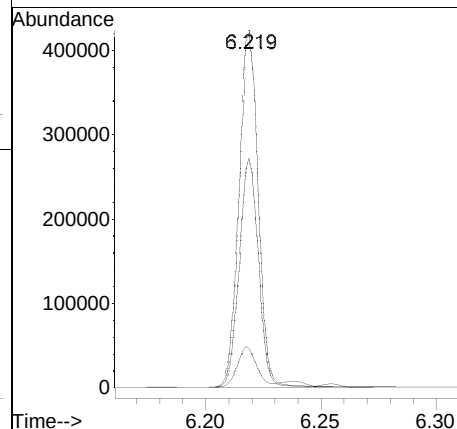
Tgt Ion:	226	Resp:	172280
Ion Ratio	Lower	Upper	
226	100		
227	0.0	0.0	0.0
228	357.8	288.7	433.1
229	70.4	56.8	85.2

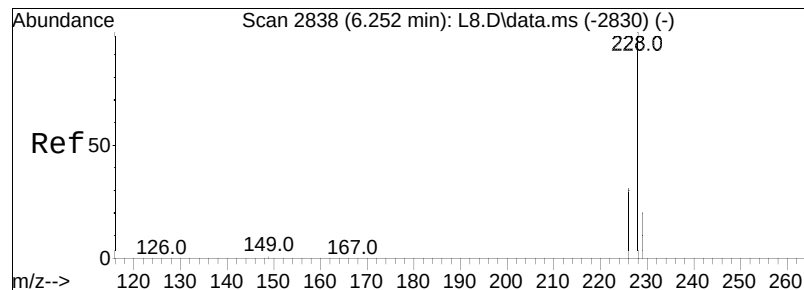




#33
 3,3'-Dichlorobenzidine
 Concen: 1013.16 ng/ml
 RT: 6.219 min Scan# 2813
 Delta R.T. 0.004 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

Tgt Ion	Ratio	Lower	Upper
252	100		
126	11.8	9.5	14.3
254	64.5	51.5	77.3





#34

Chrysene

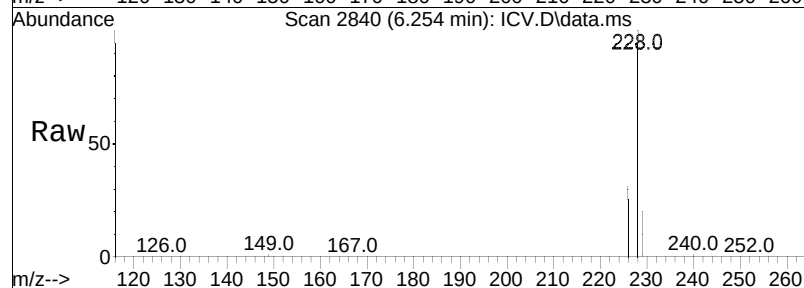
Concen: 954.85 ng/ml

RT: 6.254 min Scan# 2840

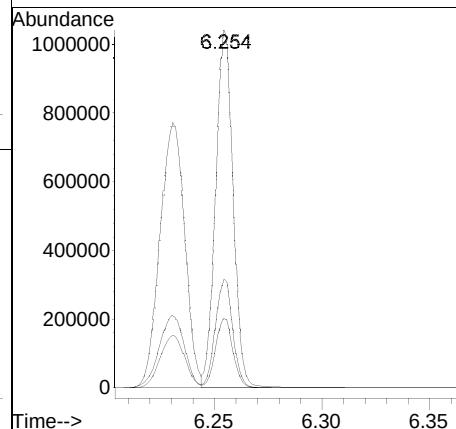
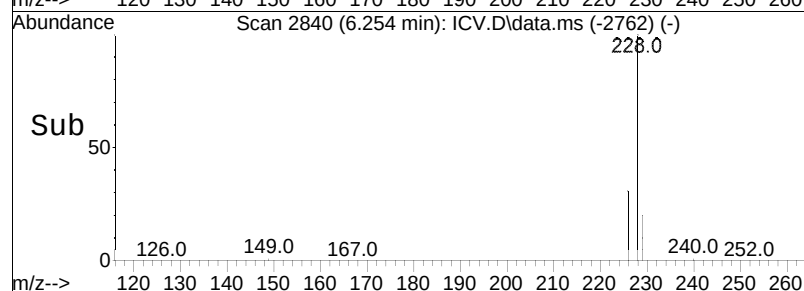
Delta R.T. 0.002 min

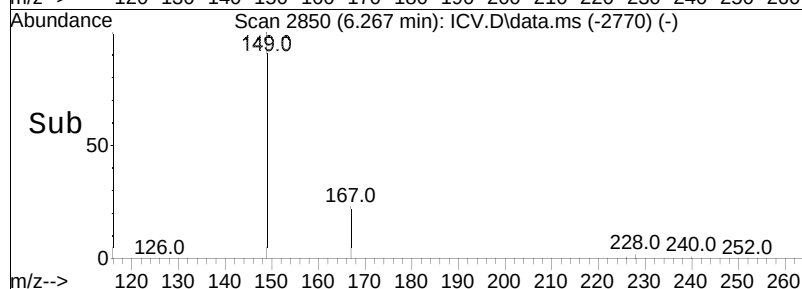
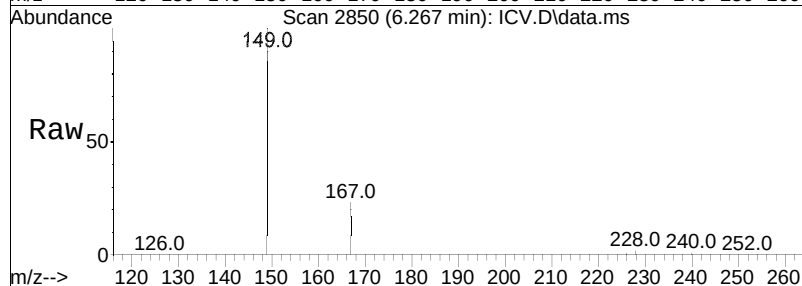
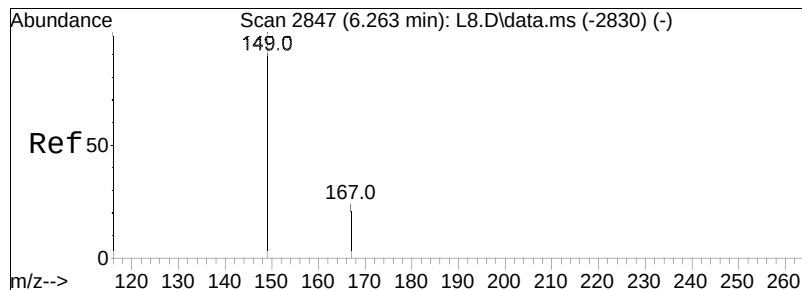
Lab File: ICV.D

Acq: 03 Feb 2025 06:37 pm



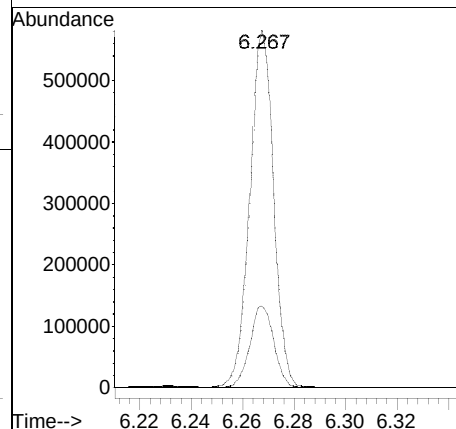
Tgt Ion:	228	Resp:	586733
Ion Ratio	Lower	Upper	
228	100		
226	30.2	24.4	36.6
227	0.0	0.0	0.0
229	19.6	15.6	23.4

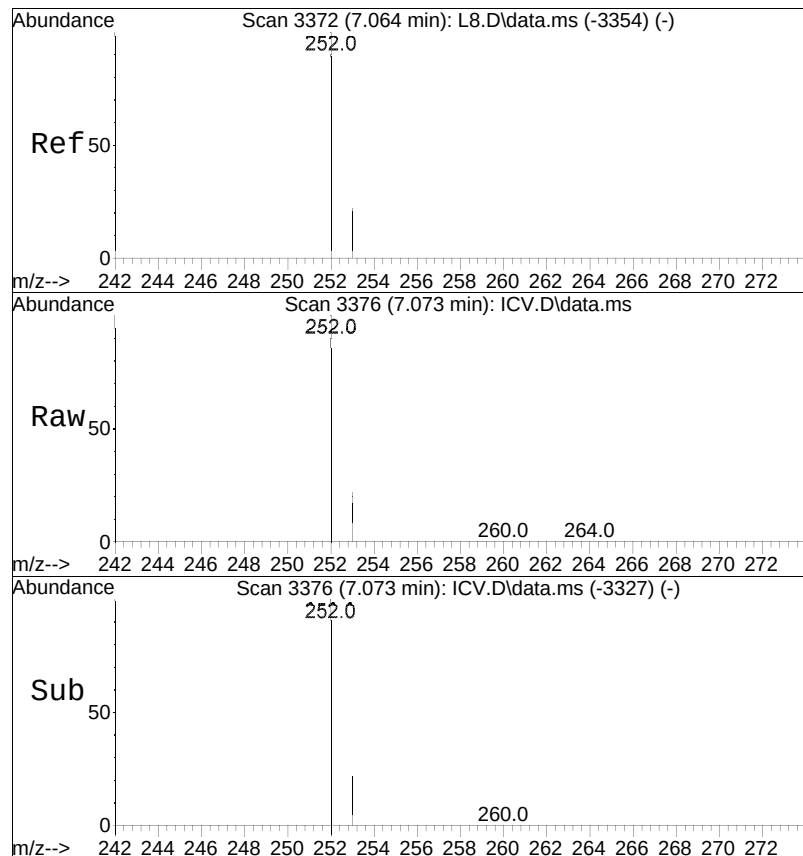




#35
 Bis(2-ethylhexyl)phthalate
 Concen: 873.44 ng/ml
 RT: 6.267 min Scan# 2850
 Delta R.T. 0.004 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

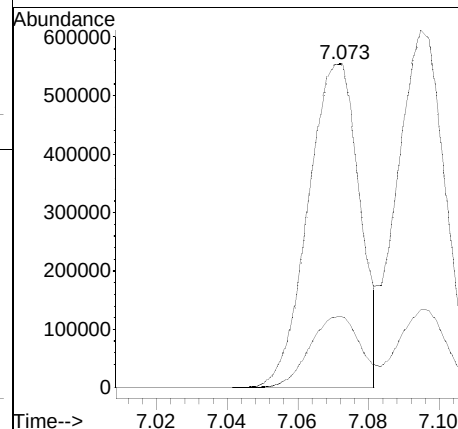
Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.1	18.6	27.8

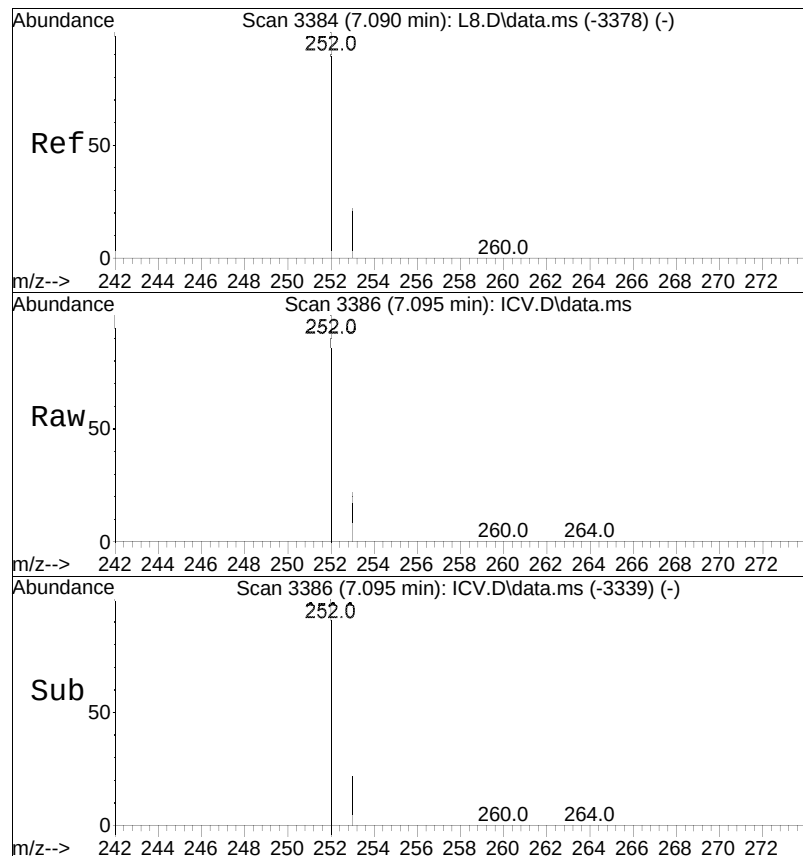




#37
 Benzo[b]fluoranthene
 Concen: 972.06 ng/ml
 RT: 7.073 min Scan# 3376
 Delta R.T. 0.009 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

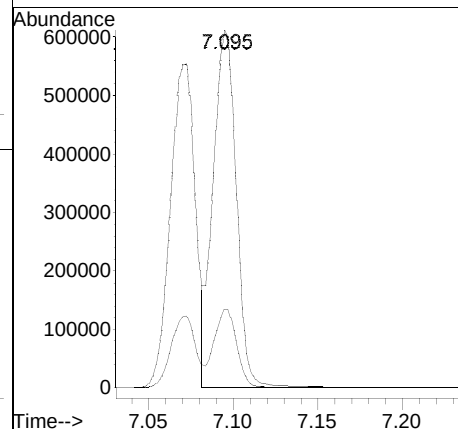
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	22.6	17.4	26.2	

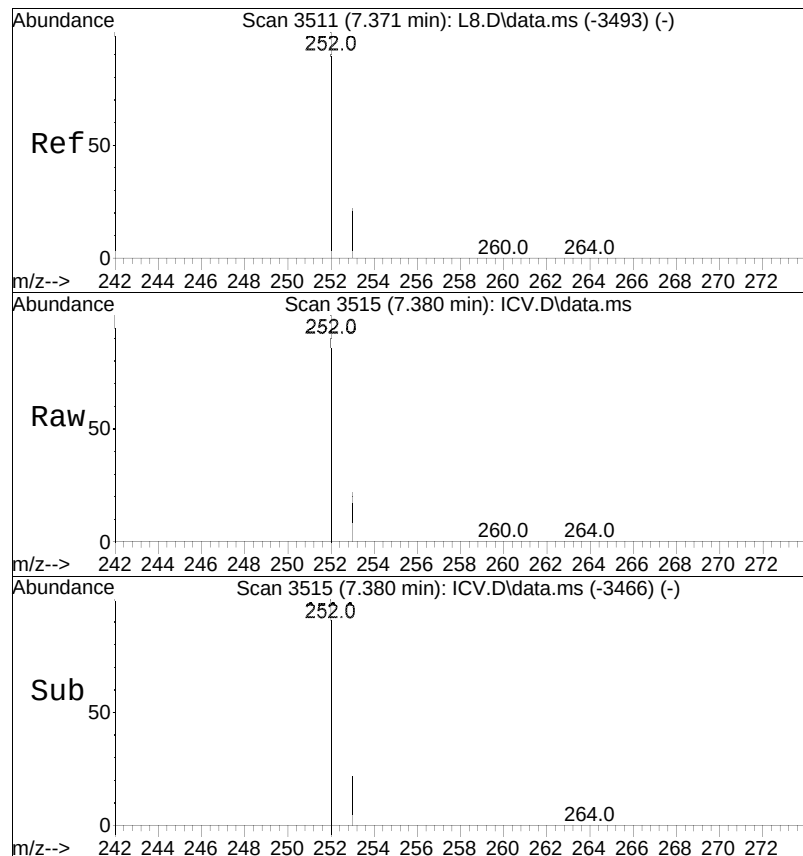




#38
 Benzo[k]fluoranthene
 Concen: 1059.10 ng/ml
 RT: 7.095 min Scan# 3386
 Delta R.T. 0.005 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

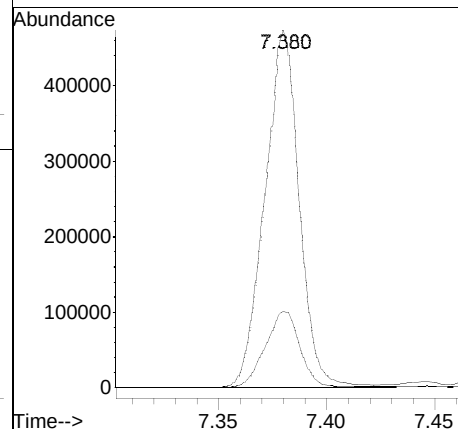
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.2	17.6	26.4	

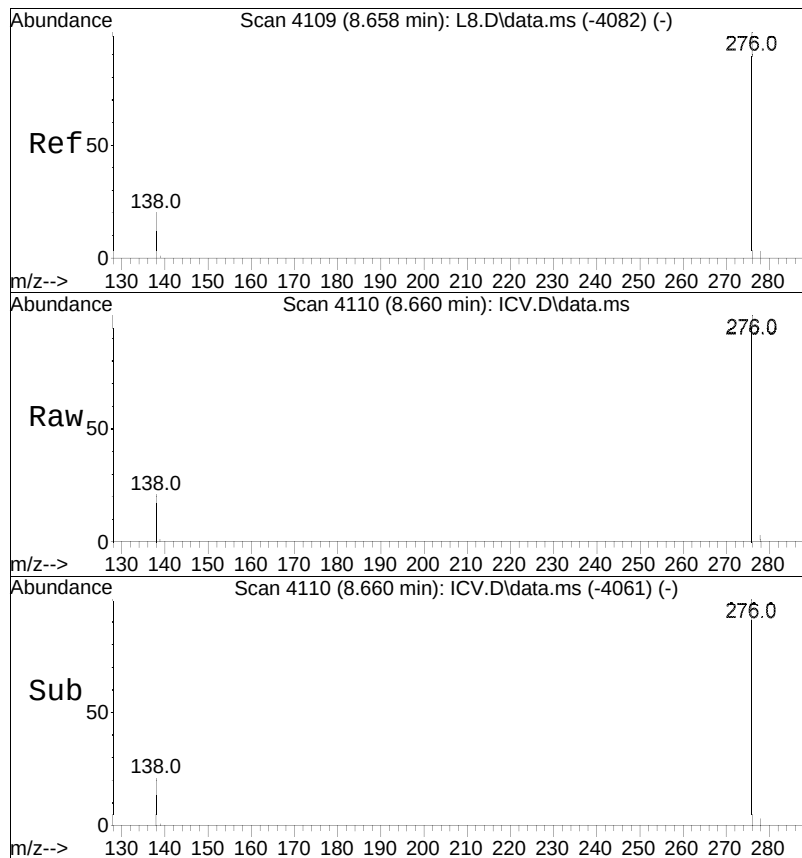




#39
 Benzo[a]pyrene
 Concen: 1076.08 ng/ml
 RT: 7.380 min Scan# 3515
 Delta R.T. 0.009 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

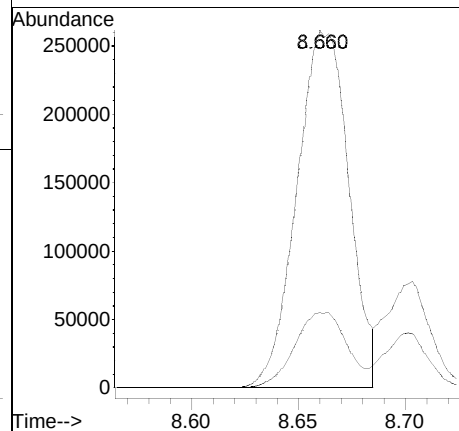
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

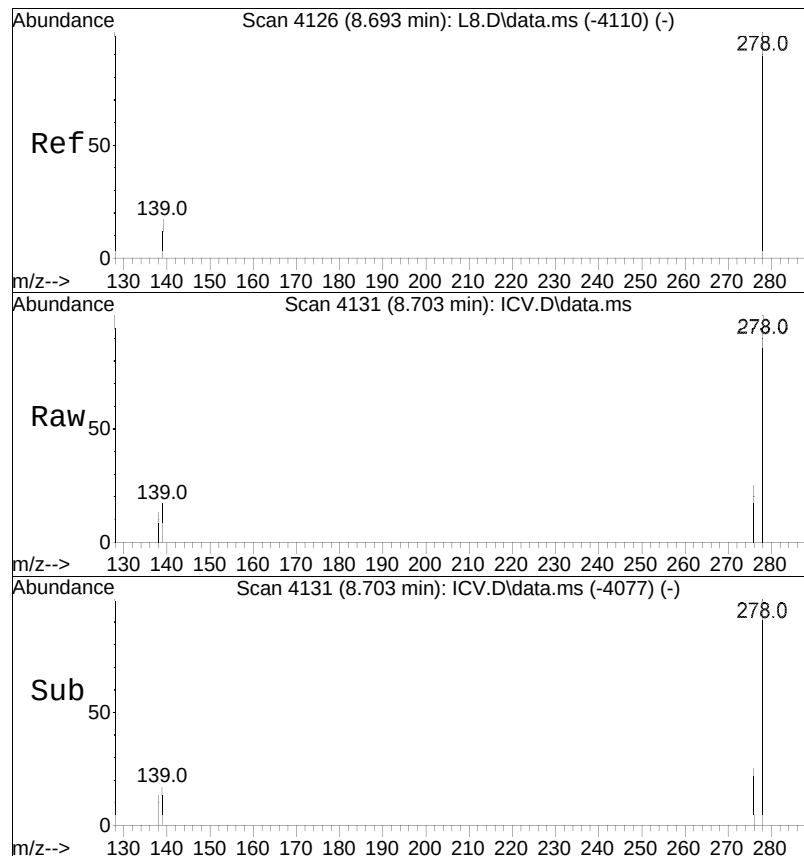




#40
 Indeno[1,2,3-cd]pyrene
 Concen: 1033.23 ng/ml
 RT: 8.660 min Scan# 4110
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

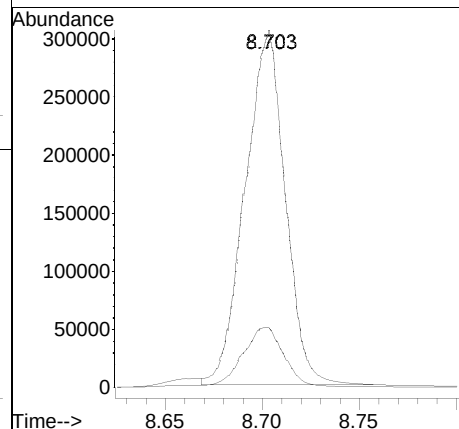
Tgt	Ion	Ratio	Lower	Upper
276	100			
138	21.1	17.0	25.4	

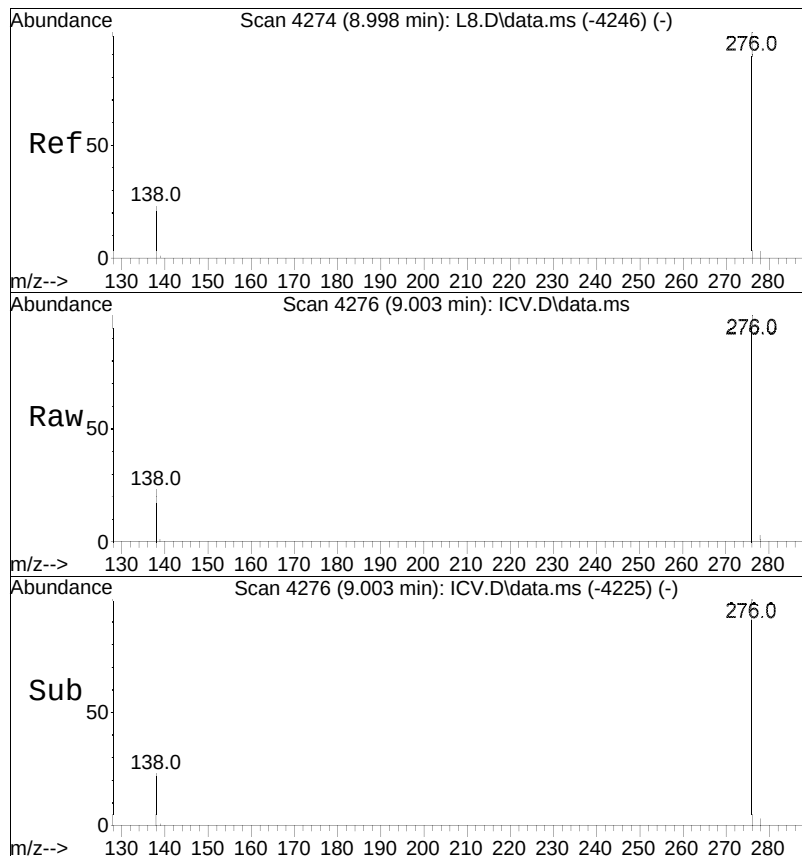




#41
 Dibenzo[a,h]anthracene
 Concen: 1060.54 ng/ml M6
 RT: 8.703 min Scan# 4131
 Delta R.T. 0.010 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

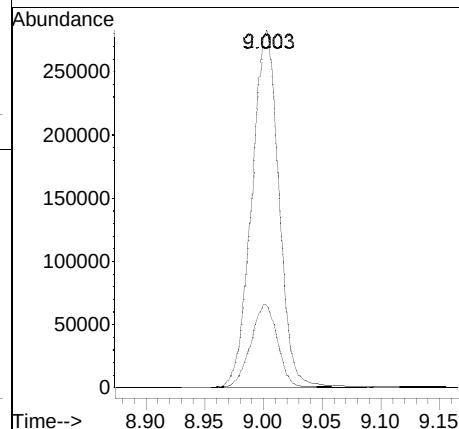
Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.6	13.9	20.9





#42
 Benzo[g,h,i]perylene
 Concen: 1000.82 ng/ml
 RT: 9.003 min Scan# 4276
 Delta R.T. 0.005 min
 Lab File: ICV.D
 Acq: 03 Feb 2025 06:37 pm

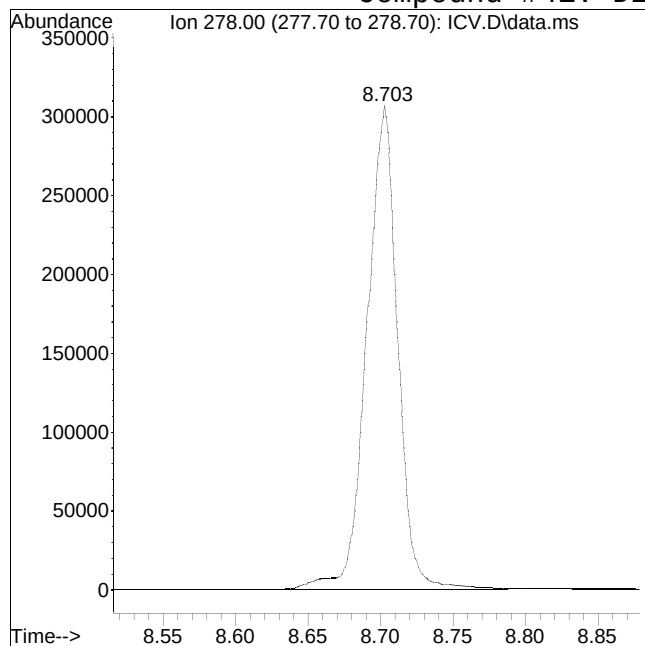
Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.3	18.7	28.1



Manual Integration Report

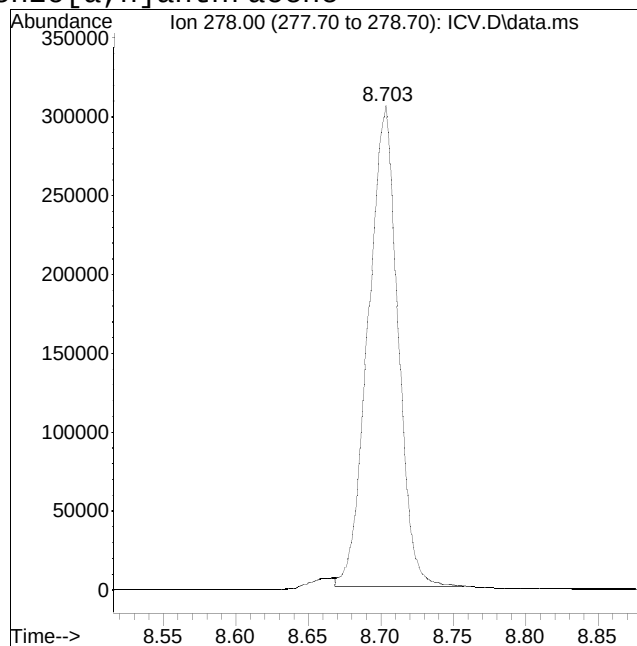
Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : ICV.D Operator : SV118:rp
Date Inj'd : 2/3/2025 6:37 pm Instrument : SV118
Sample : CQICV,32,, #11275 1000 ng/Quant Date : 2/10/2025 9:31 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 458247

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



Manual Peak Response = 435769 M6

Method Path : I:\8270SIM\SV118\250203RVTical\
Method File : SIM-RVT_250203sv118.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Feb 07 14:32:24 2025

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
23	T 4,6-Dinitro-o-cresol	L	ng/ml	1000.0	927.332	-7.3	40.00	50.883	27.2
25	T Pentachlorophenol	Q	ng/ml	1000.0	1035.983	3.6	10.00	14.367	43.7
35	T Bis(2-ethylhexyl)phthalate	L	ng/ml	1000.0	932.758	-6.7	40.00	50.947	27.4

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
23	T 4,6-Dinitro-o-cresol	Linear	0.997330	0.000000	0.131405	-0.00114886
25	T Pentachlorophenol	Quadratic	0.997872	0.043266	0.126508	-0.000307814
35	T Bis(2-ethylhexyl)phthalate	Linear	0.997404	0.000000	0.975861	-0.00687398

Response Factor Report SV119

Method Path : I:\8270SIM\sv119\250618RVTical\
Method File : SIM-RVT_250618_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Jun 19 10:23:42 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 =L8.D L9 =L9.D
L10 =L10.D

%RSD		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg

1) i	2) T	1,4-Dichlorobenzene-d4 N-Nitrosodimet...	-----ISTD-----										
						0.731	0.667	0.666	0.646	0.648	0.611	0.662	5.99
3) s		2-Fluorophenol	1.153	1.157	1.129	1.147	1.142	1.150	1.118	1.086	1.029	1.123	3.72
4) s		Phenol-d6	1.777	1.380	1.545	1.400	1.406	1.433	1.400	1.415	1.371	1.459	8.91
5) T		Bis(2-chloroet...			1.231	1.169	1.180	1.210	1.170	1.159	1.120	1.177	3.06
6) T		n-nitrosodi-n-...		0.894	0.866	0.864	0.860	0.908	0.875	0.915	0.897	0.885	2.39
7) t		Hexachloroethane		0.521	0.574	0.535	0.529	0.542	0.524	0.521	0.502	0.531	3.95
8) s		Nitrobenzene-d5	1.250	1.207	1.198	1.191	1.185	1.228	1.188	1.213	1.170	1.203	2.03
9) i	10) t	Naphthalene-d8 Naphthalene	-----ISTD-----										
			1.136	1.119	1.071	1.044	1.030	1.049	1.019	1.006	0.957	1.048	5.29
11) t		Hexachlorobuta...	0.231	0.219	0.205	0.208	0.206	0.208	0.203	0.198	0.189	0.208	5.83
12) t		2-Methylnaphth...	0.803	0.724	0.690	0.690	0.682	0.701	0.670	0.666	0.628	0.695	6.95
13) t		1-Methylnaphth...	0.777	0.750	0.733	0.719	0.717	0.736	0.697	0.689	0.648	0.718	5.20
14) s		2-Fluorobiphenyl	0.942	0.951	0.946	0.933	0.928	0.940	0.877	0.843	0.785	0.905	6.40
15) t		2-Chloronaphth...	0.795	0.791	0.796	0.798	0.790	0.803	0.762	0.758	0.721	0.779	3.49

Response Factor Report SV119

Method Path : I:\8270SIM\sv119\250618RVTical\
 Method File : SIM-RVT_250618_sv119.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Jun 19 10:23:42 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 =L8.D L9 =L9.D
 L10 =L10.D

Compound		L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	
%RSD													
16) t	2,6-Dinitrotol...					0.147	0.141	0.157	0.157	0.176	0.173	0.159	8.84
17) t	Acenaphthylene	1.363	1.331	1.292	1.285	1.301	1.292	1.349	1.279	1.270	1.193	1.296	3.66
18) i	Acenaphthene-d10	-----ISTD-----											
19) t	Acenaphthene	1.428	1.360	1.324	1.329	1.322	1.318	1.351	1.310	1.305	1.240	1.329	3.57
20) t	2,4-Dinitrotol...					0.303	0.304	0.347	0.360	0.401	0.402	0.353	12.47
21) t	Fluorene	1.671	1.627	1.617	1.603	1.594	1.574	1.646	1.576	1.551	1.437	1.589	4.05
22) s	2,4,6-Tribromo...			0.201	0.203	0.190	0.190	0.205	0.202	0.210	0.205	0.201	3.53
23) i	Phenanthrene-d10	-----ISTD-----											
24) T	4,6-Dinitro-o-...					0.073	0.071	0.084	0.085	0.095	0.099	*Q	0.99
95													
25) t	Hexachlorobenzene	0.261	0.251	0.251	0.251	0.251	0.254	0.243	0.240	0.226	0.248		4.02
26) t	Pentachlorophenol				0.173	0.122	0.113	0.105	0.109	0.128	0.143	*Q	0.99
96													
27) t	Phenanthrene	1.432	1.308	1.211	1.184	1.157	1.140	1.171	1.125	1.113	1.046	1.189	9.21
28) t	Anthracene	1.184	1.185	1.172	1.170	1.158	1.143	1.196	1.157	1.150	1.082	1.160	2.77
29) t	Fluoranthene	1.572	1.482	1.438	1.458	1.426	1.416	1.459	1.405	1.357		1.446	4.13
30) t	Pyrene	1.605	1.535	1.513	1.500	1.484	1.460	1.513	1.444	1.372		1.492	4.33

Response Factor Report SV119

Method Path : I:\8270SIM\sv119\250618RVTical\
Method File : SIM-RVT_250618_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Jun 19 10:23:42 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 =L8.D L9 =L9.D
L10 =L10.D

Compound		L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg
%RSD												

31) T	Benzidine						0.411	0.618	0.779	0.805	*L	0.99
98												
32) s	4-Terphenyl-d14		0.929	0.954	0.941	0.923	0.940	0.894	0.840	0.774	0.899	6.90

33) i	Chrysene-d12	-----ISTD-----										
34) t	Benzo[a]antra...		3.637	2.454	1.594	1.438	1.460	1.421	1.439	1.378	*L	0.99
96												
35) t	3,3'-Dichlorob...				0.400	0.435	0.543	0.557	0.605	0.593	0.522	16.27
36) t	Chrysene		1.228	1.330	1.305	1.314	1.384	1.330	1.344	1.284	1.315	3.48
37) T	Bis(2-ethylhex...				0.491	0.511	0.637	0.698	0.804	0.802	*L	0.99
68												
38) i	Perylene-d12	-----ISTD-----										
39) t	Benzo[b]fluora...		0.997	1.066	1.118	1.188	1.356	1.314	1.330	1.275	1.206	11.10
40) t	Benzo[k]fluora...		1.059	1.170	1.237	1.290	1.417	1.384	1.368	1.260	1.273	9.40
41) t	Benzo[a]pyrene		0.873	0.943	1.006	1.059	1.220	1.218	1.255	1.201	1.097	13.32
42) t	Indeno[1,2,3-c...		0.629	0.698	0.756	0.849	1.060	1.124	1.189		*L	0.99
66												
43) t	Dibenzo[a,h]an...		0.533	0.582	0.688	0.812	1.066	1.081	1.122		*L	0.99
76												
44) t	Benzo[g,h,i]pe...		0.707	0.808	0.886	0.968	1.137	1.160	1.200		*L	0.99
87												

Response Factor Report SV119

Method Path : I:\8270SIM\sv119\250618RVTical\
Method File : SIM-RVT_250618_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Jun 19 10:23:42 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 =L8.D L9 =L9.D
L10 =L10.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg
%RSD											

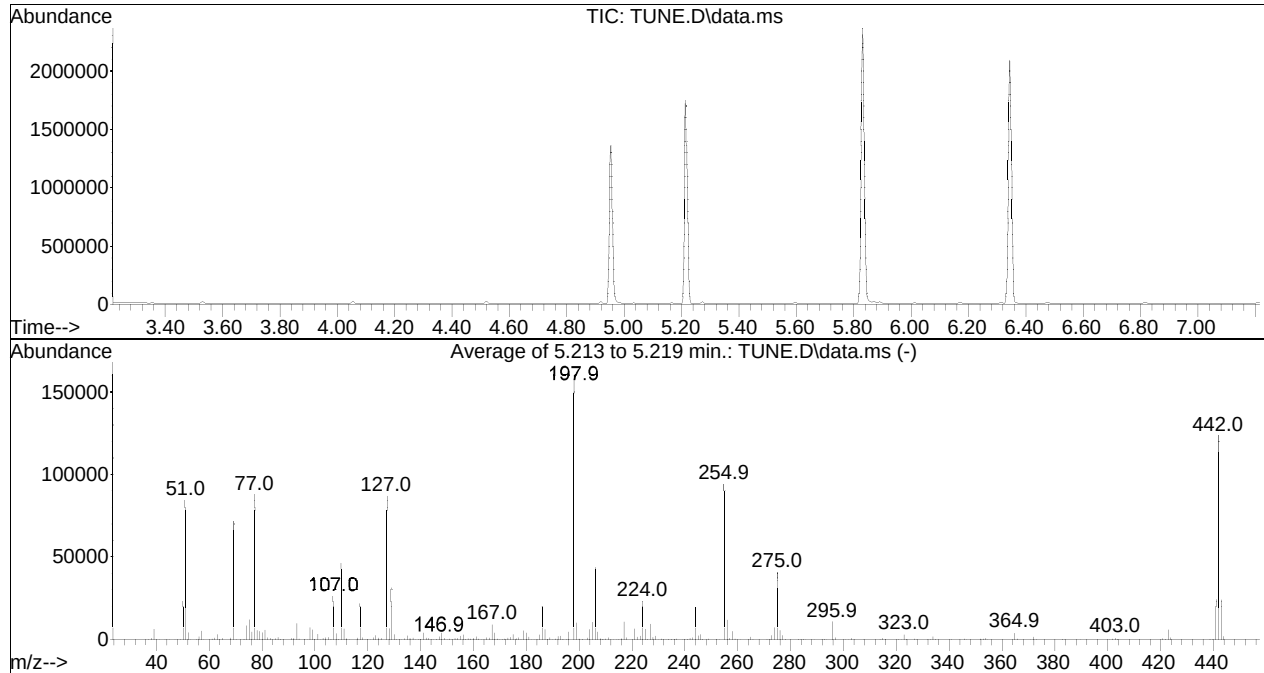
(#) = Out of Range

DFTPP

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : TUNE.D
 Acq On : 18 Jun 2025 06:07 pm
 Operator : sv119:slr
 Sample : TUNE
 Misc : WG2080956,,ical
 ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Jun 19 10:23:42 2025



AutoFind: Scans 683, 684, 685; Background Corrected with Scan 676

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	52.8	84471	PASS
68	69	0.00	2	2.0	1424	PASS
69	69	100	100	100.0	71693	PASS
70	69	0.00	2	0.7	517	PASS
127	198	10	80	54.3	86816	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	159893	PASS
199	198	5	9	6.4	10221	PASS
275	198	10	60	25.4	40675	PASS
365	198	1	100	2.6	4126	PASS
441	442	0.01	24	19.6	24221	PASS
442	198	50	100	77.4	123779	PASS
443	442	15	24	19.4	24019	PASS

Data Path : I:\8270SIM\sv119\250618RVTical\

Data File : TUNE.D

Acq On : 18 Jun 2025 06:07 pm

Operator : sv119:slr

Sample : TUNE

Misc : WG2080956,,ical

ALS Vial : 48 Sample Multiplier: 1

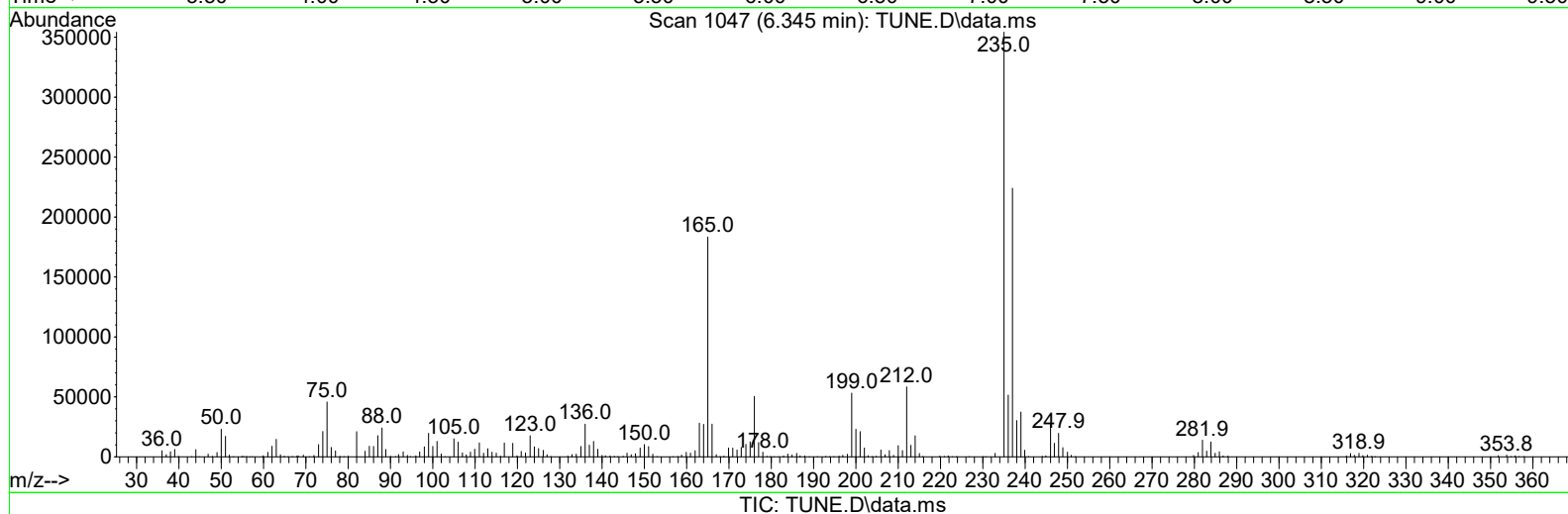
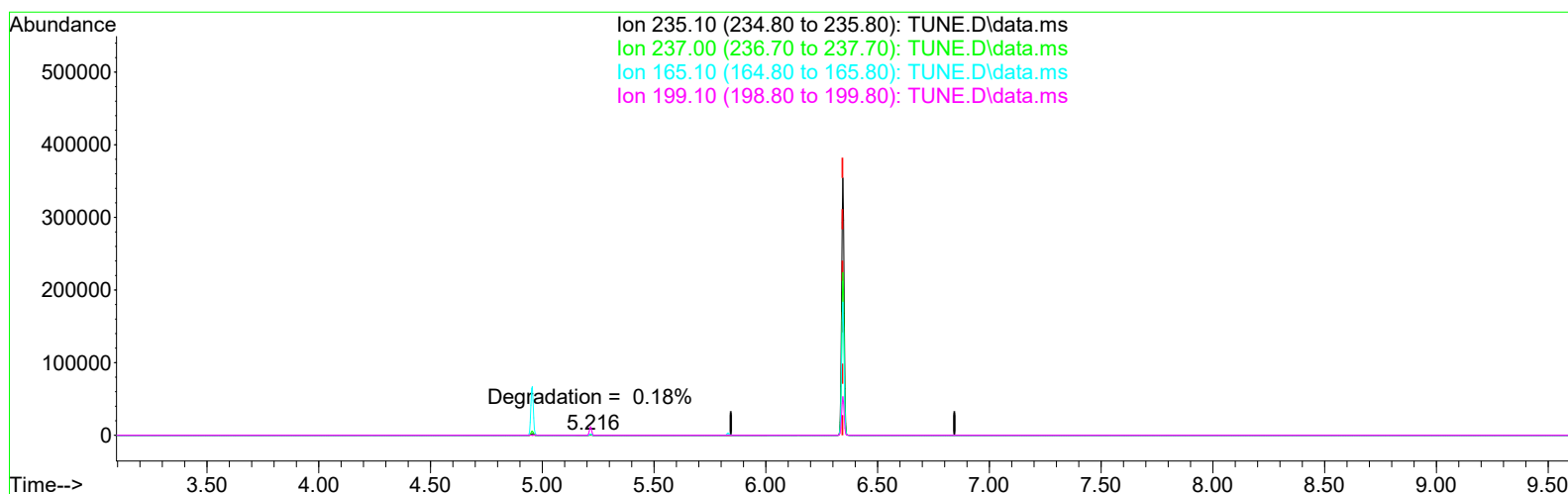
Quant Time: Jun 18 18:29:26 2025

Quant Method : I:\8270SIM\sv119\250618RVTical\dftppsv119.m

Quant Title : Semivolatiles by GC/MS by modified 8270

QLast Update : Wed Jun 18 18:30:20 2025

Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



TIC: TUNE.D\data.ms

(6) ddt (T)

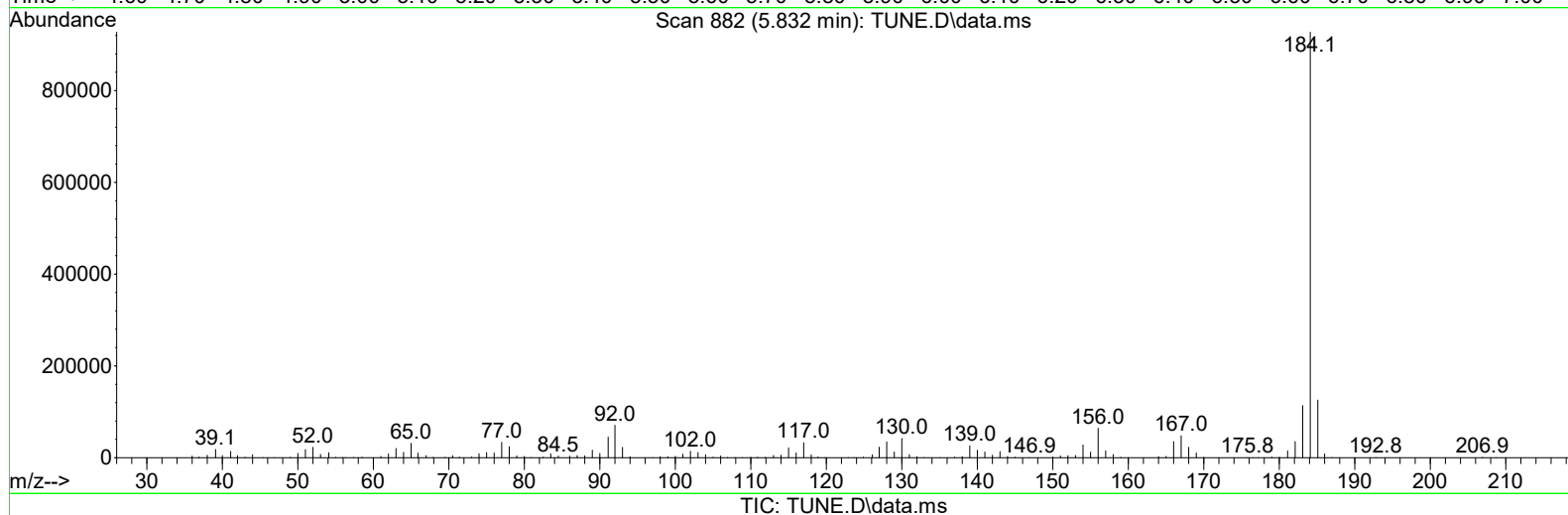
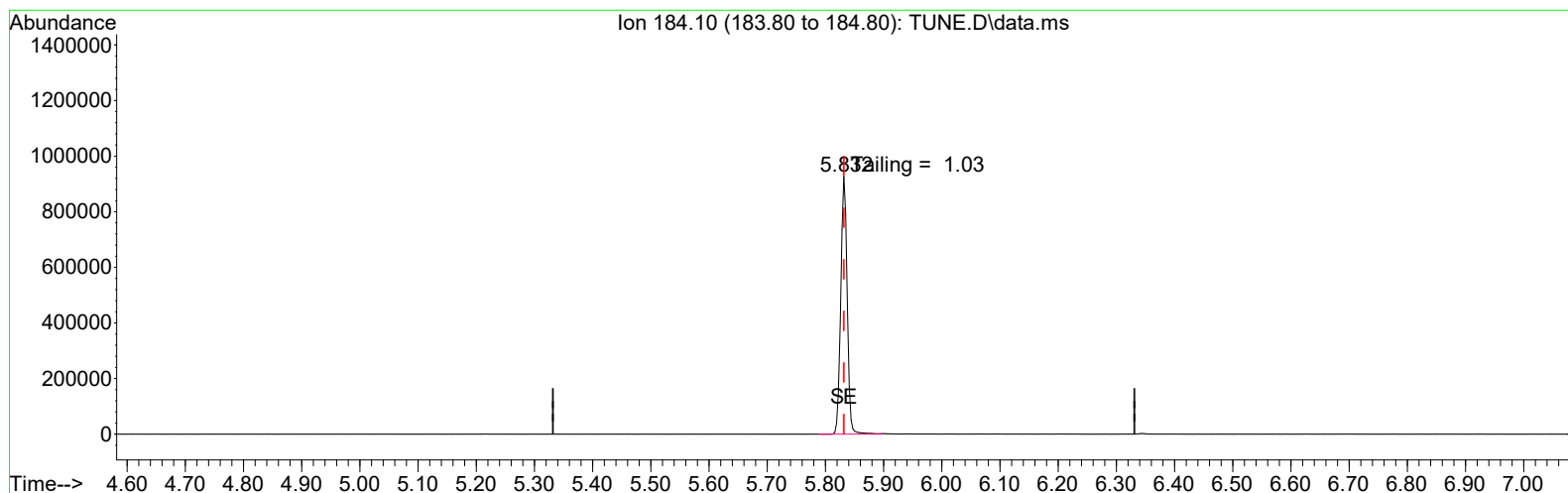
6.345min (-0.000) 44.47

response 271064

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.47
165.10	53.30	52.02
199.10	17.10	15.09

Data Path : I:\8270SIM\sv119\250618RVTical\
Data File : TUNE.D
Acq On : 18 Jun 2025 06:07 pm
Operator : sv119:slr
Sample : TUNE
Misc : WG2080956,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 18 18:29:26 2025
Quant Method : I:\8270SIM\sv119\250618RVTical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 18 18:30:20 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(3) benzidine (T)

5.832min (-0.000) 69.80

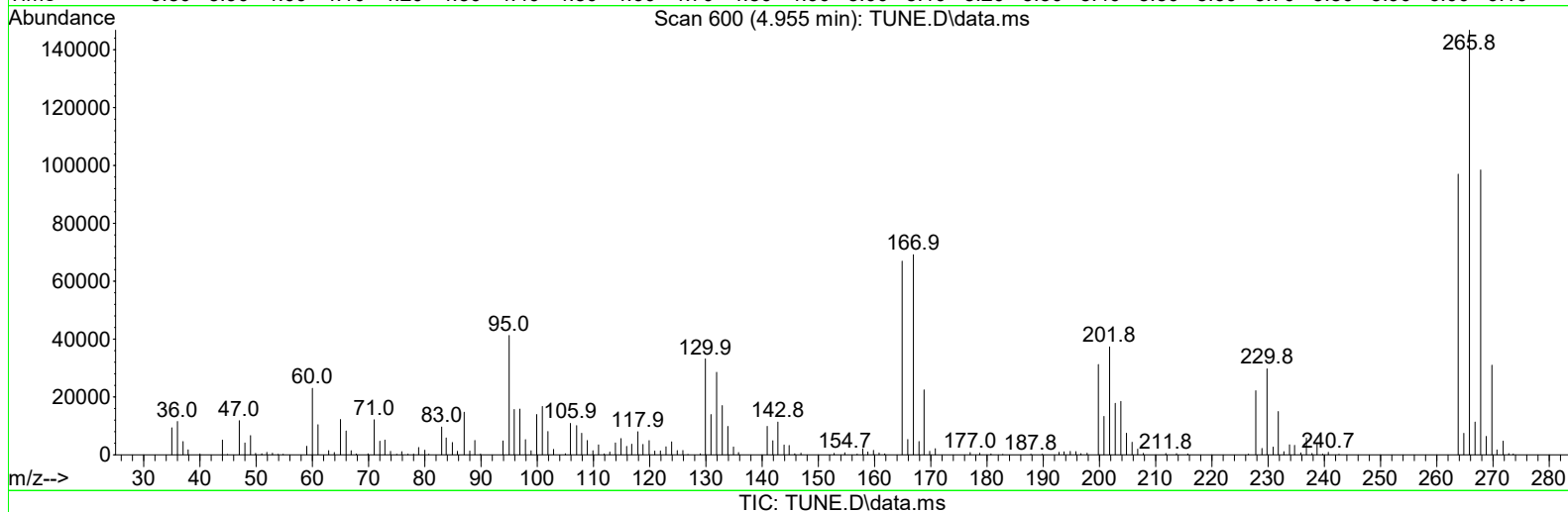
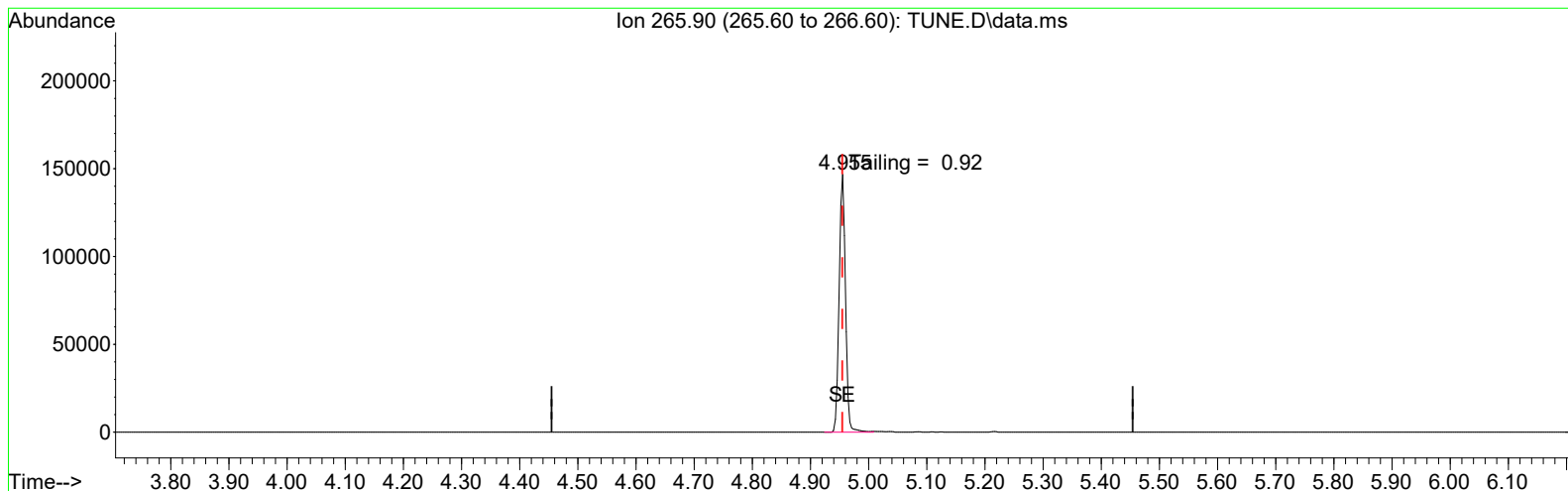
response 710603

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\250618RVTical\
 Data File : TUNE.D
 Acq On : 18 Jun 2025 06:07 pm
 Operator : sv119:slr
 Sample : TUNE
 Misc : WG2080956,,ical
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 18 18:29:26 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\dfppsv119.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 18:30:20 2025
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(1) pentachlorophenol (T)

4.955min (+ 0.000) 52.87

response 111055

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 (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L10.D
 Acq On : 18 Jun 2025 06:34 pm
 Operator : sv119:slr
 Sample : IL10,32,,5 Lot# 11697
 Misc : WG2080956,,ical
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 21:39:47 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:40:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.320	152	272280	4000.000	ng/ml	0.00
Standard Area 1 = 283024			Recovery	=	96.20%	
9) Naphthalene-d8	2.995	136	1067695	4000.000	ng/ml	0.00
Standard Area 1 = 1065169			Recovery	=	100.24%	
18) Acenaphthene-d10	3.981	164	640925	4000.000	ng/ml	0.00
Standard Area 1 = 633894			Recovery	=	101.11%	
23) Phenanthrene-d10	4.826	188	1343391	4000.000	ng/ml	0.00
Standard Area 1 = 1369725			Recovery	=	98.08%	
33) Chrysene-d12	6.457	240	1180302	4000.000	ng/ml	0.06
Standard Area 1 = 1297109			Recovery	=	90.99%	
38) Perylene-d12	7.742	264	1207981	4000.000	ng/ml	0.06
Standard Area 1 = 1258930			Recovery	=	95.95%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.721	112	350263	4580.242	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	229.01%#	
4) Phenol-d6	2.123	99	466700	4700.305	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	235.02%#	
8) Nitrobenzene-d5	2.605	82	398299	4862.758	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	486.28%#	
14) 2-Fluorobiphenyl	3.596	172	1047076	4334.543	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	433.45%#	
22) 2,4,6-Tribromophenol	4.427	330	163974	5099.959	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	255.00%#	
32) 4-Terphenyl-d14	5.775	244	1299795	4303.325	ng/ml	0.04
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	430.33%#	
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.271	74	207985	4617.604	ng/mL#	23
5) Bis(2-chloroethyl)ether	2.180	93	381150	4756.683	ng/ml	99
6) n-nitrosodi-n-propylamine	2.525	70	305372	5069.210	ng/ml	100
7) Hexachloroethane	2.584	117	170922	4729.430	ng/ml	99
10) Naphthalene	3.006	128	1277089	4565.184	ng/ml	99
11) Hexachlorobutadiene	3.078	225	252182	4552.836	ng/ml	100
12) 2-Methylnaphthalene	3.390	142	838623	4520.922	ng/ml	100
13) 1-Methylnaphthalene	3.445	142	865450	4513.014	ng/ml	99
15) 2-Chloronaphthalene	3.664	162	962132	4624.894	ng/ml	99
16) 2,6-Dinitrotoluene	3.857	165	231397	5468.624	ng/ml	99
17) Acenaphthylene	3.900	152	1591795	4603.095	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L10.D
 Acq On : 18 Jun 2025 06:34 pm
 Operator : sv119:slr
 Sample : IL10,32,,5 Lot# 11697
 Misc : WG2080956,,ical
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 18 21:39:47 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:40:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	3.999	153	993547	4666.976	ng/ml	97
20)	2,4-Dinitrotoluene	4.087	165	321731	5695.140	ng/ml	97
21)	Fluorene	4.291	166	1151356	4520.715	ng/ml	99
24)	4,6-Dinitro-o-cresol	4.319	198	165890	5145.039	ng/ml	100
25)	Hexachlorobenzene	4.609	284	379982	4569.975	ng/ml	99
26)	Pentachlorophenol	4.718	266	240129	5386.626	ng/ml	100
27)	Phenanthrene	4.841	178	1757049	4401.151	ng/ml	99
28)	Anthracene	4.869	178	1816567	4664.132	ng/ml	99
29)	Fluoranthene	5.541	202	2110885M3	4347.142	ng/ml	
30)	Pyrene	5.679	202	2145769	4282.783	ng/ml	99
31)	Benzydine	5.620	184	1351758	4972.615	ng/mL	99
34)	Benzo[a]anthracene	6.448	228	2033515	4919.716	ng/ml	99
35)	3,3'-Dichlorobenzidine	6.432	252	874619	5674.791	ng/ml	100
36)	Chrysene	6.476	228	1894176	4881.556	ng/ml	99
37)	Bis(2-ethylhexyl)phtha...	6.476	149	1182723	5093.227	ng/ml	100
39)	Benzo[b]fluoranthene	7.351	252	1925265	5288.256	ng/ml	99
40)	Benzo[k]fluoranthene	7.378	252	1902954	4949.430	ng/ml	97
41)	Benzo[a]pyrene	7.679	252	1813292	5472.950	ng/ml	99
42)	Indeno[1,2,3-cd]pyrene	9.034	276	1824397	5107.926	ng/ml	98
43)	Dibenzo[a,h]anthracene	9.075	278	1720735M6	5078.950	ng/ml	
44)	Benzo[g,h,i]perylene	9.398	276	1880685	5037.779	ng/ml	99

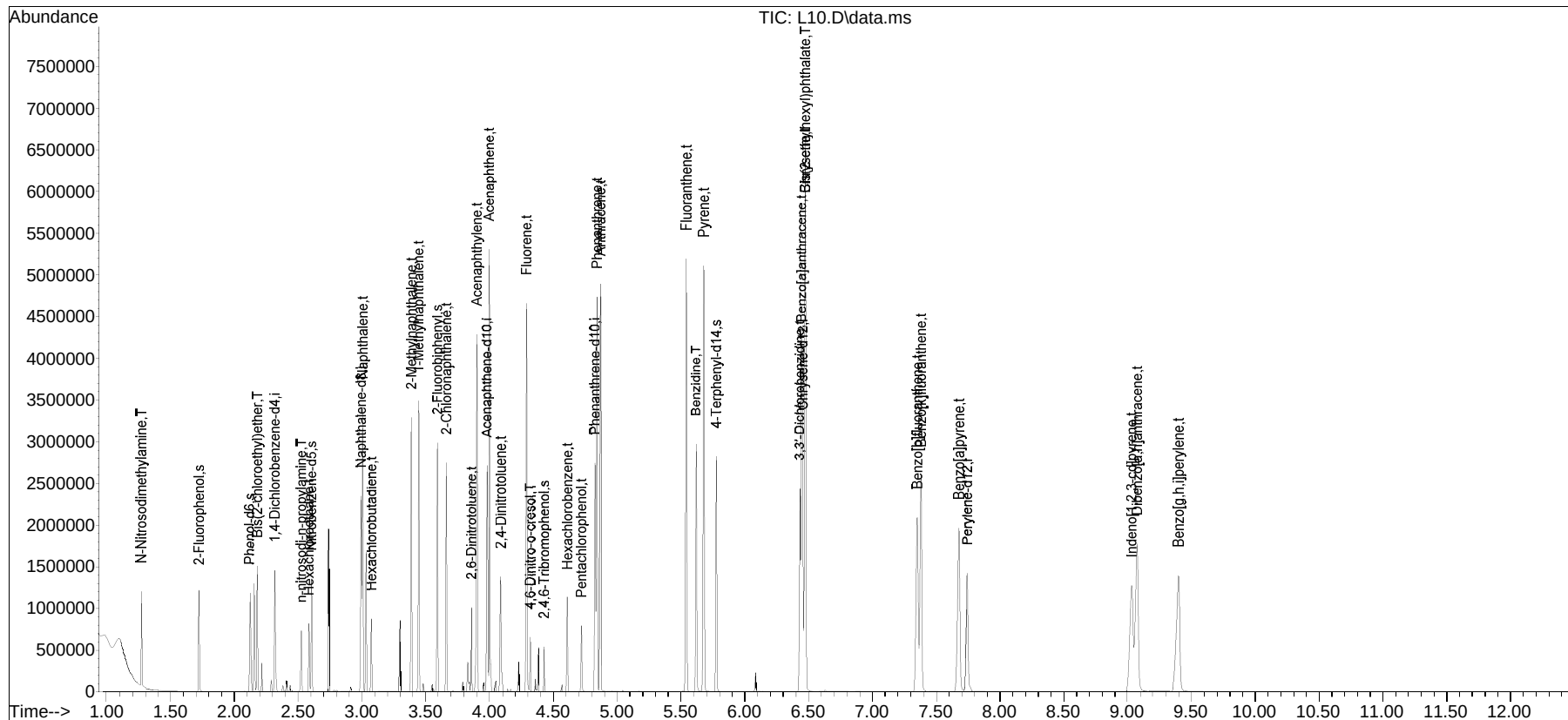
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path : I:\8270SIM\sv119\250618RVTical\
Data File : L10.D
Acq On    : 18 Jun 2025 06:34 pm
Operator  : sv119:slr
Sample    : IL10,32,,5 Lot# 11697
Misc      : WG2080956,,ical
ALS Vial  : 1 Sample Multiplier: 1
```

Quant Time: Jun 18 21:39:47 2025
Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : wed Jun 18 21:40:44 2025
Response via : Initial Calibration

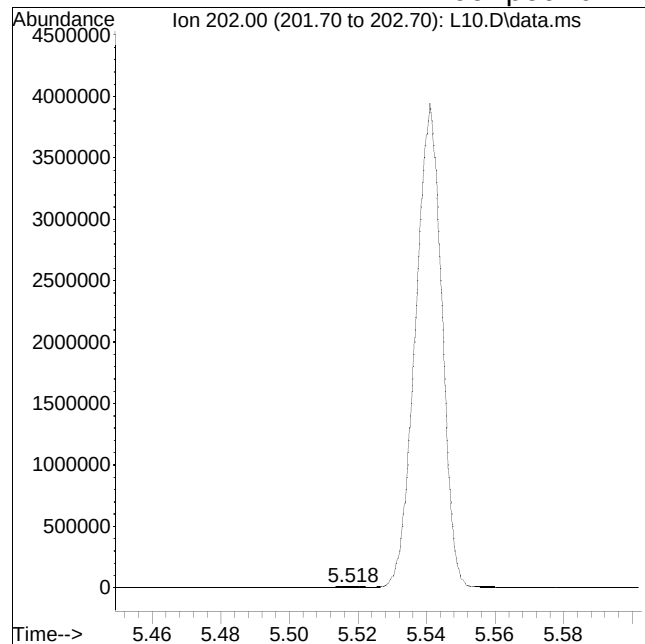
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

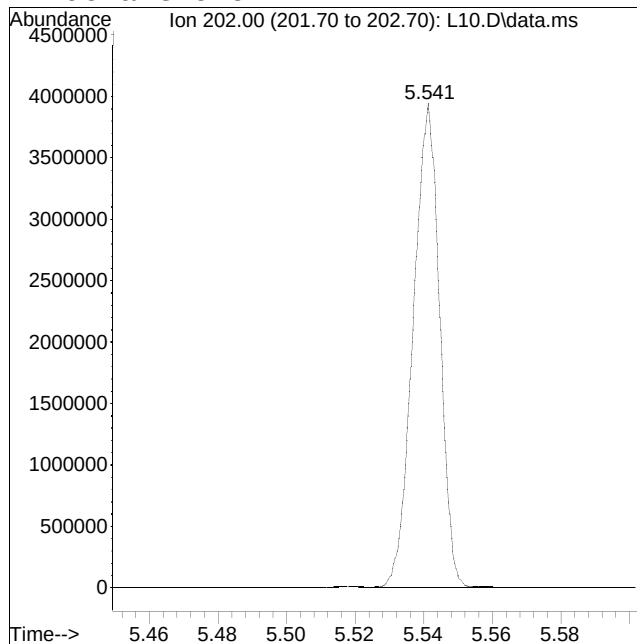
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L10.D Operator : sv119:slr
Date Inj'd : 6/18/2025 6:34 pm Instrument : SV119
Sample : IL10,32,,5 Lot# 11697 Quant Date : 6/18/2025 9:40 pm

Compound #29: Fluoranthene



Original Peak Response = 5660

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.

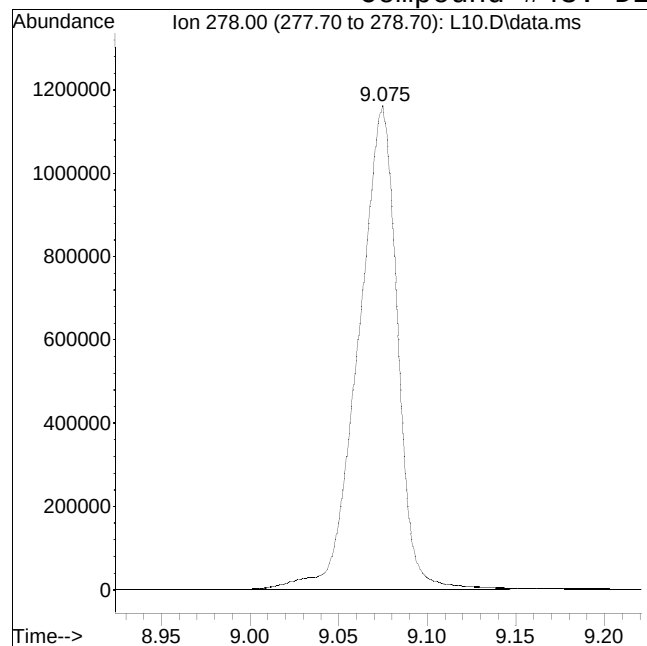


Manual Peak Response = 2110885 M3

Manual Integration Report

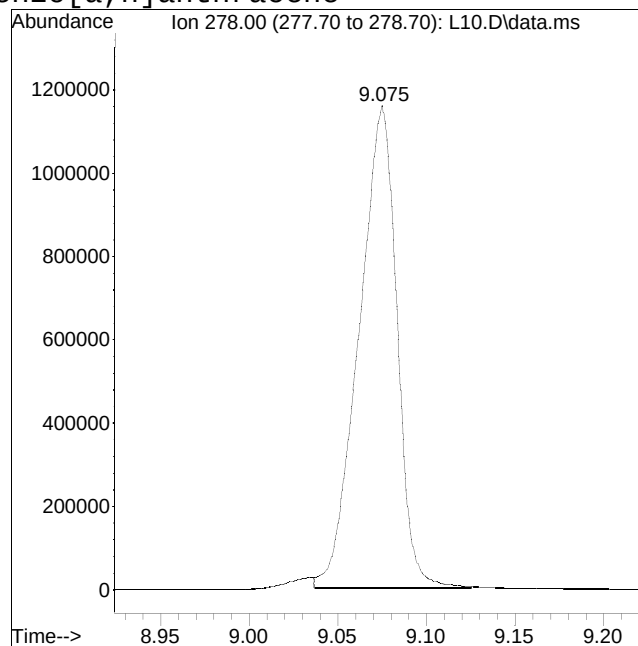
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L10.D Operator : sv119:slr
Date Inj'd : 6/18/2025 6:34 pm Instrument : SV119
Sample : IL10,32,,5 Lot# 11697 Quant Date : 6/18/2025 9:40 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 1781260

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



Manual Peak Response = 1720735 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L9.D
 Acq On : 18 Jun 2025 06:50 pm
 Operator : sv119:slr
 Sample : IL9,32,,2.5 Lot# 11699
 Misc : WG2080956,,ical
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 18 21:40:29 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:26 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.329	152	295793	4000.000	ng/ml	0.00
Standard Area 1 = 283024			Recovery	= 104.51%		
9) Naphthalene-d8	2.999	136	1139071	4000.000	ng/ml	0.00
Standard Area 1 = 1065169			Recovery	= 106.94%		
18) Acenaphthene-d10	3.982	164	684818	4000.000	ng/ml	0.00
Standard Area 1 = 633894			Recovery	= 108.03%		
23) Phenanthrene-d10	4.823	188	1453813	4000.000	ng/ml	0.00
Standard Area 1 = 1369725			Recovery	= 106.14%		
33) Chrysene-d12	6.408	240	1291823	4000.000	ng/ml	0.00
Standard Area 1 = 1297109			Recovery	= 99.59%		
38) Perylene-d12	7.686	264	1285299	4000.000	ng/ml	0.00
Standard Area 1 = 1258930			Recovery	= 102.09%		
System Monitoring Compounds						
3) 2-Fluorophenol	1.732	112	200687	2415.690	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 120.78%#		
4) Phenol-d6	2.130	99	261669	2425.874	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 121.29%#		
8) Nitrobenzene-d5	2.611	82	224321	2520.991	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 252.10%#		
14) 2-Fluorobiphenyl	3.598	172	600385	2329.654	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 232.97%#		
22) 2,4,6-Tribromophenol	4.427	330	89851	2615.451	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 130.77%#		
32) 4-Terphenyl-d14	5.746	244	763622	2336.155	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 233.62%#		
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.286	74	119862	2449.594	ng/mL#	31
5) Bis(2-chloroethyl)ether	2.189	93	214282	2461.625	ng/ml	100
6) n-nitrosodi-n-propylamine	2.529	70	169173	2585.056	ng/ml	100
7) Hexachloroethane	2.591	117	96252	2451.593	ng/ml	100
10) Naphthalene	3.009	128	716195	2399.744	ng/ml	100
11) Hexachlorobutadiene	3.081	225	141048	2386.884	ng/ml	100
12) 2-Methylnaphthalene	3.392	142	474181	2396.077	ng/ml	100
13) 1-Methylnaphthalene	3.448	142	490232	2396.198	ng/ml	100
15) 2-Chloronaphthalene	3.665	162	539421	2430.476	ng/ml	99
16) 2,6-Dinitrotoluene	3.857	165	125312	2775.936	ng/ml	99
17) Acenaphthylene	3.900	152	904354	2451.307	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L9.D
 Acq On : 18 Jun 2025 06:50 pm
 Operator : sv119:slr
 Sample : IL9,32,,2.5 Lot# 11699
 Misc : WG2080956,,ical
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 18 21:40:29 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:26 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	3.999	153	558381	2454.764	ng/ml	99
20)	2,4-Dinitrotoluene	4.086	165	171605	2842.978	ng/ml	99
21)	Fluorene	4.290	166	663640	2438.721	ng/ml	99
24)	4,6-Dinitro-o-cresol	4.317	198	86728	2495.443	ng/ml	100
25)	Hexachlorobenzene	4.608	284	218243	2425.409	ng/ml	100
26)	Pentachlorophenol	4.715	266	115856	2402.641	ng/ml	100
27)	Phenanthrene	4.837	178	1010918	2339.873	ng/ml	100
28)	Anthracene	4.866	178	1044753	2478.717	ng/ml	99
29)	Fluoranthene	5.521	202	1233145	2346.644	ng/ml	99
30)	Pyrene	5.655	202	1246811	2299.522	ng/ml	99
31)	Benzidine	5.596	184	707498	2540.056	ng/mL	100
34)	Benzo[a]anthracene	6.398	228	1161700	2564.225	ng/ml	100
35)	3,3'-Dichlorobenzidine	6.381	252	488711	2897.165	ng/ml	100
36)	Chrysene	6.425	228	1085375	2555.688	ng/ml	100
37)	Bis(2-ethylhexyl)phtha...	6.422	149	649544	2568.540	ng/ml	100
39)	Benzo[b]fluoranthene	7.291	252	1068332	2757.935	ng/ml	99
40)	Benzo[k]fluoranthene	7.317	252	1099093	2686.688	ng/ml	98
41)	Benzo[a]pyrene	7.619	252	1008450	2860.646	ng/ml	99
42)	Indeno[1,2,3-cd]pyrene	8.976	276	954742	2514.758	ng/ml	99
43)	Dibenzo[a,h]anthracene	9.014	278	901392M6	2503.131	ng/ml	
44)	Benzo[g,h,i]perylene	9.338	276	964266	2442.152	ng/ml	99

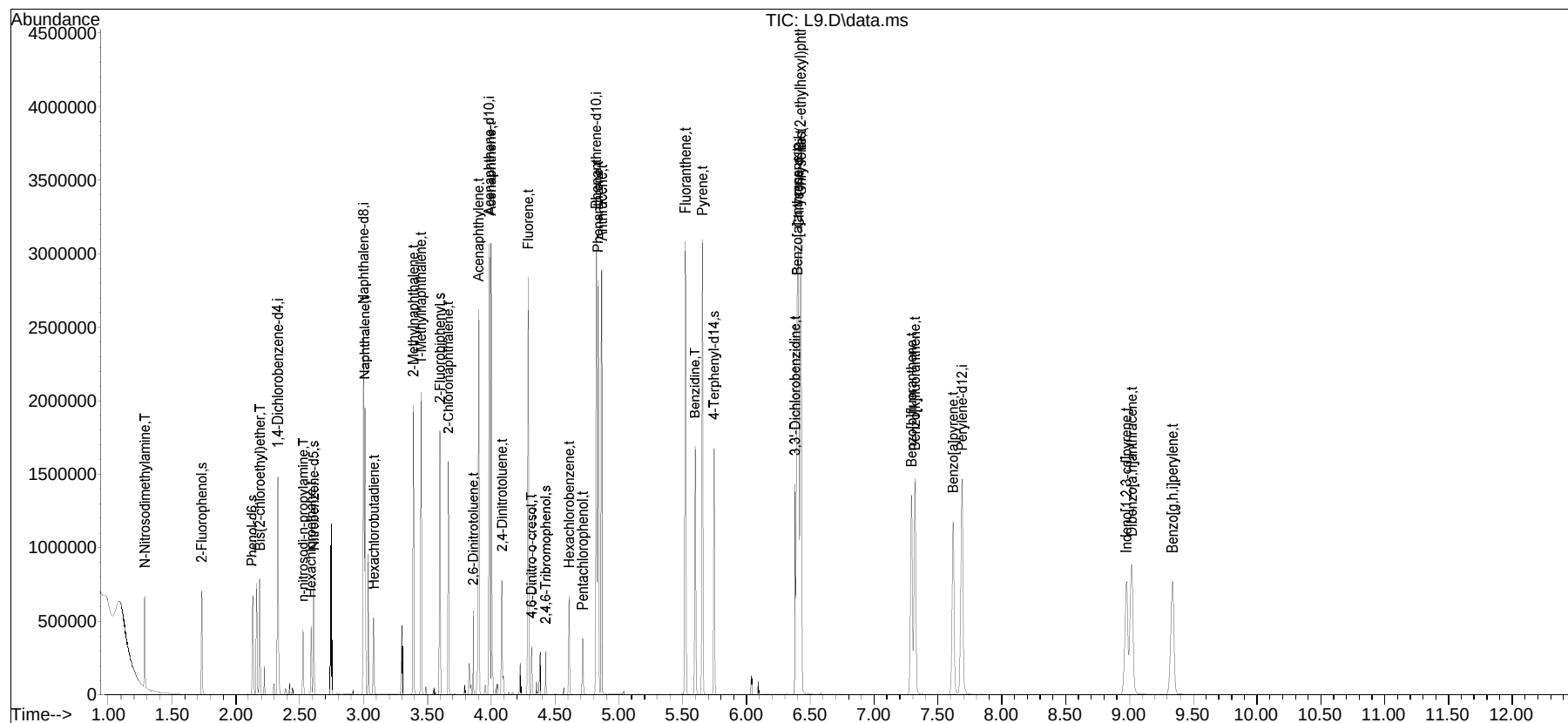
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L9.D
 Acq On : 18 Jun 2025 06:50 pm
 Operator : sv119:slr
 Sample : IL9,32,,2.5 Lot# 11699
 Misc : WG2080956,,ical
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 18 21:40:29 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:26 2025
 Response via : Initial Calibration

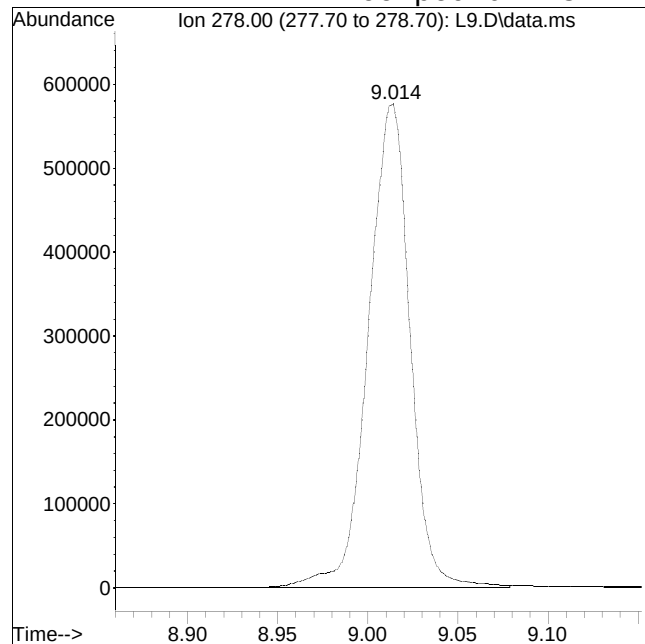
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

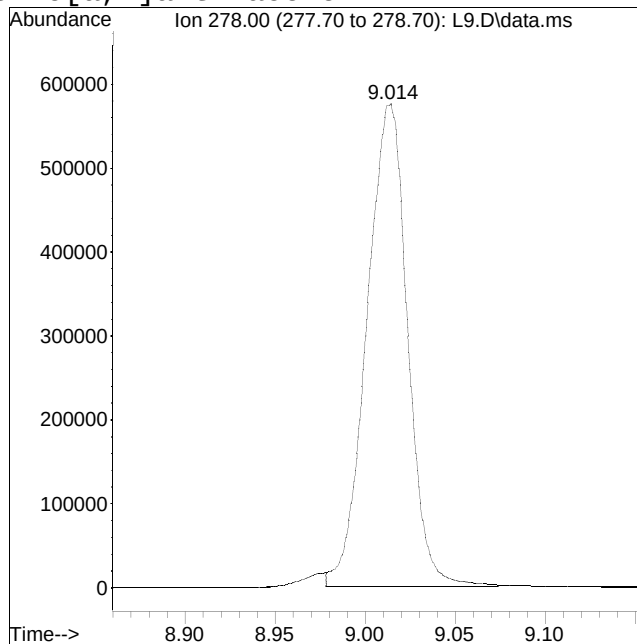
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L9.D Operator : sv119:slr
Date Inj'd : 6/18/2025 6:50 pm Instrument : SV119
Sample : IL9,32,,2.5 Lot# 11699 Quant Date : 6/18/2025 9:41 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 930585

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



Manual Peak Response = 901392 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L8.D
 Acq On : 18 Jun 2025 07:07 pm
 Operator : sv119:slr
 Sample : IL8,32,,1 Lot# 11700
 Misc : WG2080956,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 18 21:40:23 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:21 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.329	152	283024	4000.000	ng/ml	0.00
Standard Area 1 = 283024			Recovery	=	100.00%	
9) Naphthalene-d8	2.999	136	1065169	4000.000	ng/ml	0.00
Standard Area 1 = 1065169			Recovery	=	100.00%	
18) Acenaphthene-d10	3.980	164	633894	4000.000	ng/ml	0.00
Standard Area 1 = 633894			Recovery	=	100.00%	
23) Phenanthrene-d10	4.823	188	1369725	4000.000	ng/ml	0.00
Standard Area 1 = 1369725			Recovery	=	100.00%	
33) Chrysene-d12	6.400	240	1297109	4000.000	ng/ml	0.00
Standard Area 1 = 1297109			Recovery	=	100.00%	
38) Perylene-d12	7.678	264	1258930	4000.000	ng/ml	0.00
Standard Area 1 = 1258930			Recovery	=	100.00%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.734	112	79127	995.431	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	49.77%	
4) Phenol-d6	2.132	99	99043	959.631	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	47.98%	
8) Nitrobenzene-d5	2.611	82	84045	987.138	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	98.71%	
14) 2-Fluorobiphenyl	3.598	172	233510	968.945	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	96.89%	
22) 2,4,6-Tribromophenol	4.425	330	32062	1008.261	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	50.41%	
32) 4-Terphenyl-d14	5.740	244	306086	993.898	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	99.39%	
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.288	74	45716	976.440	ng/mL	100
5) Bis(2-chloroethyl)ether	2.189	93	82782	993.886	ng/ml	100
6) n-nitrosodi-n-propylamine	2.528	70	61925	988.939	ng/ml	100
7) Hexachloroethane	2.592	117	37076	986.952	ng/ml	100
10) Naphthalene	3.010	128	271481	972.759	ng/ml	100
11) Hexachlorobutadiene	3.081	225	53971	976.691	ng/ml	100
12) 2-Methylnaphthalene	3.392	142	178298	963.464	ng/ml	100
13) 1-Methylnaphthalene	3.448	142	185647	970.379	ng/ml	100
15) 2-Chloronaphthalene	3.664	162	202832	977.310	ng/ml	100
16) 2,6-Dinitrotoluene	3.855	165	41855	991.508	ng/ml	100
17) Acenaphthylene	3.898	152	340660	987.444	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L8.D
 Acq On : 18 Jun 2025 07:07 pm
 Operator : sv119:slr
 Sample : IL8,32,,1 Lot# 11700
 Misc : WG2080956,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 18 21:40:23 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:21 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	3.999	153	207604	985.992	ng/ml	100
20)	2,4-Dinitrotoluene	4.083	165	56992	1020.037	ng/ml	100
21)	Fluorene	4.290	166	249721	991.387	ng/ml	100
24)	4,6-Dinitro-o-cresol	4.314	198	29198	904.001	ng/ml	100
25)	Hexachlorobenzene	4.606	284	83201	981.405	ng/ml	100
26)	Pentachlorophenol	4.715	266	37392	824.386	ng/ml	100
27)	Phenanthrene	4.837	178	385069	945.998	ng/ml	100
28)	Anthracene	4.865	178	396253	997.840	ng/ml	100
29)	Fluoranthene	5.517	202	481109	971.744	ng/ml	100
30)	Pyrene	5.649	202	494384	967.780	ng/ml	100
31)	Benzidine	5.592	184	211683	985.204	ng/mL	100
34)	Benzo[a]anthracene	6.390	228	460866	1008.485	ng/ml	100
35)	3,3'-Dichlorobenzidine	6.373	252	180742	1067.104	ng/ml	100
36)	Chrysene	6.415	228	431398	1011.656	ng/ml	100
37)	Bis(2-ethylhexyl)phtha...	6.414	149	226244	907.849	ng/ml	100
39)	Benzo[b]fluoranthene	7.281	252	413545	1089.942	ng/ml	100
40)	Benzo[k]fluoranthene	7.304	252	435443	1086.718	ng/ml	100
41)	Benzo[a]pyrene	7.609	252	383495	1110.637	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.961	276	353781	954.402	ng/ml	100
43)	Dibenzo[a,h]anthracene	9.000	278	340301	967.963	ng/ml	100
44)	Benzo[g,h,i]perylene	9.321	276	365124	961.339	ng/ml	100

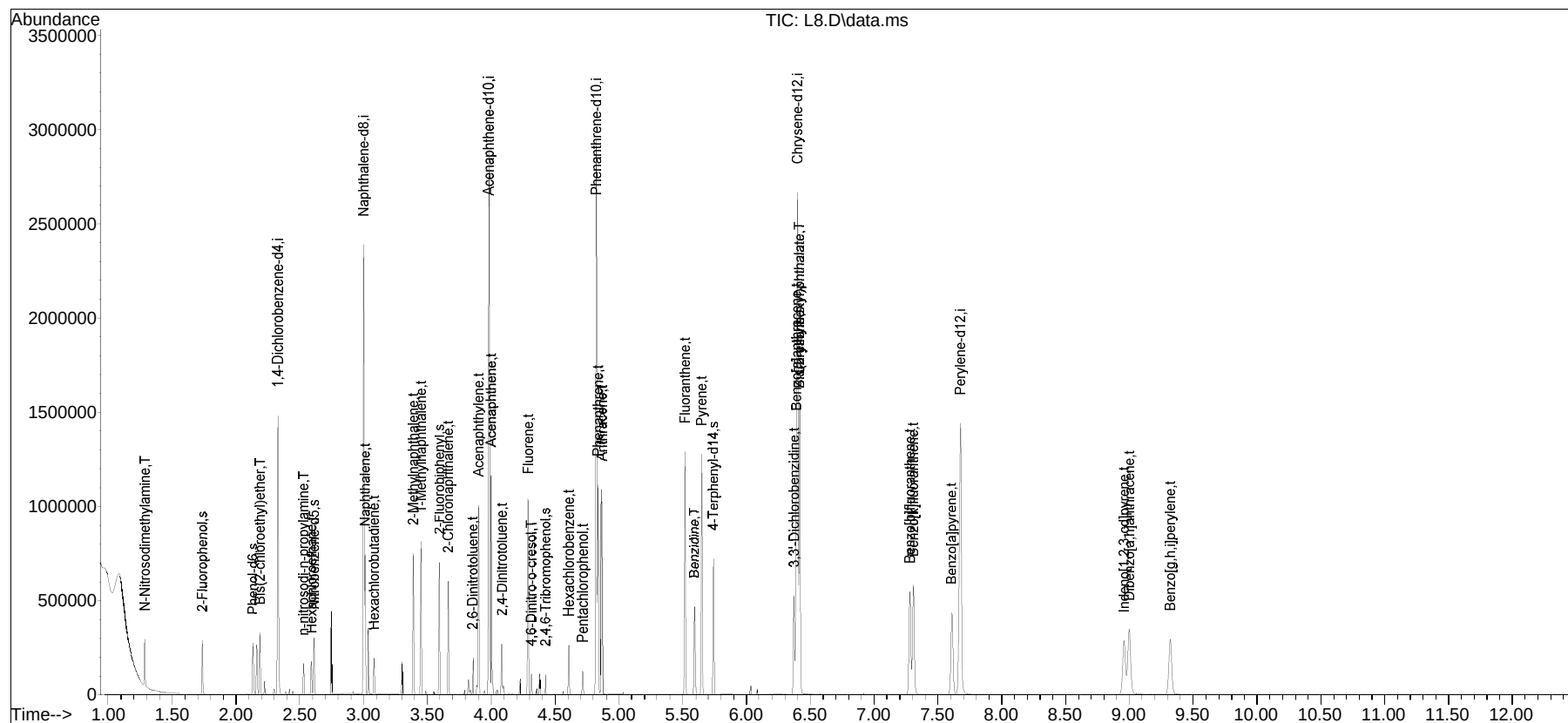
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L8.D
 Acq On : 18 Jun 2025 07:07 pm
 Operator : sv119:slr
 Sample : IL8,32,,1 Lot# 11700
 Misc : WG2080956,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 18 21:40:23 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:21 2025
 Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L8.D Operator : sv119:slr
Date Inj'd : 6/18/2025 7:07 pm Instrument : SV119
Sample : IL8,32,,1 Lot# 11700 Quant Date : 6/18/2025 9:41 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L7.D
 Acq On : 18 Jun 2025 07:23 pm
 Operator : sv119:slr
 Sample : IL7,32,,0.5 Lot# 11701
 Misc : WG2080956,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 18 21:40:20 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:17 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.329	152	289820	4000.000	ng/ml	0.00
Standard Area 1 = 283024			Recovery	=	102.40%	
9) Naphthalene-d8	2.999	136	1102274	4000.000	ng/ml	0.00
Standard Area 1 = 1065169			Recovery	=	103.48%	
18) Acenaphthene-d10	3.981	164	667954	4000.000	ng/ml	0.00
Standard Area 1 = 633894			Recovery	=	105.37%	
23) Phenanthrene-d10	4.823	188	1448685	4000.000	ng/ml	0.00
Standard Area 1 = 1369725			Recovery	=	105.76%	
33) Chrysene-d12	6.401	240	1379709	4000.000	ng/ml	0.00
Standard Area 1 = 1297109			Recovery	=	106.37%	
38) Perylene-d12	7.680	264	1302333	4000.000	ng/ml	0.00
Standard Area 1 = 1258930			Recovery	=	103.45%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.733	112	41656	511.751	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	25.59%	
4) Phenol-d6	2.130	99	51921	491.268	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	24.56%	
8) Nitrobenzene-d5	2.609	82	44499	510.400	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	51.04%	
14) 2-Fluorobiphenyl	3.597	172	129572	519.558	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	51.96%	
22) 2,4,6-Tribromophenol	4.425	330	17113	510.715	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	25.54%	
32) 4-Terphenyl-d14	5.740	244	170268	522.746	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	52.27%	
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.284	74	24135	503.407	ng/mL#	1
5) Bis(2-chloroethyl)ether	2.189	93	43853	514.156	ng/ml	99
6) n-nitrosodi-n-propylamine	2.528	70	32880	512.779	ng/ml	100
7) Hexachloroethane	2.591	117	19628	510.240	ng/ml	100
10) Naphthalene	3.009	128	144493	500.313	ng/ml	100
11) Hexachlorobutadiene	3.081	225	28693	501.766	ng/ml	99
12) 2-Methylnaphthalene	3.393	142	96628	504.569	ng/ml	100
13) 1-Methylnaphthalene	3.448	142	101398	512.167	ng/ml	100
15) 2-Chloronaphthalene	3.664	162	110637	515.140	ng/ml	100
16) 2,6-Dinitrotoluene	3.855	165	21616	494.827	ng/ml	100
17) Acenaphthylene	3.898	152	185805	520.449	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L7.D
 Acq On : 18 Jun 2025 07:23 pm
 Operator : sv119:slr
 Sample : IL7,32,,0.5 Lot# 11701
 Misc : WG2080956,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 18 21:40:20 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:17 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	3.997	153	112807	508.445	ng/ml	99
20)	2,4-Dinitrotoluene	4.083	165	28932	491.417	ng/ml	99
21)	Fluorene	4.288	166	137465	517.905	ng/ml	100
24)	4,6-Dinitro-o-cresol	4.312	198	15149	453.219	ng/ml	100
25)	Hexachlorobenzene	4.607	284	46005	513.079	ng/ml	100
26)	Pentachlorophenol	4.714	266	18924	395.542	ng/ml	99
27)	Phenanthrene	4.836	178	212075	492.607	ng/ml	99
28)	Anthracene	4.864	178	216576	515.654	ng/ml	100
29)	Fluoranthene	5.517	202	264139	504.429	ng/ml	100
30)	Pyrene	5.649	202	273931	507.006	ng/ml	100
31)	Benzidine	5.592	184	74407	502.125	ng/mL	100
34)	Benzo[a]anthracene	6.393	228	251821	514.325	ng/ml	100
35)	3,3'-Dichlorobenzidine	6.375	252	93721	520.204	ng/ml	99
36)	Chrysene	6.418	228	238658	526.162	ng/ml	100
37)	Bis(2-ethylhexyl)phtha...	6.415	149	109887	428.557	ng/ml	99
39)	Benzo[b]fluoranthene	7.281	252	220672	562.221	ng/ml	98
40)	Benzo[k]fluoranthene	7.306	252	230754	556.691	ng/ml	99
41)	Benzo[a]pyrene	7.612	252	198679	556.216	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.961	276	172555	452.573	ng/ml	99
43)	Dibenzo[a,h]anthracene	9.000	278	173610M6	479.975	ng/ml	
44)	Benzo[g,h,i]perylene	9.321	276	185123	485.496	ng/ml	100

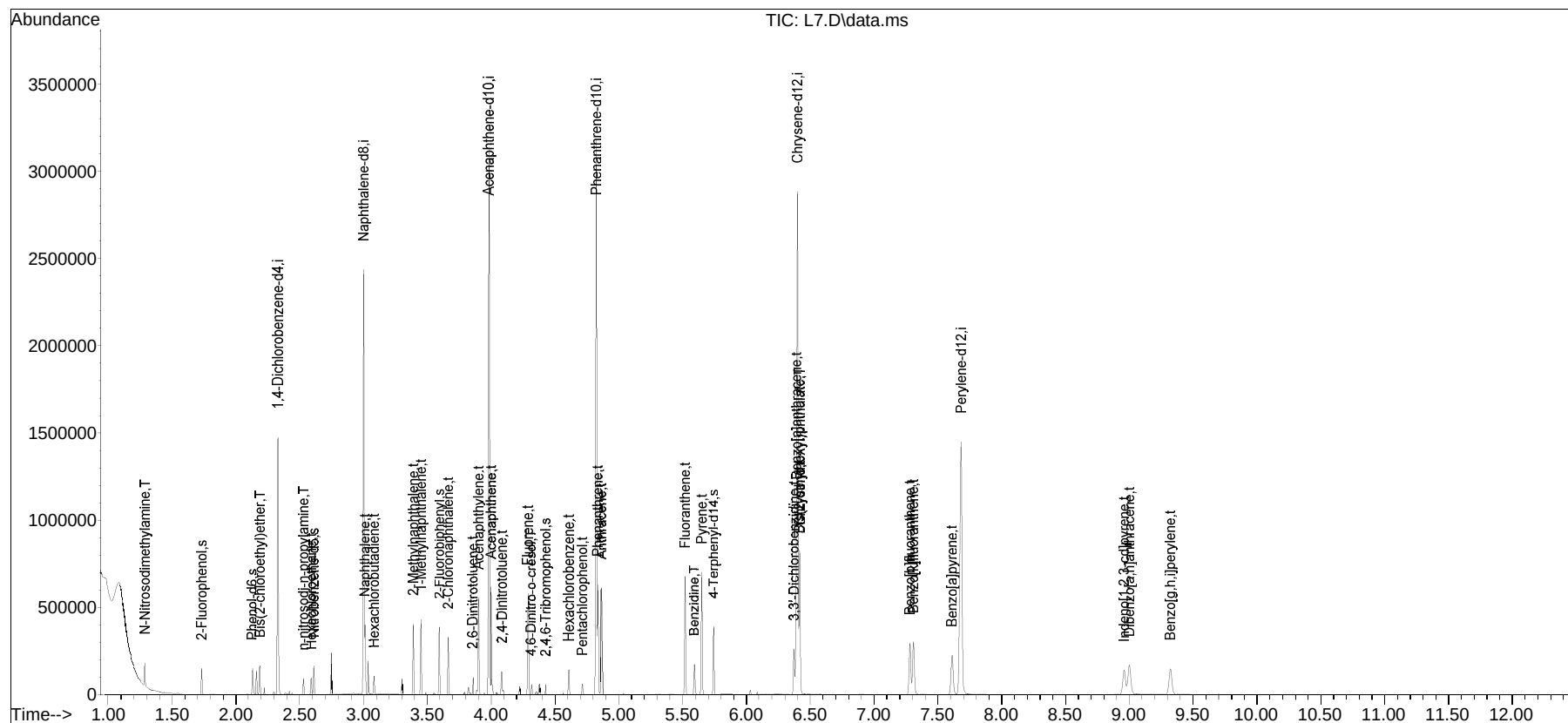
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L7.D
 Acq On : 18 Jun 2025 07:23 pm
 Operator : sv119:slr
 Sample : IL7,32,,0.5 Lot# 11701
 Misc : WG2080956,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 18 21:40:20 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:17 2025
 Response via : Initial Calibration

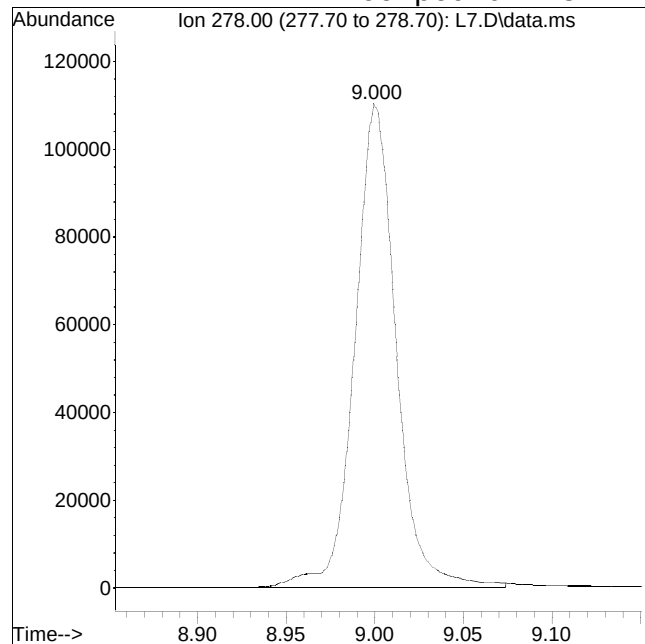
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

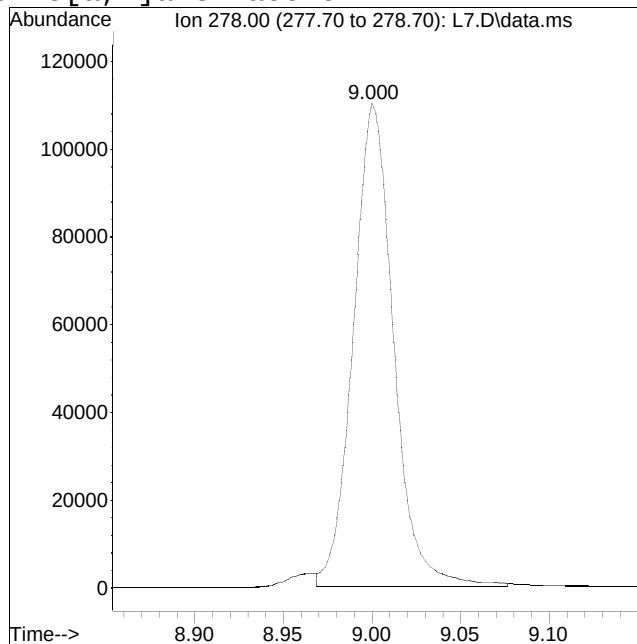
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L7.D Operator : sv119:slr
Date Inj'd : 6/18/2025 7:23 pm Instrument : SV119
Sample : IL7,32,,0.5 Lot# 11701 Quant Date : 6/18/2025 9:41 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 178718

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



Manual Peak Response = 173610 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L6.D
 Acq On : 18 Jun 2025 07:40 pm
 Operator : sv119:slr
 Sample : IL6,32,,0.1 Lot# 11702
 Misc : WG2080956,,ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 18 21:40:16 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:13 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.330	152	298941	4000.000	ng/ml	0.00
Standard Area 1 = 283024			Recovery	= 105.62%		
9) Naphthalene-d8	2.999	136	1115179	4000.000	ng/ml	0.00
Standard Area 1 = 1065169			Recovery	= 104.70%		
18) Acenaphthene-d10	3.980	164	666254	4000.000	ng/ml	0.00
Standard Area 1 = 633894			Recovery	= 105.10%		
23) Phenanthrene-d10	4.823	188	1428657	4000.000	ng/ml	0.00
Standard Area 1 = 1369725			Recovery	= 104.30%		
33) Chrysene-d12	6.400	240	1410622	4000.000	ng/ml	0.00
Standard Area 1 = 1297109			Recovery	= 108.75%		
38) Perylene-d12	7.678	264	1306056	4000.000	ng/ml	0.00
Standard Area 1 = 1258930			Recovery	= 103.74%		
System Monitoring Compounds						
3) 2-Fluorophenol	1.734	112	8532	101.619	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 5.08%#		
4) Phenol-d6	2.131	99	10508	96.391	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 4.82%#		
8) Nitrobenzene-d5	2.611	82	8853	98.445	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 9.84%#		
14) 2-Fluorobiphenyl	3.597	172	25868	102.525	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 10.25%#		
22) 2,4,6-Tribromophenol	4.424	330	3165	94.696	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 4.73%#		
32) 4-Terphenyl-d14	5.741	244	32959	102.607	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 10.26%#		
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.288	74	4987M6	100.845	ng/mL	
5) Bis(2-chloroethyl)ether	2.191	93	8820	100.255	ng/ml	99
6) n-nitrosodi-n-propylamine	2.529	70	6430	97.219	ng/ml	100
7) Hexachloroethane	2.592	117	3955	99.675	ng/ml	100
10) Naphthalene	3.010	128	28726	98.314	ng/ml	100
11) Hexachlorobutadiene	3.083	225	5741	99.233	ng/ml	100
12) 2-Methylnaphthalene	3.392	142	19011	98.122	ng/ml	100
13) 1-Methylnaphthalene	3.448	142	19979	99.747	ng/ml	100
15) 2-Chloronaphthalene	3.664	162	22029	101.383	ng/ml	100
16) 2,6-Dinitrotoluene	3.854	165	3923	88.765	ng/ml	99
17) Acenaphthylene	3.898	152	36015	99.712	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L6.D
 Acq On : 18 Jun 2025 07:40 pm
 Operator : sv119:slr
 Sample : IL6,32,,0.1 Lot# 11702
 Misc : WG2080956,,ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 18 21:40:16 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:13 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	3.997	153	21948	99.177	ng/ml	98
20)	2,4-Dinitrotoluene	4.083	165	5062	86.199	ng/ml	99
21)	Fluorene	4.288	166	26215	99.018	ng/ml	99
24)	4,6-Dinitro-o-cresol	4.312	198	2542	93.006	ng/ml	100
25)	Hexachlorobenzene	4.606	284	8962	101.351	ng/ml	99
26)	Pentachlorophenol	4.715	266	4031	87.033	ng/ml	98
27)	Phenanthrene	4.835	178	40730M6	95.934	ng/ml	
28)	Anthracene	4.863	178	40824	98.562	ng/ml	99
29)	Fluoranthene	5.518	202	50584	97.955	ng/ml	100
30)	Pyrene	5.648	202	52162	97.898	ng/ml	100
31)	Benzidine	5.591	184	843	264.423	ng/mL#	74
34)	Benzo[a]anthracene	6.392	228	50701	95.123	ng/ml	98
35)	3,3'-Dichlorobenzidine	6.374	252	15349	83.329	ng/ml	100
36)	Chrysene	6.416	228	46348	99.943	ng/ml	100
37)	Bis(2-ethylhexyl)phtha...	6.414	149	18036	90.446	ng/ml	99
39)	Benzo[b]fluoranthene	7.279	252	38796	98.561	ng/ml	98
40)	Benzo[k]fluoranthene	7.304	252	42106	101.291	ng/ml	99
41)	Benzo[a]pyrene	7.607	252	34586	96.550	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.960	276	27722	76.604	ng/ml	99
43)	Dibenzo[a,h]anthracene	8.996	278	26511M4	77.453	ng/ml	
44)	Benzo[g,h,i]perylene	9.317	276	31613	105.986	ng/ml	100

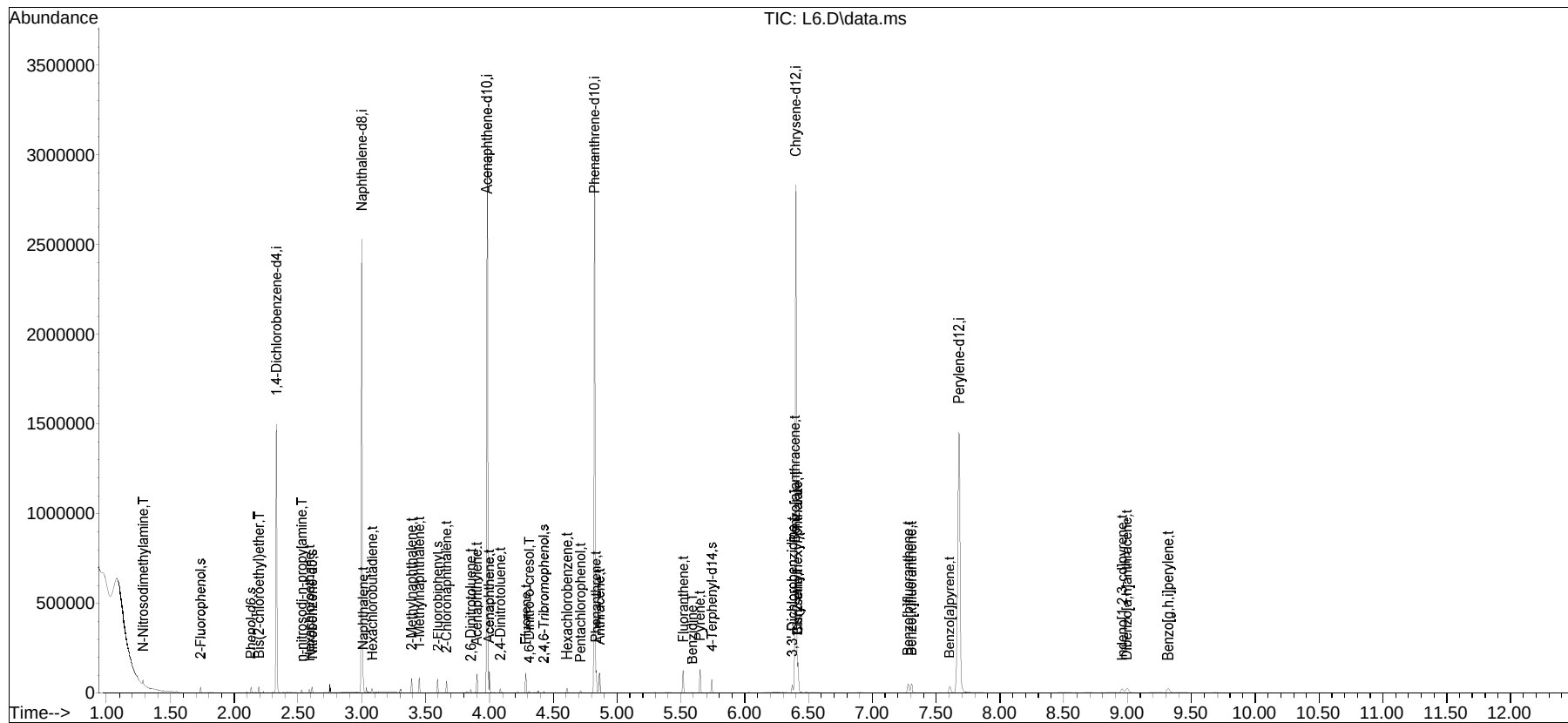
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path : I:\8270SIM\sv119\250618RVTical\
Data File : L6.D
Acq On    : 18 Jun 2025 07:40 pm
Operator  : sv119:slr
Sample    : IL6,32,,0.1 Lot# 11702
Misc      : WG2080956,,ical
ALS Vial  : 5 Sample Multiplier: 1
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Quant Time: Jun 18 21:40:16 2025
Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 18 21:41:13 2025
Response via : Initial Calibration

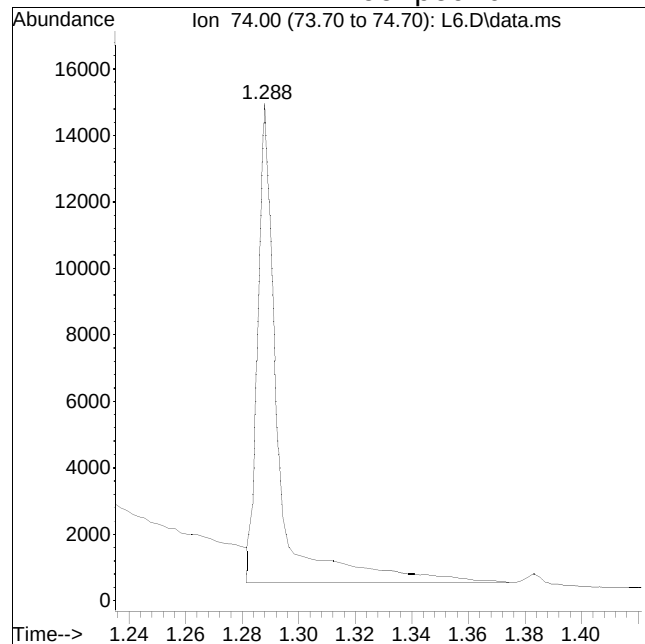
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

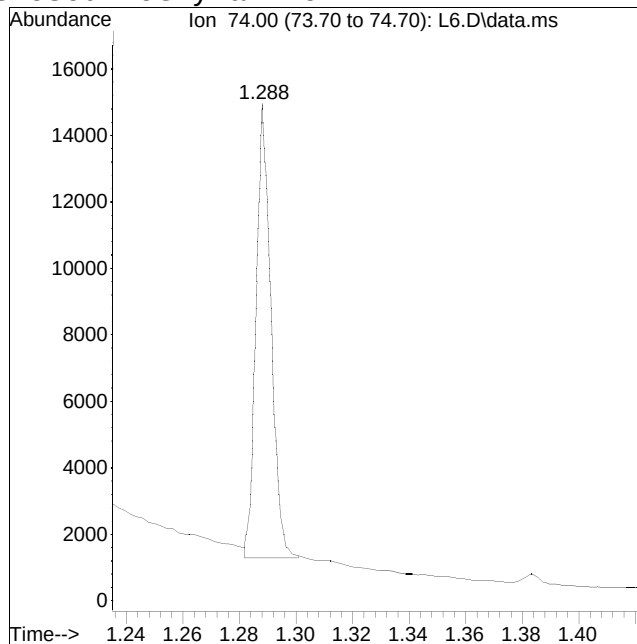
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L6.D Operator : sv119:slr
Date Inj'd : 6/18/2025 7:40 pm Instrument : SV119
Sample : IL6,32,,0.1 Lot# 11702 Quant Date : 6/18/2025 9:41 pm

Compound #2: N-Nitrosodimethylamine



Original Peak Response = 7186

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

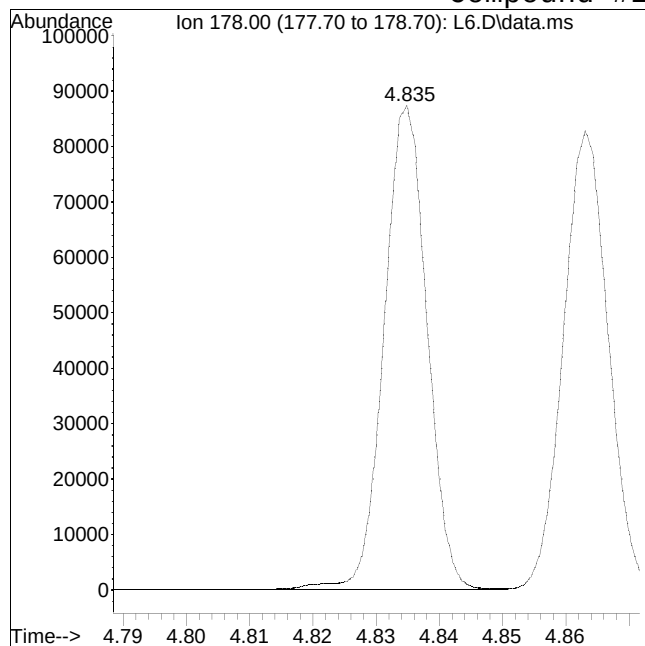


Manual Peak Response = 4987 M6

Manual Integration Report

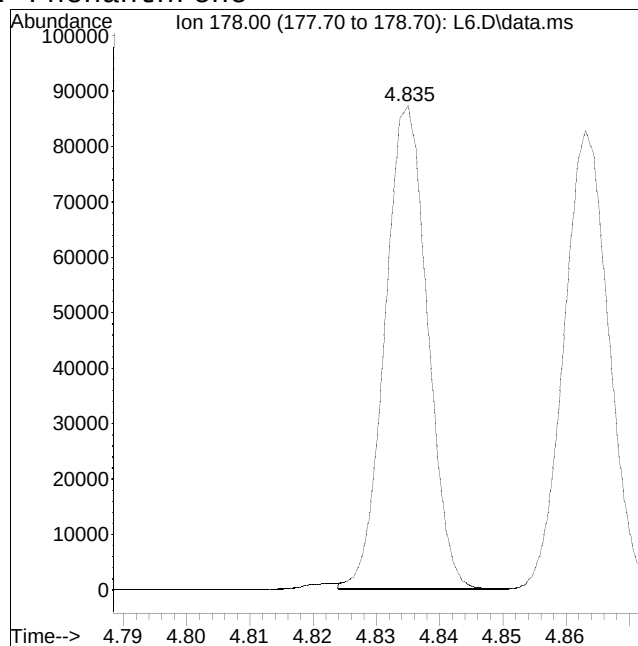
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L6.D Operator : sv119:slr
Date Inj'd : 6/18/2025 7:40 pm Instrument : SV119
Sample : IL6,32,,0.1 Lot# 11702 Quant Date : 6/18/2025 9:41 pm

Compound #27: Phenanthrene



Original Peak Response = 41359

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

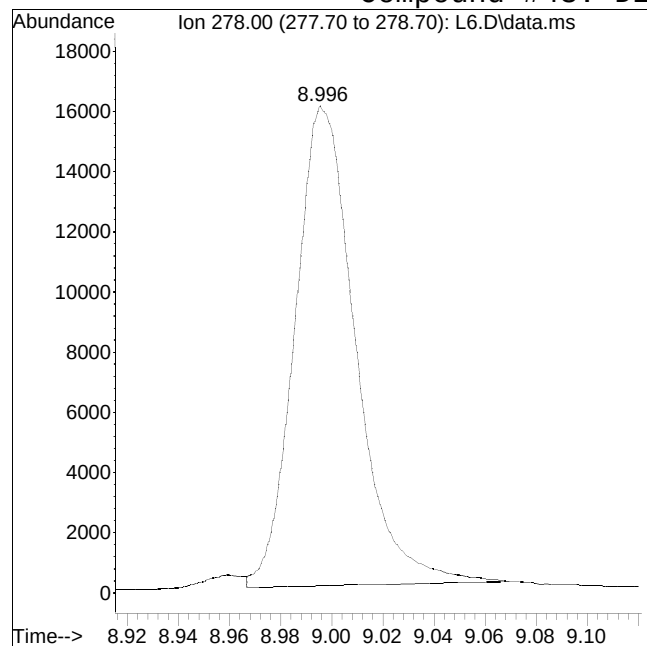


Manual Peak Response = 40730 M6

Manual Integration Report

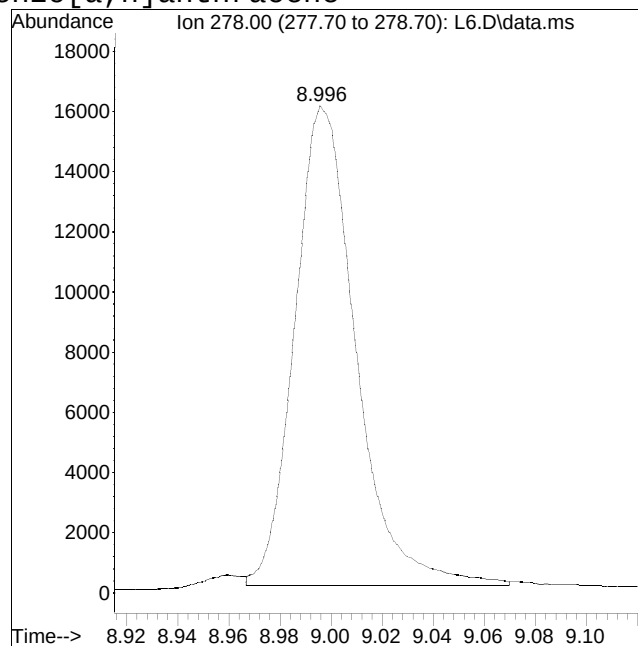
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L6.D Operator : sv119:slr
Date Inj'd : 6/18/2025 7:40 pm Instrument : SV119
Sample : IL6,32,,0.1 Lot# 11702 Quant Date : 6/18/2025 9:41 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 26319

M4 = Poor automated baseline construction.



Manual Peak Response = 26511 M4

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L5.D
 Acq On : 18 Jun 2025 07:56 pm
 Operator : sv119:slr
 Sample : IL5,32,,0.04 Lot# 11703
 Misc : WG2080956,,ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 19 10:20:33 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.330	152	284079	4000.000	ng/ml	0.00
Standard Area 1 = 283024			Recovery = 100.37%			
9) Naphthalene-d8	2.999	136	1051951	4000.000	ng/ml	0.00
Standard Area 1 = 1065169			Recovery = 98.76%			
18) Acenaphthene-d10	3.979	164	626430	4000.000	ng/ml	0.00
Standard Area 1 = 633894			Recovery = 98.82%			
23) Phenanthrene-d10	4.824	188	1343954	4000.000	ng/ml	0.00
Standard Area 1 = 1369725			Recovery = 98.12%			
33) Chrysene-d12	6.401	240	1354272	4000.000	ng/ml	0.00
Standard Area 1 = 1297109			Recovery = 104.41%			
38) Perylene-d12	7.678	264	1243475	4000.000	ng/ml	0.00
Standard Area 1 = 1258930			Recovery = 98.77%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.735	112	3259	40.847	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 2.04%#			
4) Phenol-d6	2.131	99	3976	38.381	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.92%#			
8) Nitrobenzene-d5	2.611	82	3382	39.575	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.96%#			
14) 2-Fluorobiphenyl	3.597	172	9812	41.226	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.12%#			
22) 2,4,6-Tribromophenol	4.425	330	1191	37.900	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.89%#			
32) 4-Terphenyl-d14	5.741	244	12649	41.860	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.19%#			
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.290	74	2077M6	44.198	ng/mL	
5) Bis(2-chloroethyl)ether	2.191	93	3321	39.724	ng/ml	100
6) n-nitrosodi-n-propylamine	2.529	70	2455	39.061	ng/ml	99
7) Hexachloroethane	2.592	117	1519	40.285	ng/ml	99
10) Naphthalene	3.011	128	10987	39.863	ng/ml	98
11) Hexachlorobutadiene	3.083	225	2186	40.056	ng/ml	100
12) 2-Methylnaphthalene	3.393	142	7260	39.724	ng/ml	100
13) 1-Methylnaphthalene	3.448	142	7568	40.055	ng/ml	100
15) 2-Chloronaphthalene	3.664	162	8394	40.953	ng/ml	99
16) 2,6-Dinitrotoluene	3.854	165	1546	37.084	ng/ml	95
17) Acenaphthylene	3.897	152	13689	40.178	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L5.D
 Acq On : 18 Jun 2025 07:56 pm
 Operator : sv119:slr
 Sample : IL5,32,,0.04 Lot# 11703
 Misc : WG2080956,,ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 19 10:20:33 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	3.996	153	8284	39.813	ng/ml	97
20)	2,4-Dinitrotoluene	4.082	165	1897	34.357	ng/ml	99
21)	Fluorene	4.288	166	9983	40.105	ng/ml	100
24)	4,6-Dinitro-o-cresol	4.315	198	976	49.293	ng/ml	95
25)	Hexachlorobenzene	4.607	284	3375	40.574	ng/ml	100
26)	Pentachlorophenol	4.716	266	1635	38.685	ng/ml	98
27)	Phenanthrene	4.836	178	15547	38.927	ng/ml	99
28)	Anthracene	4.864	178	15557	39.927	ng/ml	100
29)	Fluoranthene	5.518	202	19163	39.448	ng/ml	99
30)	Pyrene	5.650	202	19950	39.802	ng/ml	100
31)	Benzidine	5.593	184	455	263.245	ng/mL#	48
34)	Benzo[a]anthracene	6.394	228	21588	37.919	ng/ml	96
35)	3,3'-Dichlorobenzidine	6.374	252	5414	30.615	ng/ml	99
36)	Chrysene	6.416	228	17678	39.706	ng/ml	99
37)	Bis(2-ethylhexyl)phtha...	6.414	149	6651M6	50.623	ng/ml	
39)	Benzo[b]fluoranthene	7.279	252	13908	37.112	ng/ml	98
40)	Benzo[k]fluoranthene	7.307	252	15383M1	38.868	ng/ml	
41)	Benzo[a]pyrene	7.610	252	12514	36.692	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.960	276	9395	30.414	ng/ml	98
43)	Dibenzo[a,h]anthracene	8.998	278	8558M1	29.666	ng/ml	
44)	Benzo[g,h,i]perylene	9.319	276	11013	56.599	ng/ml	99

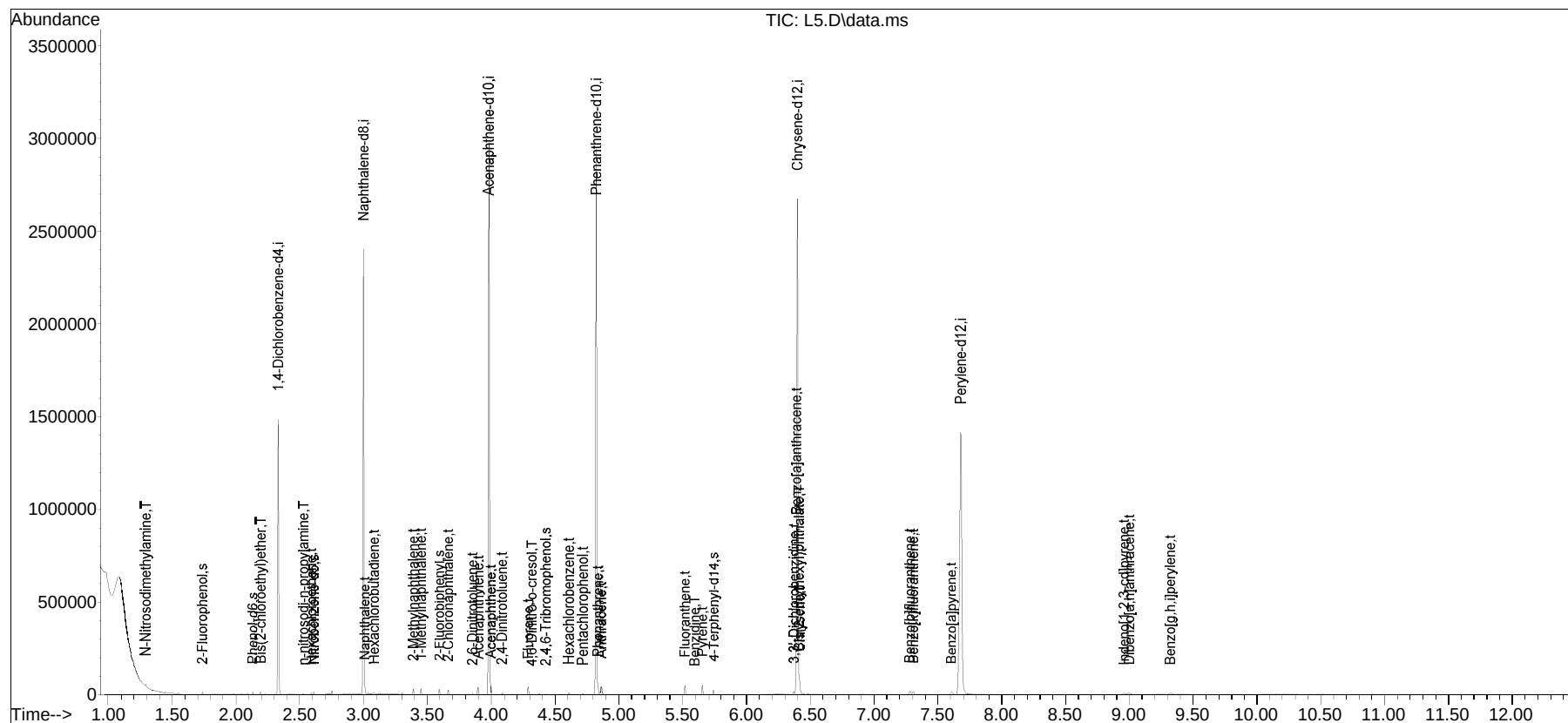
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
Data File : L5.D
Acq On : 18 Jun 2025 07:56 pm
Operator : sv119:slr
Sample : IL5,32,,0.04 Lot# 11703
Misc : WG2080956,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 19 10:20:33 2025
Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 18 21:41:08 2025
Response via : Initial Calibration

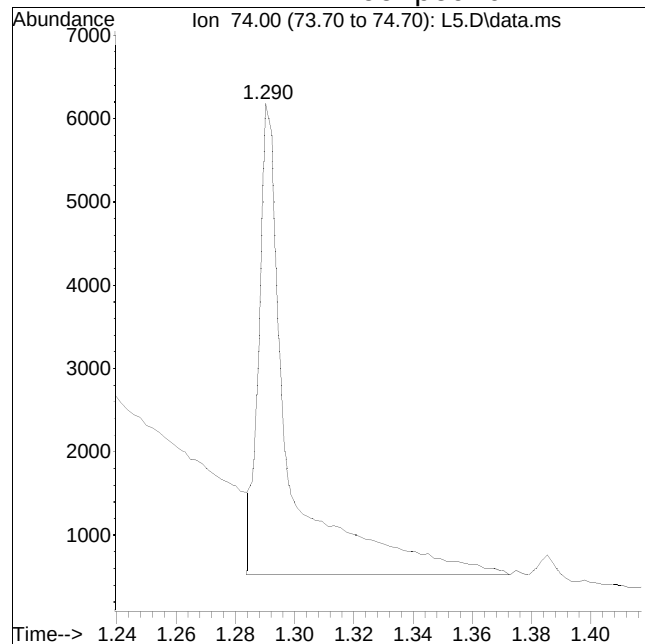
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

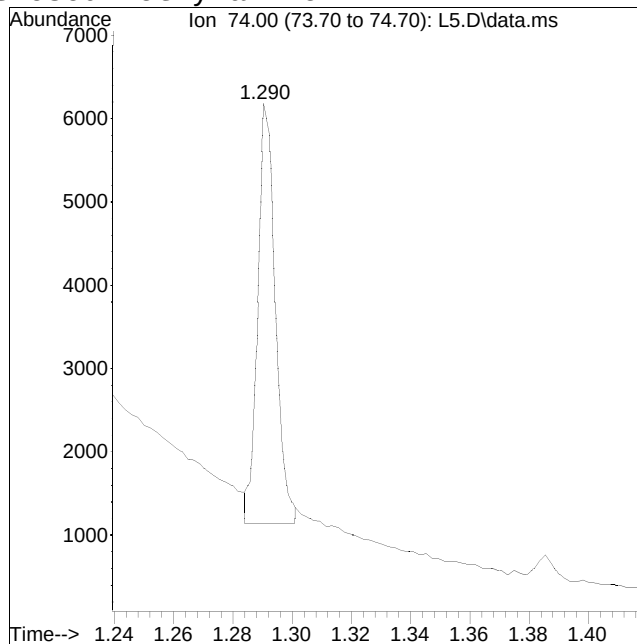
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L5.D Operator : sv119:slr
Date Inj'd : 6/18/2025 7:56 pm Instrument : SV119
Sample : IL5,32,,0.04 Lot# 11703 Quant Date : 6/18/2025 9:41 pm

Compound #2: N-Nitrosodimethylamine



Original Peak Response = 4087

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

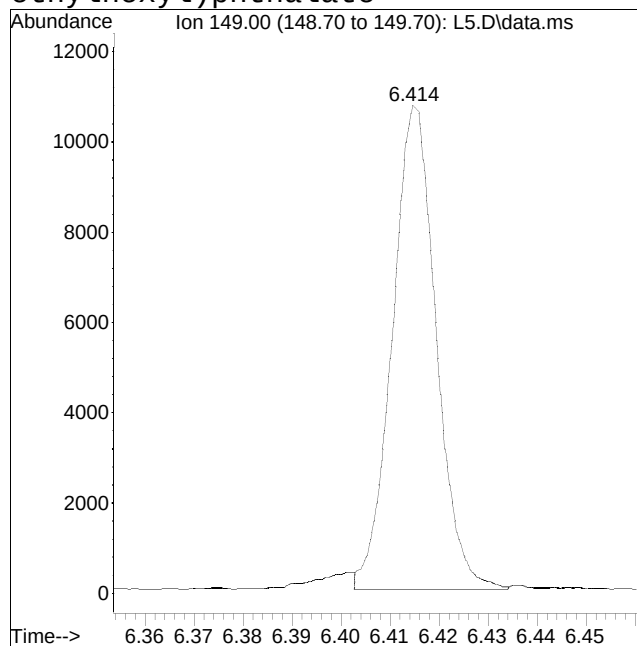
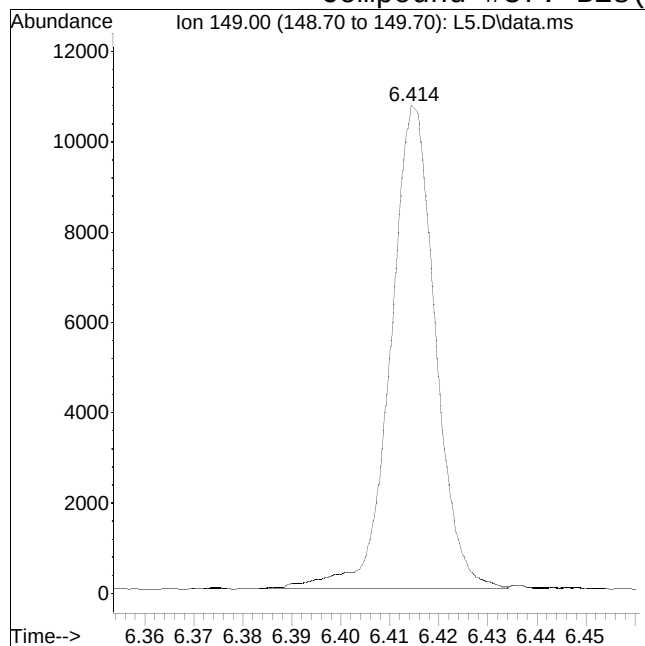


Manual Peak Response = 2077 M6

Manual Integration Report

Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L5.D Operator : sv119:slr
Date Inj'd : 6/18/2025 7:56 pm Instrument : SV119
Sample : IL5,32,,0.04 Lot# 11703 Quant Date : 6/18/2025 9:41 pm

Compound #37: Bis(2-ethylhexyl)phthalate



Original Peak Response = 6854

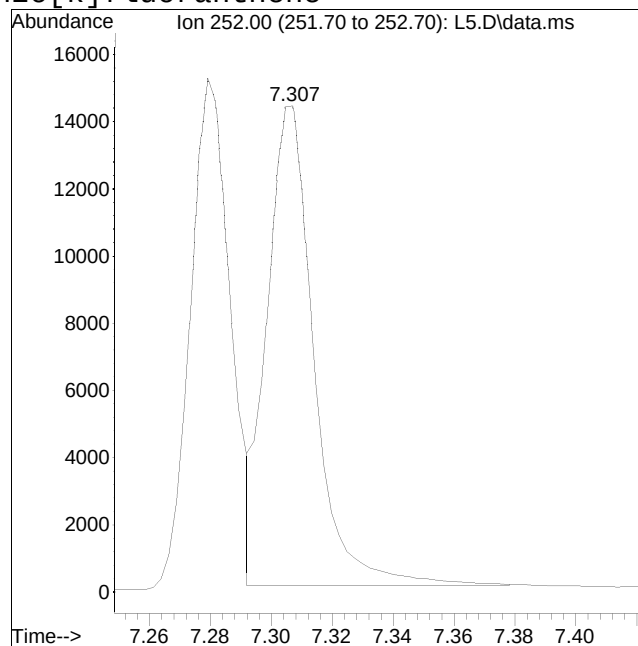
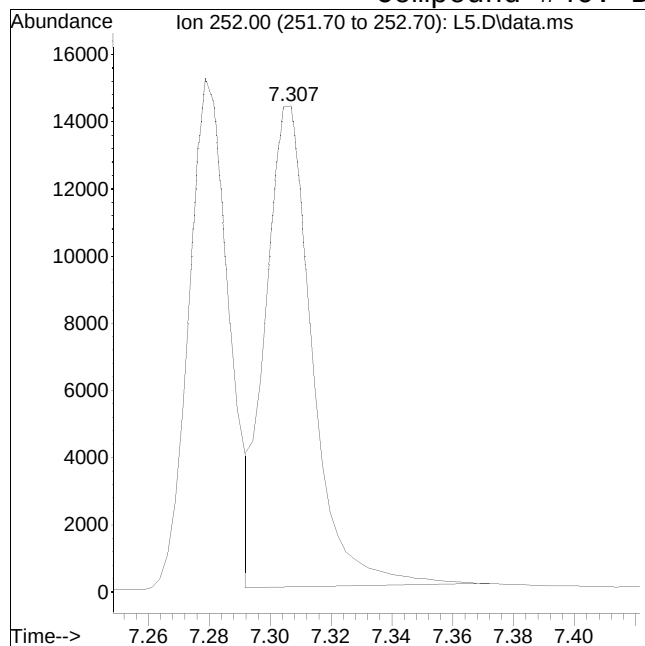
Manual Peak Response = 6651 M6

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

Manual Integration Report

Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L5.D Operator : sv119:slr
Date Inj'd : 6/18/2025 7:56 pm Instrument : SV119
Sample : IL5,32,,0.04 Lot# 11703 Quant Date : 6/18/2025 9:41 pm

Compound #40: Benzo[k]fluoranthene



Original Peak Response = 15376

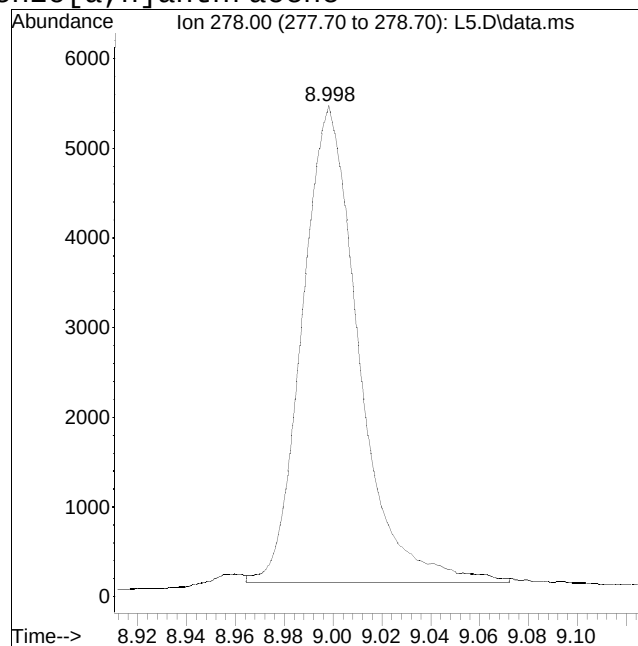
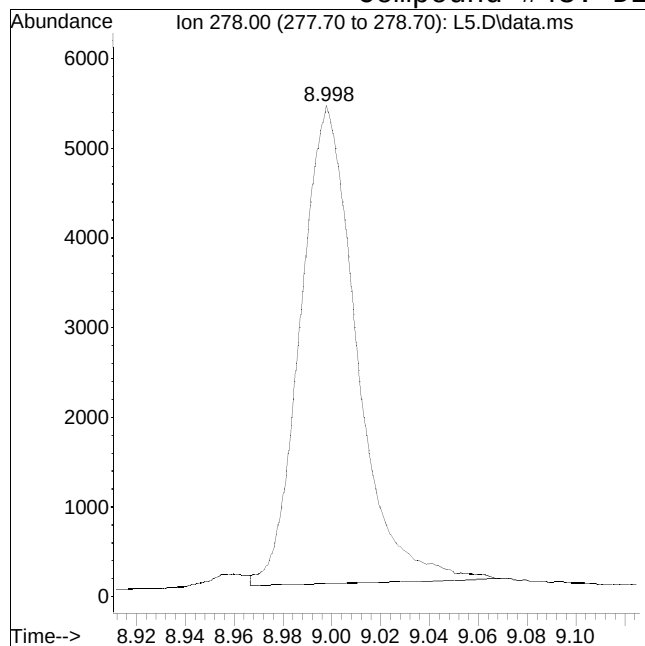
Manual Peak Response = 15383 M1

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

Manual Integration Report

Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L5.D Operator : sv119:slr
Date Inj'd : 6/18/2025 7:56 pm Instrument : SV119
Sample : IL5,32,,0.04 Lot# 11703 Quant Date : 6/18/2025 9:41 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 8525

Manual Peak Response = 8558 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L4.D
 Acq On : 18 Jun 2025 08:13 pm
 Operator : sv119:slr
 Sample : IL4,32,,0.01 Lot# 11704
 Misc : WG2080956,,ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 18 21:40:07 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:03 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.330	152	278035	4000.000	ng/ml	0.00
Standard Area 1 = 283024			Recovery = 98.24%			
9) Naphthalene-d8	2.999	136	1023177	4000.000	ng/ml	0.00
Standard Area 1 = 1065169			Recovery = 96.06%			
18) Acenaphthene-d10	3.981	164	608338	4000.000	ng/ml	0.00
Standard Area 1 = 633894			Recovery = 95.97%			
23) Phenanthrene-d10	4.823	188	1311266	4000.000	ng/ml	0.00
Standard Area 1 = 1369725			Recovery = 95.73%			
33) Chrysene-d12	6.399	240	1354251	4000.000	ng/ml	0.00
Standard Area 1 = 1297109			Recovery = 104.41%			
38) Perylene-d12	7.675	264	1250121	4000.000	ng/ml	0.00
Standard Area 1 = 1258930			Recovery = 99.30%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.735	112	785M2	10.053	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.50%#			
4) Phenol-d6	2.131	99	1074	10.593	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.53%#			
8) Nitrobenzene-d5	2.612	82	833	9.959	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 1.00%#			
14) 2-Fluorobiphenyl	3.598	172	2420	10.454	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 1.05%#			
22) 2,4,6-Tribromophenol	4.426	330	308	10.093	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.50%#			
32) 4-Terphenyl-d14	5.741	244	3126	10.603	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 1.06%#			
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.292	74	2683	58.334	ng/mL#	1
5) Bis(2-chloroethyl)ether	2.191	93	856	10.462	ng/ml	97
6) n-nitrosodi-n-propylamine	2.529	70	602	9.786	ng/ml#	89
7) Hexachloroethane	2.592	117	399	10.812	ng/ml	93
10) Naphthalene	3.011	128	2740	10.221	ng/ml	98
11) Hexachlorobutadiene	3.083	225	525	9.891	ng/ml	98
12) 2-Methylnaphthalene	3.393	142	1766	9.935	ng/ml	99
13) 1-Methylnaphthalene	3.448	142	1874	10.197	ng/ml	100
15) 2-Chloronaphthalene	3.664	162	2037	10.218	ng/ml	99
16) 2,6-Dinitrotoluene	3.854	165	398	9.815	ng/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L4.D
 Acq On : 18 Jun 2025 08:13 pm
 Operator : sv119:slr
 Sample : IL4,32,,0.01 Lot# 11704
 Misc : WG2080956,,ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 18 21:40:07 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:03 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17)	Acenaphthylene	3.898	152	3286	9.916	ng/ml	98
19)	Acenaphthene	3.998	153	2021	10.002	ng/ml	96
20)	2,4-Dinitrotoluene	4.083	165	490	9.138	ng/ml	96
21)	Fluorene	4.289	166	2438	10.085	ng/ml	99
24)	4,6-Dinitro-o-cresol	4.316	198	195	25.321	ng/ml	92
25)	Hexachlorobenzene	4.608	284	823	10.141	ng/ml	97
26)	Pentachlorophenol	4.717	266	568	15.087	ng/ml	99
27)	Phenanthrene	4.836	178	3882	9.962	ng/ml	97
28)	Anthracene	4.864	178	3837	10.093	ng/ml	99
29)	Fluoranthene	5.517	202	4779	10.083	ng/ml	97
30)	Pyrene	5.648	202	4916	10.052	ng/ml	100
31)	Benzidine	5.591	184	370	262.981	ng/mL#	58
34)	Benzo[a]anthracene	6.393	228	8308	9.874	ng/ml#	88
35)	3,3'-Dichlorobenzidine	6.371	252	1286	7.272	ng/ml#	98
36)	Chrysene	6.413	228	4503	10.114	ng/ml	96
37)	Bis(2-ethylhexyl)phtha...	6.412	149	1826M1	32.605	ng/ml	
39)	Benzo[b]fluoranthene	7.276	252	3331	8.841	ng/ml	98
40)	Benzo[k]fluoranthene	7.302	252	3656M4	9.188	ng/ml	
41)	Benzo[a]pyrene	7.604	252	2947	8.595	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.954	276	2181	10.780	ng/ml	100
43)	Dibenzo[a,h]anthracene	8.993	278	1820M6	10.337	ng/ml	
44)	Benzo[g,h,i]perylene	9.314	276	2525	34.599	ng/ml	99

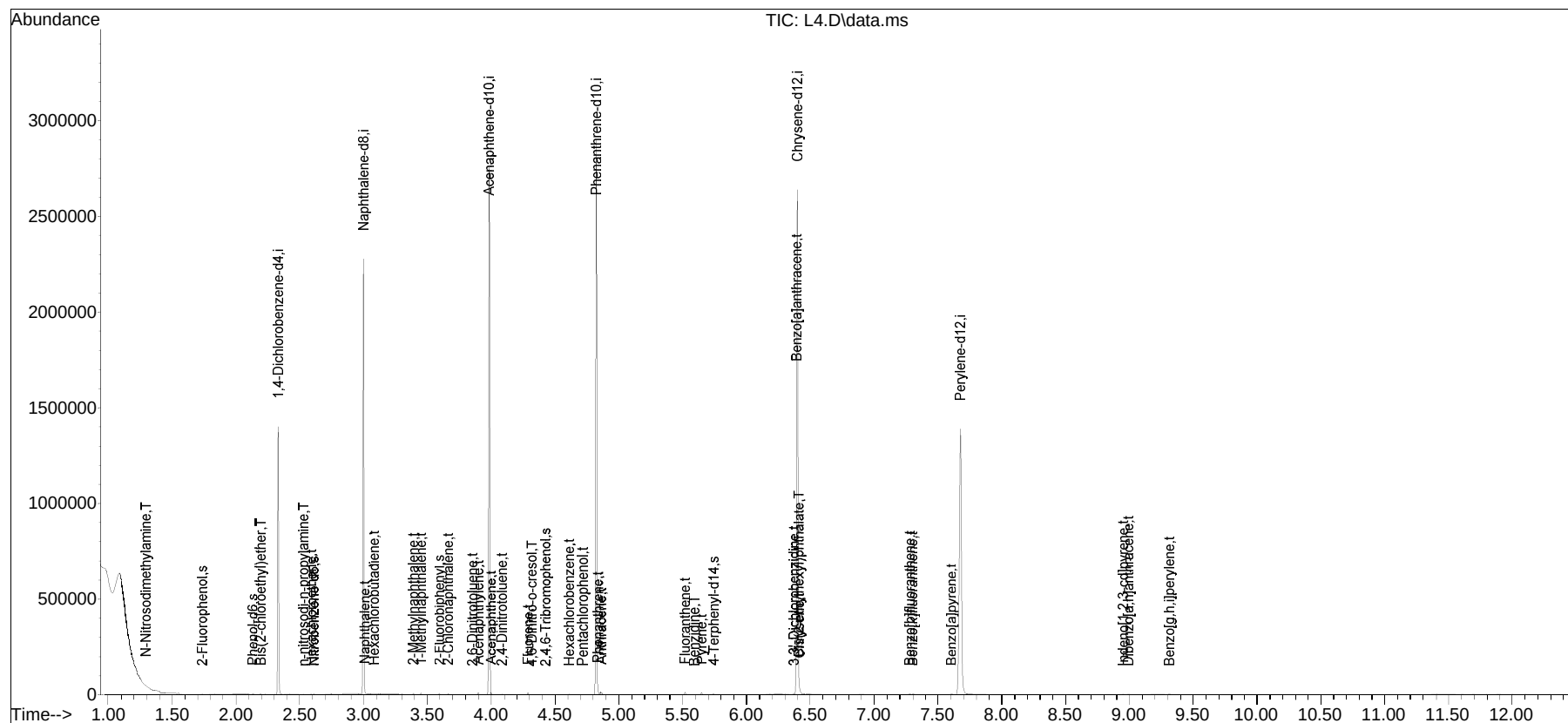
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L4.D
 Acq On : 18 Jun 2025 08:13 pm
 Operator : sv119:slr
 Sample : IL4,32,,0.01 Lot# 11704
 Misc : WG2080956,,ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 18 21:40:07 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:41:03 2025
 Response via : Initial Calibration

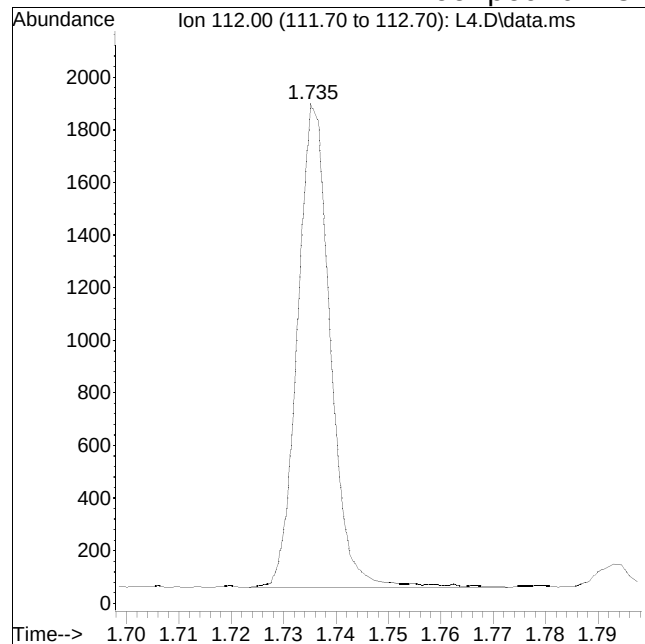
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

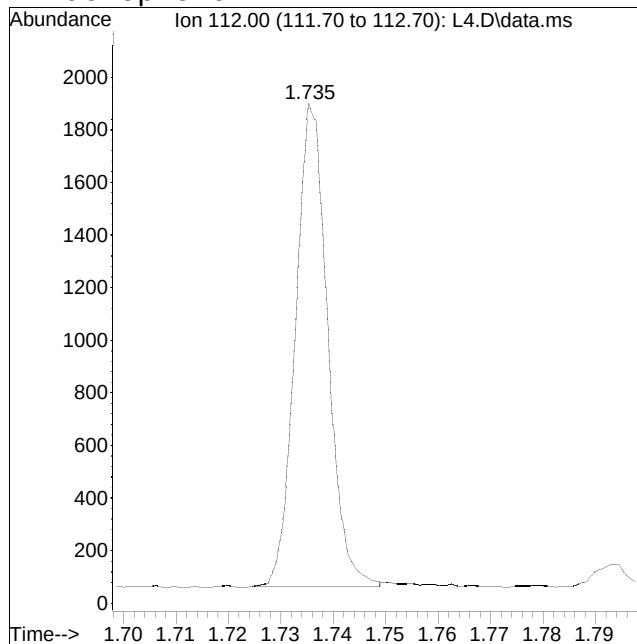
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L4.D Operator : sv119:slr
Date Inj'd : 6/18/2025 8:13 pm Instrument : SV119
Sample : IL4,32,,0.01 Lot# 11704 Quant Date : 6/18/2025 9:41 pm

Compound #3: 2-Fluorophenol



Original Peak Response = 803

M2 = Peak not found by automatic integration algorithm.

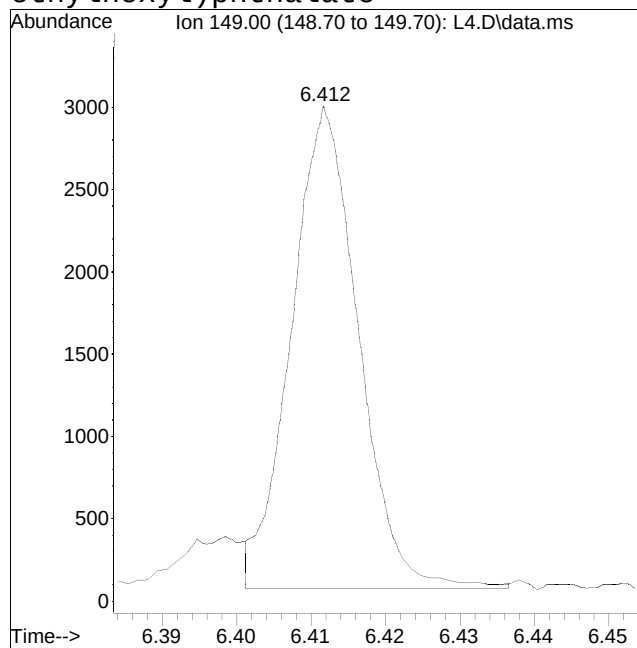
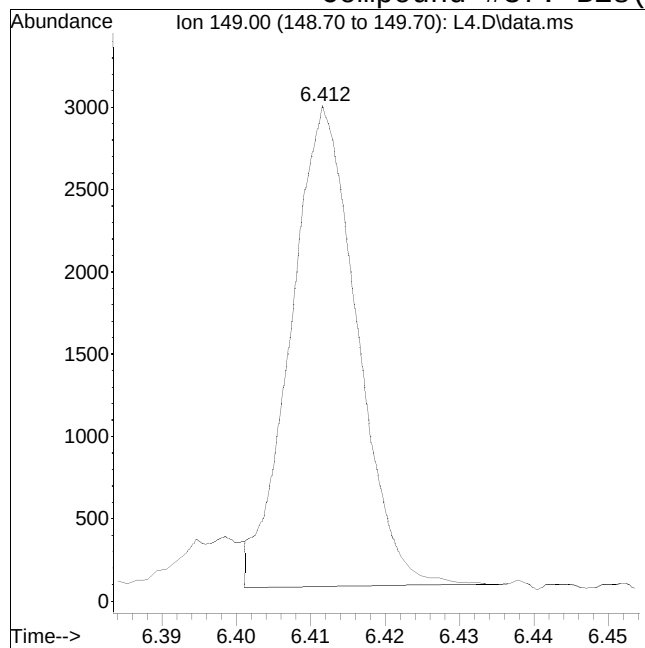


Manual Peak Response = 785 M2

Manual Integration Report

Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L4.D Operator : sv119:slr
Date Inj'd : 6/18/2025 8:13 pm Instrument : SV119
Sample : IL4,32,,0.01 Lot# 11704 Quant Date : 6/18/2025 9:41 pm

Compound #37: Bis(2-ethylhexyl)phthalate



Original Peak Response = 1796

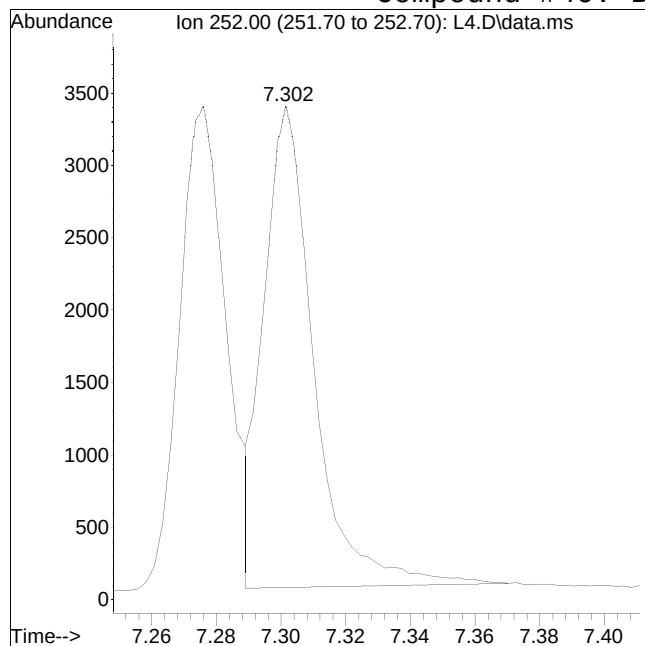
Manual Peak Response = 1826 M1

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

Manual Integration Report

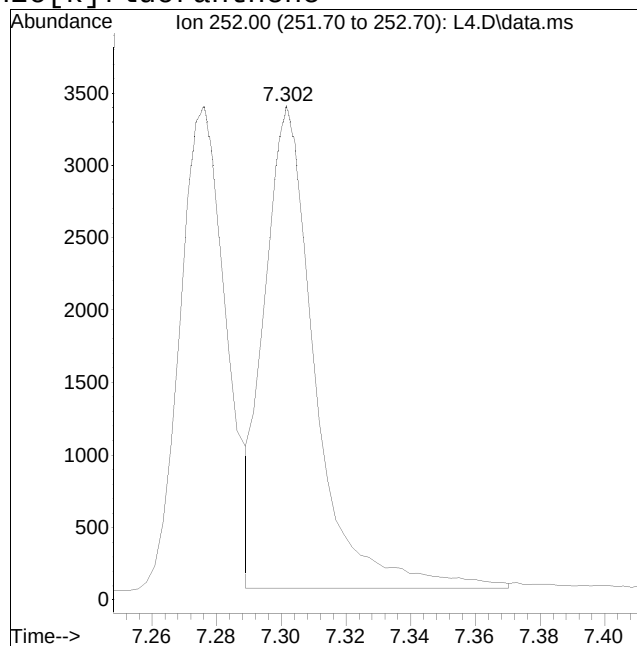
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L4.D Operator : sv119:slr
Date Inj'd : 6/18/2025 8:13 pm Instrument : SV119
Sample : IL4,32,,0.01 Lot# 11704 Quant Date : 6/18/2025 9:41 pm

Compound #40: Benzo[k]fluoranthene



Original Peak Response = 3581

M4 = Poor automated baseline construction.

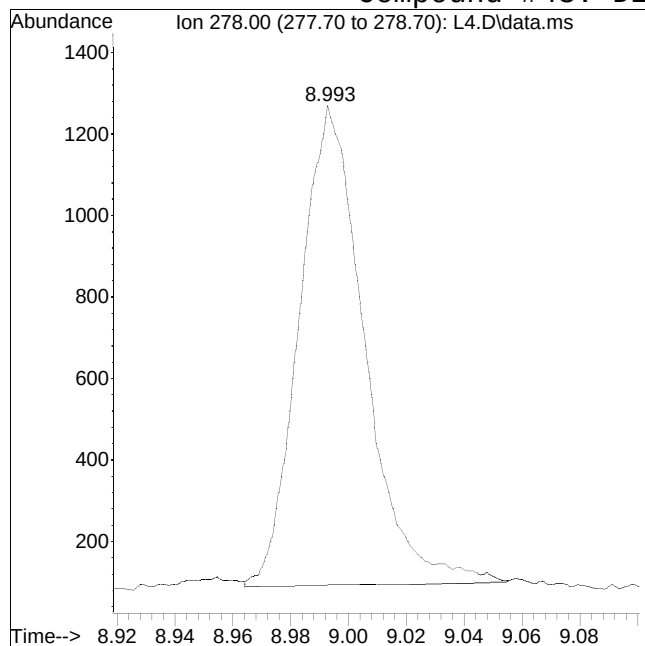


Manual Peak Response = 3656 M4

Manual Integration Report

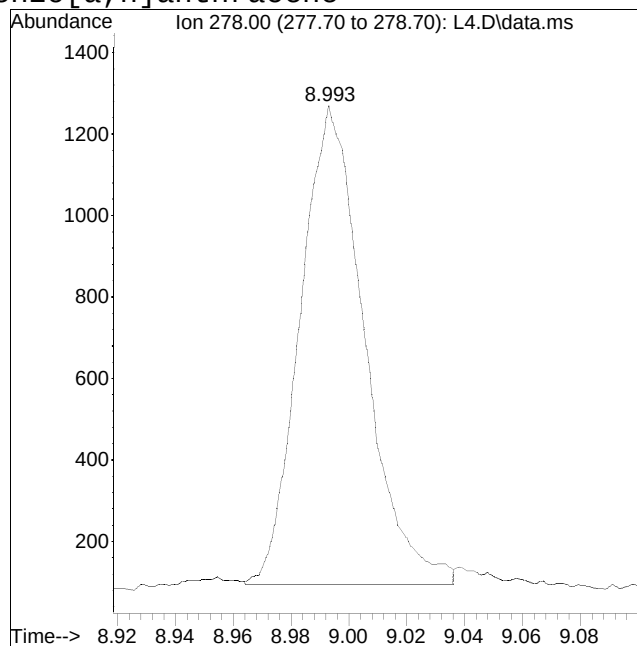
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L4.D Operator : sv119:slr
Date Inj'd : 6/18/2025 8:13 pm Instrument : SV119
Sample : IL4,32,,0.01 Lot# 11704 Quant Date : 6/18/2025 9:41 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 1850

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



Manual Peak Response = 1820 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L3.D
 Acq On : 18 Jun 2025 08:30 pm
 Operator : sv119:slr
 Sample : IL3,32,,0.005 Lot# 11705
 Misc : WG2080956,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 19 10:21:51 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:40:57 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.329	152	276484	4000.000	ng/ml	0.00
Standard Area 1 = 283024			Recovery = 97.69%			
9) Naphthalene-d8	3.000	136	1021288	4000.000	ng/ml	0.00
Standard Area 1 = 1065169			Recovery = 95.88%			
18) Acenaphthene-d10	3.980	164	605614	4000.000	ng/ml	0.00
Standard Area 1 = 633894			Recovery = 95.54%			
23) Phenanthrene-d10	4.823	188	1298207	4000.000	ng/ml	0.00
Standard Area 1 = 1369725			Recovery = 94.78%			
33) Chrysene-d12	6.400	240	1319201	4000.000	ng/ml	0.00
Standard Area 1 = 1297109			Recovery = 101.70%			
38) Perylene-d12	7.679	264	1216873	4000.000	ng/ml	0.00
Standard Area 1 = 1258930			Recovery = 96.66%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.735	112	400	5.151	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.26%#			
4) Phenol-d6	2.133	99	477	4.731	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
8) Nitrobenzene-d5	2.611	82	417	5.014	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.50%#			
14) 2-Fluorobiphenyl	3.598	172	1214	5.254	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.53%#			
22) 2,4,6-Tribromophenol	4.425	330	152	5.003	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.25%#			
32) 4-Terphenyl-d14	5.742	244	1507	5.163	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.52%#			
Target Compounds						
2) N-Nitrosodimethylamine	0.000		0	N.D.	d	
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) n-nitrosodi-n-propylamine	2.531	70	309	5.051	ng/ml#	67
7) Hexachloroethane	2.592	117	180	4.905	ng/ml	96
10) Naphthalene	3.011	128	1429	5.340	ng/ml	97
11) Hexachlorobutadiene	3.083	225	280	5.285	ng/ml	99
12) 2-Methylnaphthalene	3.393	142	924	5.208	ng/ml	100
13) 1-Methylnaphthalene	3.448	142	958	5.223	ng/ml	99
15) 2-Chloronaphthalene	3.665	162	1010	5.076	ng/ml	97
16) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
17) Acenaphthylene	3.899	152	1650	4.988	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L3.D
 Acq On : 18 Jun 2025 08:30 pm
 Operator : sv119:slr
 Sample : IL3,32,,0.005 Lot# 11705
 Misc : WG2080956,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 19 10:21:51 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:40:57 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	3.997	153	1002	4.981	ng/ml	93
20)	2,4-Dinitrotoluene	0.000		0	N.D.	d	
21)	Fluorene	4.290	166	1224	5.086	ng/ml	99
24)	4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
25)	Hexachlorobenzene	4.606	284	407	5.065	ng/ml	93
26)	Pentachlorophenol	4.718	266	403M1	11.389	ng/ml	
27)	Phenanthrene	4.835	178	1965	5.093	ng/ml	94
28)	Anthracene	4.864	178	1902	5.053	ng/ml	99
29)	Fluoranthene	5.517	202	2333	4.972	ng/ml	97
30)	Pyrene	5.649	202	2455	5.071	ng/ml	100
31)	Benzidine	5.592	184	349	262.919	ng/mL#	73
34)	Benzo[a]anthracene	6.397	228	5998	5.332	ng/mL#	83
35)	3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
36)	Chrysene	6.414	228	2025	4.669	ng/ml	99
37)	Bis(2-ethylhexyl)phtha...	6.414	149	981	29.547	ng/ml	96
39)	Benzo[b]fluoranthene	7.280	252	1517	4.136	ng/ml	98
40)	Benzo[k]fluoranthene	7.305	252	1611M6	4.159	ng/ml	
41)	Benzo[a]pyrene	7.608	252	1328	3.979	ng/ml	98
42)	Indeno[1,2,3-cd]pyrene	8.958	276	957	7.543	ng/ml	98
43)	Dibenzo[a,h]anthracene	8.996	278	811	7.526	ng/ml	96
44)	Benzo[g,h,i]perylene	9.320	276	1075M6	30.943	ng/ml	

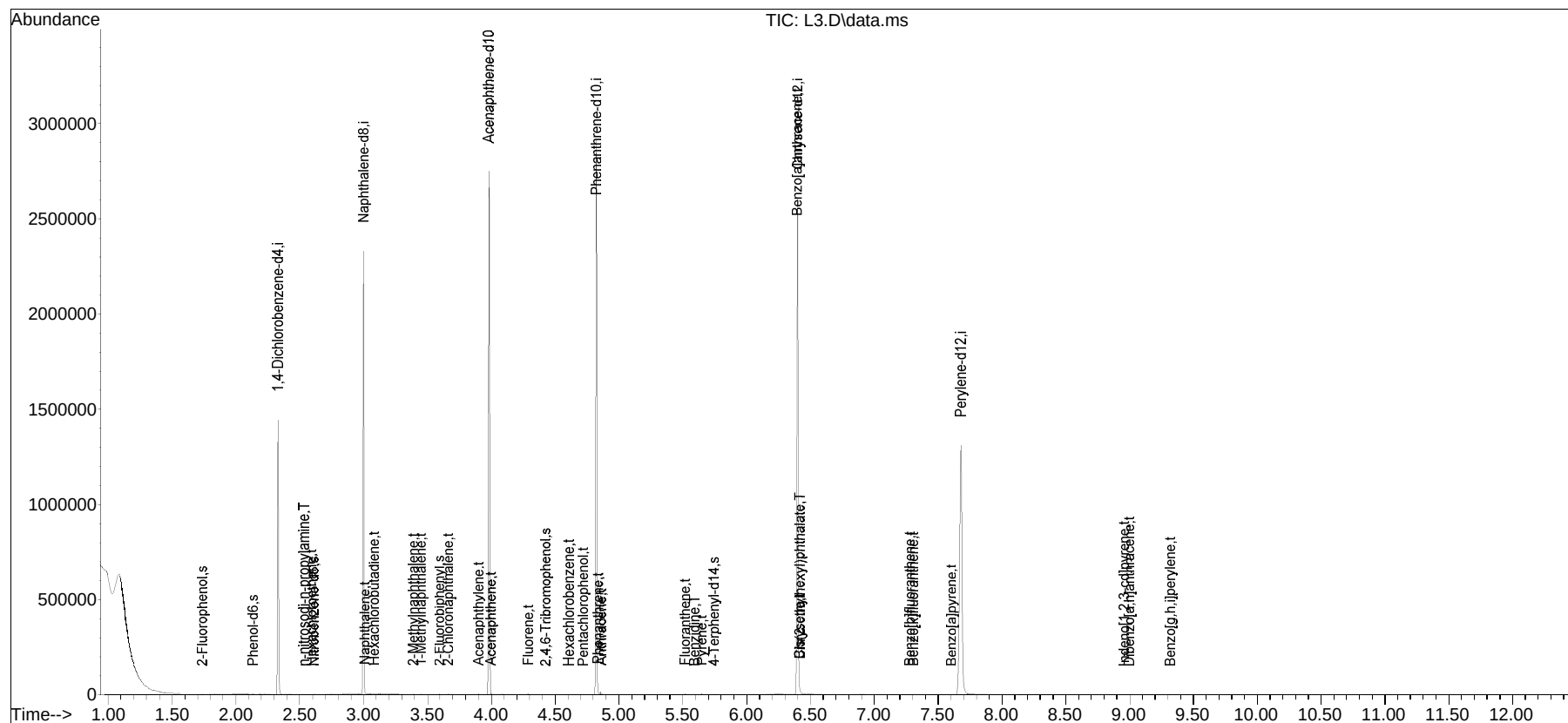
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L3.D
 Acq On : 18 Jun 2025 08:30 pm
 Operator : sv119:slr
 Sample : IL3,32,,0.005 Lot# 11705
 Misc : WG2080956,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 19 10:21:51 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:40:57 2025
 Response via : Initial Calibration

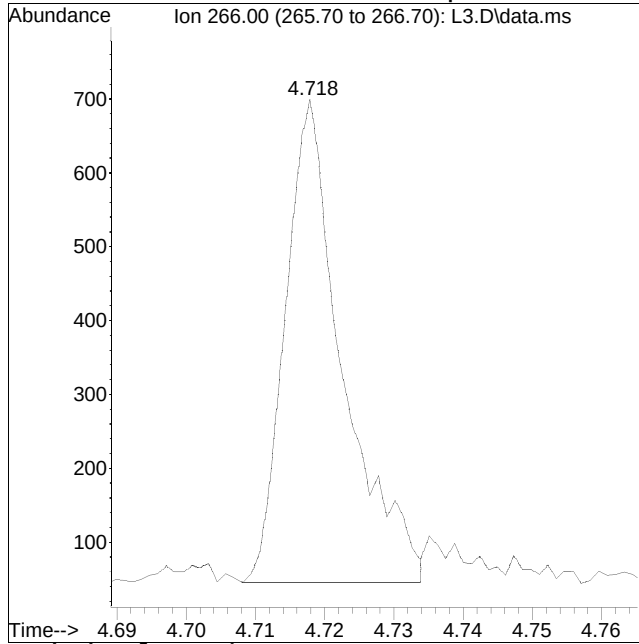
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

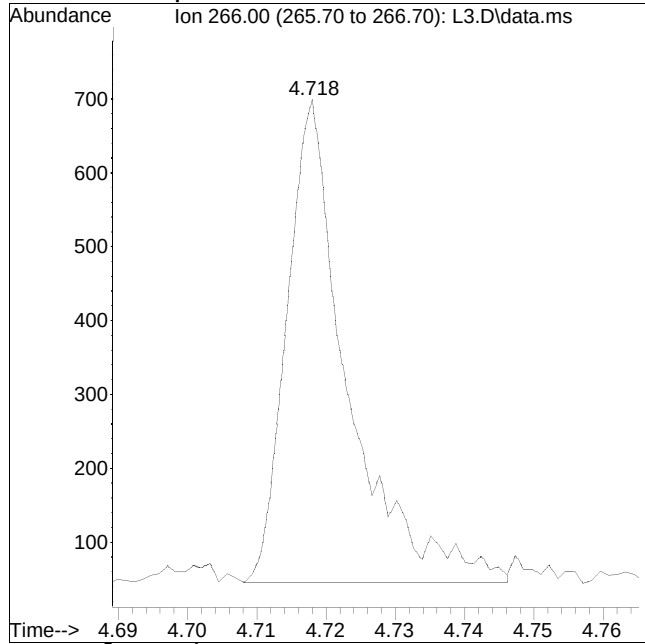
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L3.D Operator : sv119:slr
Date Inj'd : 6/18/2025 8:30 pm Instrument : SV119
Sample : IL3,32,,0.005 Lot# 11705 Quant Date : 6/18/2025 9:40 pm

Compound #26: Pentachlorophenol



Original Peak Response = 376

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

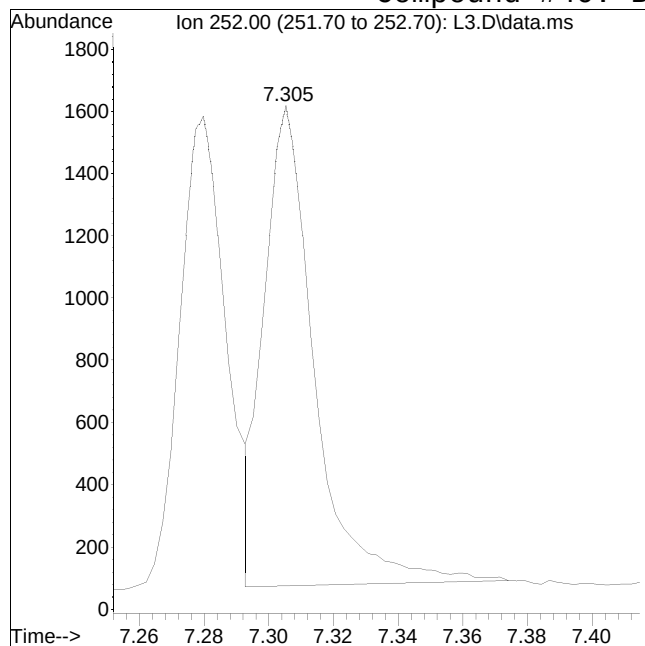


Manual Peak Response = 403 M1

Manual Integration Report

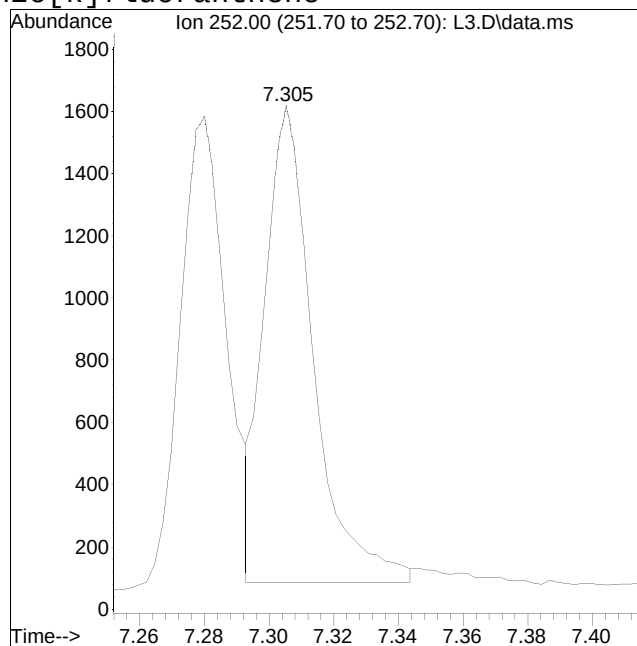
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L3.D Operator : sv119:slr
Date Inj'd : 6/18/2025 8:30 pm Instrument : SV119
Sample : IL3,32,,0.005 Lot# 11705 Quant Date : 6/18/2025 9:40 pm

Compound #40: Benzo[k]fluoranthene



Original Peak Response = 1681

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

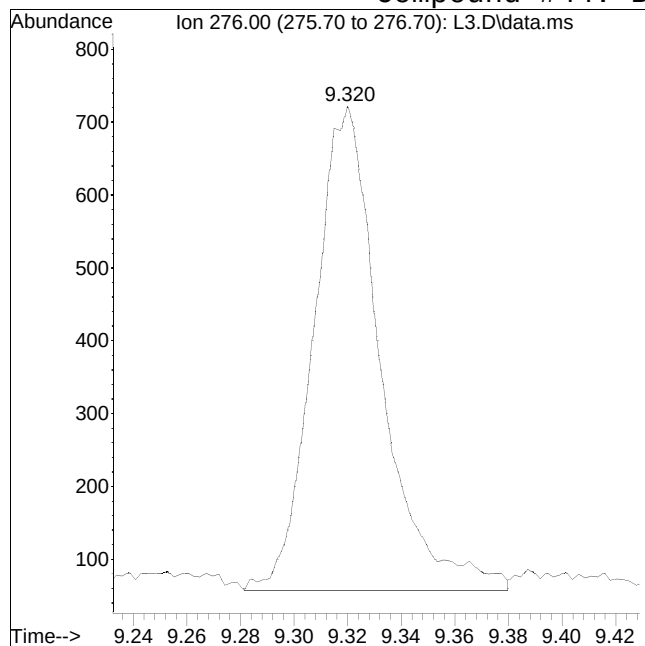


Manual Peak Response = 1611 M6

Manual Integration Report

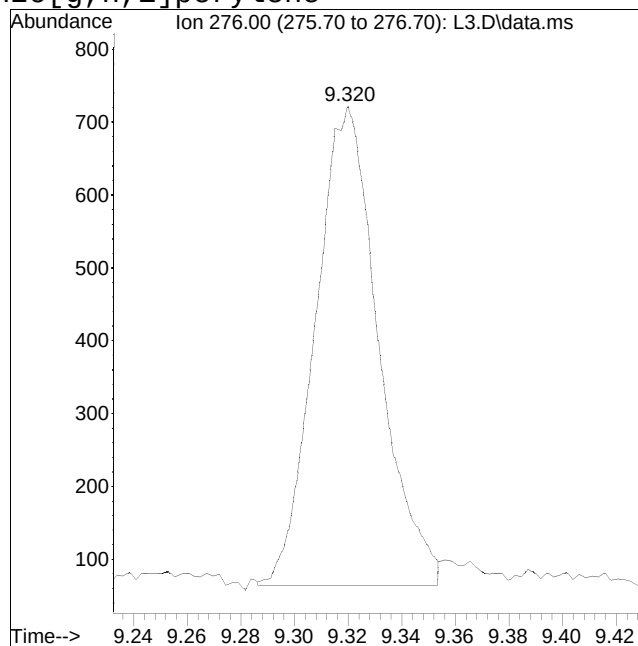
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L3.D Operator : sv119:slr
Date Inj'd : 6/18/2025 8:30 pm Instrument : SV119
Sample : IL3,32,,0.005 Lot# 11705 Quant Date : 6/18/2025 9:40 pm

Compound #44: Benzo[g,h,i]perylene



Original Peak Response = 1153

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



Manual Peak Response = 1075 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L2.D
 Acq On : 18 Jun 2025 08:46 pm
 Operator : sv119:slr
 Sample : IL2,32,,0.002 Lot# 11706
 Misc : WG2080956,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 09:40:27 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:40:50 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.330	152	288059	4000.000	ng/ml	0.00
Standard Area 1 = 283024			Recovery = 101.78%			
9) Naphthalene-d8	2.999	136	1063485	4000.000	ng/ml	0.00
Standard Area 1 = 1065169			Recovery = 99.84%			
18) Acenaphthene-d10	3.981	164	630794	4000.000	ng/ml	0.00
Standard Area 1 = 633894			Recovery = 99.51%			
23) Phenanthrene-d10	4.823	188	1349829	4000.000	ng/ml	0.00
Standard Area 1 = 1369725			Recovery = 98.55%			
33) Chrysene-d12	6.399	240	1373262	4000.000	ng/ml	0.00
Standard Area 1 = 1297109			Recovery = 105.87%			
38) Perylene-d12	7.678	264	1261793	4000.000	ng/ml	0.00
Standard Area 1 = 1258930			Recovery = 100.23%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.735	112	166	2.052	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
4) Phenol-d6	2.131	99	256	2.437	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.12%#			
8) Nitrobenzene-d5	2.612	82	180	2.077	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.21%#			
14) 2-Fluorobiphenyl	3.598	172	501	2.082	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.21%#			
22) 2,4,6-Tribromophenol	4.426	330	60	1.896	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.09%#			
32) 4-Terphenyl-d14	5.741	244	665	2.191	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.22%#			
Target Compounds						
2) N-Nitrosodimethylamine	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
6) n-nitrosodi-n-propylamine	0.000		0	N.D. d		
7) Hexachloroethane	0.000		0	N.D. d		
10) Naphthalene	3.011	128	604	2.168	ng/ml#	92
11) Hexachlorobutadiene	3.081	225	123	2.229	ng/ml	99
12) 2-Methylnaphthalene	3.393	142	427	2.311	ng/ml	95
13) 1-Methylnaphthalene	3.448	142	413	2.162	ng/ml	98
15) 2-Chloronaphthalene	3.664	162	423M6	2.041	ng/ml	
16) 2,6-Dinitrotoluene	0.000		0	N.D. d		
17) Acenaphthylene	3.898	152	708	2.055	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L2.D
 Acq On : 18 Jun 2025 08:46 pm
 Operator : sv119:slr
 Sample : IL2,32,,0.002 Lot# 11706
 Misc : WG2080956,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 09:40:27 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:40:50 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
19)	Acenaphthene	3.998	153	429	2.048	ng/ml		93
20)	2,4-Dinitrotoluene	0.000		0	N.D.	d		
21)	Fluorene	4.289	166	513M4	2.047	ng/ml		
24)	4,6-Dinitro-o-cresol	0.000		0	N.D.			
25)	Hexachlorobenzene	4.607	284	176	2.107	ng/ml		97
26)	Pentachlorophenol	0.000		0	N.D.	d		
27)	Phenanthrene	4.836	178	883M2	2.201	ng/ml		
28)	Anthracene	4.865	178	800	2.044	ng/ml		98
29)	Fluoranthene	5.517	202	1000	2.050	ng/ml#		92
30)	Pyrene	5.649	202	1036	2.058	ng/ml		99
31)	Benzydine	5.591	184	199	262.350	ng/mL#		52
34)	Benzo[a]anthracene	0.000		0	N.D.	d		
35)	3,3'-Dichlorobenzidine	0.000		0	N.D.	d		
36)	Chrysene	6.413	228	861M4	1.907	ng/ml		
37)	Bis(2-ethylhexyl)phtha...	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		

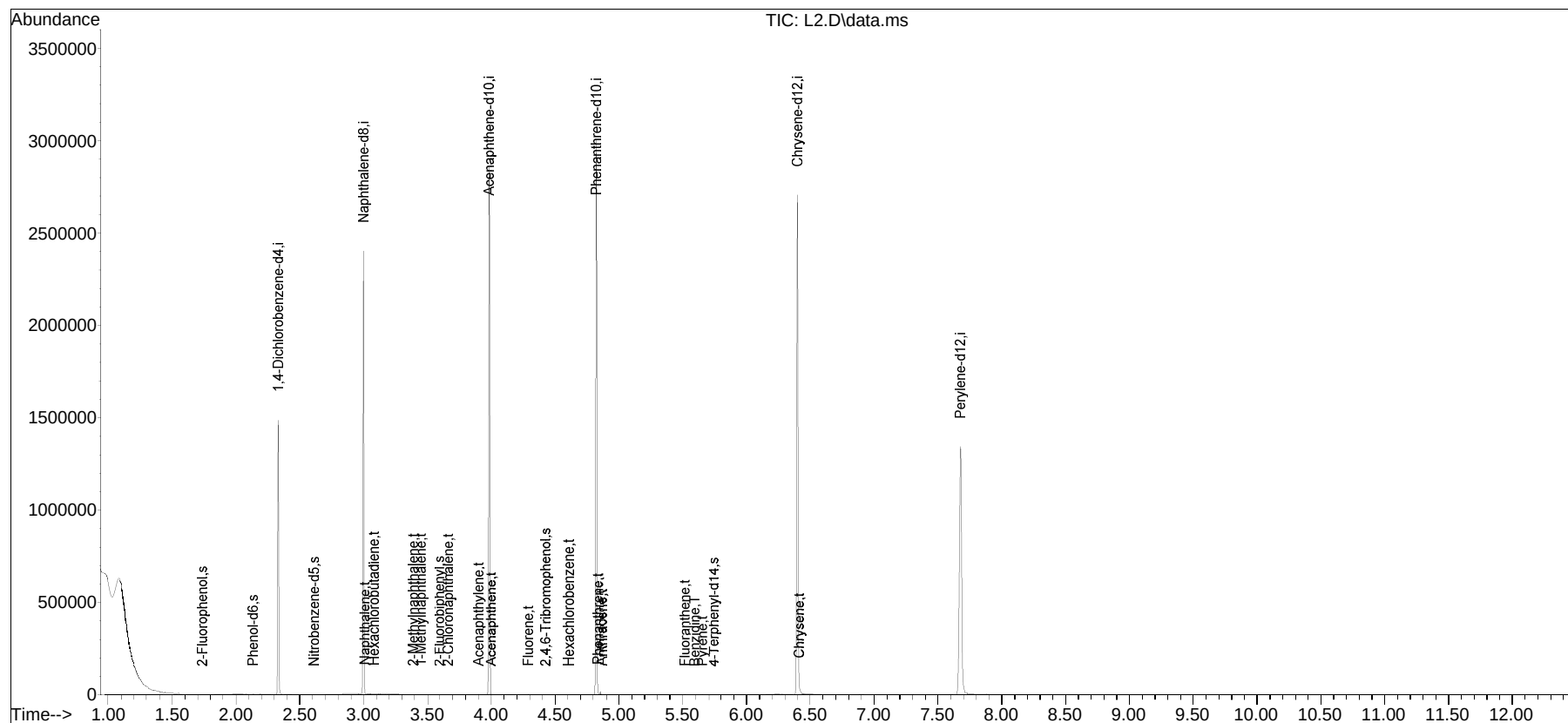
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L2.D
 Acq On : 18 Jun 2025 08:46 pm
 Operator : sv119:slr
 Sample : IL2,32,,0.002 Lot# 11706
 Misc : WG2080956,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 09:40:27 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:40:50 2025
 Response via : Initial Calibration

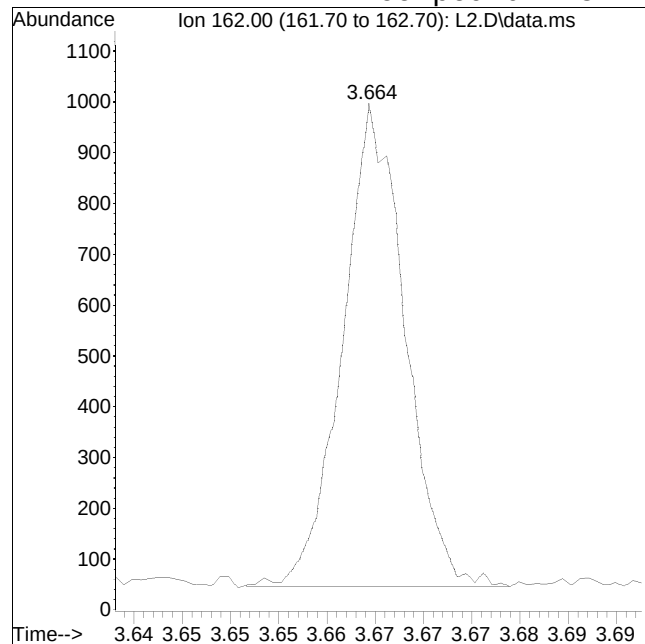
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

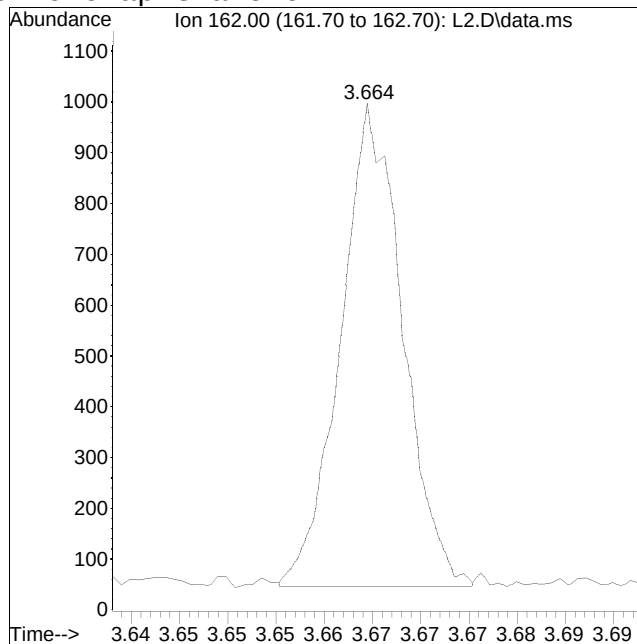
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L2.D Operator : sv119:slr
Date Inj'd : 6/18/2025 8:46 pm Instrument : SV119
Sample : IL2,32,,0.002 Lot# 11706 Quant Date : 6/18/2025 9:40 pm

Compound #15: 2-Chloronaphthalene



Original Peak Response = 428

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

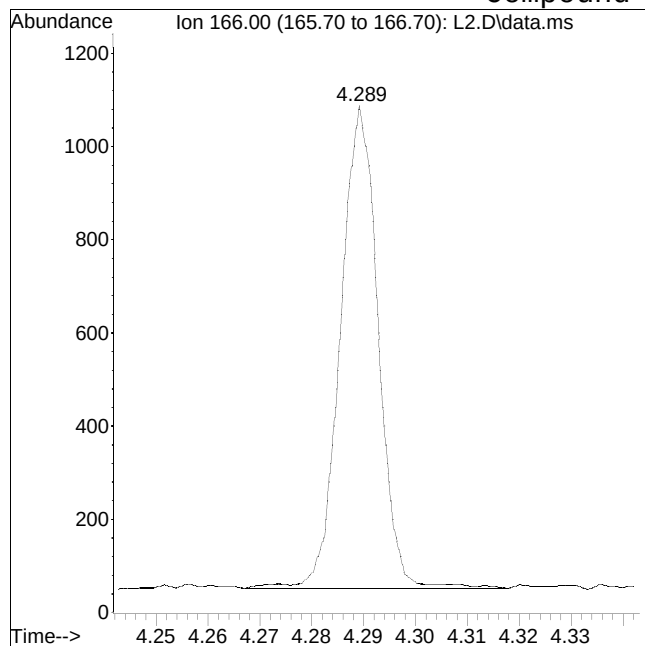


Manual Peak Response = 423 M6

Manual Integration Report

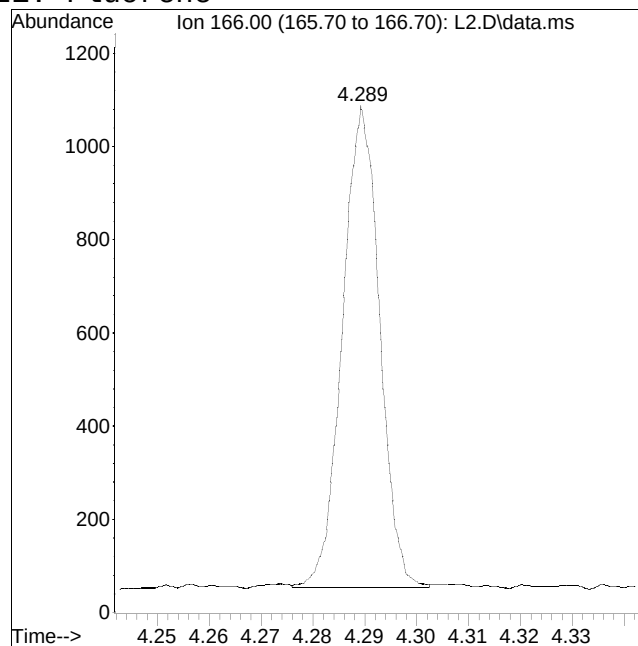
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L2.D Operator : sv119:slr
Date Inj'd : 6/18/2025 8:46 pm Instrument : SV119
Sample : IL2,32,,0.002 Lot# 11706 Quant Date : 6/18/2025 9:40 pm

Compound #21: Fluorene



Original Peak Response = 525

M4 = Poor automated baseline construction.

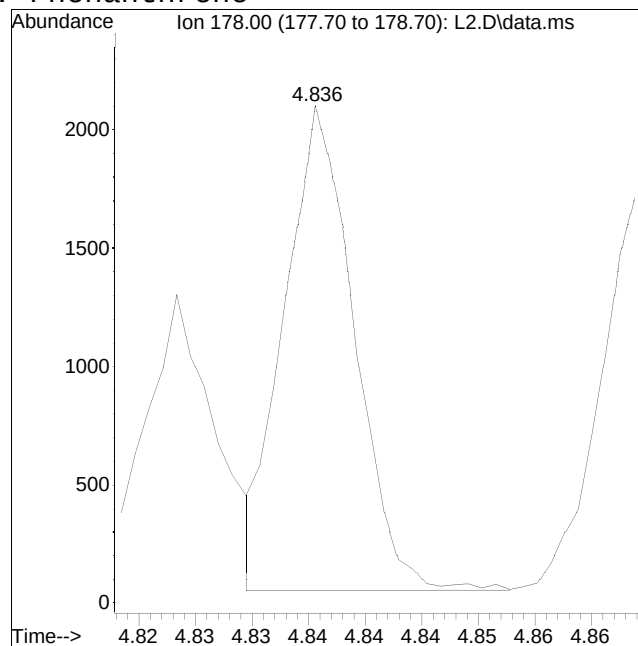
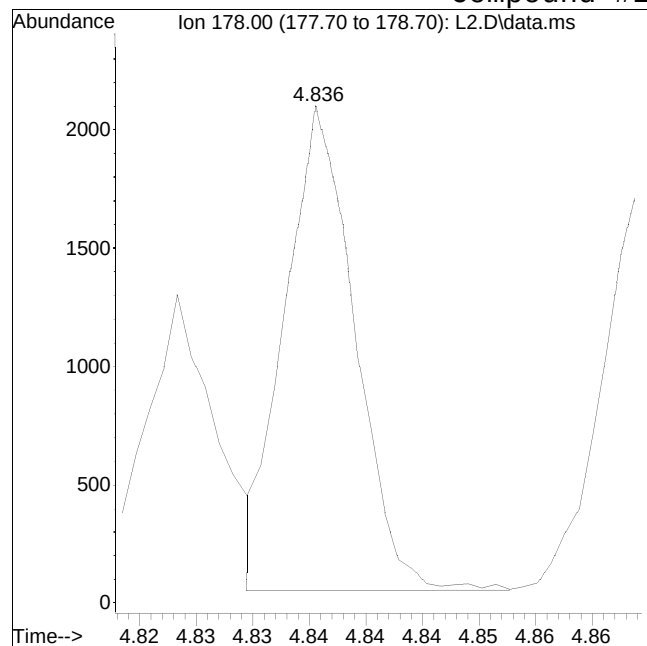


Manual Peak Response = 513 M4

Manual Integration Report

Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L2.D Operator : sv119:slr
Date Inj'd : 6/18/2025 8:46 pm Instrument : SV119
Sample : IL2,32,,0.002 Lot# 11706 Quant Date : 6/18/2025 9:40 pm

Compound #27: Phenanthrene



Original Peak Response = 883

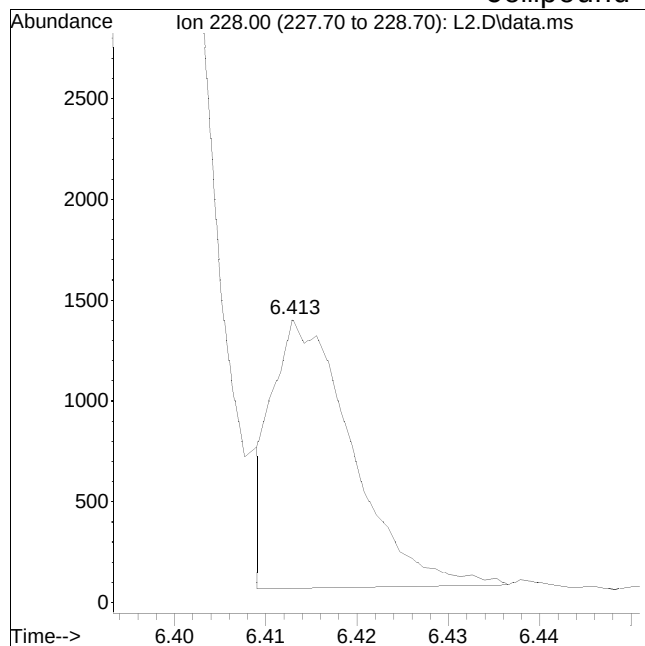
Manual Peak Response = 883 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

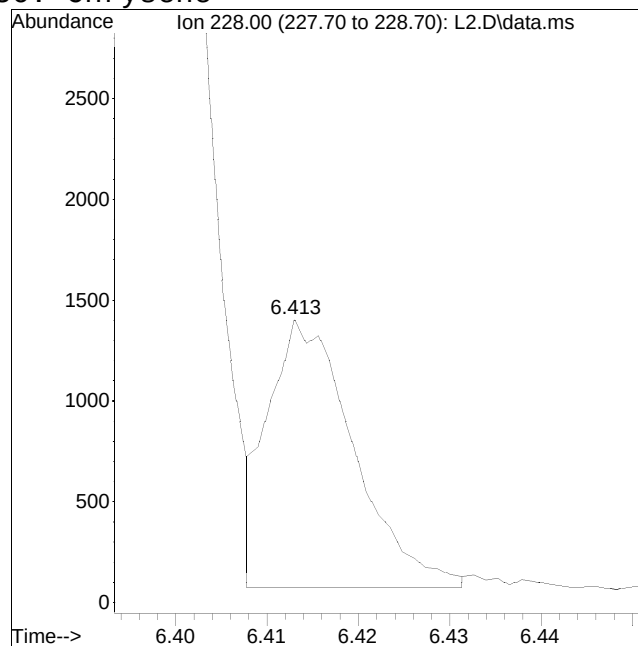
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L2.D Operator : sv119:slr
Date Inj'd : 6/18/2025 8:46 pm Instrument : SV119
Sample : IL2,32,,0.002 Lot# 11706 Quant Date : 6/18/2025 9:40 pm

Compound #36: Chrysene



Original Peak Response = 814

M4 = Poor automated baseline construction.



Manual Peak Response = 861 M4

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L1.D
 Acq On : 18 Jun 2025 09:03 pm
 Operator : sv119:slr
 Sample : IL1,32,,0.001 Lot# 11707
 Misc : WG2080956,,ical
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 19 10:11:46 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:40:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.329	152	284249	4000.000	ng/ml	0.00
Standard Area 1 = 283024			Recovery = 100.43%			
9) Naphthalene-d8	3.000	136	1047772	4000.000	ng/ml	0.00
Standard Area 1 = 1065169			Recovery = 98.37%			
18) Acenaphthene-d10	3.980	164	624767	4000.000	ng/ml	0.00
Standard Area 1 = 633894			Recovery = 98.56%			
23) Phenanthrene-d10	4.823	188	1338054	4000.000	ng/ml	0.00
Standard Area 1 = 1369725			Recovery = 97.69%			
33) Chrysene-d12	6.396	240	1359881	4000.000	ng/ml	0.00
Standard Area 1 = 1297109			Recovery = 104.84%			
38) Perylene-d12	7.678	264	1248585	4000.000	ng/ml	0.00
Standard Area 1 = 1258930			Recovery = 99.18%			
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
4) Phenol-d6	0.000	99	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
8) Nitrobenzene-d5	2.609	82	100	1.169	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.12%#			
14) 2-Fluorobiphenyl	3.598	172	274	1.156	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.12%#			
22) 2,4,6-Tribromophenol	4.425	330	42	1.340	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.07%#			
32) 4-Terphenyl-d14	5.740	244	340	1.130	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.11%#			
Target Compounds						
2) N-Nitrosodimethylamine	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.	d	
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.	d	
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
13) 1-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
17) Acenaphthylene	3.899	152	357	1.052	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L1.D
 Acq On : 18 Jun 2025 09:03 pm
 Operator : sv119:slr
 Sample : IL1,32,,0.001 Lot# 11707
 Misc : WG2080956,,ical
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 19 10:11:46 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:40:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	3.997	153	223	1.075	ng/ml	99
20)	2,4-Dinitrotoluene	0.000		0	N.D.	d	
21)	Fluorene	4.288	166	261	1.051	ng/ml	95
24)	4,6-Dinitro-o-cresol	0.000		0	N.D.		
25)	Hexachlorobenzene	4.605	284	106	1.280	ng/ml#	71
26)	Pentachlorophenol	0.000		0	N.D.	d	
27)	Phenanthrene	4.834	178	479M6	1.205	ng/ml	
28)	Anthracene	4.865	178	396	1.021	ng/ml#	88
29)	Fluoranthene	5.517	202	526	1.088	ng/ml	95
30)	Pyrene	5.649	202	537	1.076	ng/ml	100
31)	Benzidine	5.592	184	154	262.199	ng/mL#	35
34)	Benzo[a]anthracene	0.000		0	N.D.	d	
35)	3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
36)	Chrysene	6.413	228	404M1	0.904	ng/ml	
37)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
39)	Benzo[b]fluoranthene	7.277	252	274	0.728	ng/ml	100
40)	Benzo[k]fluoranthene	7.302	252	287M4	0.722	ng/ml	
41)	Benzo[a]pyrene	7.607	252	246	0.718	ng/ml	97
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	

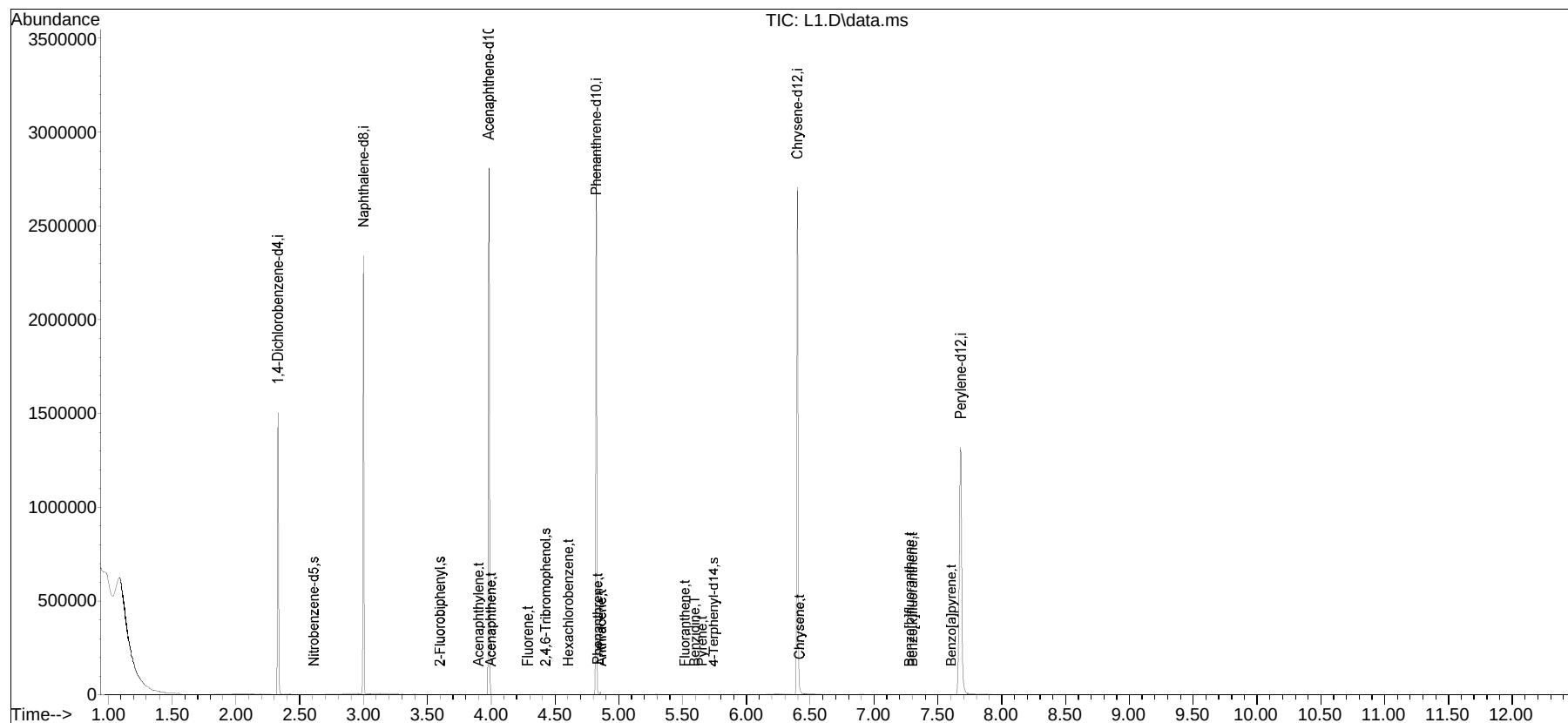
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : L1.D
 Acq On : 18 Jun 2025 09:03 pm
 Operator : sv119:slr
 Sample : IL1,32,,0.001 Lot# 11707
 Misc : WG2080956,,ical
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 19 10:11:46 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 21:40:38 2025
 Response via : Initial Calibration

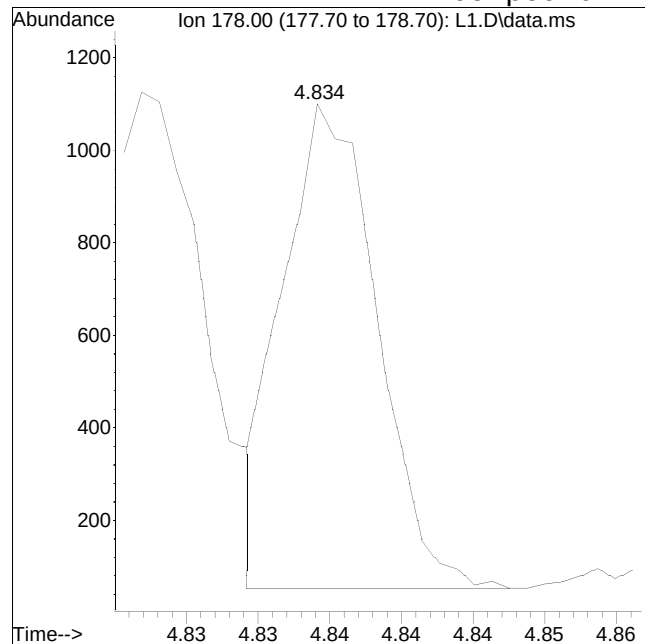
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

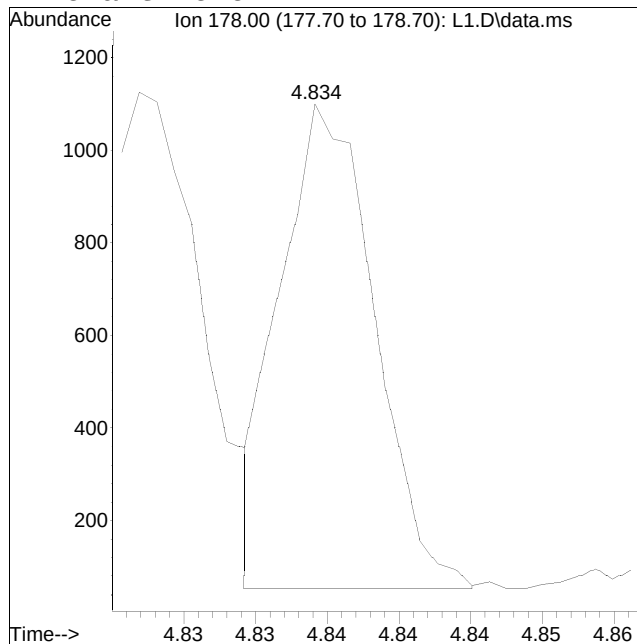
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L1.D Operator : sv119:slr
Date Inj'd : 6/18/2025 9:03 pm Instrument : SV119
Sample : IL1,32,,0.001 Lot# 11707 Quant Date : 6/18/2025 9:40 pm

Compound #27: Phenanthrene



Original Peak Response = 482

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

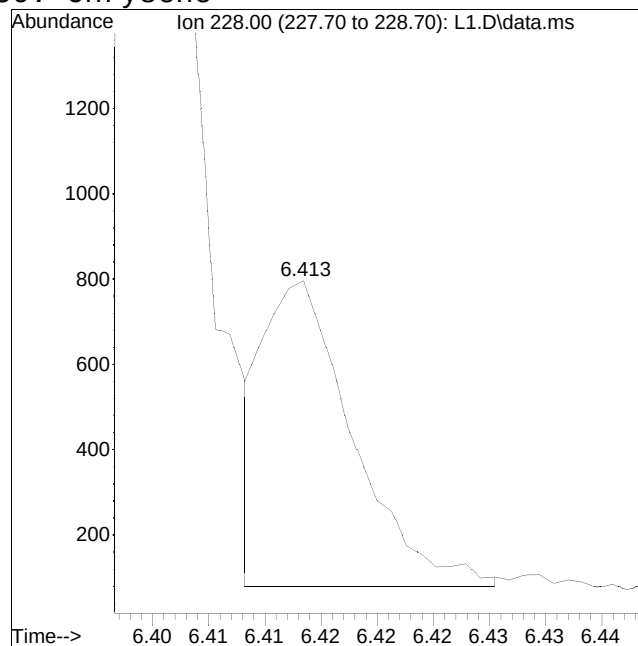
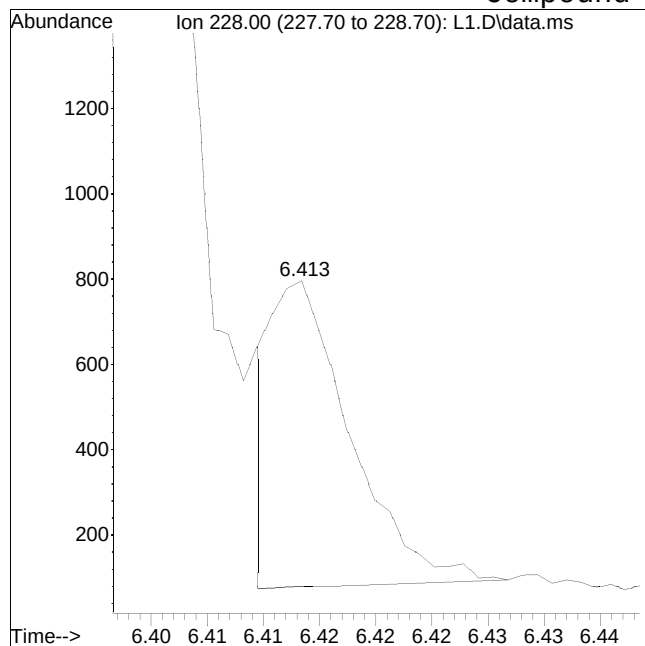


Manual Peak Response = 479 M6

Manual Integration Report

Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L1.D Operator : sv119:slr
Date Inj'd : 6/18/2025 9:03 pm Instrument : SV119
Sample : IL1,32,,0.001 Lot# 11707 Quant Date : 6/18/2025 9:40 pm

Compound #36: Chrysene



Original Peak Response = 354

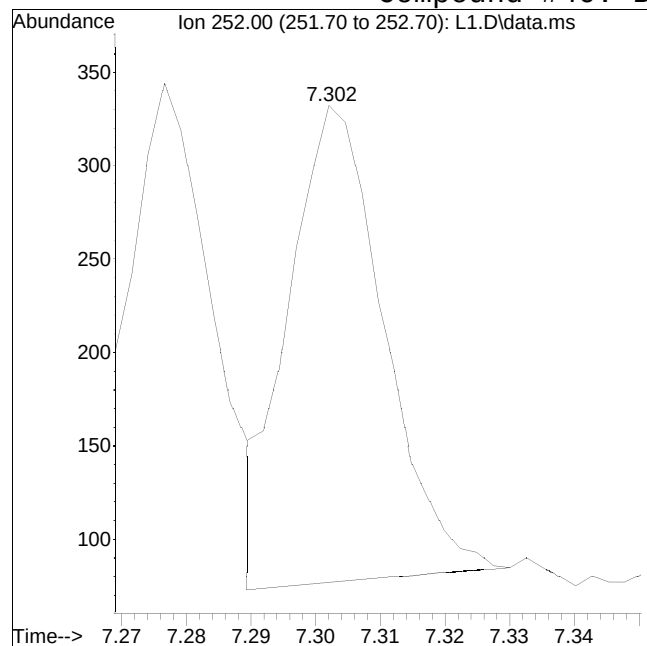
Manual Peak Response = 404 M1

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

Manual Integration Report

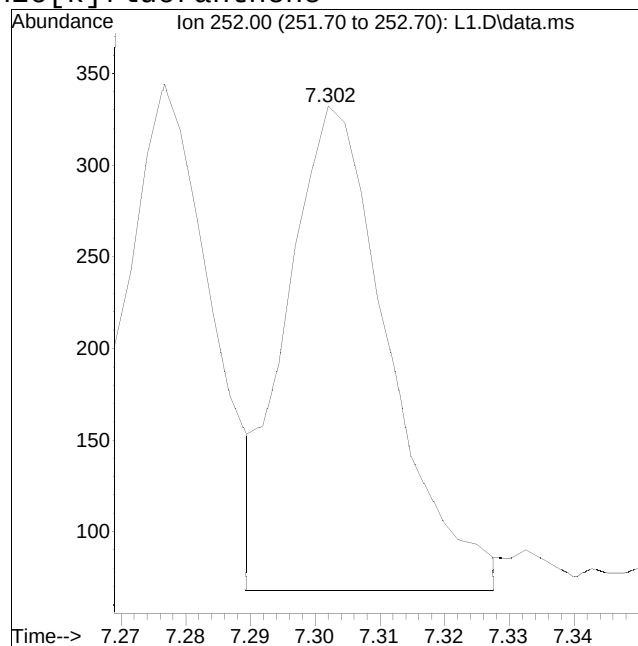
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : L1.D Operator : sv119:slr
Date Inj'd : 6/18/2025 9:03 pm Instrument : SV119
Sample : IL1,32,,0.001 Lot# 11707 Quant Date : 6/18/2025 9:40 pm

Compound #40: Benzo[k]fluoranthene



Original Peak Response = 263

M4 = Poor automated baseline construction.



Manual Peak Response = 287 M4

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : ICV.D
 Acq On : 18 Jun 2025 09:19 pm
 Operator : sv119:slr
 Sample : CQICV1,32,,1 Lot# 11696
 Misc : WG2080956,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 19 10:29:30 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 10:23:45 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
2 T	N-Nitrosodimethylamine	0.662	0.653	1.4	94	0.00
3 s	2-Fluorophenol	1.123	1.213	-8.0	101	0.00
4 s	Phenol-d6	1.459	1.496	-2.5	100	0.00
5 T	Bis(2-chloroethyl)ether	1.177	1.128	4.2	90	0.00
6 T	n-nitrosodi-n-propylamine	0.885	0.849	4.1	91	0.00
7 t	Hexachloroethane	0.531	0.509	4.1	91	0.00
8 s	Nitrobenzene-d5	1.203	1.160	3.6	91	0.00
9 i	Naphthalene-d8	1.000	1.000	0.0	93	0.00
10 t	Naphthalene	1.048	0.995	5.1	91	0.00
11 t	Hexachlorobutadiene	0.208	0.197	5.3	90	0.00
12 t	2-Methylnaphthalene	0.695	0.671	3.5	93	0.00
13 t	1-Methylnaphthalene	0.718	0.684	4.7	91	0.00
14 s	2-Fluorobiphenyl	0.905	0.874	3.4	93	0.00
15 t	2-Chloronaphthalene	0.779	0.741	4.9	90	0.00
16 t	2,6-Dinitrotoluene	0.159	0.150	5.7	89	0.00
17 t	Acenaphthylene	1.296	1.247	3.8	91	0.00
18 i	Acenaphthene-d10	1.000	1.000	0.0	93	0.00
19 t	Acenaphthene	1.329	1.270	4.4	90	0.00
20 t	2,4-Dinitrotoluene	0.353	0.340	3.7	88	0.00
21 t	Fluorene	1.589	1.536	3.3	91	0.00
22 s	2,4,6-Tribromophenol	0.201	0.215	-7.0	99	0.00
23 i	Phenanthrene-d10	1.000	1.000	0.0	94	0.00
24 T	4,6-Dinitro-o-cresol	*1000.000	996.611	0.3	97	0.00
25 t	Hexachlorobenzene	0.248	0.236	4.8	92	0.00
26 t	Pentachlorophenol	*1000.000	941.674	5.8	91	0.00
27 t	Phenanthrene	1.189	1.088	8.5	91	0.00
28 t	Anthracene	1.160	1.120	3.4	91	0.00
29 t	Fluoranthene	1.446	1.386	4.1	93	0.00
30 t	Pyrene	1.492	1.420	4.8	93	0.00
31 T	Benzidine	*1000.000	715.837	28.4	59	0.00
32 s	4-Terphenyl-d14	0.899	0.907	-0.9	96	0.00
33 i	Chrysene-d12	1.000	1.000	0.0	98	0.00
34 t	Benzo[a]anthracene	*1000.000	950.929	4.9	92	0.00
35 t	3,3'-Dichlorobenzidine	0.522	0.505	3.3	89	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : ICV.D
 Acq On : 18 Jun 2025 09:19 pm
 Operator : sv119:slr
 Sample : CQICV1,32,,1 Lot# 11696
 Misc : WG2080956,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 19 10:29:30 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 10:23:45 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36 t	Chrysene	1.315	1.284	2.4	95	0.00
37 T	Bis(2-ethylhexyl)phthalate	*1000.000	798.190	20.2	86	0.00
38 i	Perylene-d12	1.000	1.000	0.0	97	0.00
39 t	Benzo[b]fluoranthene	1.206	1.182	2.0	88	0.00
40 t	Benzo[k]fluoranthene	1.273	1.378	-8.2	97	0.00
41 t	Benzo[a]pyrene	1.097	1.119	-2.0	89	0.00
42 t	Indeno[1,2,3-cd]pyrene	*1000.000	720.479	28.0	72	0.00
43 t	Dibenzo[a,h]anthracene	*1000.000	777.960	22.2	77	0.00
44 t	Benzo[g,h,i]perylene	*1000.000	866.845	13.3	86	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\250618RVTical\
 Data File : ICV.D
 Acq On : 18 Jun 2025 09:19 pm
 Operator : sv119:slr
 Sample : CQICV1,32,,1 Lot# 11696
 Misc : WG2080956,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 19 10:29:30 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 10:23:45 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.330	152	264344	4000.000	ng/ml	0.00
Standard Area 1 = 283024			Recovery = 93.40%			
9) Naphthalene-d8	2.999	136	990142	4000.000	ng/ml	0.00
Standard Area 1 = 1065169			Recovery = 92.96%			
18) Acenaphthene-d10	3.981	164	591092	4000.000	ng/ml	0.00
Standard Area 1 = 633894			Recovery = 93.25%			
23) Phenanthrene-d10	4.823	188	1293806	4000.000	ng/ml	0.00
Standard Area 1 = 1369725			Recovery = 94.46%			
33) Chrysene-d12	6.401	240	1270687	4000.000	ng/ml	0.00
Standard Area 1 = 1297109			Recovery = 97.96%			
38) Perylene-d12	7.679	264	1226646	4000.000	ng/ml	0.00
Standard Area 1 = 1258930			Recovery = 97.44%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.735	112	80193	1080.132	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 54.01%			
4) Phenol-d6	2.134	99	98876	1025.712	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.29%			
8) Nitrobenzene-d5	2.611	82	76670	964.151	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 96.42%			
14) 2-Fluorobiphenyl	3.598	172	216409	966.029	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 96.60%			
22) 2,4,6-Tribromophenol	4.426	330	31729	1070.040	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.50%			
32) 4-Terphenyl-d14	5.741	244	293412	1008.650	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 100.87%			
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.290	74	43143	986.600	ng/mL	95
5) Bis(2-chloroethyl)ether	2.191	93	74522	957.942	ng/ml	100
6) n-nitrosodi-n-propylamine	2.530	70	56112	959.430	ng/ml	100
7) Hexachloroethane	2.592	117	33605	957.770	ng/ml	99
10) Naphthalene	3.011	128	246391	949.755	ng/ml	100
11) Hexachlorobutadiene	3.083	225	48660	947.305	ng/ml	100
12) 2-Methylnaphthalene	3.393	142	166175	965.997	ng/ml	100
13) 1-Methylnaphthalene	3.448	142	169347	952.252	ng/ml	100
15) 2-Chloronaphthalene	3.665	162	183338	950.319	ng/ml	100
16) 2,6-Dinitrotoluene	3.855	165	37081	944.978	ng/ml	96
17) Acenaphthylene	3.898	152	308774	962.838	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : ICV.D
 Acq On : 18 Jun 2025 09:19 pm
 Operator : sv119:slr
 Sample : CQICV1,32,,1 Lot# 11696
 Misc : WG2080956,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 19 10:29:30 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 10:23:45 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250618RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	3.999	153	187722	956.124	ng/ml	99
20)	2,4-Dinitrotoluene	4.083	165	50216	963.842	ng/ml	97
21)	Fluorene	4.289	166	227045	966.633	ng/ml	100
24)	4,6-Dinitro-o-cresol	4.313	198	28403	996.611	ng/ml	98
25)	Hexachlorobenzene	4.607	284	76191	951.454	ng/ml	99
26)	Pentachlorophenol	4.716	266	34113	941.674	ng/ml	100
27)	Phenanthrene	4.836	178	351900	915.240	ng/ml	100
28)	Anthracene	4.864	178	362255	965.755	ng/ml	100
29)	Fluoranthene	5.517	202	448243	958.486	ng/ml	100
30)	Pyrene	5.650	202	459332	951.926	ng/ml	100
31)	Benzydine	5.592	184	125511	715.837	ng/mL	100
34)	Benzo[a]anthracene	6.393	228	425906	950.929	ng/ml	100
35)	3,3'-Dichlorobenzidine	6.374	252	160402	966.708	ng/ml	100
36)	Chrysene	6.418	228	407877	976.386	ng/ml	99
37)	Bis(2-ethylhexyl)phtha...	6.416	149	194001	798.190	ng/ml	100
39)	Benzo[b]fluoranthene	7.283	252	362589	980.793	ng/ml	98
40)	Benzo[k]fluoranthene	7.308	252	422560M1	1082.321	ng/ml	
41)	Benzo[a]pyrene	7.611	252	343068	1019.706	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.968	276	252954	720.479	ng/ml	98
43)	Dibenzo[a,h]anthracene	9.006	278	261012M6	777.960	ng/ml	
44)	Benzo[g,h,i]perylene	9.327	276	312375	866.845	ng/ml	99

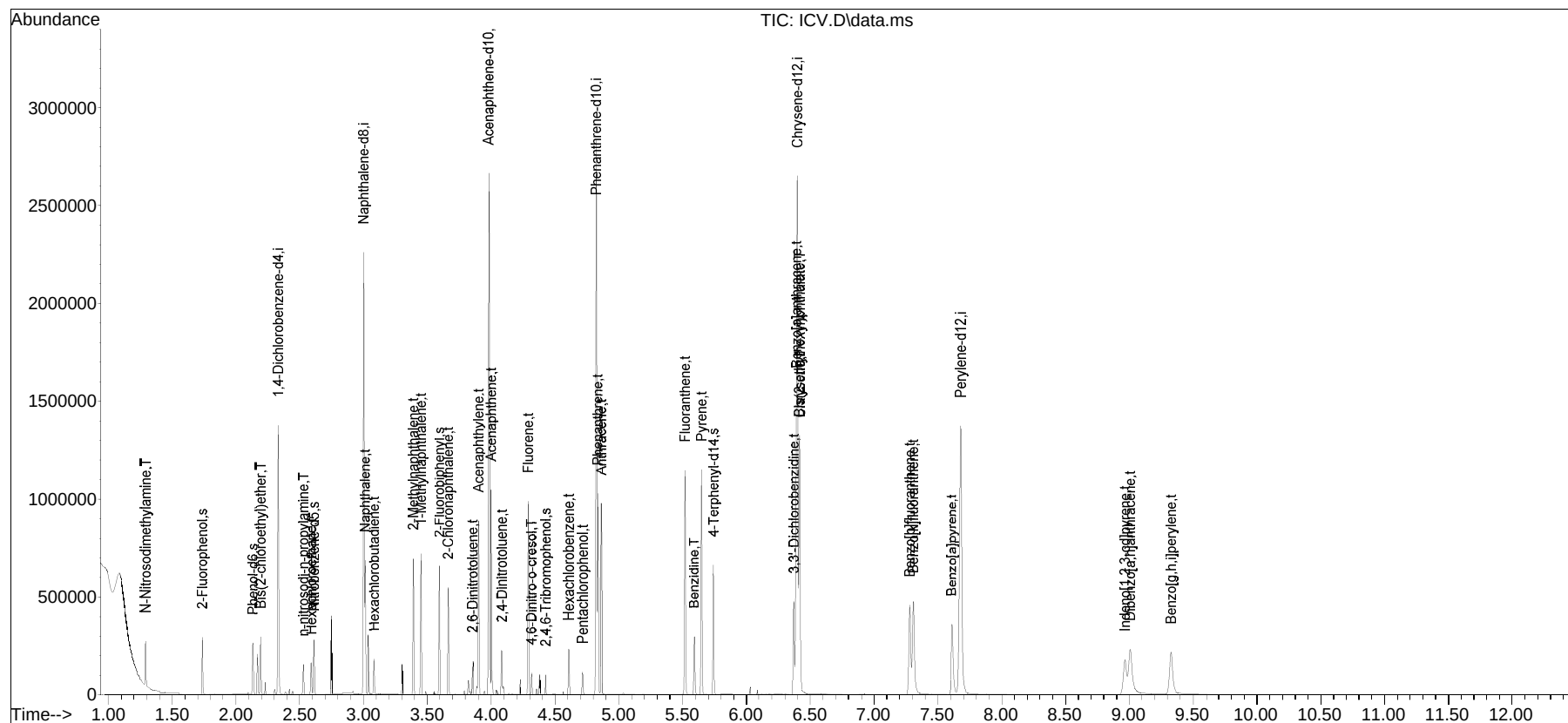
(#) = qualifier out of range (m) = manual integration (+) = signals summed

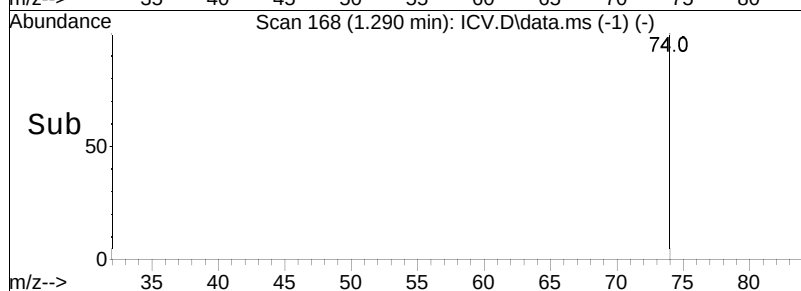
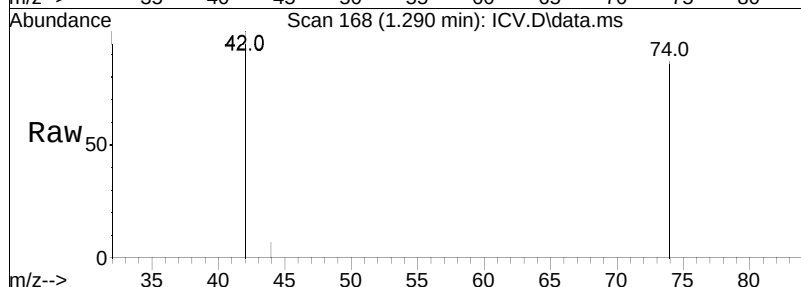
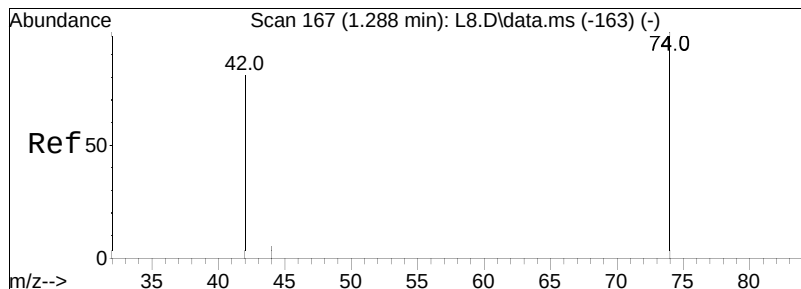
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250618RVTical\
 Data File : ICV.D
 Acq On : 18 Jun 2025 09:19 pm
 Operator : sv119:slr
 Sample : CQICV1,32,,1 Lot# 11696
 Misc : WG2080956,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 19 10:29:30 2025
 Quant Method : I:\8270SIM\sv119\250618RVTical\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 10:23:45 2025
 Response via : Initial Calibration

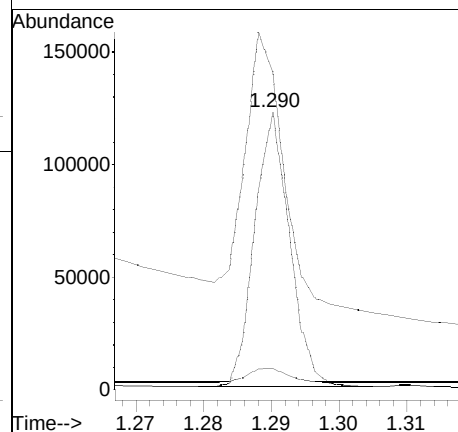
Sub List : Default - All compounds listedical\L8.D•

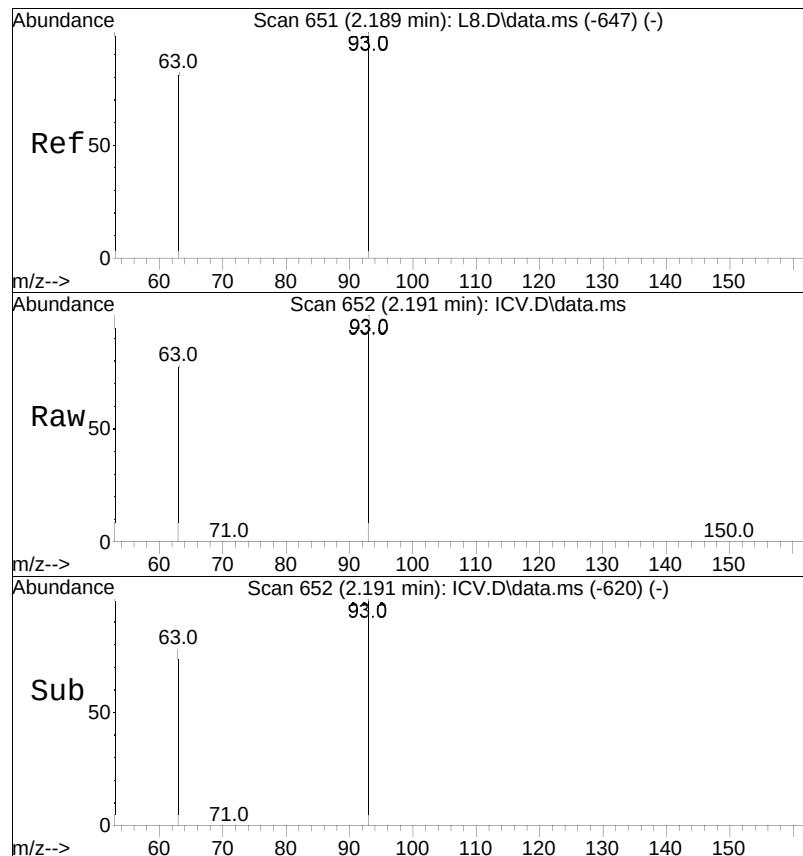




#2
 N-Nitrosodimethylamine
 Concen: 986.60 ng/mL
 RT: 1.290 min Scan# 168
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

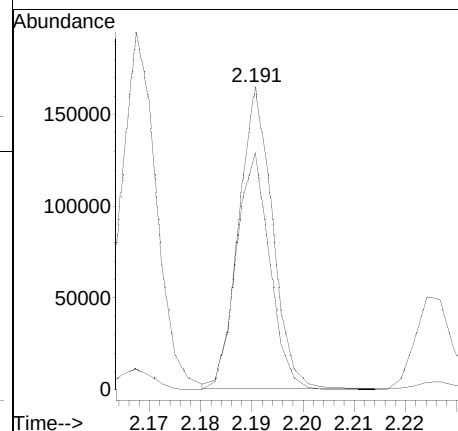
Tgt Ion: 74 Resp: 43143
 Ion Ratio Lower Upper
 74 100
 42 378.3 293.4 440.0
 44 5.3 4.3 6.5

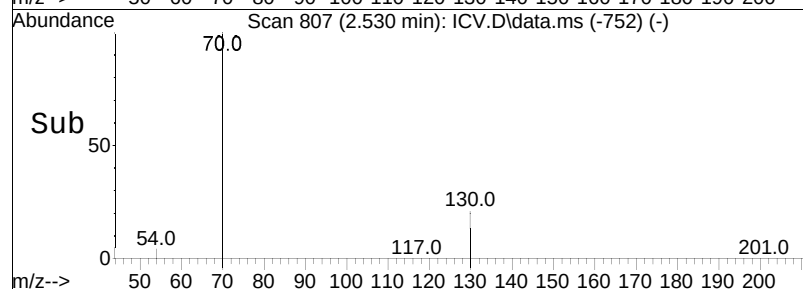
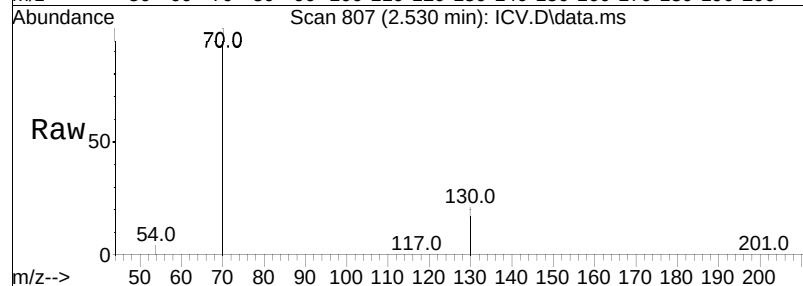
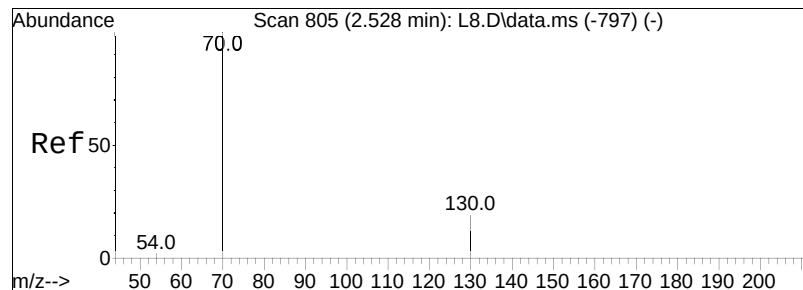




#5
 Bis(2-chloroethyl)ether
 Concen: 957.94 ng/ml
 RT: 2.191 min Scan# 652
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

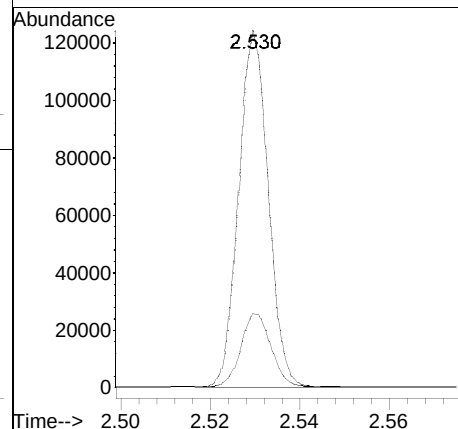
Tgt Ion	Ratio	Lower	Upper
93	100		
63	79.0	62.9	94.3

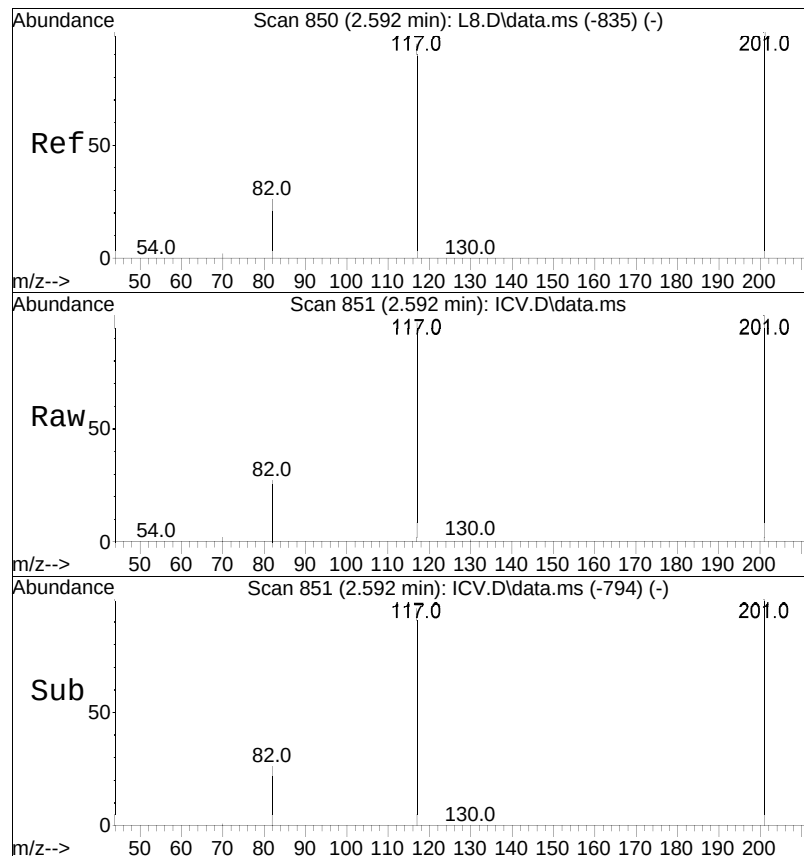




#6
 n-nitrosodi-n-propylamine
 Concen: 959.43 ng/ml
 RT: 2.530 min Scan# 807
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

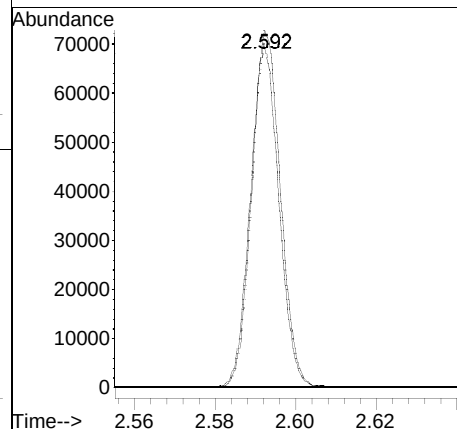
Tgt Ion	Ratio	Lower	Upper
70	100		
130	20.6	16.4	24.6

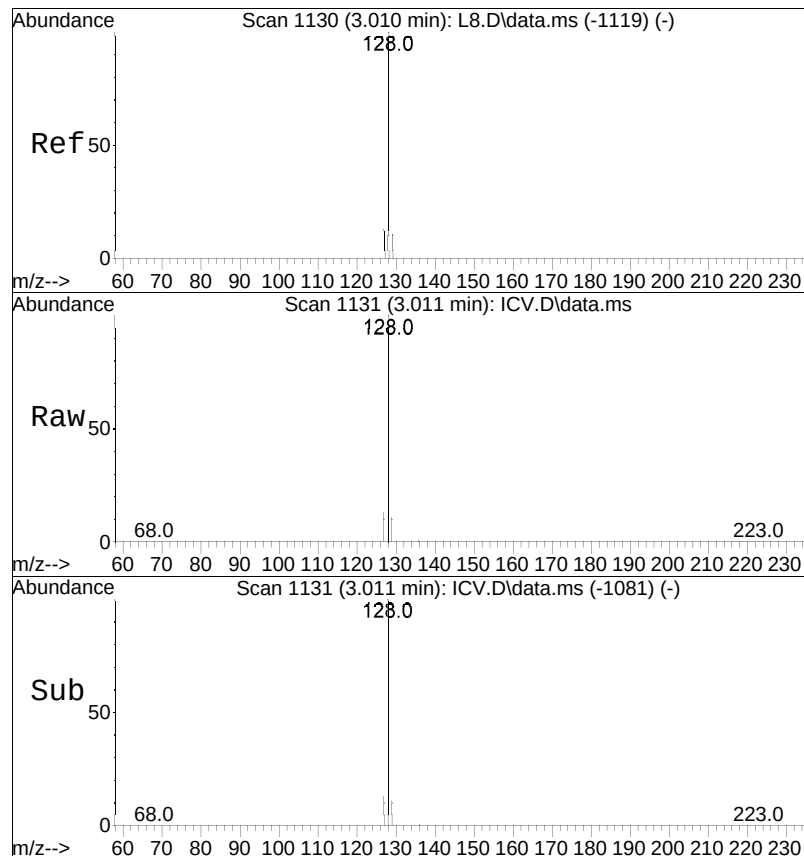




#7
 Hexachloroethane
 Concen: 957.77 ng/ml
 RT: 2.592 min Scan# 851
 Delta R.T. 0.000 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

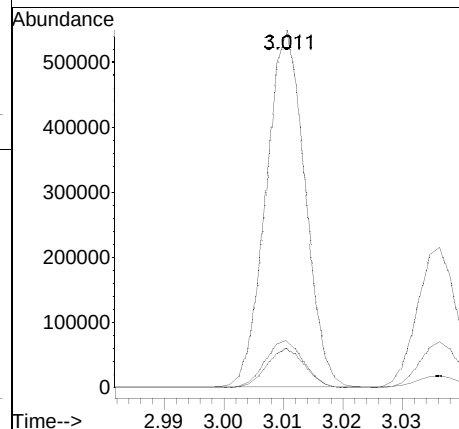
Tgt Ion	Ratio	Lower	Upper
117	100		
201	105.1	82.9	124.3

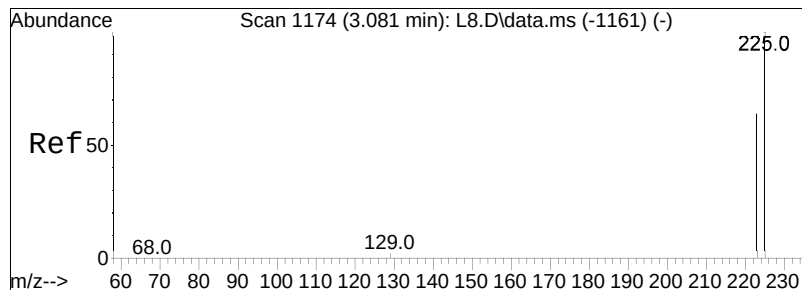




#10
 Naphthalene
 Concen: 949.76 ng/ml
 RT: 3.011 min Scan# 1131
 Delta R.T. 0.001 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

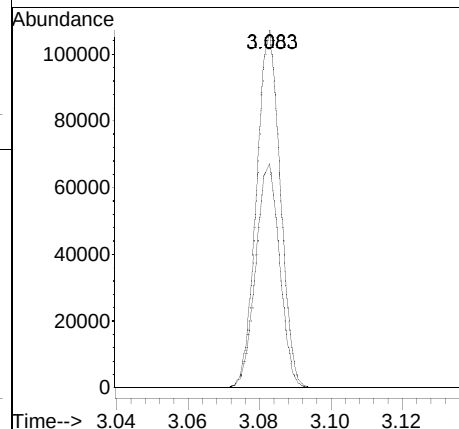
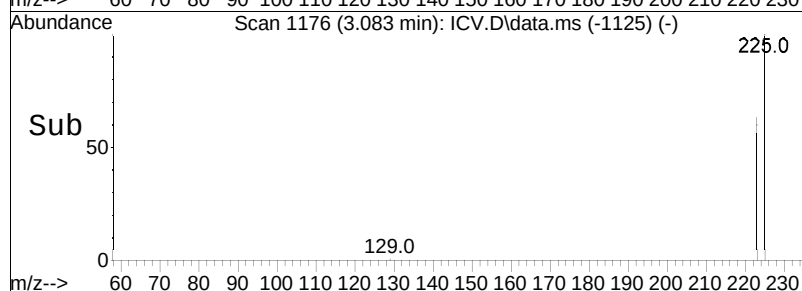
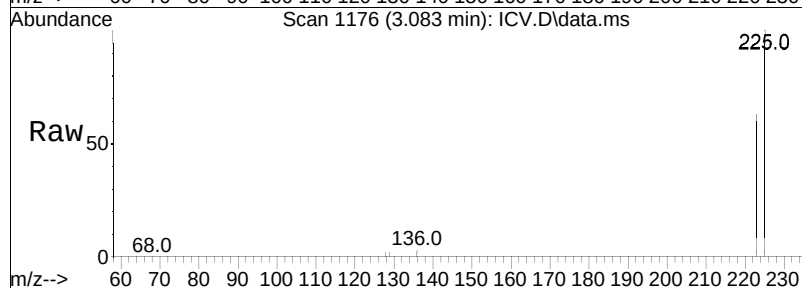
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	246391		
129	11.0		8.8	13.2
127	13.2		10.6	15.8

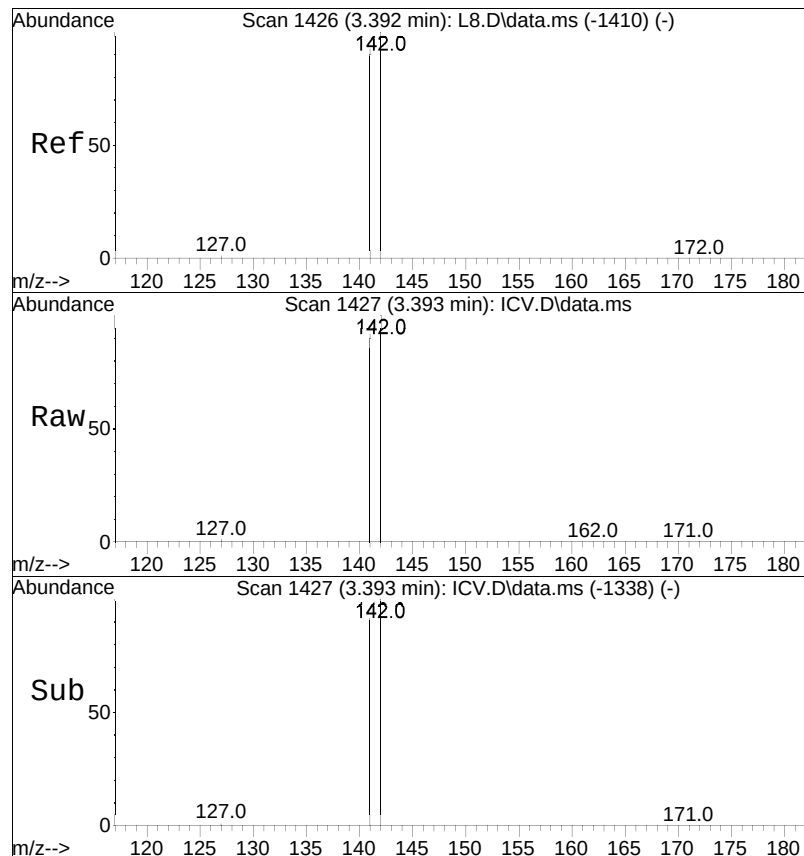




#11
 Hexachlorobutadiene
 Concen: 947.30 ng/ml
 RT: 3.083 min Scan# 1176
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

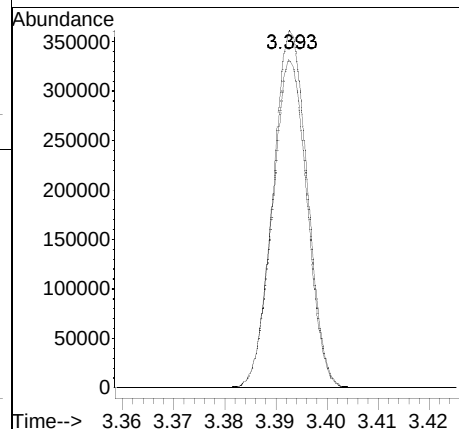
Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.4

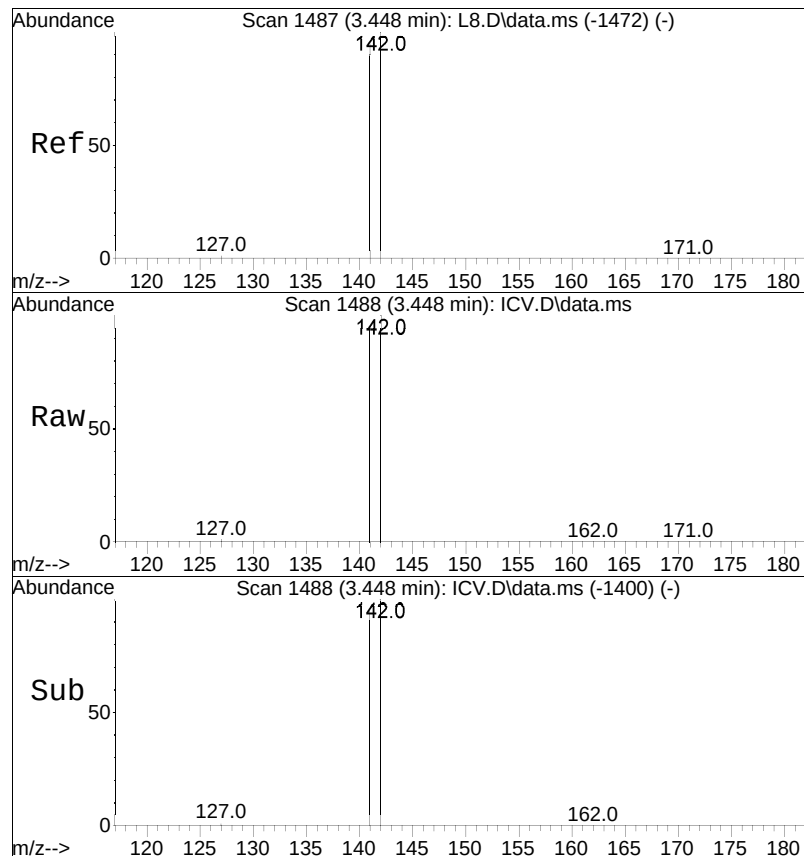




#12
 2-Methylnaphthalene
 Concen: 966.00 ng/ml
 RT: 3.393 min Scan# 1427
 Delta R.T. 0.001 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

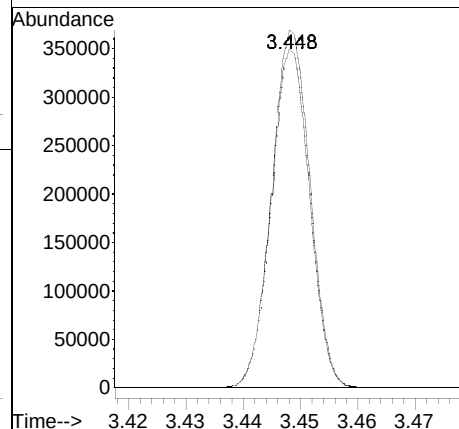
Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.6	110.4

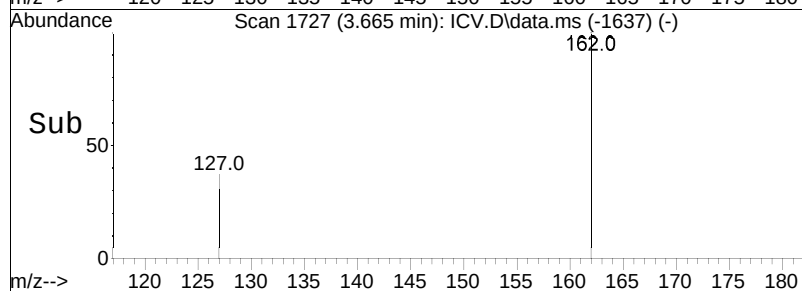
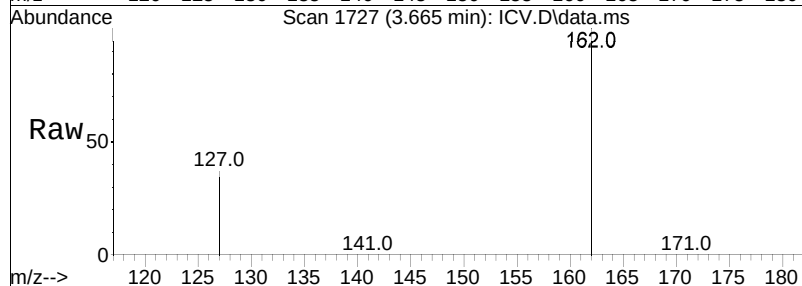
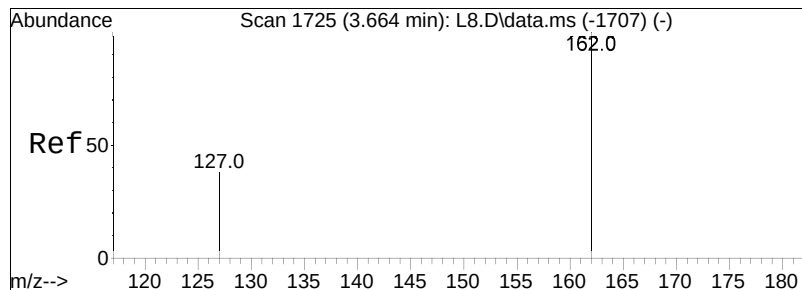




#13
 1-Methylnaphthalene
 Concen: 952.25 ng/ml
 RT: 3.448 min Scan# 1488
 Delta R.T. 0.000 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

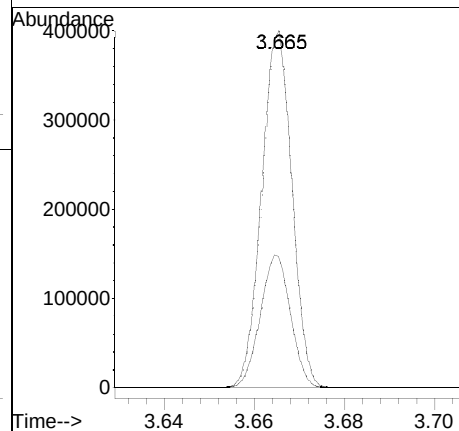
Tgt Ion	Ratio	Lower	Upper
142	100		
141	95.0	76.0	114.0

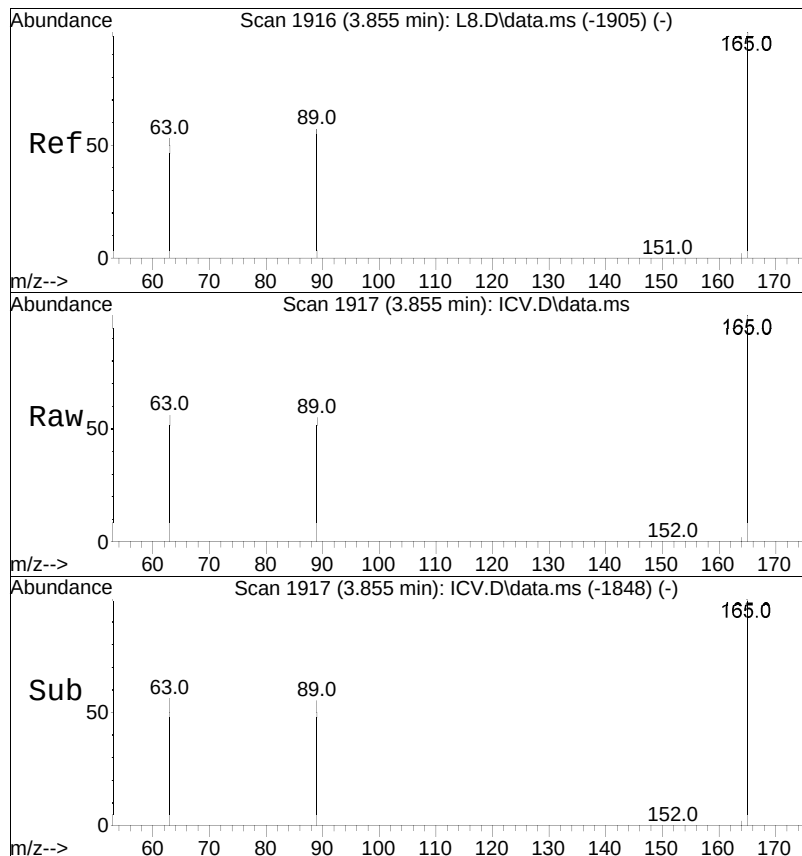




#15
 2-Chloronaphthalene
 Concen: 950.32 ng/ml
 RT: 3.665 min Scan# 1727
 Delta R.T. 0.001 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

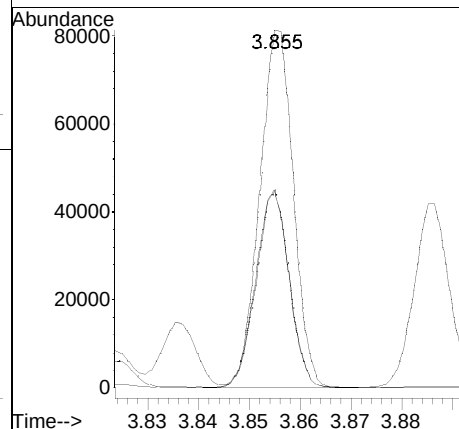
Tgt Ion	Ratio	Lower	Upper
162	100		
127	37.3	29.8	44.8

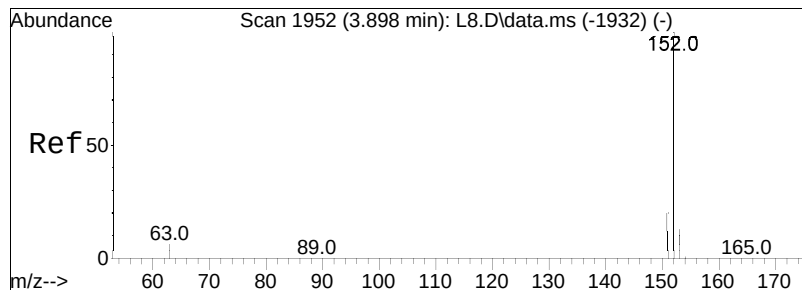




#16
 2,6-Dinitrotoluene
 Concen: 944.98 ng/ml
 RT: 3.855 min Scan# 1917
 Delta R.T. -0.000 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

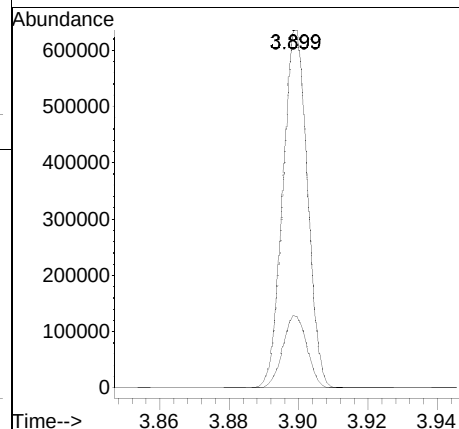
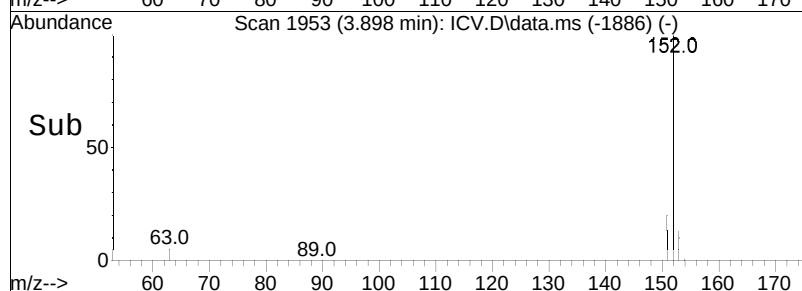
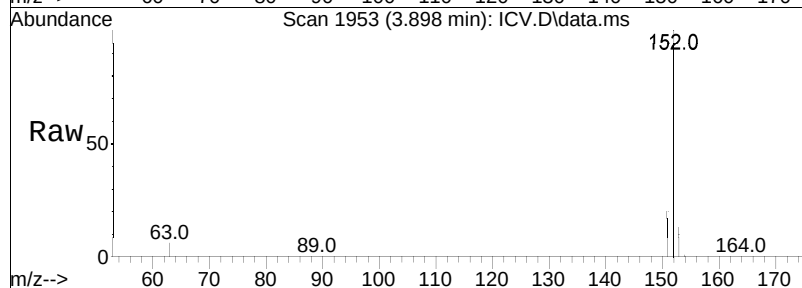
Tgt Ion:	165	Resp:	37081
Ion Ratio	Lower	Upper	
165	100		
89	54.0	45.6	68.4
63	54.6	45.4	68.2

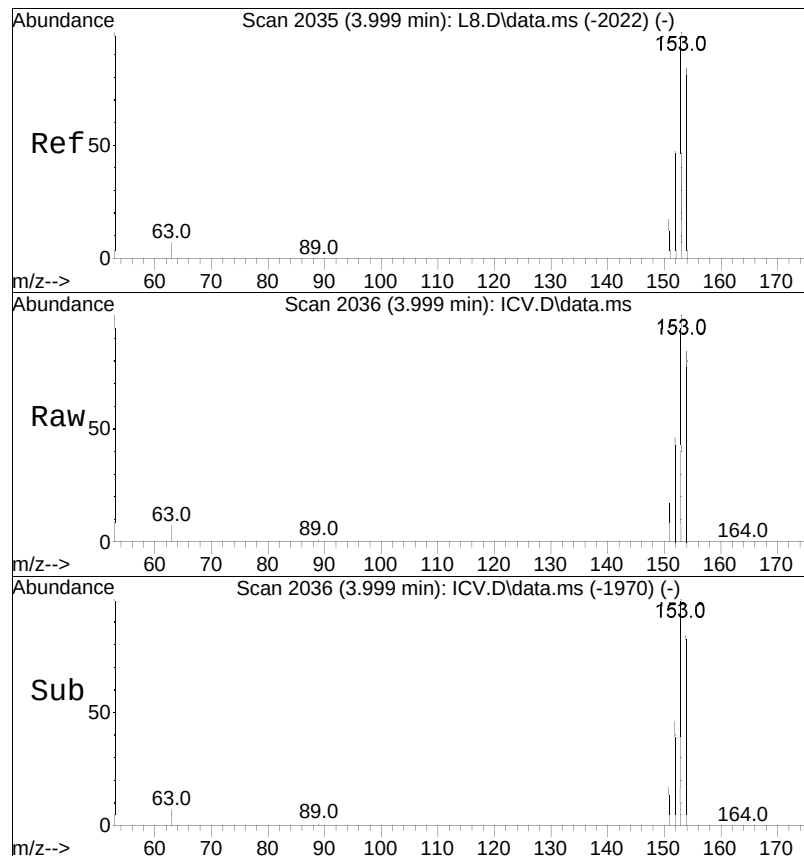




#17
 Acenaphthylene
 Concen: 962.84 ng/ml
 RT: 3.898 min Scan# 1953
 Delta R.T. 0.000 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

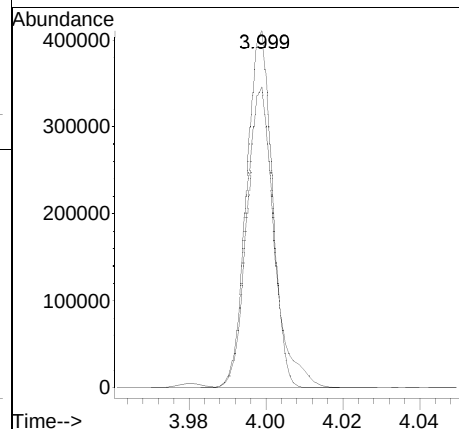
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2

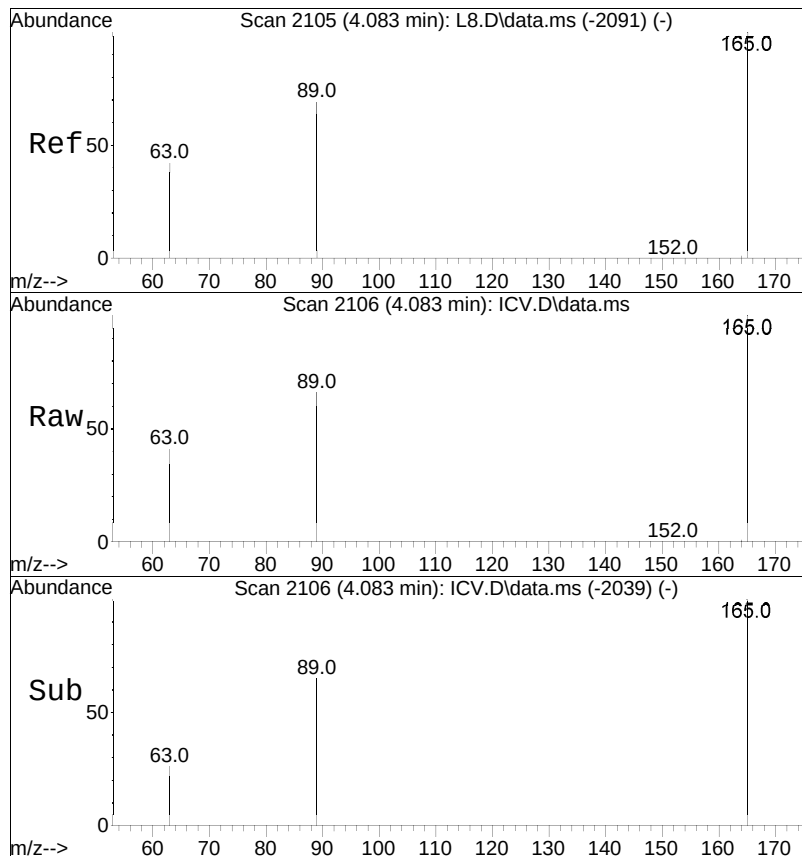




#19
 Acenaphthene
 Concen: 956.12 ng/ml
 RT: 3.999 min Scan# 2036
 Delta R.T. -0.000 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

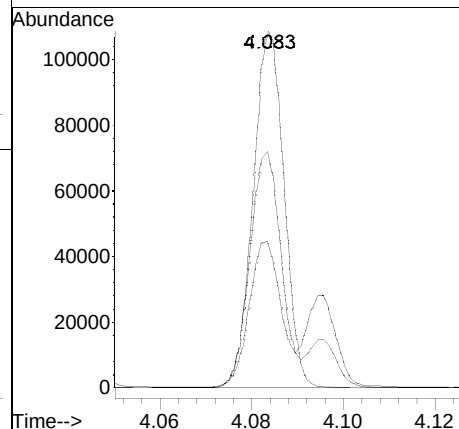
Tgt Ion	Ratio	Lower	Upper
153	100		
154	90.6	72.0	108.0

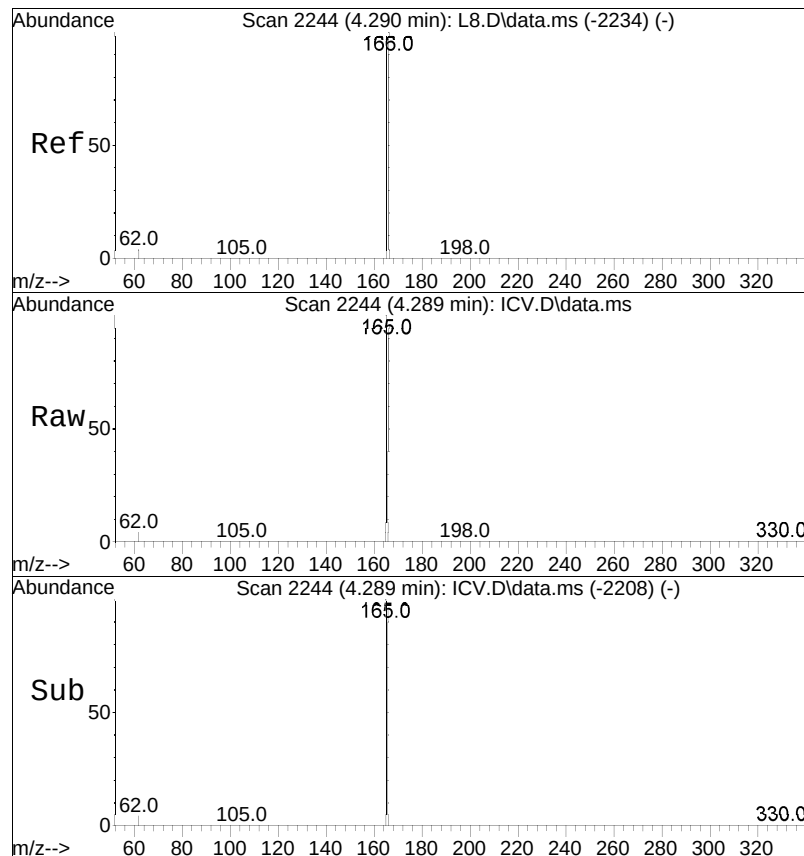




#20
 2,4-Dinitrotoluene
 Concen: 963.84 ng/ml
 RT: 4.083 min Scan# 2106
 Delta R.T. 0.000 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

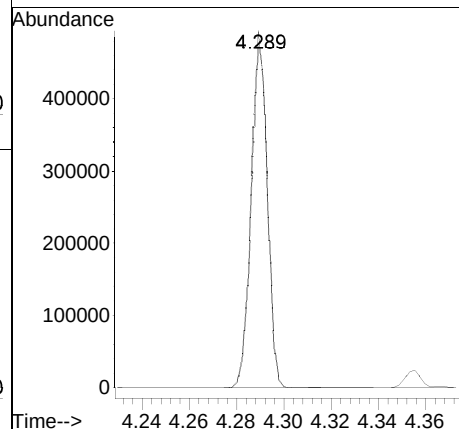
Tgt Ion:	165	Resp:	50216
Ion Ratio	Lower	Upper	
165	100		
89	67.6	56.6	85.0
63	42.6	35.0	52.6

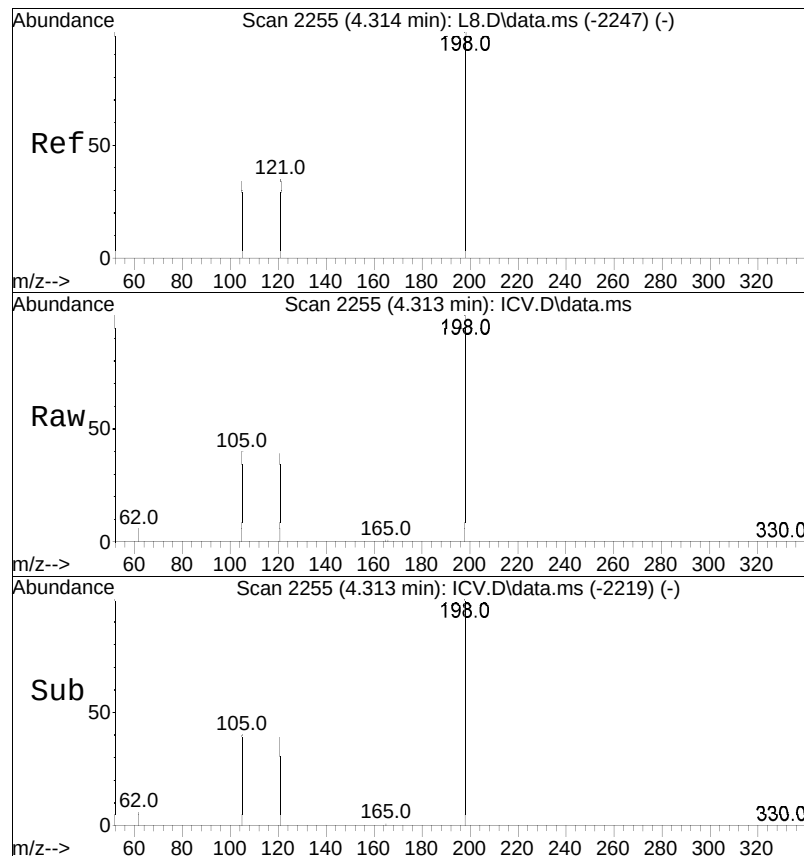




#21
 Fluorene
 Concen: 966.63 ng/ml
 RT: 4.289 min Scan# 2244
 Delta R.T. -0.001 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

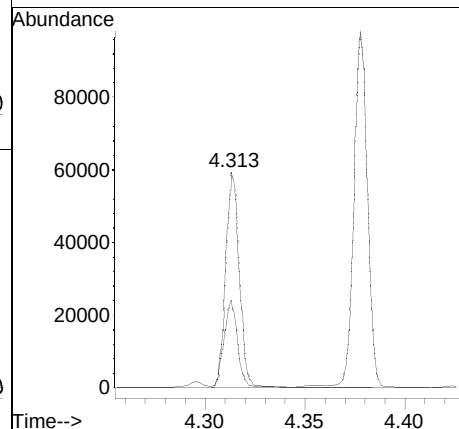
Tgt Ion	Ratio	Lower	Upper
166	100		
165	102.0	81.5	122.3

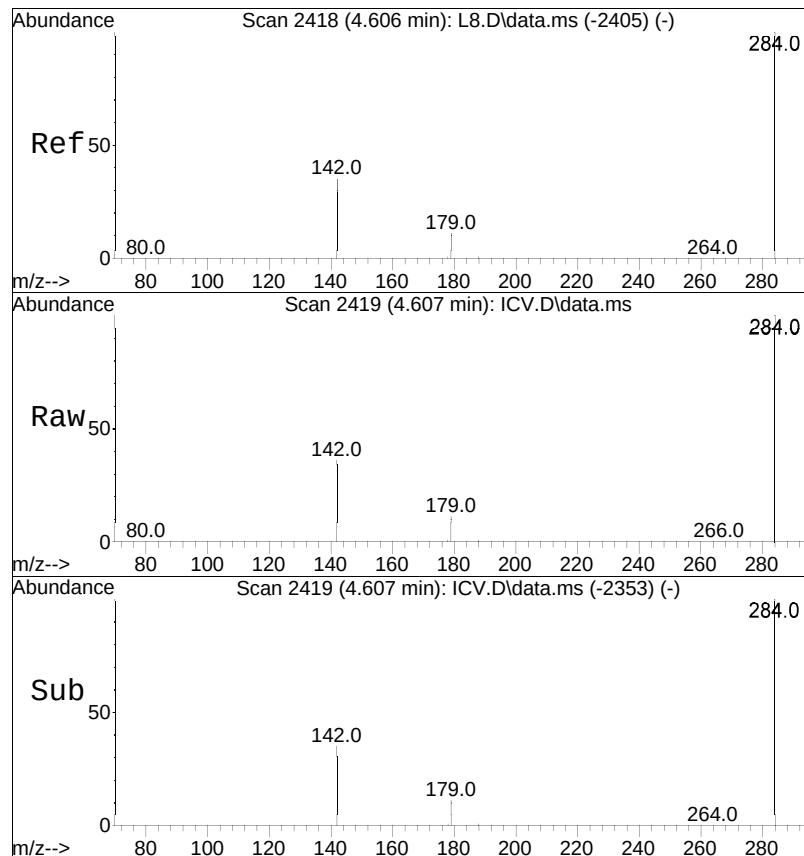




#24
 4,6-Dinitro-o-cresol
 Concen: 996.61 ng/ml
 RT: 4.313 min Scan# 2255
 Delta R.T. -0.001 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

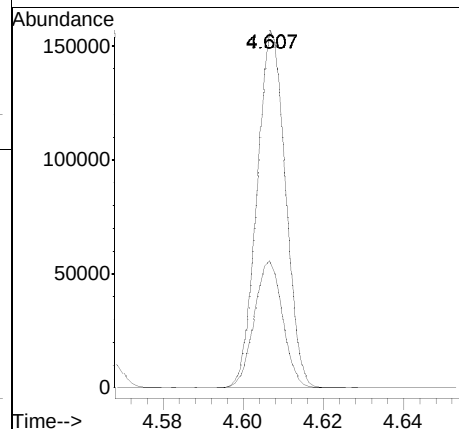
Tgt Ion	Ratio	Lower	Upper
198	100		
105	39.1	32.1	48.1

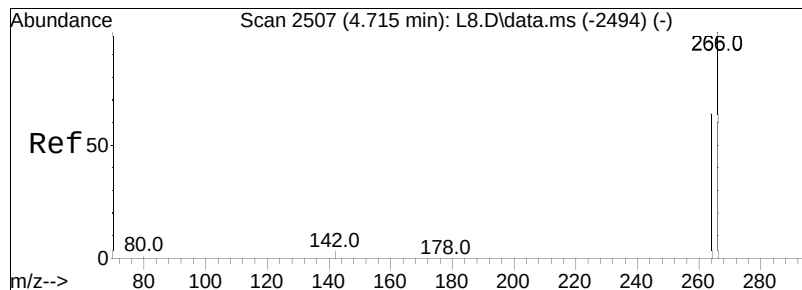




#25
 Hexachlorobenzene
 Concen: 951.45 ng/ml
 RT: 4.607 min Scan# 2419
 Delta R.T. 0.001 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.5	28.8	43.2





#26

Pentachlorophenol

Concen: 941.67 ng/ml

RT: 4.716 min Scan# 2508

Delta R.T. 0.001 min

Lab File: ICV.D

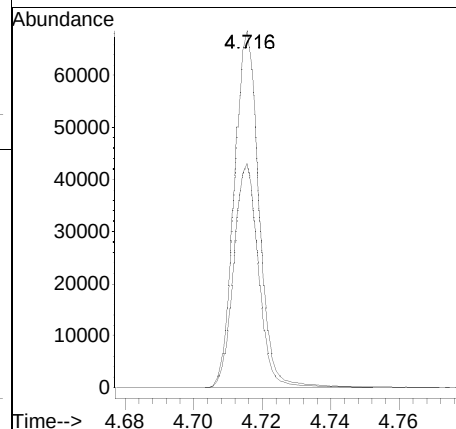
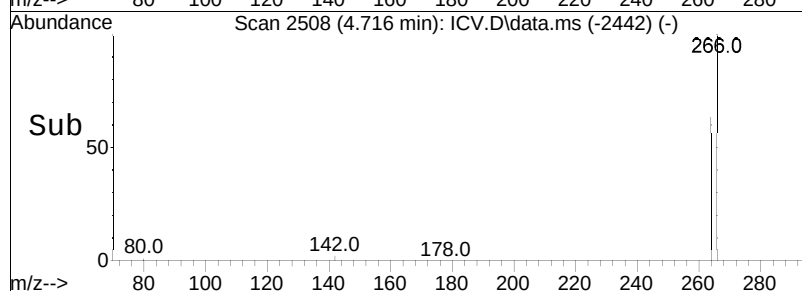
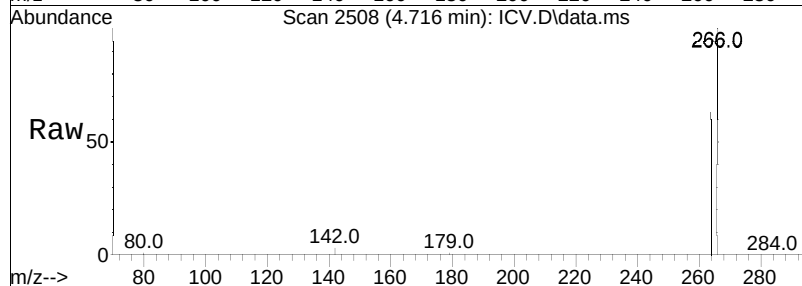
Acq: 18 Jun 2025 09:19 pm

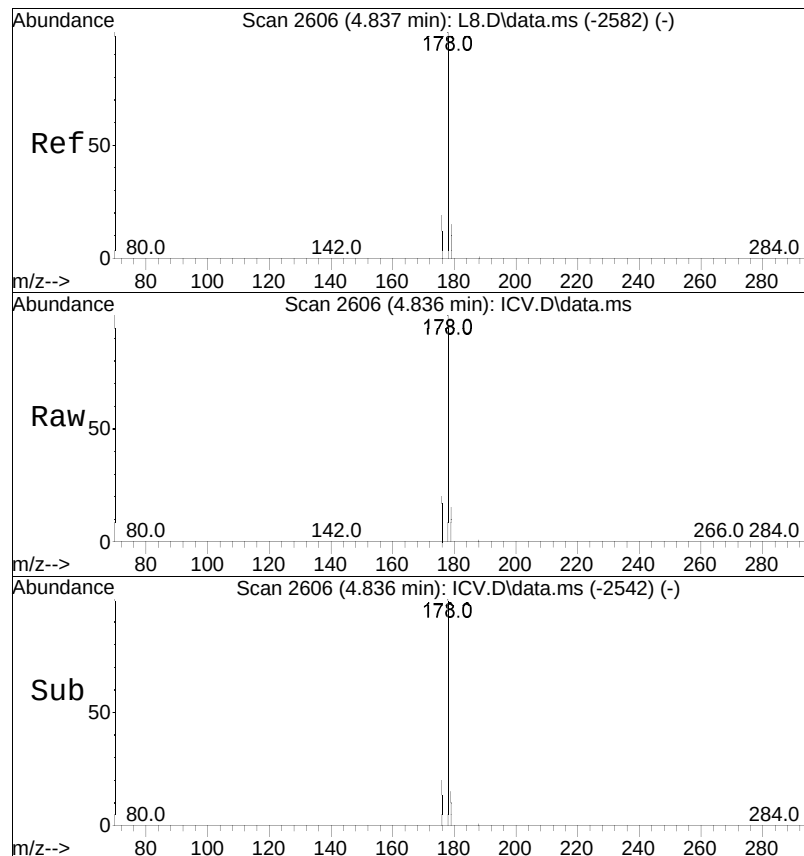
Tgt Ion: 266 Resp: 34113

Ion Ratio Lower Upper

266 100

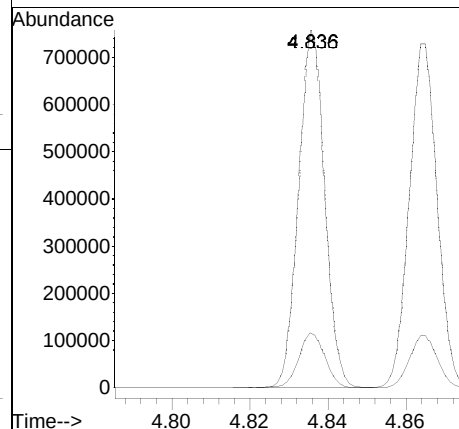
264 63.2 50.6 76.0

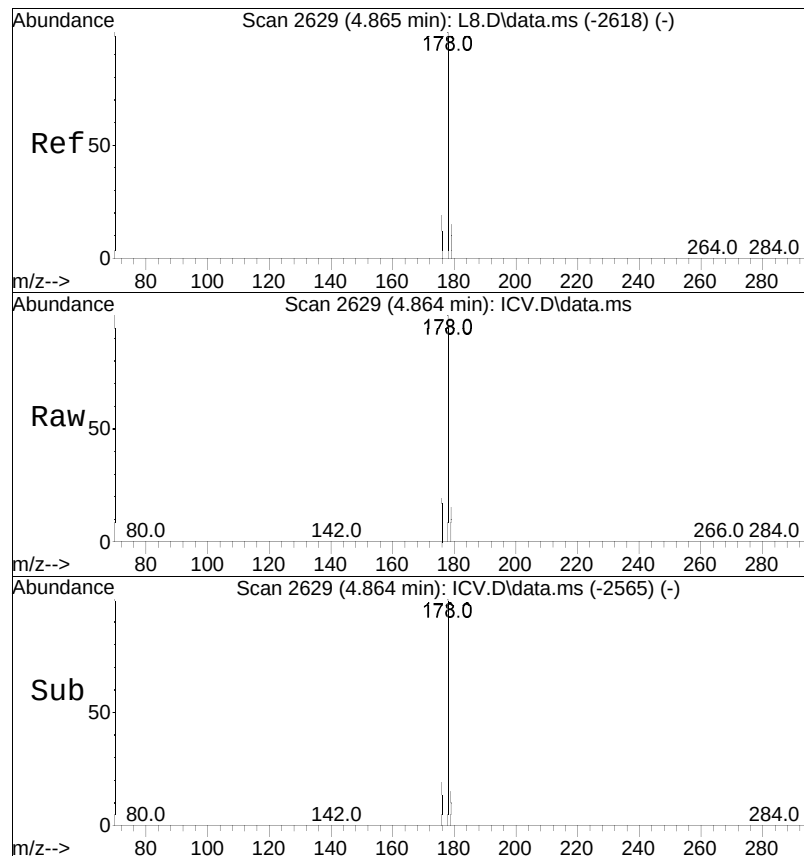




#27
 Phenanthrene
 Concen: 915.24 ng/ml
 RT: 4.836 min Scan# 2606
 Delta R.T. -0.001 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

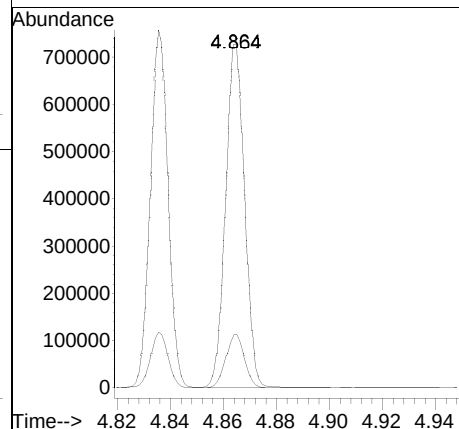
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.4	18.6

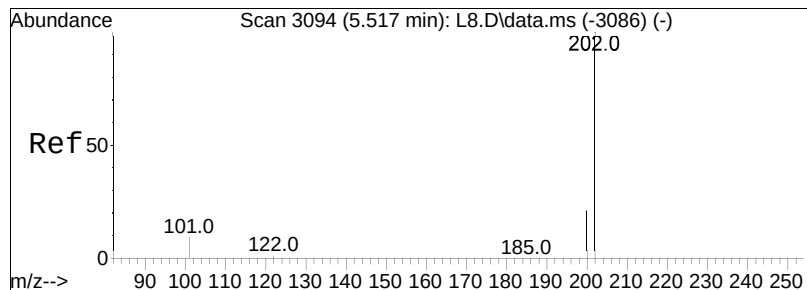




#28
 Anthracene
 Concen: 965.76 ng/ml
 RT: 4.864 min Scan# 2629
 Delta R.T. -0.001 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

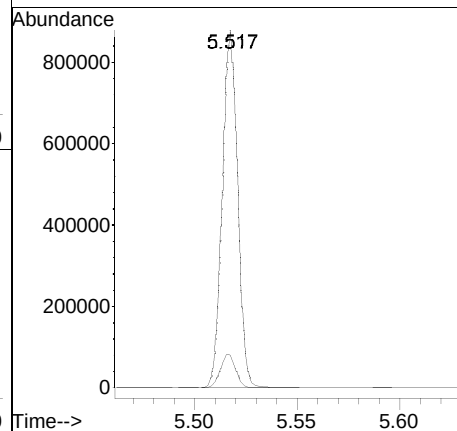
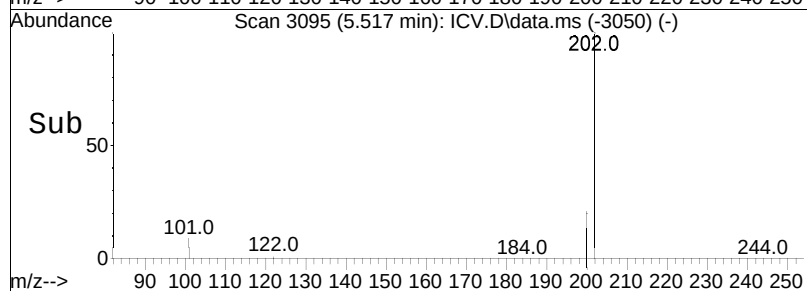
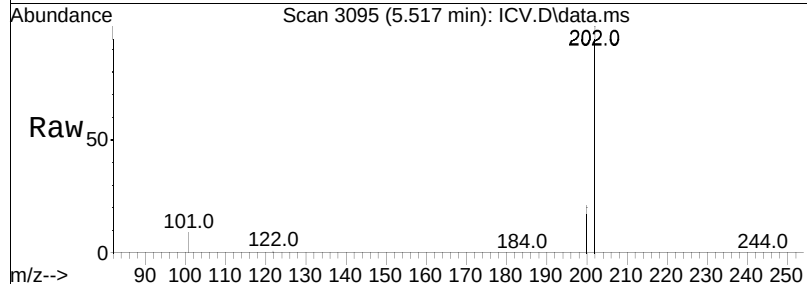
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.2	18.2

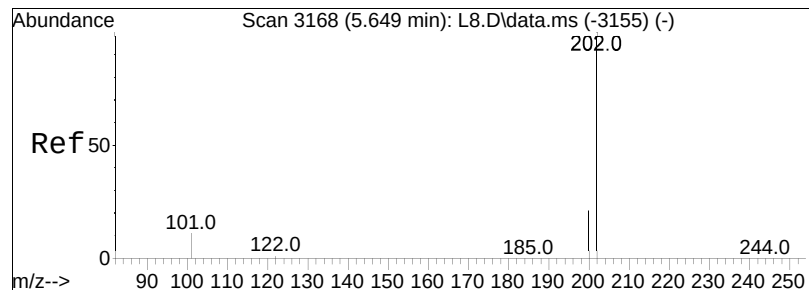




#29
 Fluoranthene
 Concen: 958.49 ng/ml
 RT: 5.517 min Scan# 3095
 Delta R.T. 0.000 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

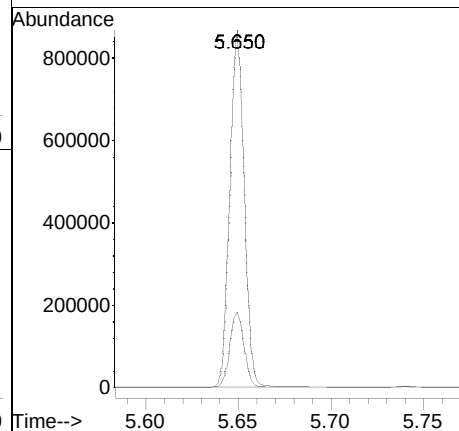
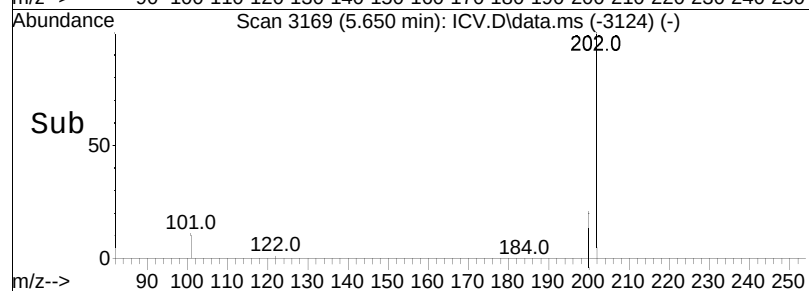
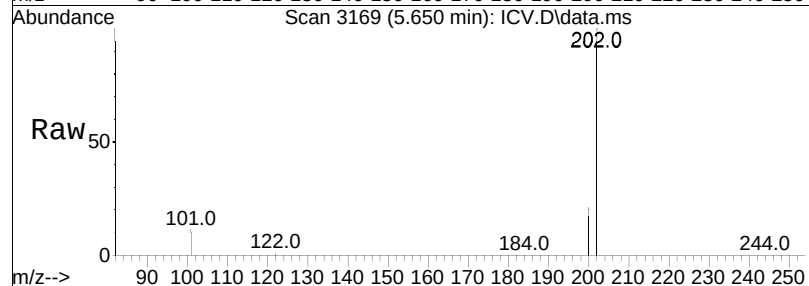
Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.5	11.3

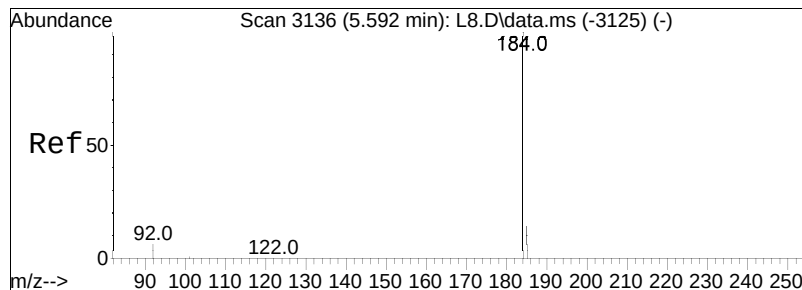




#30
 Pyrene
 Concen: 951.93 ng/ml
 RT: 5.650 min Scan# 3169
 Delta R.T. 0.001 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

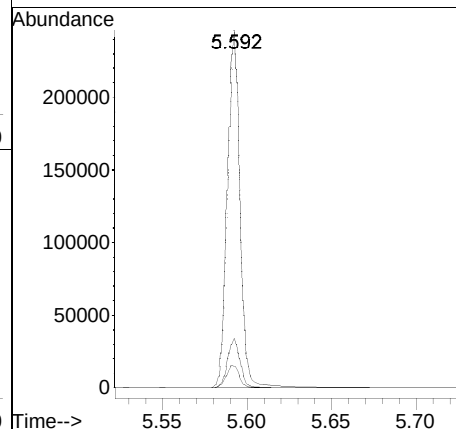
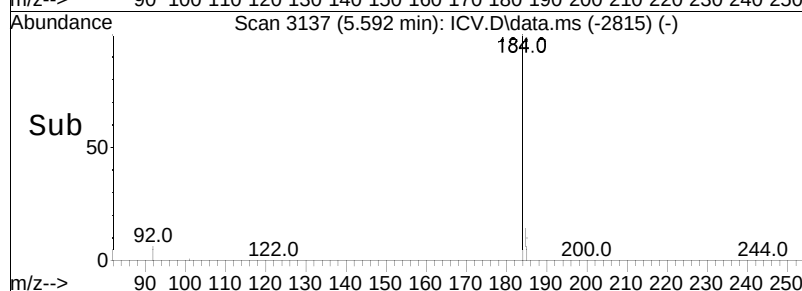
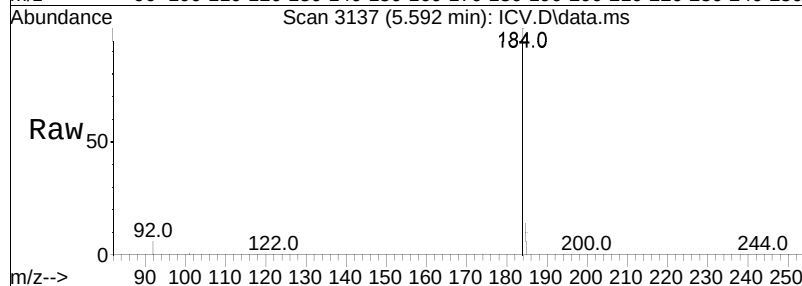
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4

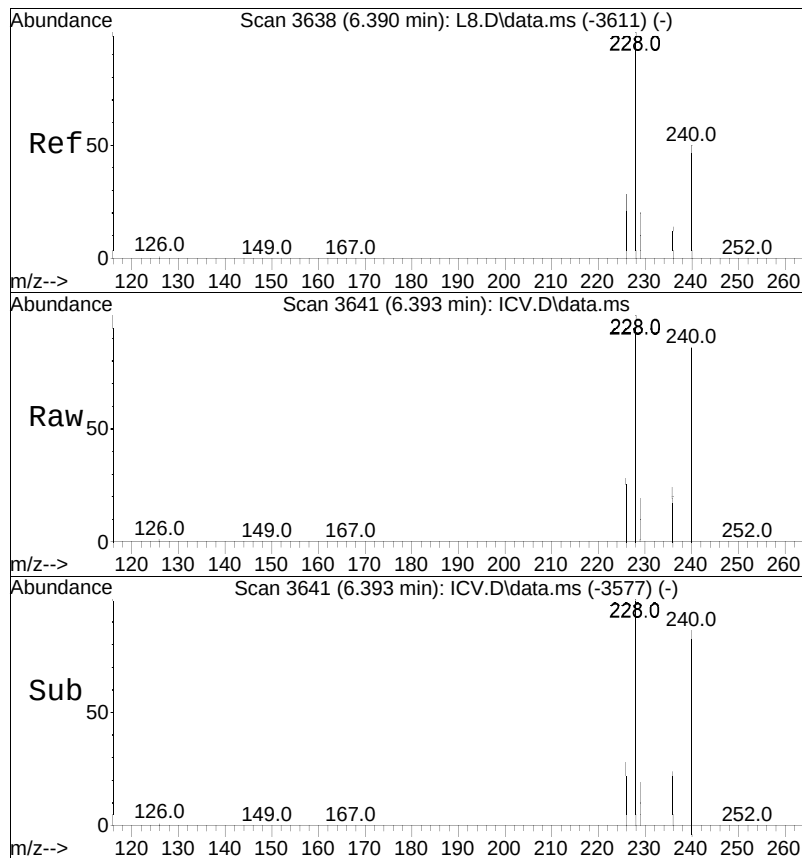




#31
Benzidine
Concen: 715.84 ng/mL
RT: 5.592 min Scan# 3137
Delta R.T. 0.000 min
Lab File: ICV.D
Acq: 18 Jun 2025 09:19 pm

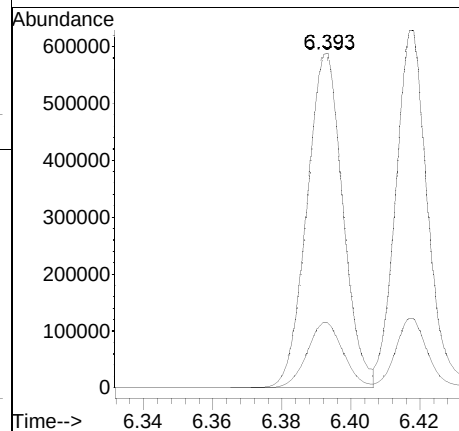
Tgt Ion	Ratio	Lower	Upper
184	100		
92	6.5	5.2	7.8
185	13.9	11.2	16.8

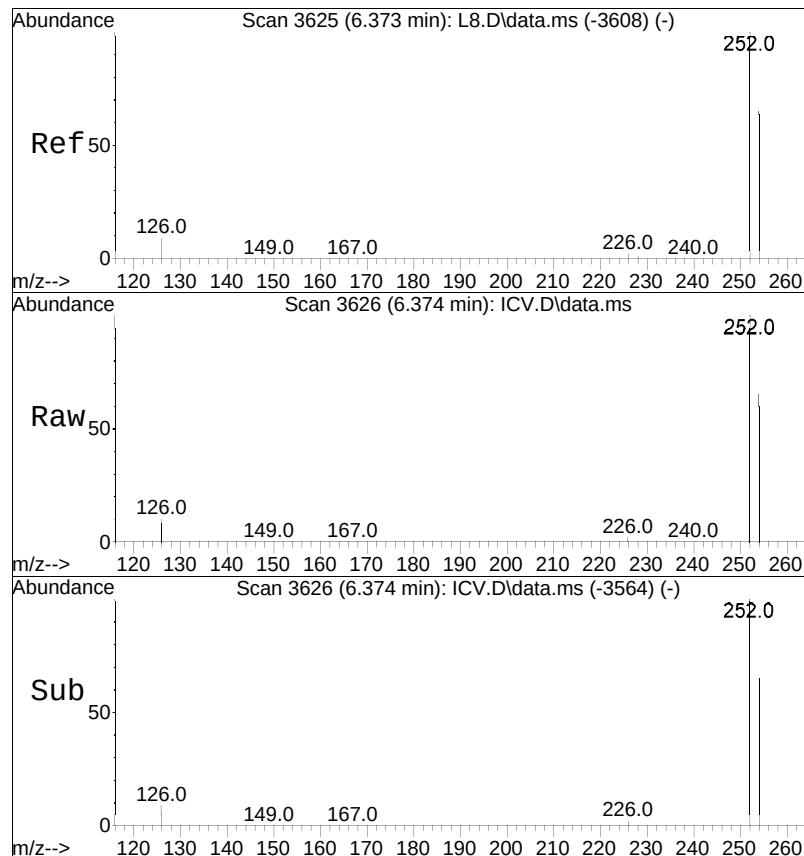




#34
 Benzo[a]anthracene
 Concen: 950.93 ng/ml
 RT: 6.393 min Scan# 3641
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

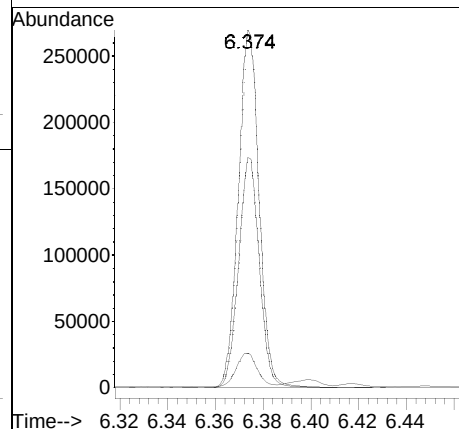
Tgt	Ion	Ratio	Lower	Upper
228	100			
229	19.6	15.8	23.6	

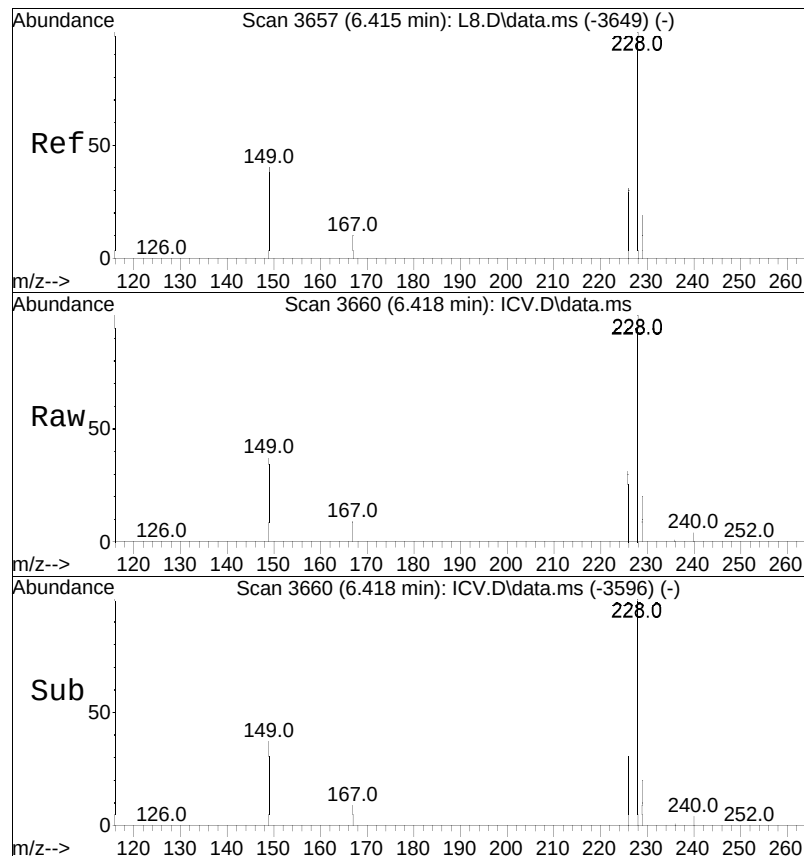




#35
 3,3'-Dichlorobenzidine
 Concen: 966.71 ng/ml
 RT: 6.374 min Scan# 3626
 Delta R.T. 0.001 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

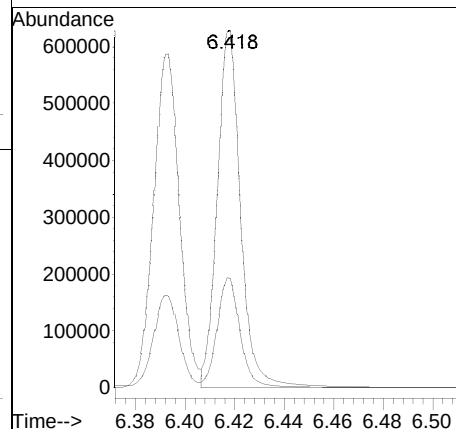
Tgt Ion	Ratio	Lower	Upper
252	100		
126	9.5	7.7	11.5
254	64.4	51.8	77.6

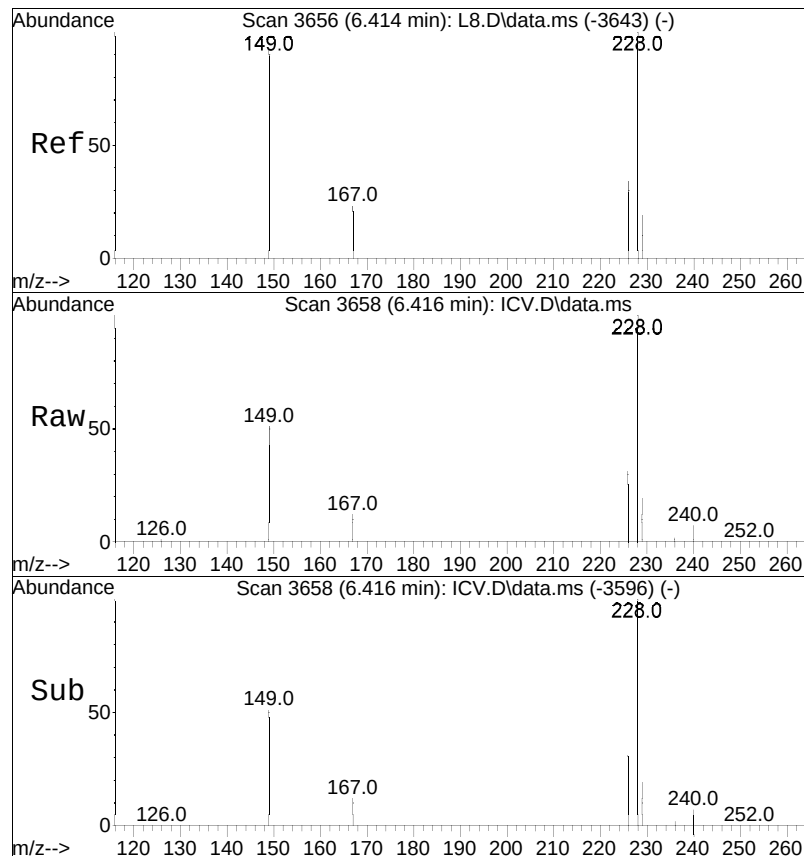




#36
 Chrysene
 Concen: 976.39 ng/ml
 RT: 6.418 min Scan# 3660
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

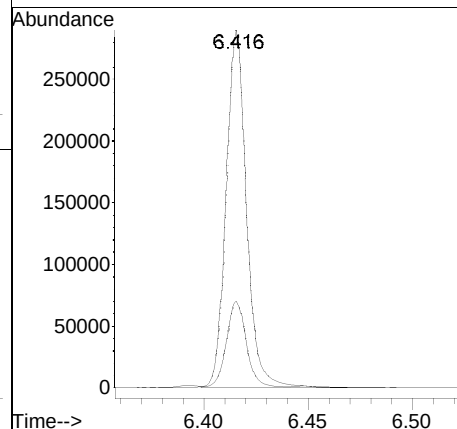
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.6	37.0

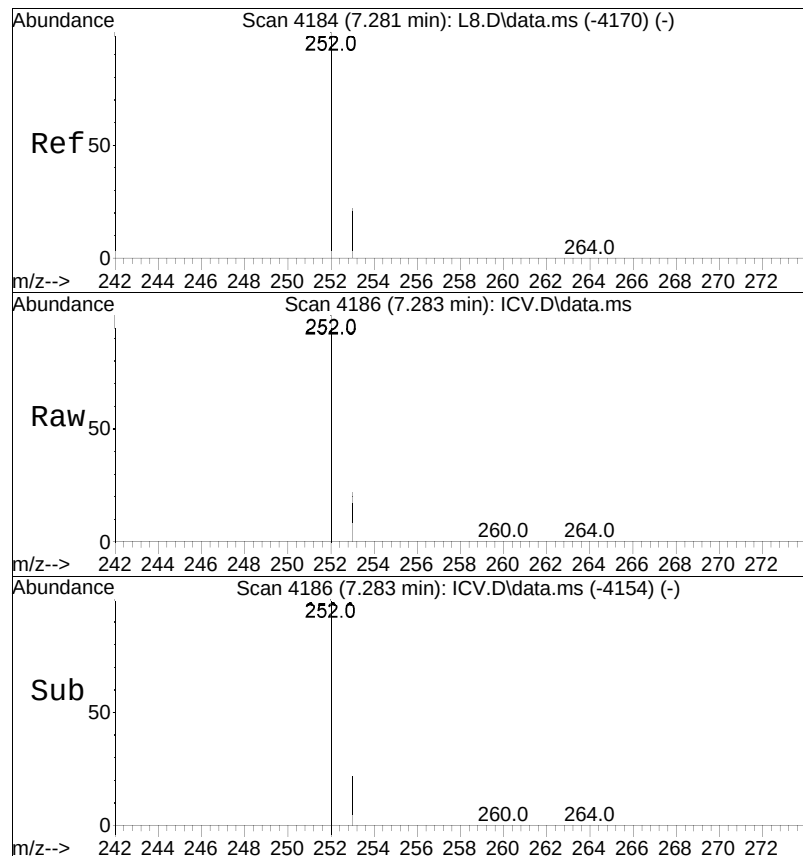




#37
 Bis(2-ethylhexyl)phthalate
 Concen: 798.19 ng/ml
 RT: 6.416 min Scan# 3658
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

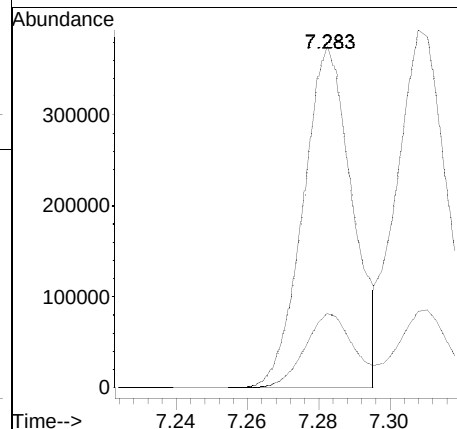
Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.3	19.6	29.4

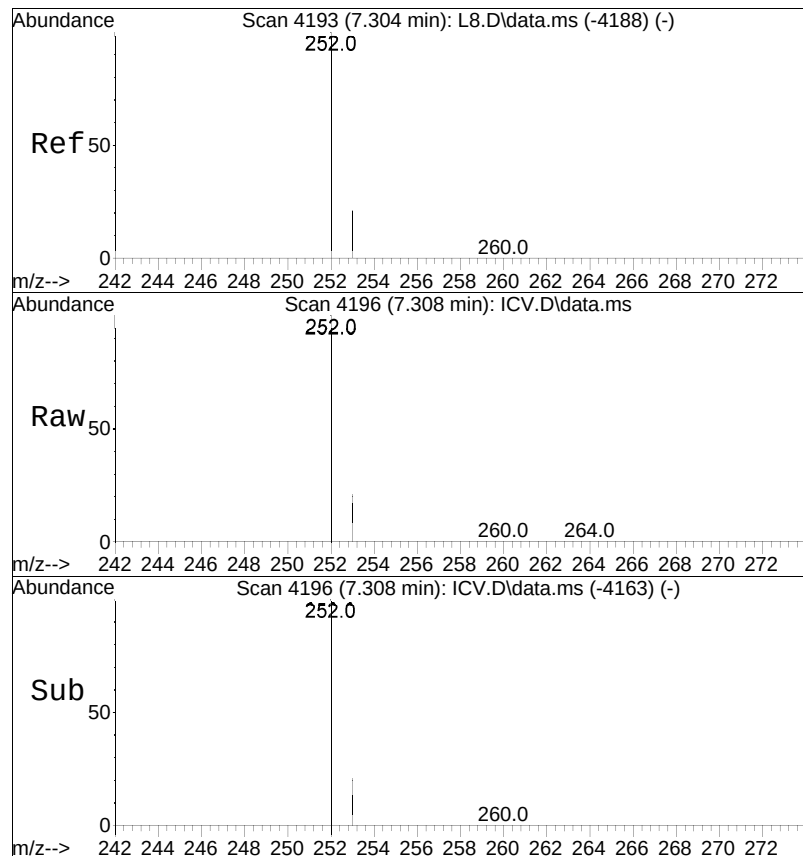




#39
 Benzo[b]fluoranthene
 Concen: 980.79 ng/ml
 RT: 7.283 min Scan# 4186
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

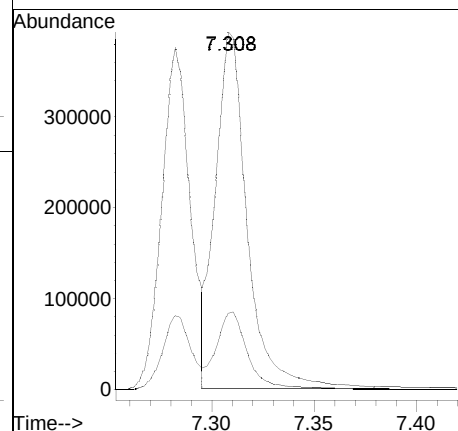
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.1	27.1

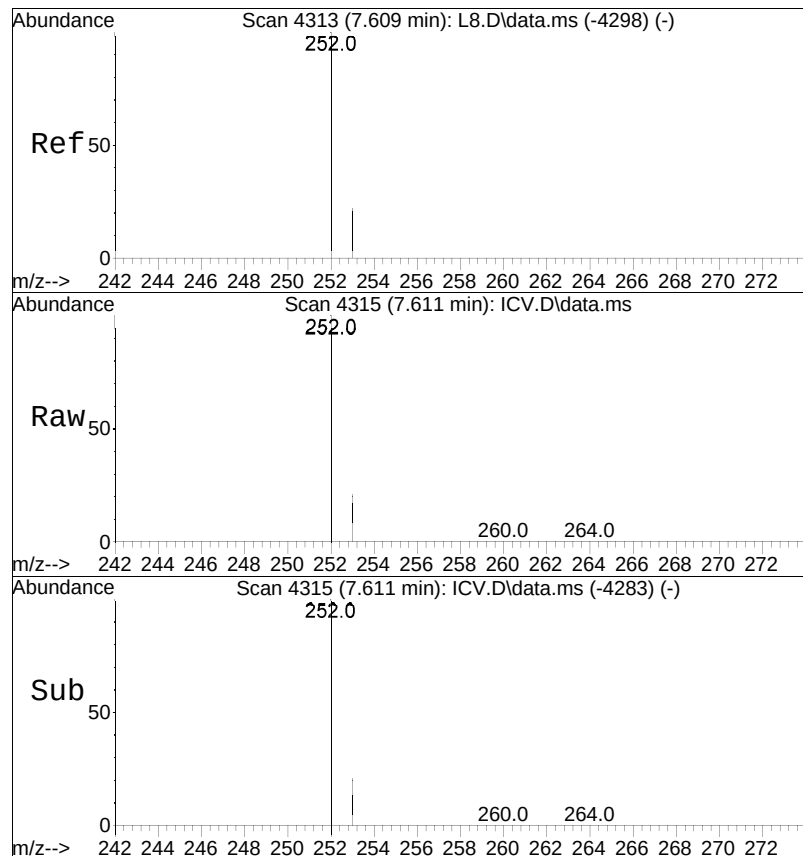




#40
 Benzo[k]fluoranthene
 Concen: 1082.32 ng/ml M1
 RT: 7.308 min Scan# 4196
 Delta R.T. 0.004 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

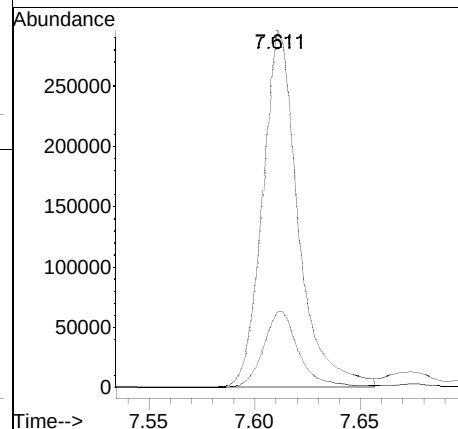
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.0	25.4

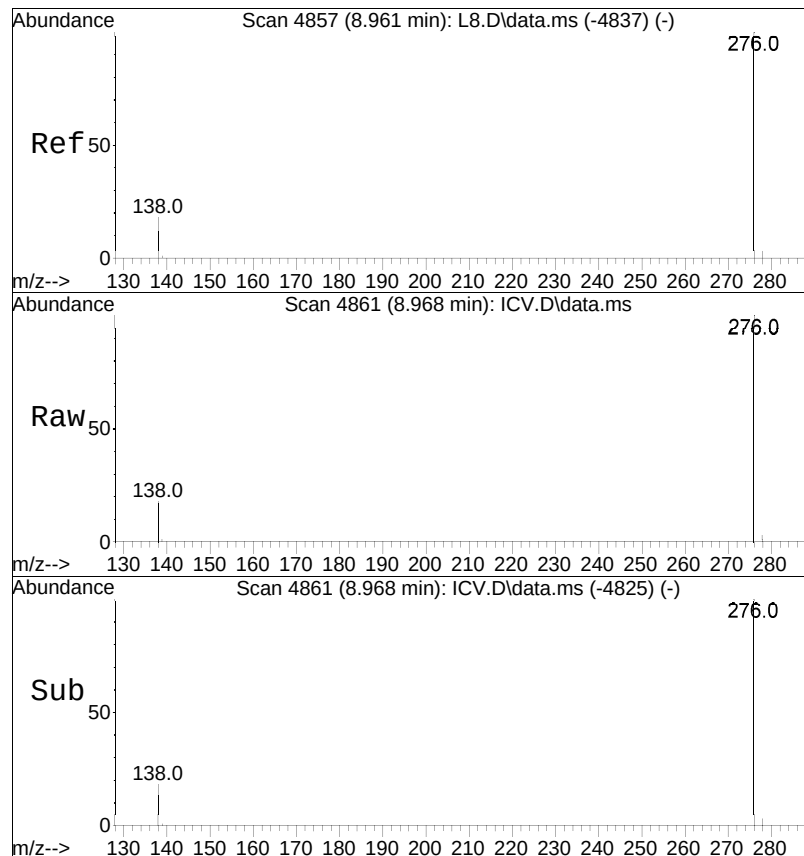




#41
 Benzo[a]pyrene
 Concen: 1019.71 ng/ml
 RT: 7.611 min Scan# 4315
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

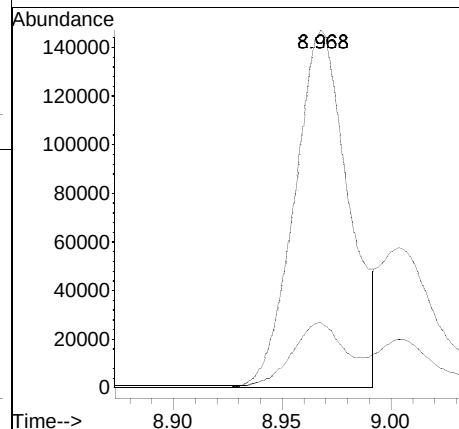
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.7	17.4	26.0	

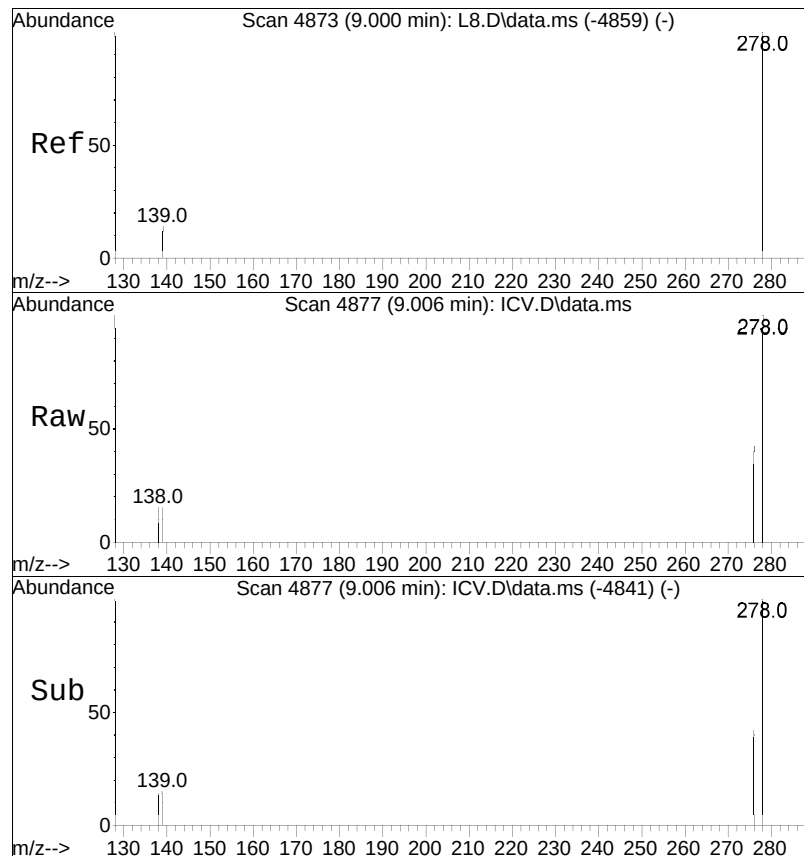




#42
 Indeno[1,2,3-cd]pyrene
 Concen: 720.48 ng/ml
 RT: 8.968 min Scan# 4861
 Delta R.T. 0.007 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

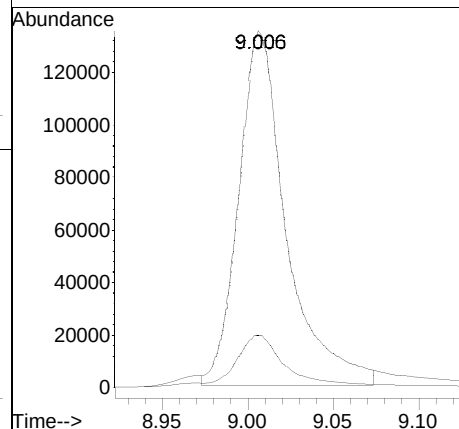
Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.2	14.4	21.6

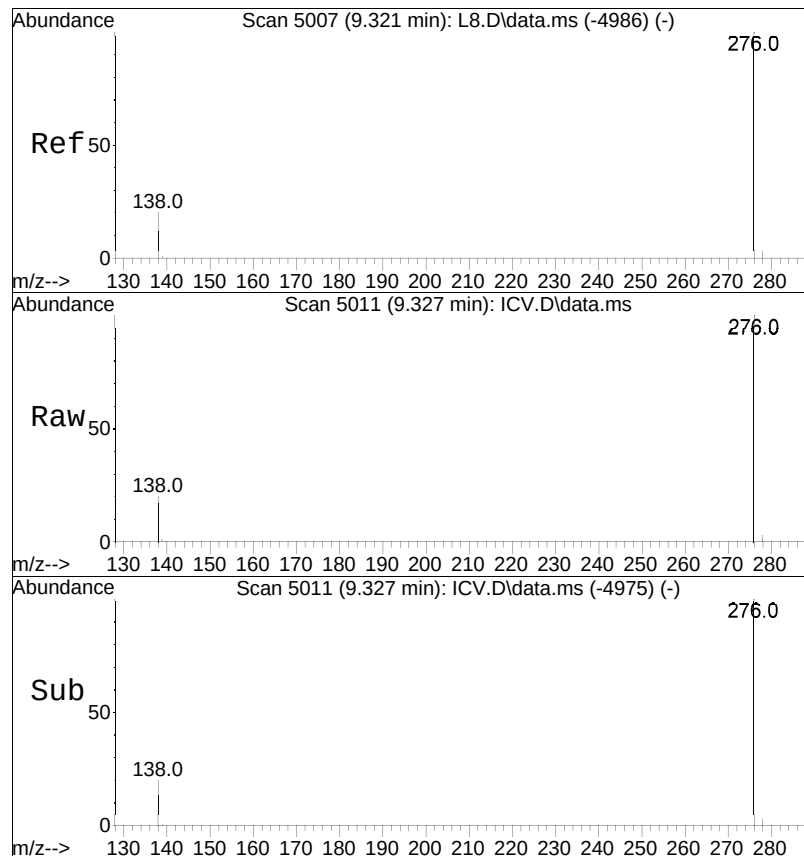




#43
 Dibenzo[a,h]anthracene
 Concen: 777.96 ng/ml M6
 RT: 9.006 min Scan# 4877
 Delta R.T. 0.006 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

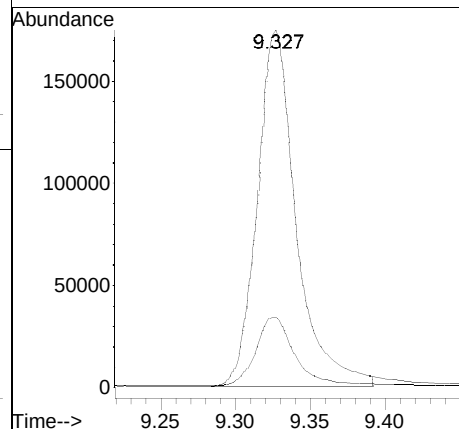
Tgt Ion	Ratio	Lower	Upper
278	100		
139	13.6	12.1	18.1





#44
 Benzo[g,h,i]perylene
 Concen: 866.85 ng/ml
 RT: 9.327 min Scan# 5011
 Delta R.T. 0.006 min
 Lab File: ICV.D
 Acq: 18 Jun 2025 09:19 pm

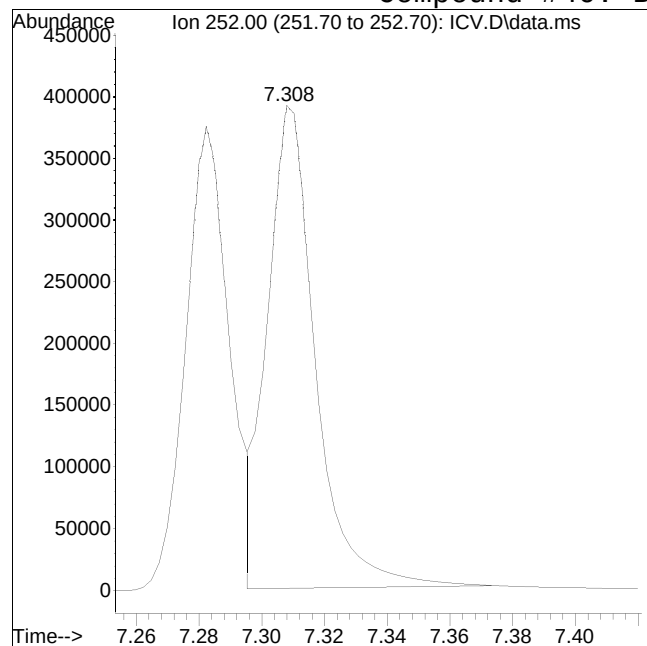
Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.7	16.0	24.0



Manual Integration Report

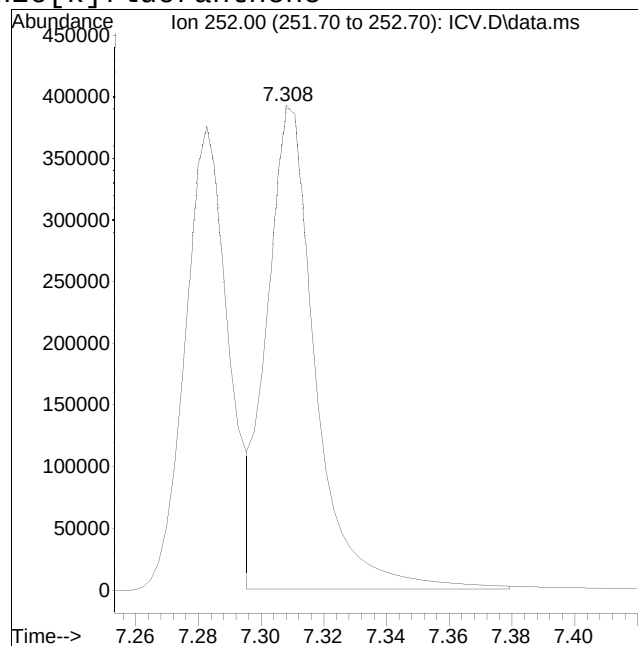
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : ICV.D Operator : sv119:slr
Date Inj'd : 6/18/2025 9:19 pm Instrument : SV119
Sample : CQICV1,32,,1 Lot# 11696 Quant Date : 6/19/2025 10:30 am

Compound #40: Benzo[k]fluoranthene



Original Peak Response = 414907

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

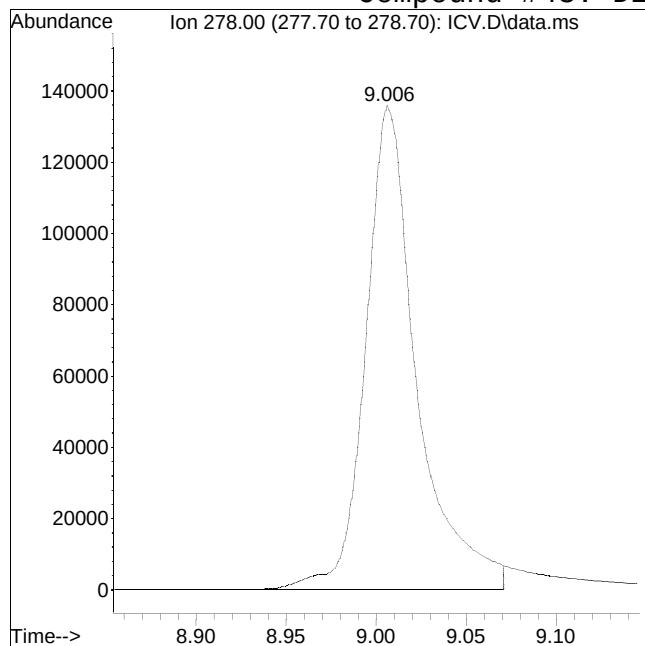


Manual Peak Response = 422560 M1

Manual Integration Report

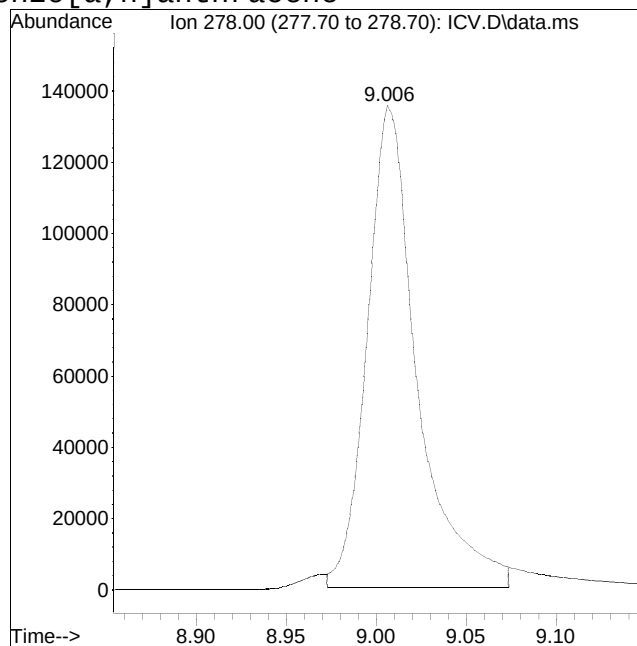
Data Path : I:\8270SIM\sv119\250618RVTQMethod : SIM-RVT_250618_sv119.M
Data File : ICV.D Operator : sv119:slr
Date Inj'd : 6/18/2025 9:19 pm Instrument : SV119
Sample : CQICV1,32,,1 Lot# 11696 Quant Date : 6/19/2025 10:30 am

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 269040

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



Manual Peak Response = 261012 M6

Method Path : I:\8270SIM\sv119\250618RVTical\
 Method File : SIM-RVT_250618_sv119.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Jun 19 10:23:42 2025

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
24	T 4,6-Dinitro-o-cresol	Q	ng/ml	1000.0	968.815	-3.1	40.00	44.212	10.5
26	T Pentachlorophenol	Q	ng/ml	1000.0	973.011	-2.7	10.00	10.247	2.5
31	T Benzidine	L	ng/mL	1000.0	985.204	-1.5	500.00	502.125	0.4
34	T Benzo[a]anthracene	L	ng/ml	1000.0	1008.485	0.8	5.00	5.332	6.6
37	T Bis (2-ethylhexyl)phthalate	L	ng/ml	1000.0	908.140	-9.2	40.00	51.141	27.9
42	T Indeno[1,2,3-cd]pyrene	L	ng/ml	1000.0	980.182	-2.0	5.00	7.246	44.9
43	T Dibenzo[a,h]anthracene	L	ng/ml	1000.0	986.954	-1.3	5.00	7.310	46.2
44	T Benzo[g,h,i]perylene	L	ng/ml	1000.0	986.757	-1.3	5.00	6.483	29.7

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
24	T 4,6-Dinitro-o-cresol	Quadratic	0.999481	0.010500	0.086419	-0.000230254
26	T Pentachlorophenol	Quadratic	0.999646	0.031826	0.103796	0.000167053
31	T Benzidine	Linear	0.999776	0.000000	0.854373	-0.0558888
34	T Benzo[a]anthracene	Linear	0.999577	0.000000	1.39861	0.00268223
37	T Bis (2-ethylhexyl)phthalate	Linear	0.996839	0.000000	0.791183	-0.00520444
42	T Indeno[1,2,3-cd]pyrene	Linear	0.996613	0.000000	1.1521	-0.00130068
43	T Dibenzo[a,h]anthracene	Linear	0.997585	0.000000	1.10099	-0.00134561
44	T Benzo[g,h,i]perylene	Linear	0.998736	0.000000	1.17985	-0.00102895

Continuing Calibration

Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV119
 Lab File ID : CCV0619
 Sample No : WG2081054-3
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/19/25 13:12
 Init. Calib. Date(s) : 06/18/25 06/18/25
 Init. Calib. Times : 18:34 21:03

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	100	0
N-Nitrosodimethylamine	0.662	0.763	.05	-15.3	20	118	0
2-Fluorophenol	1.123	1.282	.05	-14.2	20	115	0
Phenol-d6	1.459	1.574	.05	-7.9	20	113	0
Bis(2-chloroethyl)ether	1.177	1.34	.05	-13.8	20	115	0
n-nitrosodi-n-propylamine	0.885	0.998	.05	-12.8	20	114	0
Hexachloroethane	0.531	0.599	.05	-12.8	20	115	0
Nitrobenzene-d5	1.203	1.355	.05	-12.6	20	114	0
Naphthalene-d8	1	1	.05	0	20	101	0
Naphthalene	1.048	1.156	.05	-10.3	20	115	0
Hexachlorobutadiene	0.208	0.225	.05	-8.2	20	112	0
2-Methylnaphthalene	0.695	0.772	.05	-11.1	20	117	0
1-Methylnaphthalene	0.718	0.79	.05	-10	20	115	0
2-Fluorobiphenyl	0.905	0.987	.05	-9.1	20	114	0
2-Chloronaphthalene	0.779	0.856	.05	-9.9	20	114	0
2,6-Dinitrotoluene	0.159	0.176	.05	-10.7	20	114	0
Acenaphthylene	1.296	1.431	.05	-10.4	20	114	0
Acenaphthene-d10	1	1	.05	0	20	102	0
Acenaphthene	1.329	1.465	.05	-10.2	20	114	0
2,4-Dinitrotoluene	0.353	0.394	.05	-11.6	20	112	0
Fluorene	1.589	1.752	.05	-10.3	20	114	0
2,4,6-Tribromophenol	0.201	0.227	.05	-12.9	20	115	0
Phenanthrene-d10	1	1	.05	0	20	102	0
4,6-Dinitro-o-cresol	1000	1124.175	.05	-12.4	20	119	0
Hexachlorobenzene	0.248	0.273	.05	-10.1	20	115	0
Pentachlorophenol	1000	1285.751	.05	-28.6*	20	138	0
Phenanthrene	1.189	1.25	.05	-5.1	20	113	0
Anthracene	1.16	1.295	.05	-11.6	20	114	0
Fluoranthene	1.446	1.558	.05	-7.7	20	113	0
Pyrene	1.492	1.594	.05	-6.8	20	113	0
Benzidine	1000	1248.837	.05	-24.9*	20	139	0
4-Terphenyl-d14	0.899	0.989	.05	-10	20	113	0
Chrysene-d12	1	1	.05	0	20	101	0
Benzo[a]anthracene	1000	1078.653	.05	-7.9	20	108	0
3,3'-Dichlorobenzidine	0.522	0.622	.05	-19.2	20	113	0
Chrysene	1.315	1.486	.05	-13	20	113	0
Bis(2-ethylhexyl)phthalate	1000	979.492	.05	2.1	20	109	0
Perylene-d12	1	1	.05	0	20	100	0
Benzo[b]fluoranthene	1.206	1.423	.05	-18	20	108	0
Benzo[k]fluoranthene	1.273	1.502	.05	-18	20	108	0
Benzo[a]pyrene	1.097	1.318	.05	-20.1*	20	108	0
Indeno[1,2,3-cd]pyrene	1000	908.884	.05	9.1	20	93	0
Dibenzo[a,h]anthracene	1000	971.631	.05	2.8	20	98	0

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: SV119	Calibration Date	: 06/19/25 13:12
Lab File ID	: CCV0619	Init. Calib. Date(s)	: 06/18/25 06/18/25
Sample No	: WG2081054-3	Init. Calib. Times	: 18:34 21:03
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Benzo[g,h,i]perylene	1000	1028.74	.05	-2.9	20	104	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV118
 Lab File ID : CCV0625A
 Sample No : WG2083275-3
 Channel :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Calibration Date : 06/25/25 09:49
 Init. Calib. Date(s) : 02/03/25 02/03/25
 Init. Calib. Times : 15:47 18:20

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.01	0	20	114	0
2-Fluorophenol	1.223	1.248	.01	-2	20	116	0
Phenol-d6	1.466	1.526	.01	-4.1	20	117	0
Bis(2-chloroethyl)ether	1.301	1.154	.01	11.3	20	104	0
n-nitrosodi-n-propylamine	0.835	0.825	.01	1.2	20	106	0
Hexachloroethane	0.544	0.523	.01	3.9	20	109	0
Nitrobenzene-d5	1.197	1.217	.01	-1.7	20	110	0
Naphthalene-d8	1	1	.01	0	20	115	0
Naphthalene	1.137	1.029	.01	9.5	20	108	0
Hexachlorobutadiene	0.204	0.171	.01	16.2	20	97	0
2-Methylnaphthalene	0.707	0.635	.01	10.2	20	104	0
1-Methylnaphthalene	0.719	0.646	.01	10.2	20	104	0
2-Fluorobiphenyl	0.876	0.769	.01	12.2	20	105	0
2-Chloronaphthalene	0.765	0.664	.01	13.2	20	100	0
2,6-Dinitrotoluene	0.17	0.154	.01	9.4	20	96	0
Acenaphthylene	1.17	1.112	.01	5	20	103	0
Acenaphthene-d10	1	1	.01	0	20	109	0
Acenaphthene	1.424	1.308	.01	8.1	20	101	0
2,4-Dinitrotoluene	0.411	0.412	.01	-0.2	20	98	0
Fluorene	1.566	1.465	.01	6.4	20	101	0
2,4,6-Tribromophenol	0.185	0.186	.01	-0.5	20	94	0
Phenanthrene-d10	1	1	.01	0	20	103	0
4,6-Dinitro-o-cresol	1000	843.832	.01	15.6	20	93	0
Hexachlorobenzene	0.265	0.23	.01	13.2	20	90	0
Pentachlorophenol	1000	713.284	.01	28.7*	20	69	0
Phenanthrene	1.211	1.116	.01	7.8	20	96	0
Anthracene	1.202	1.165	.01	3.1	20	98	0
Fluoranthene	1.379	1.292	.01	6.3	20	96	0
Pyrene	1.427	1.344	.01	5.8	20	95	0
4-Terphenyl-d14	0.929	0.828	.01	10.9	20	93	0
Chrysene-d12	1	1	.01	0	20	95	0
Benzo[a]anthracene	0.423	0.377	.01	10.9	20	87	0
3,3'-Dichlorobenzidine	0.534	0.534	.01	0	20	87	0
Chrysene	1.38	1.301	.01	5.7	20	89	0
Bis(2-ethylhexyl)phthalate	1000	1051.418	.01	-5.1	20	107	0
Perylene-d12	1	1	.01	0	20	90	0
Benzo[b]fluoranthene	1.316	1.302	.01	1.1	20	87	0
Benzo[k]fluoranthene	1.252	1.287	.01	-2.8	20	86	0
Benzo[a]pyrene	1.095	1.187	.01	-8.4	20	89	0
Indeno[1,2,3-cd]pyrene	0.971	1.108	.01	-14.1	20	94	0
Dibenzo[a,h]anthracene	0.937	1.092	.01	-16.5	20	93	0
Benzo[g,h,i]perylene	1.026	1.147	.01	-11.8	20	93	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250619RVT\
 Data File : ccv0619.D
 Acq On : 19 Jun 2025 01:12 pm
 Operator : sv119:dv
 Sample : wg2081054-3,32,,ICV 11696 (0618a)
 Misc : wg2081054,,ical22394
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 19 13:38:42 2025
 Quant Method : I:\8270SIM\sv119\250619RVT\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 13:39:33 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	100	0.00
2 T	N-Nitrosodimethylamine	0.662	0.763	-15.3	118	0.00
3 s	2-Fluorophenol	1.123	1.282	-14.2	115	0.00
4 s	Phenol-d6	1.459	1.574	-7.9	113	0.00
5 T	Bis(2-chloroethyl)ether	1.177	1.340	-13.8	115	0.00
6 T	n-nitrosodi-n-propylamine	0.885	0.998	-12.8	114	0.00
7 t	Hexachloroethane	0.531	0.599	-12.8	115	0.00
8 s	Nitrobenzene-d5	1.203	1.355	-12.6	114	0.00
9 i	Naphthalene-d8	1.000	1.000	0.0	101	0.00
10 t	Naphthalene	1.048	1.156	-10.3	115	0.00
11 t	Hexachlorobutadiene	0.208	0.225	-8.2	112	0.00
12 t	2-Methylnaphthalene	0.695	0.772	-11.1	117	0.00
13 t	1-Methylnaphthalene	0.718	0.790	-10.0	115	0.00
14 s	2-Fluorobiphenyl	0.905	0.987	-9.1	114	0.00
15 t	2-Chloronaphthalene	0.779	0.856	-9.9	114	0.00
16 t	2,6-Dinitrotoluene	0.159	0.176	-10.7	114	0.00
17 t	Acenaphthylene	1.296	1.431	-10.4	114	0.00
18 i	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
19 t	Acenaphthene	1.329	1.465	-10.2	114	0.00
20 t	2,4-Dinitrotoluene	0.353	0.394	-11.6	112	0.00
21 t	Fluorene	1.589	1.752	-10.3	114	0.00
22 s	2,4,6-Tribromophenol	0.201	0.227	-12.9	115	0.00
23 i	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
24 T	4,6-Dinitro-o-cresol	*1000.000	1124.175	-12.4	119	0.00
25 t	Hexachlorobenzene	0.248	0.273	-10.1	115	0.00
26 t	Pentachlorophenol	*1000.000	1285.751	-28.6#	138	0.00
27 t	Phenanthrene	1.189	1.250	-5.1	113	0.00
28 t	Anthracene	1.160	1.295	-11.6	114	0.00
29 t	Fluoranthene	1.446	1.558	-7.7	113	0.00
30 t	Pyrene	1.492	1.594	-6.8	113	0.00
31 T	Benzidine	*1000.000	1248.837	-24.9#	139	0.00
32 s	4-Terphenyl-d14	0.899	0.989	-10.0	113	0.00
33 i	Chrysene-d12	1.000	1.000	0.0	101	0.00
34 t	Benzo[a]anthracene	*1000.000	1078.653	-7.9	108	0.00
35 t	3,3'-Dichlorobenzidine	0.522	0.622	-19.2	113	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250619RVT\
 Data File : ccv0619.D
 Acq On : 19 Jun 2025 01:12 pm
 Operator : sv119:dv
 Sample : wg2081054-3,32,,ICV 11696 (0618a)
 Misc : wg2081054,,ical22394
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 19 13:38:42 2025
 Quant Method : I:\8270SIM\sv119\250619RVT\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 13:39:33 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	1.315	1.486	-13.0	113	0.00
37 T	Bis(2-ethylhexyl)phthalate	*1000.000	979.492	2.1	109	0.00
38 i	Perylene-d12	1.000	1.000	0.0	100	0.00
39 t	Benzo[b]fluoranthene	1.206	1.423	-18.0	108	0.00
40 t	Benzo[k]fluoranthene	1.273	1.502	-18.0	108	0.00
41 t	Benzo[a]pyrene	1.097	1.318	-20.1#	108	0.00
42 t	Indeno[1,2,3-cd]pyrene	*1000.000	908.884	9.1	93	0.00
43 t	Dibenzo[a,h]anthracene	*1000.000	971.631	2.8	98	0.00
44 t	Benzo[g,h,i]perylene	*1000.000	1028.740	-2.9	104	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\250619RVT\
 Data File : ccv0619.D
 Acq On : 19 Jun 2025 01:12 pm
 Operator : sv119:dv
 Sample : wg2081054-3,32,,ICV 11696 (0618a)
 Misc : wg2081054,,ical22394
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 19 13:38:42 2025
 Quant Method : I:\8270SIM\sv119\250619RVT\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 13:39:33 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	2.337	152	283963	4000.000	ng/ml	0.00
9) Naphthalene-d8	3.008	136	1080714	4000.000	ng/ml	0.00
18) Acenaphthene-d10	3.990	164	647598	4000.000	ng/ml	0.00
23) Phenanthrene-d10	4.834	188	1397581	4000.000	ng/ml	0.00
33) Chrysene-d12	6.408	240	1312975	4000.000	ng/ml	0.00
38) Perylene-d12	7.696	264	1256715	4000.000	ng/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	1.746	112	91009	1141.123	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	57.06%		
4) Phenol-d6	2.140	99	111764	1079.305	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	53.97%		
8) Nitrobenzene-d5	2.618	82	96166	1125.768	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	112.58%		
14) 2-Fluorobiphenyl	3.607	172	266638	1090.495	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	109.05%		
22) 2,4,6-Tribromophenol	4.436	330	36725	1130.460	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	56.52%		
32) 4-Terphenyl-d14	5.749	244	345379	1099.134	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	109.91%		
Target Compounds						
					Qvalue	
2) N-Nitrosodimethylamine	1.303	74	54150	1152.755	ng/mL	84
5) Bis(2-chloroethyl)ether	2.197	93	95123	1138.277	ng/ml	100
6) n-nitrosodi-n-propylamine	2.537	70	70829	1127.395	ng/ml	100
7) Hexachloroethane	2.600	117	42503	1127.676	ng/ml	99
10) Naphthalene	3.019	128	312410	1103.312	ng/ml	100
11) Hexachlorobutadiene	3.090	225	60664	1082.020	ng/ml	100
12) 2-Methylnaphthalene	3.401	142	208693	1111.488	ng/ml	100
13) 1-Methylnaphthalene	3.457	142	213542	1100.131	ng/ml	100
15) 2-Chloronaphthalene	3.673	162	231400	1098.922	ng/ml	99
16) 2,6-Dinitrotoluene	3.864	165	47666	1112.924	ng/ml	98
17) Acenaphthylene	3.908	152	386753	1104.925	ng/ml	100
19) Acenaphthene	4.007	153	237242	1102.911	ng/ml	99
20) 2,4-Dinitrotoluene	4.093	165	63783	1117.424	ng/ml	100
21) Fluorene	4.299	166	283599	1102.057	ng/ml	100
24) 4,6-Dinitro-o-cresol	4.323	198	34781	1124.175	ng/ml	100
25) Hexachlorobenzene	4.618	284	95372	1102.547	ng/ml	99
26) Pentachlorophenol	4.725	266	51458	1285.751	ng/ml	100
27) Phenanthrene	4.847	178	436741	1051.555	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250619RVT\
 Data File : ccv0619.D
 Acq On : 19 Jun 2025 01:12 pm
 Operator : sv119:dv
 Sample : wg2081054-3,32,,ICV 11696 (0618a)
 Misc : wg2081054,,ical22394
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 19 13:38:42 2025
 Quant Method : I:\8270SIM\sv119\250619RVT\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 13:39:33 2025
 Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28)	Anthracene	4.875	178	452565	1116.930	ng/ml	100
29)	Fluoranthene	5.526	202	544190	1077.247	ng/ml	100
30)	Pyrene	5.658	202	557106	1068.824	ng/ml	100
31)	Benizidine	5.601	184	294686	1248.837	ng/mL	100
34)	Benzo[a]anthracene	6.400	228	498716	1078.653	ng/ml	100
35)	3,3'-Dichlorobenzidine	6.382	252	204296	1191.592	ng/ml	100
36)	Chrysene	6.425	228	487627	1129.698	ng/ml	99
37)	Bis(2-ethylhexyl)phtha...	6.422	149	247612	979.492	ng/ml	100
39)	Benzo[b]fluoranthene	7.294	252	447183	1180.675	ng/ml	98
40)	Benzo[k]fluoranthene	7.322	252	471869	1179.700	ng/ml	98
41)	Benzo[a]pyrene	7.627	252	414205	1201.690	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.998	276	327351	908.884	ng/ml	99
43)	Dibenzo[a,h]anthracene	9.036	278	334402M6	971.631	ng/ml	
44)	Benzo[g,h,i]perylene	9.357	276	380044	1028.740	ng/ml	100

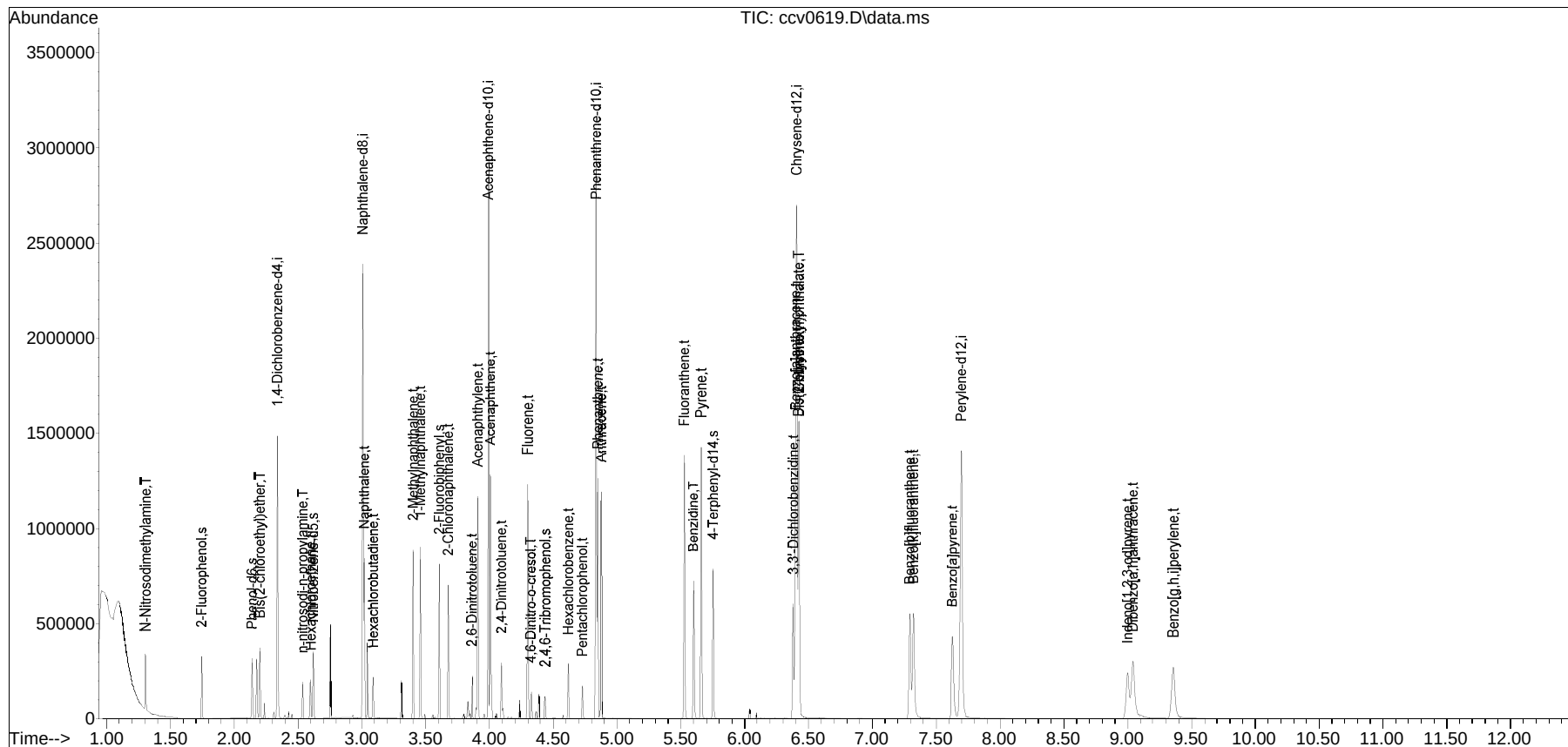
(#) = qualifier out of range (m) = manual integration (+) = signals summed

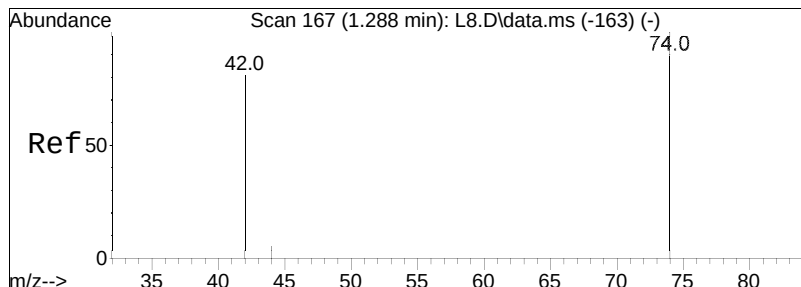
(QT Reviewed)

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Data Path : I:\8270SIM\sv119\250619RVT\  
Data File : ccv0619.D  
Acq On : 19 Jun 2025 01:12 pm  
Operator : sv119:dv  
Sample : wg2081054-3,32,,ICV 11696 (0618a)  
Misc : wg2081054,,ical22394  
ALS Vial : 49 Sample Multiplier: 1
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Quant Time: Jun 19 13:38:42 2025
Quant Method : I:\8270SIM\sv119\250619RVT\SIM-RVT_250618_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 19 13:39:33 2025
Response via : Initial Calibration

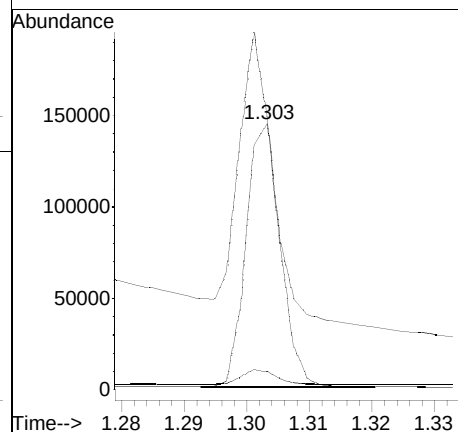
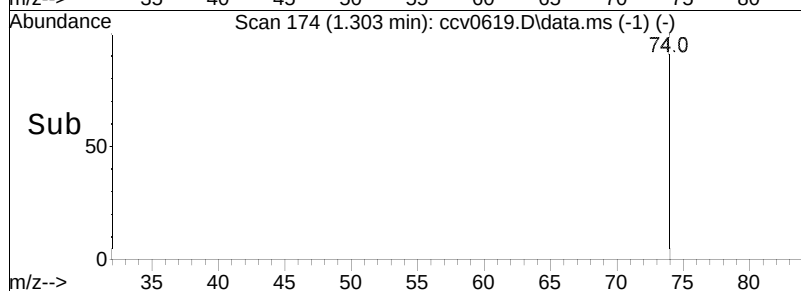
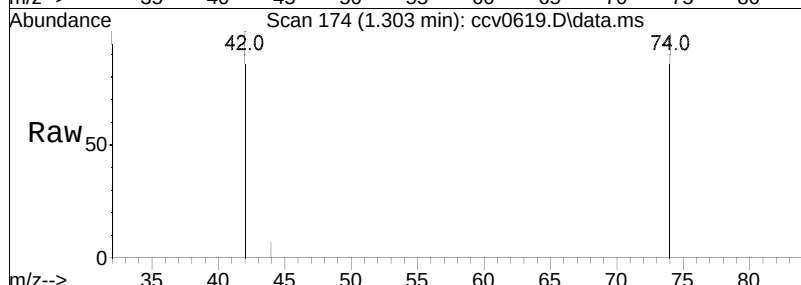
Sub List : Default - All compounds listed

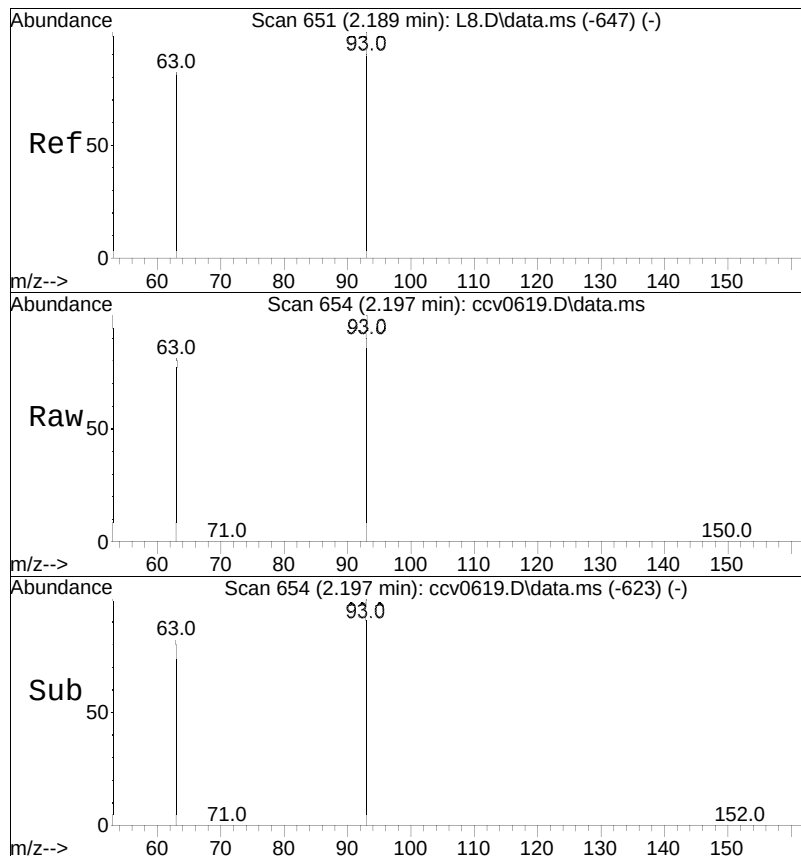




#2
 N-Nitrosodimethylamine
 Concen: 1152.76 ng/mL
 RT: 1.303 min Scan# 174
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

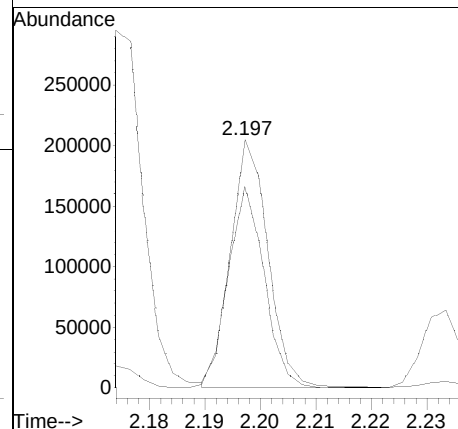
Tgt Ion: 74 Resp: 54150
 Ion Ratio Lower Upper
 74 100
 42 330.7 293.4 440.0
 44 5.5 4.3 6.5

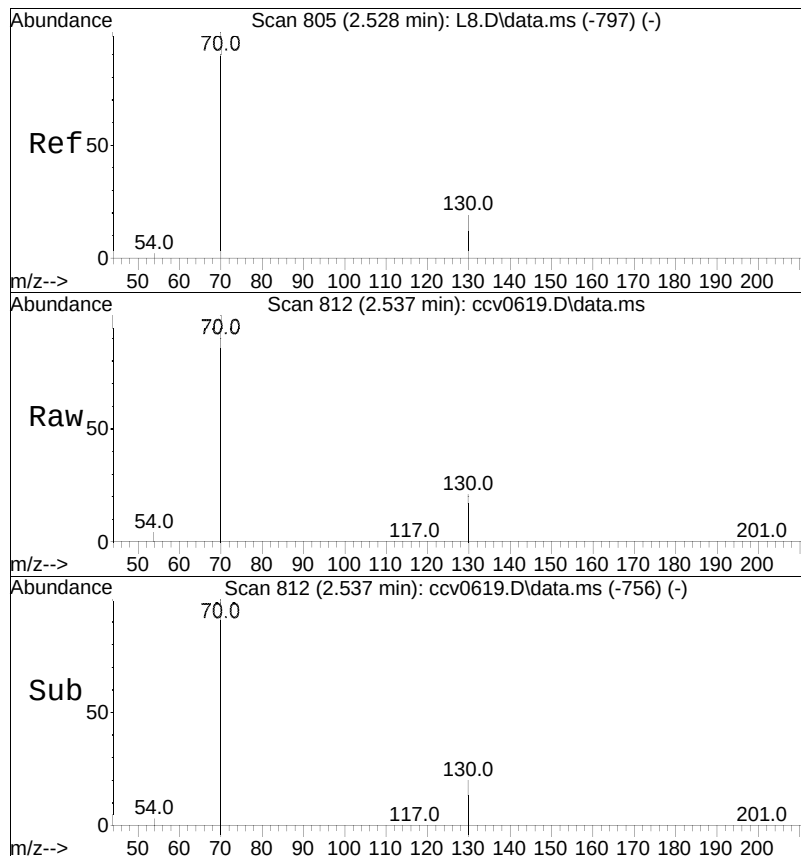




#5
 Bis(2-chloroethyl)ether
 Concen: 1138.28 ng/ml
 RT: 2.197 min Scan# 654
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

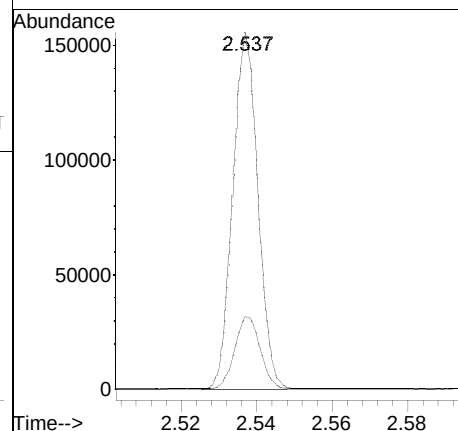
Tgt Ion	Ratio	Lower	Upper
93	100		
63	78.9	62.9	94.3

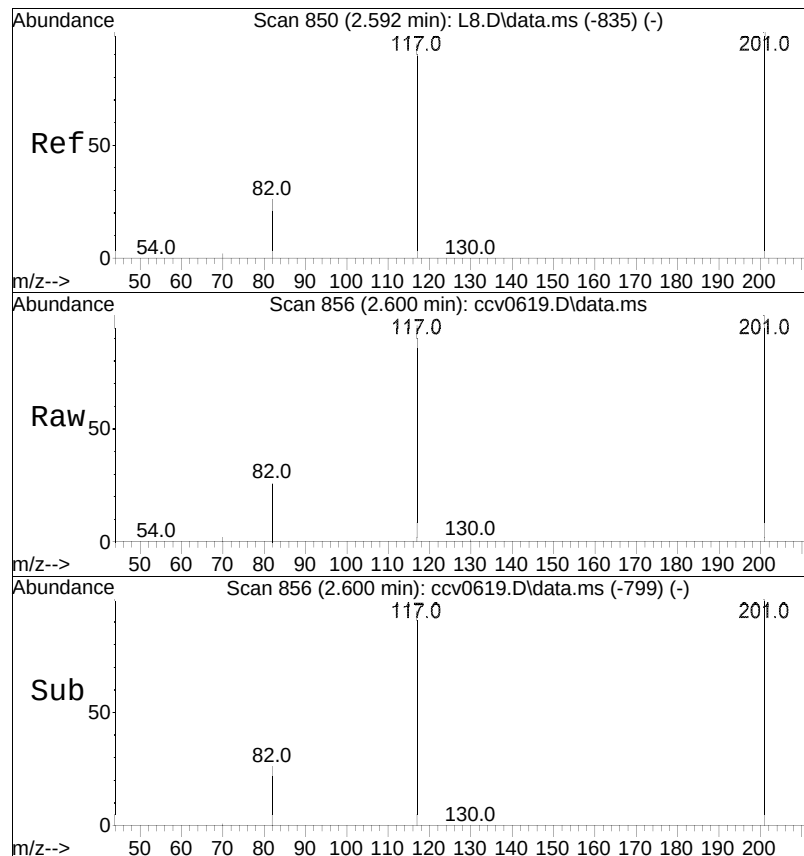




#6
 n-nitrosodi-n-propylamine
 Concen: 1127.40 ng/ml
 RT: 2.537 min Scan# 812
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

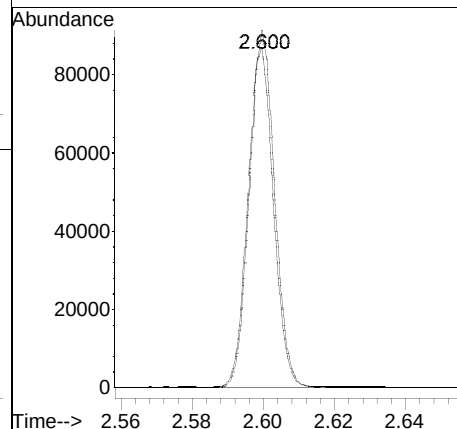
Tgt Ion	Ratio	Lower	Upper
70	100		
130	20.7	16.4	24.6

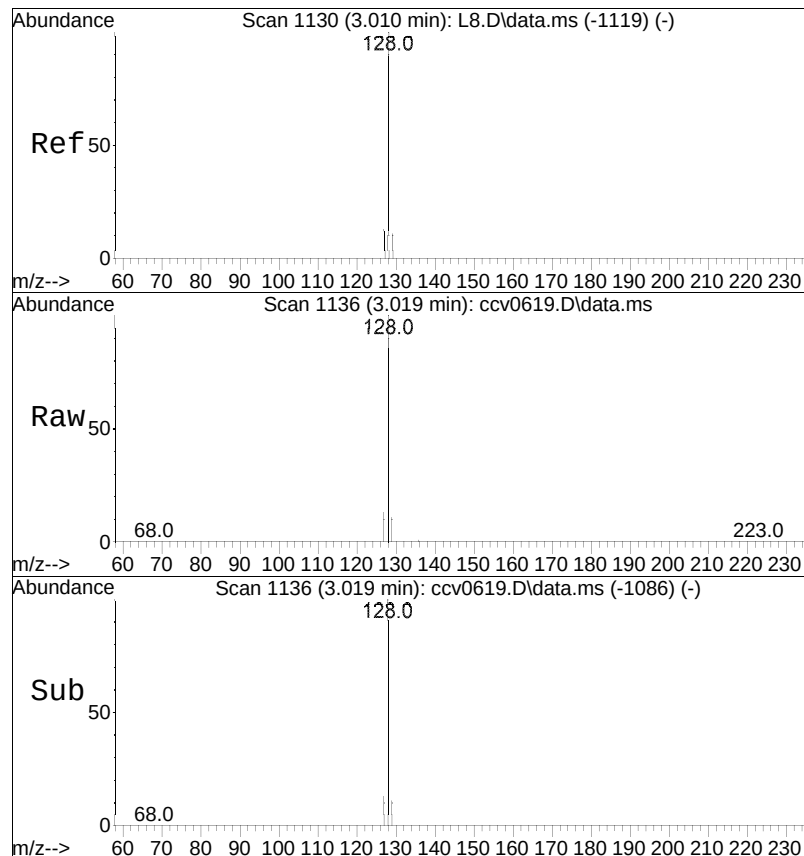




#7
 Hexachloroethane
 Concen: 1127.68 ng/ml
 RT: 2.600 min Scan# 856
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

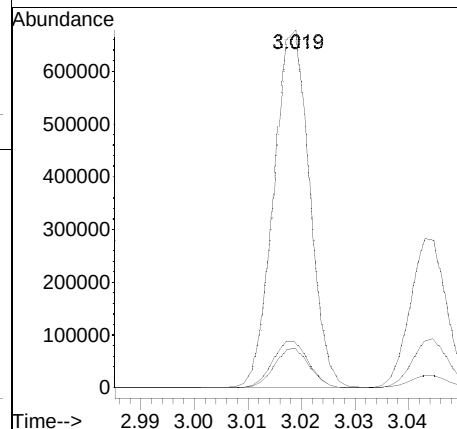
Tgt Ion	Ratio	Lower	Upper
117	100		
201	104.3	82.9	124.3

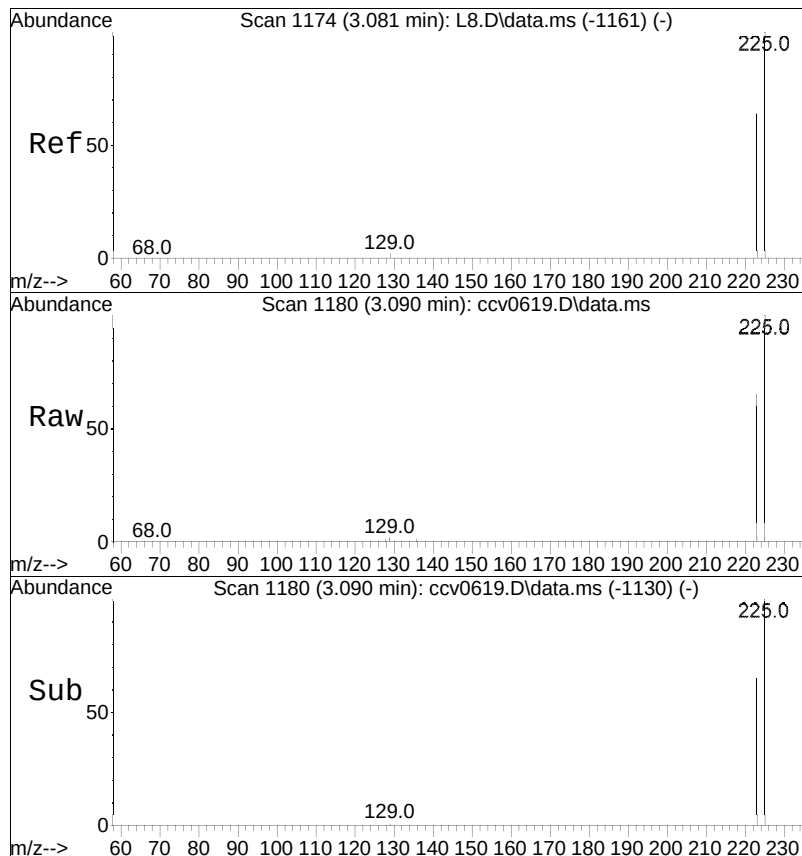




#10
 Naphthalene
 Concen: 1103.31 ng/ml
 RT: 3.019 min Scan# 1136
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

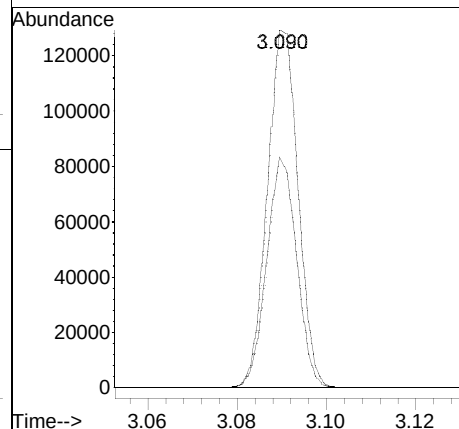
Tgt	Ion	128	Resp:	312410
Ion	Ratio	Lower	Upper	
128	100			
129	11.0	8.8	13.2	
127	13.3	10.6	15.8	

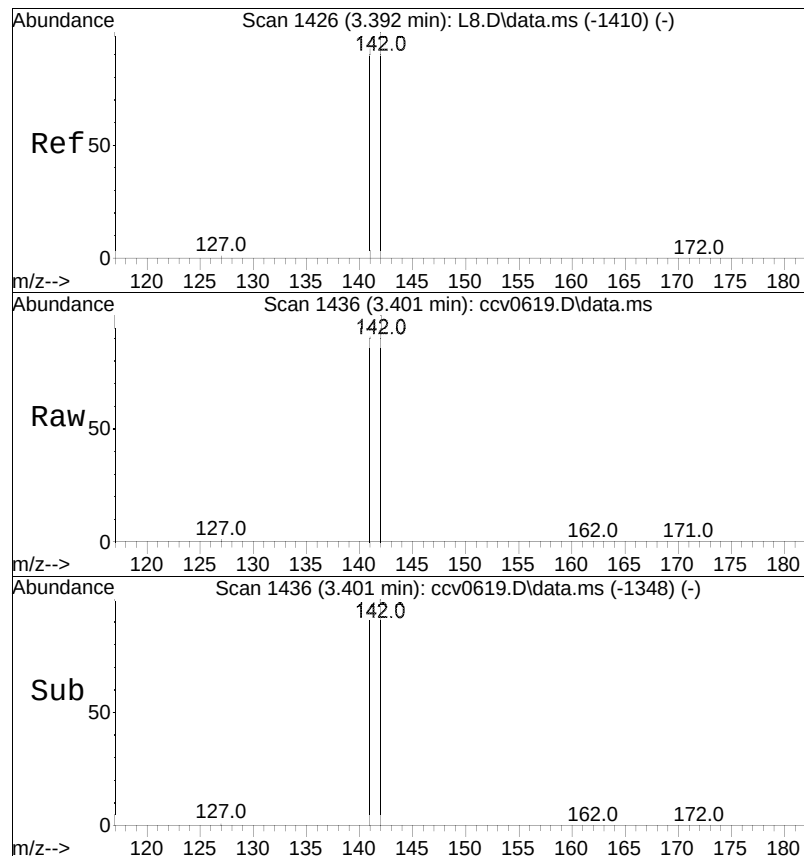




#11
 Hexachlorobutadiene
 Concen: 1082.02 ng/ml
 RT: 3.090 min Scan# 1180
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

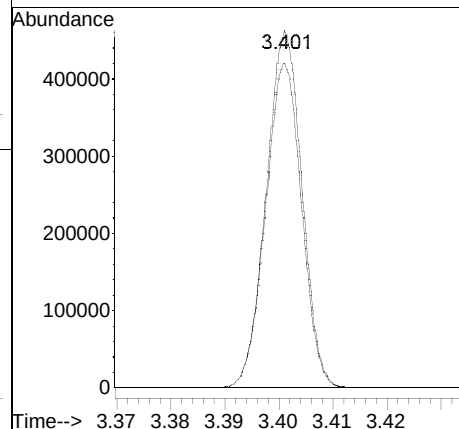
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.2	75.4

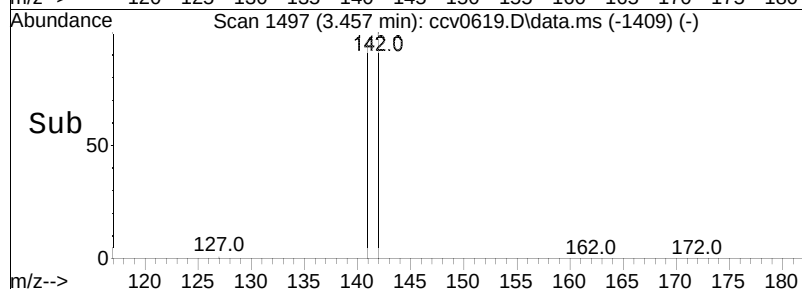
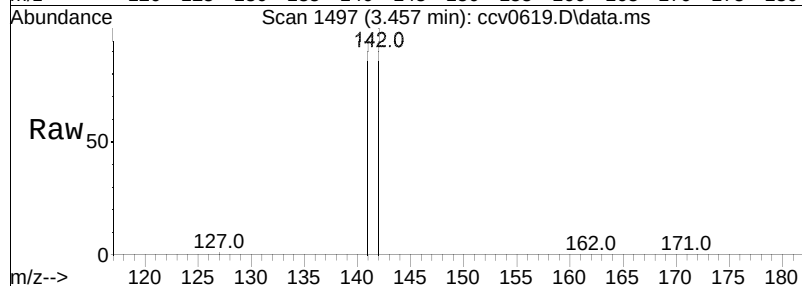
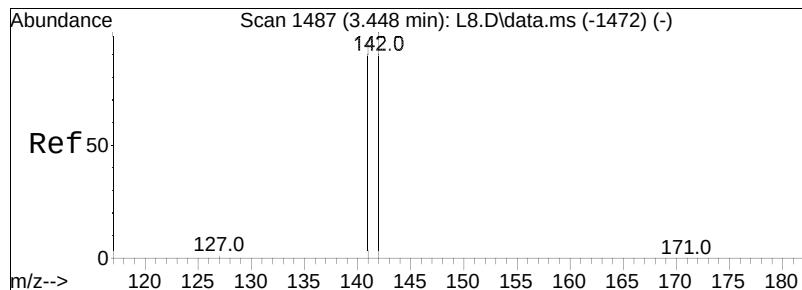




#12
 2-Methylnaphthalene
 Concen: 1111.49 ng/ml
 RT: 3.401 min Scan# 1436
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

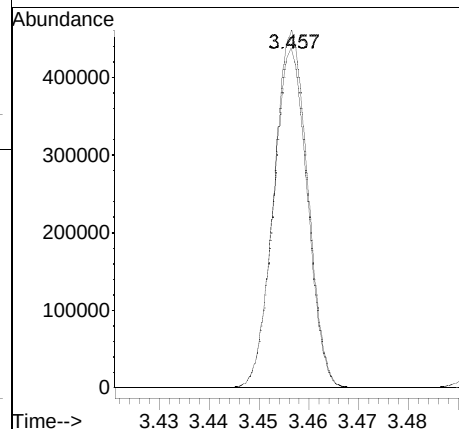
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.6	73.6	110.4

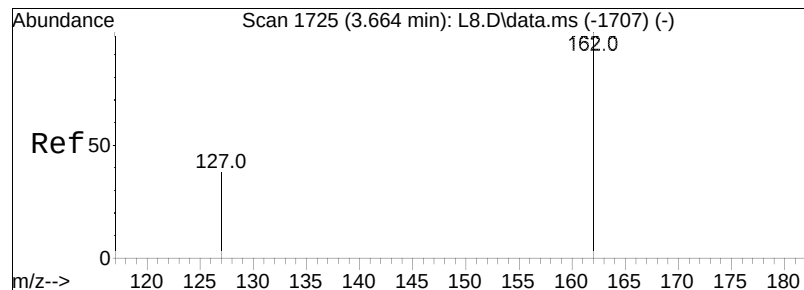




#13
 1-Methylnaphthalene
 Concen: 1100.13 ng/ml
 RT: 3.457 min Scan# 1497
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

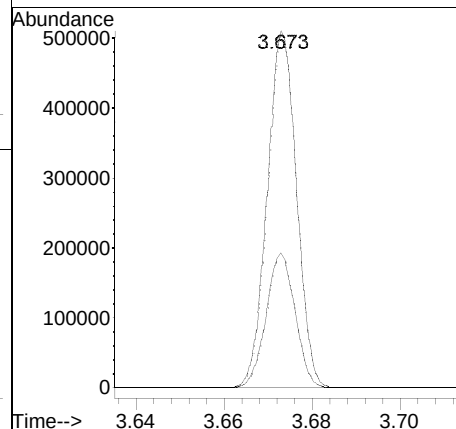
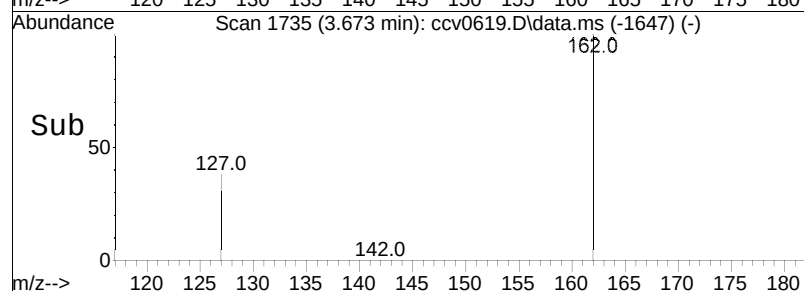
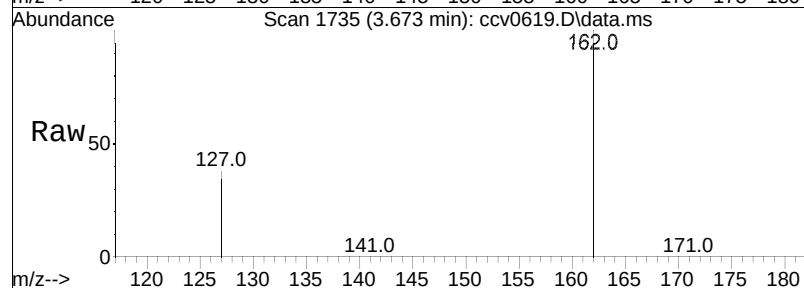
Tgt Ion	Ratio	Lower	Upper
142	100		
141	95.0	76.0	114.0

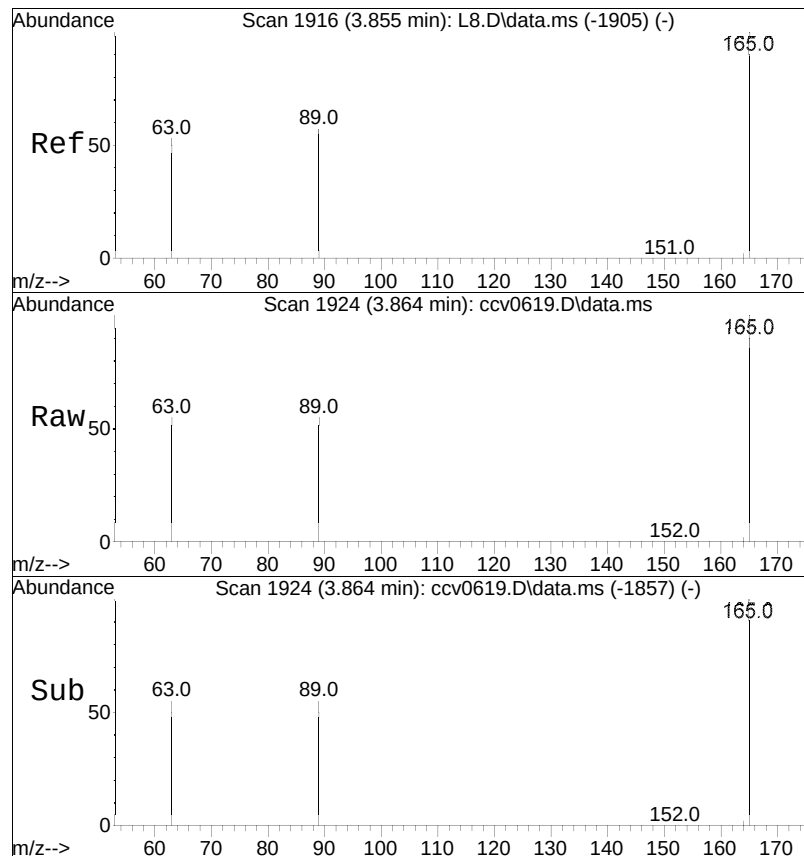




#15
 2-Chloronaphthalene
 Concen: 1098.92 ng/ml
 RT: 3.673 min Scan# 1735
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

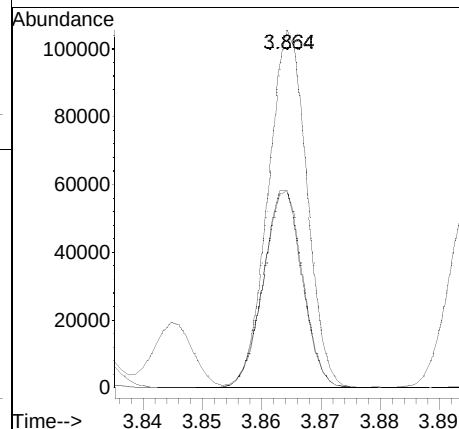
Tgt Ion	Ratio	Lower	Upper
162	100		
127	37.6	29.8	44.8

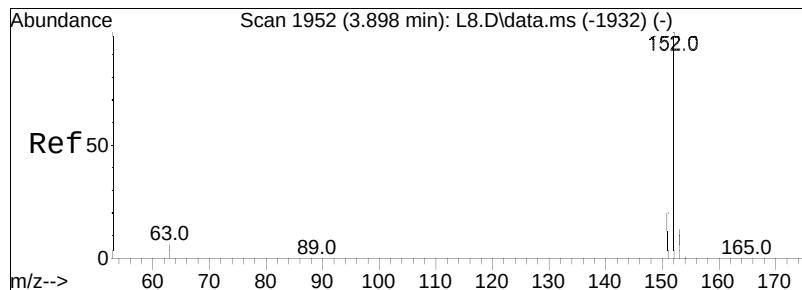




#16
 2,6-Dinitrotoluene
 Concen: 1112.92 ng/ml
 RT: 3.864 min Scan# 1924
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

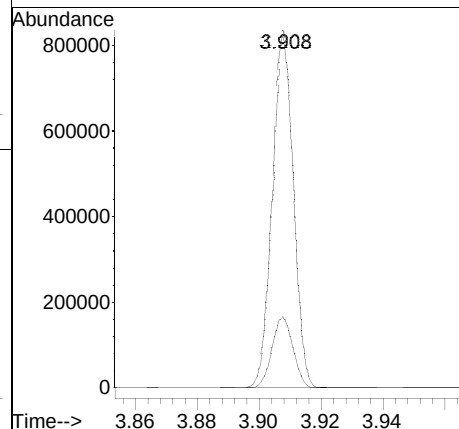
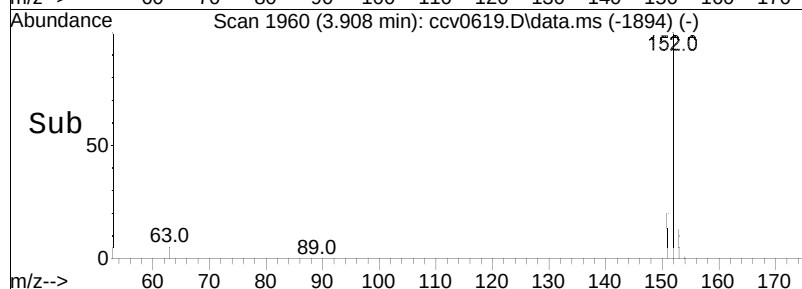
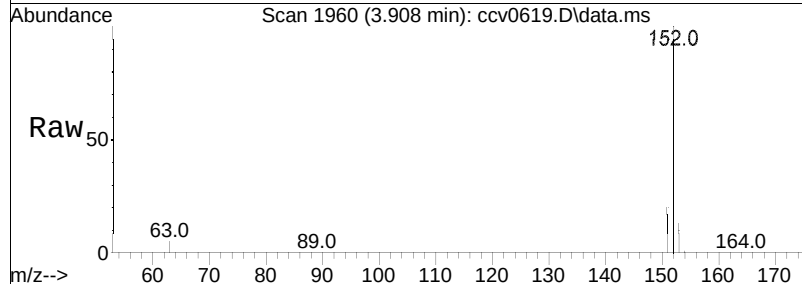
Tgt Ion:165	Resp:	47666
Ion Ratio	Lower	Upper
165 100		
89 55.7	45.6	68.4
63 55.5	45.4	68.2

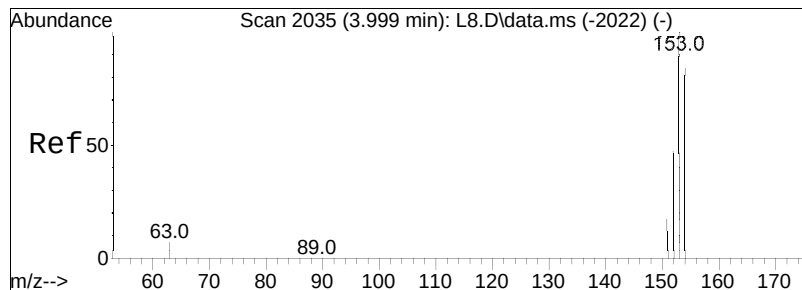




#17
 Acenaphthylene
 Concen: 1104.93 ng/ml
 RT: 3.908 min Scan# 1960
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2





#19

Acenaphthene

Concen: 1102.91 ng/ml

RT: 4.007 min Scan# 2042

Delta R.T. 0.000 min

Lab File: ccv0619.D

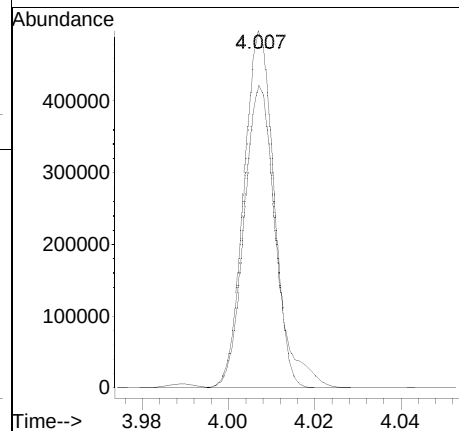
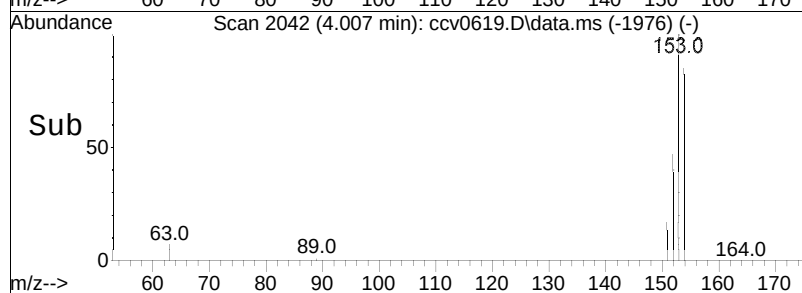
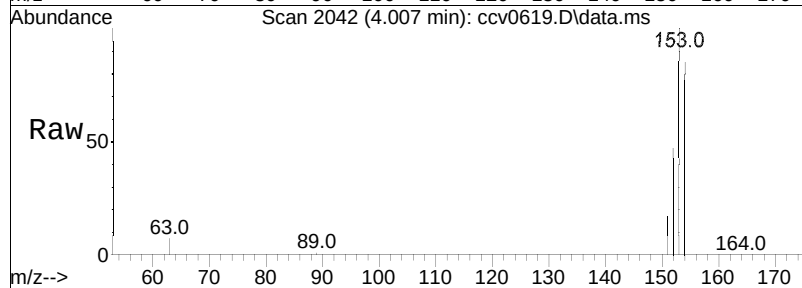
Acq: 19 Jun 2025 01:12 pm

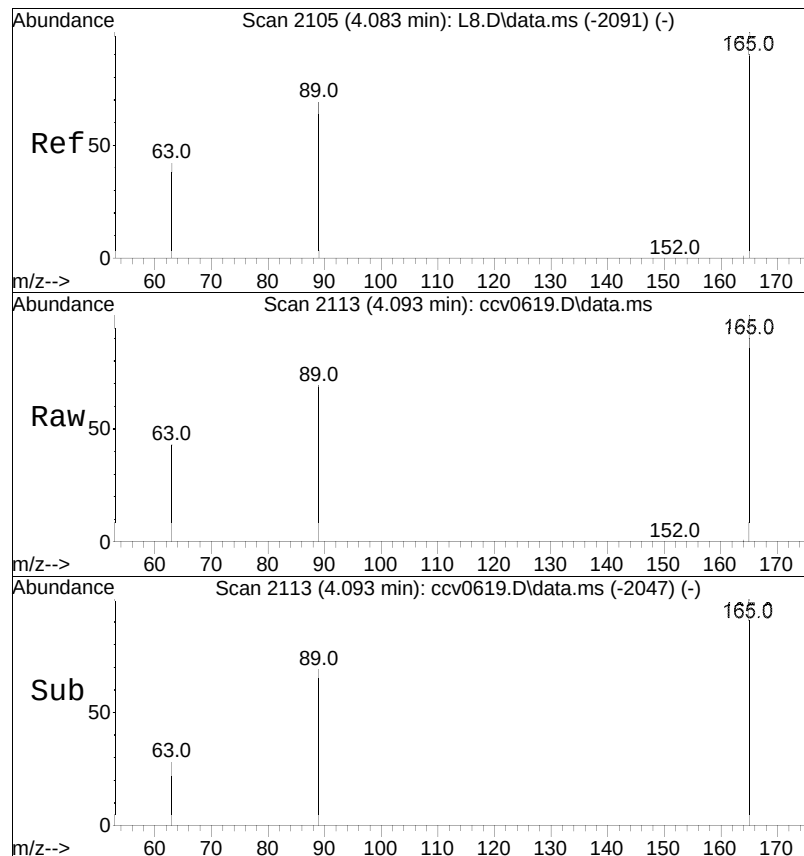
Tgt Ion:153 Resp: 237242

Ion Ratio Lower Upper

153 100

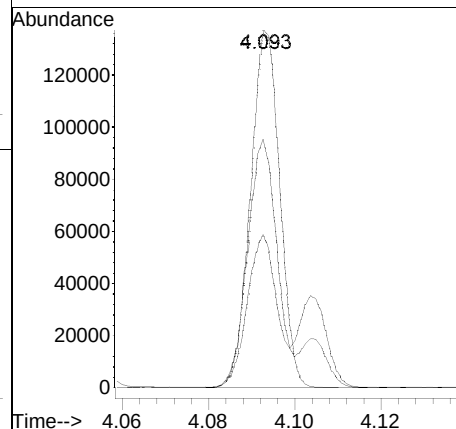
154 90.7 72.0 108.0

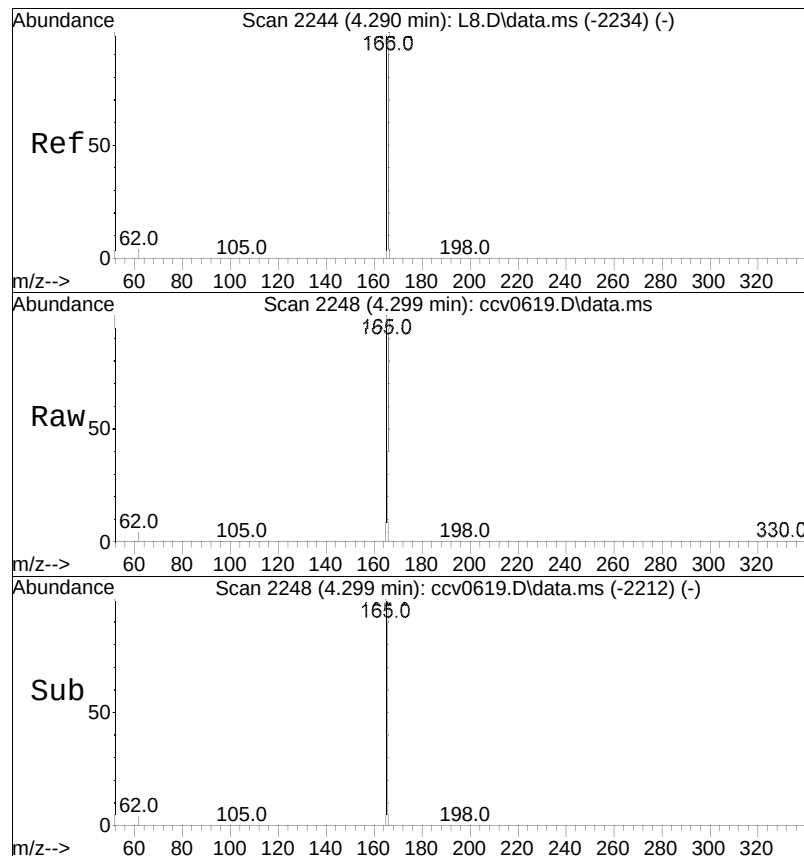




#20
 2,4-Dinitrotoluene
 Concen: 1117.42 ng/ml
 RT: 4.093 min Scan# 2113
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

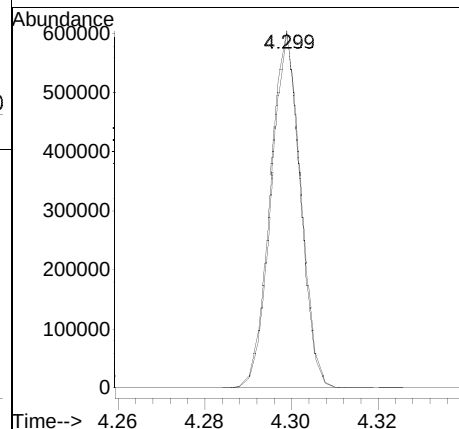
Tgt	Ion:165	Resp:	63783
Ion	Ratio	Lower	Upper
165	100		
89	70.4	56.6	85.0
63	43.6	35.0	52.6

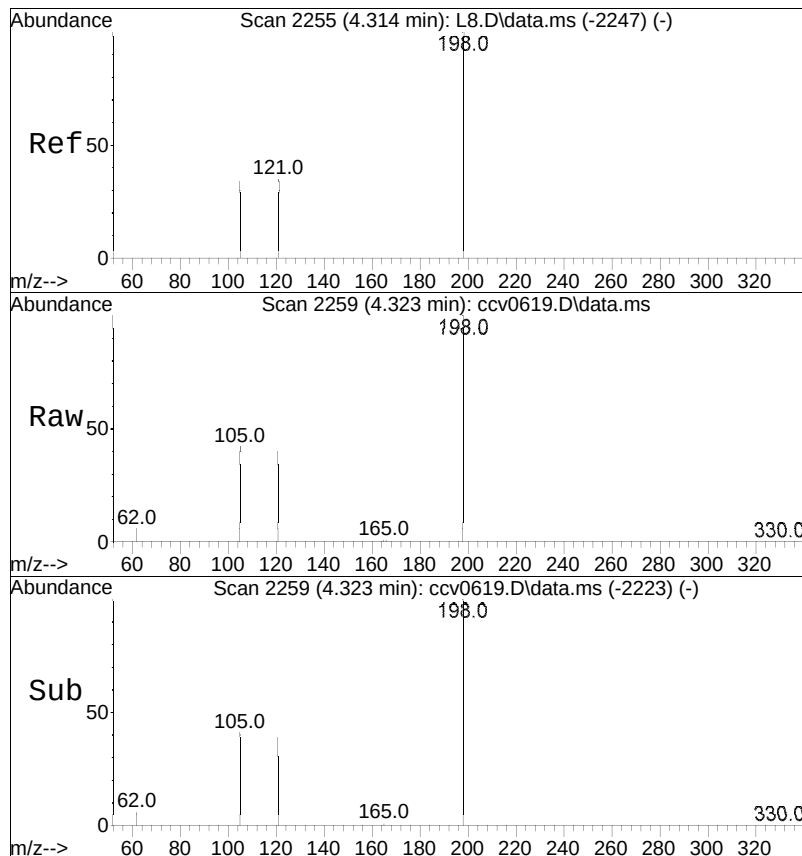




#21
 Fluorene
 Concen: 1102.06 ng/ml
 RT: 4.299 min Scan# 2248
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

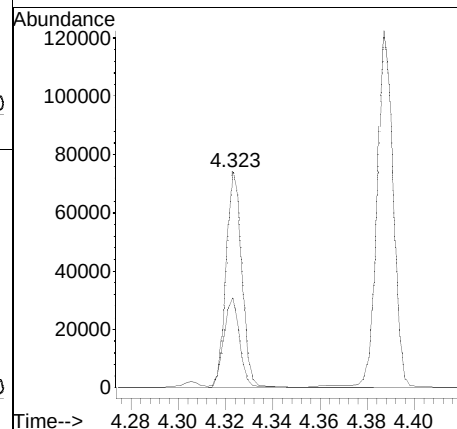
Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.7	81.5	122.3

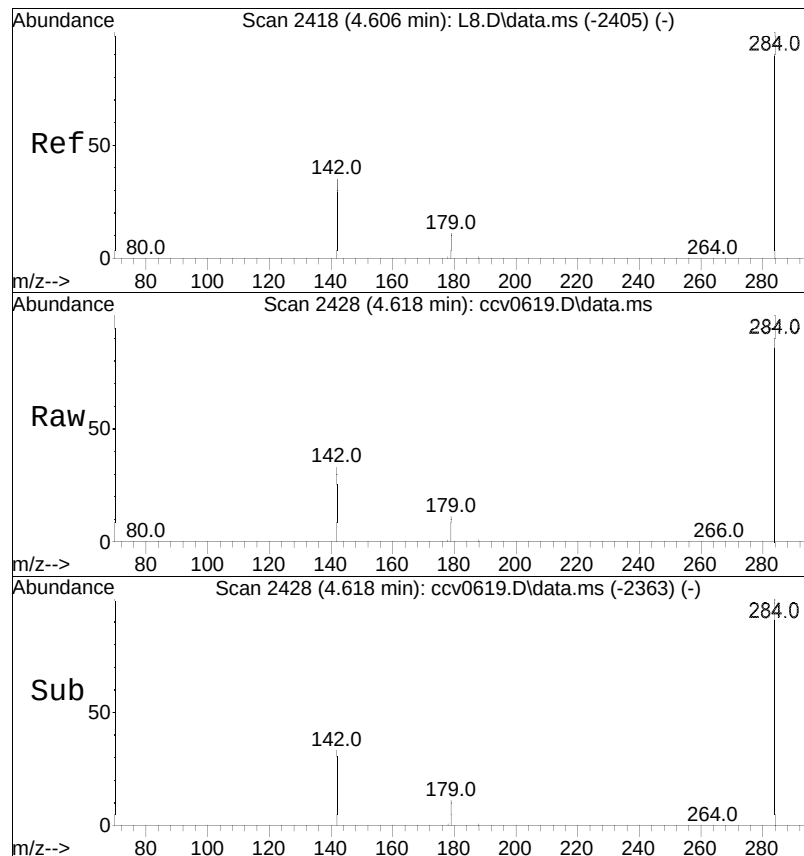




#24
 4,6-Dinitro-o-cresol
 Concen: 1124.17 ng/ml
 RT: 4.323 min Scan# 2259
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

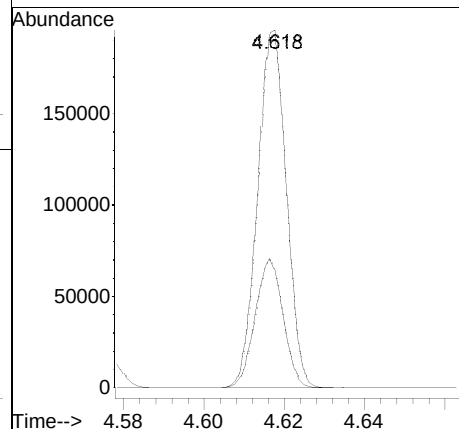
Tgt Ion	Ratio	Lower	Upper
198	100		
105	40.4	32.1	48.1

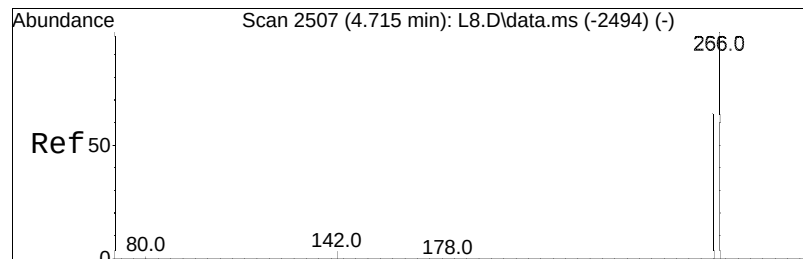




#25
 Hexachlorobenzene
 Concen: 1102.55 ng/ml
 RT: 4.618 min Scan# 2428
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.3	28.8	43.2





#26

Pentachlorophenol

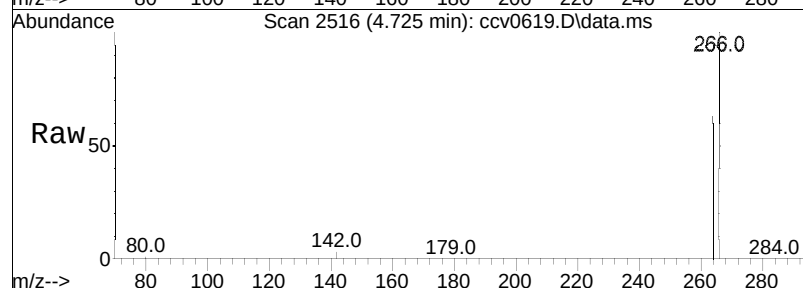
Concen: 1285.75 ng/ml

RT: 4.725 min Scan# 2516

Delta R.T. 0.000 min

Lab File: ccv0619.D

Acq: 19 Jun 2025 01:12 pm

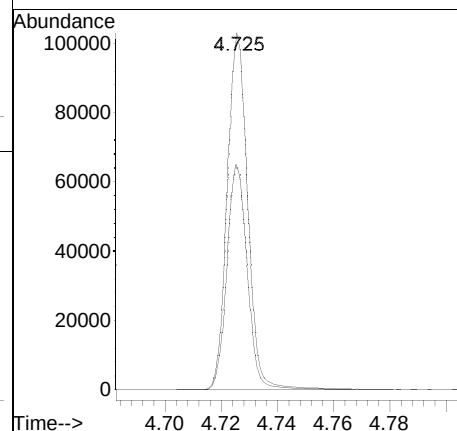
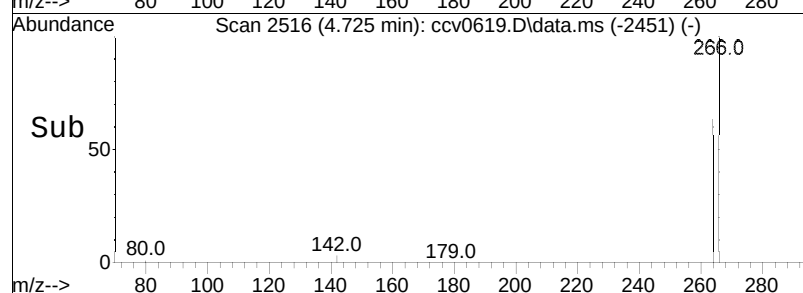


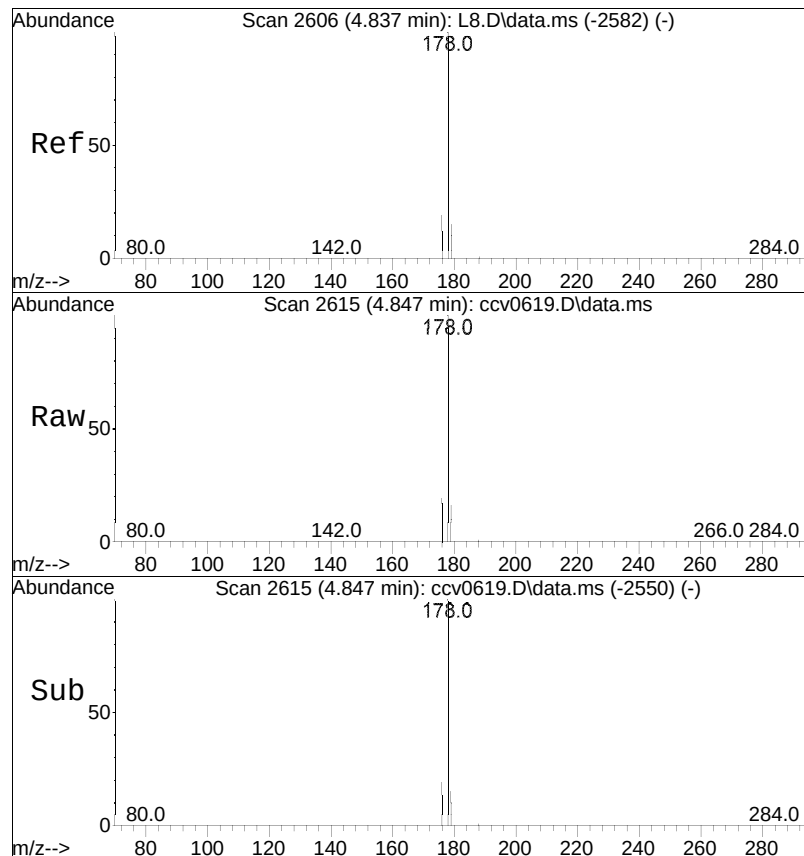
Tgt Ion: 266 Resp: 51458

Ion Ratio Lower Upper

266 100

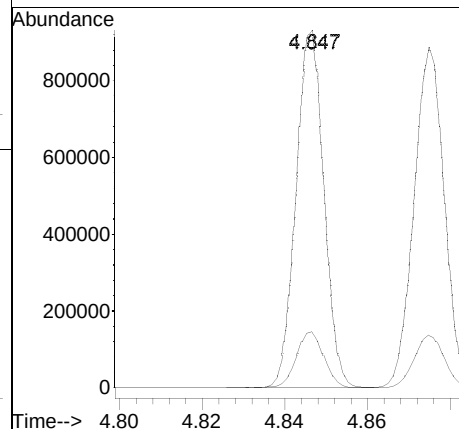
264 63.1 50.6 76.0

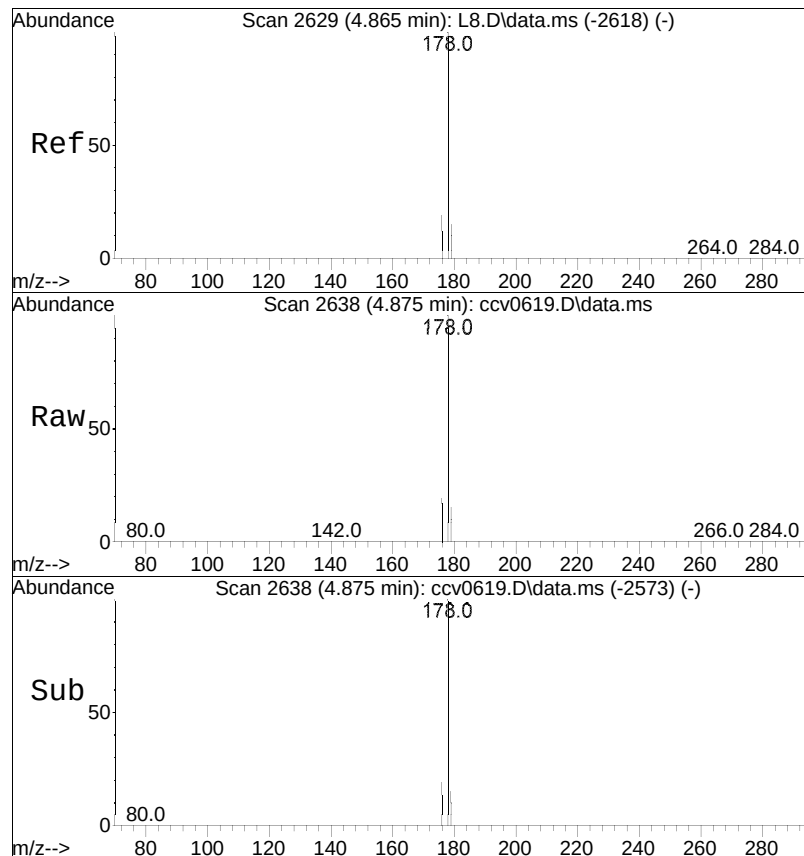




#27
 Phenanthrene
 Concen: 1051.55 ng/ml
 RT: 4.847 min Scan# 2615
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

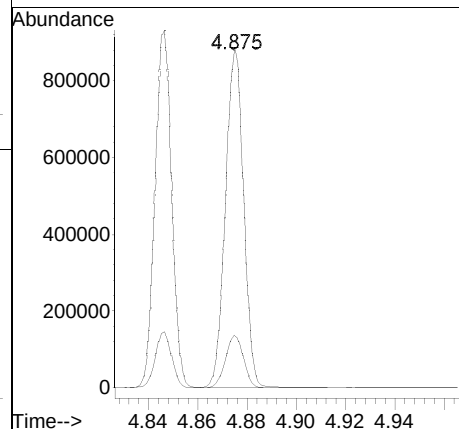
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.4	18.6

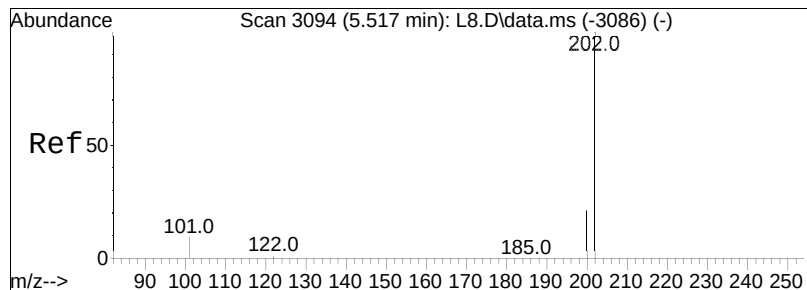




#28
 Anthracene
 Concen: 1116.93 ng/ml
 RT: 4.875 min Scan# 2638
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

Tgt	Ion	Ratio	Lower	Upper
178	100			
179	15.4	12.2	18.2	





#29

Fluoranthene

Concen: 1077.25 ng/ml

RT: 5.526 min Scan# 3100

Delta R.T. 0.000 min

Lab File: ccv0619.D

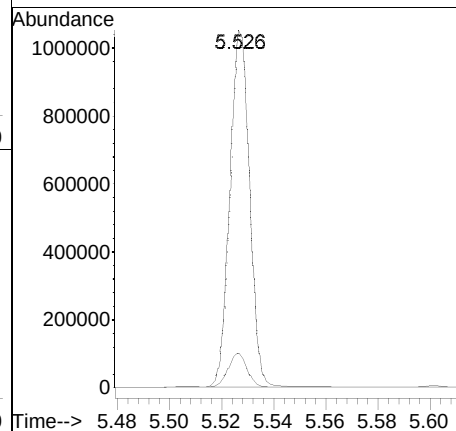
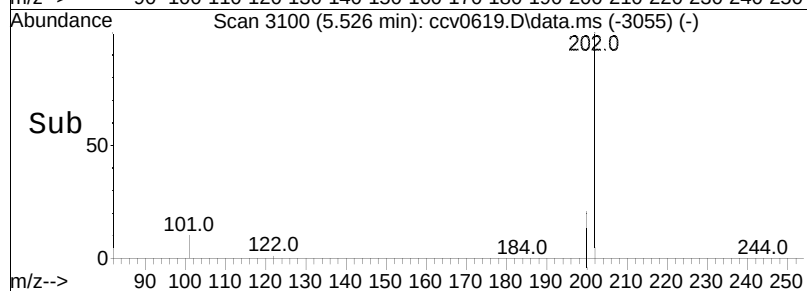
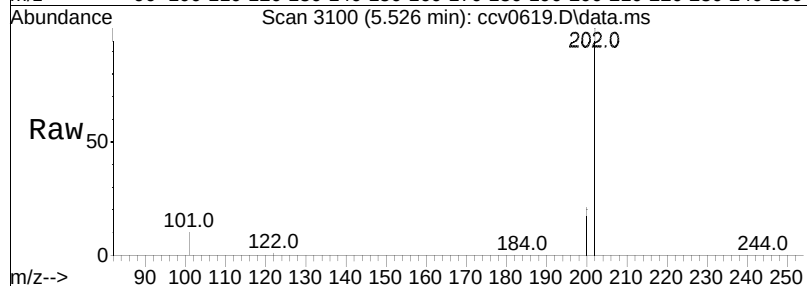
Acq: 19 Jun 2025 01:12 pm

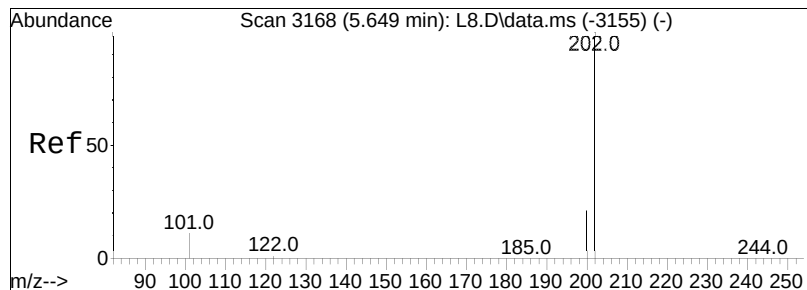
Tgt Ion: 202 Resp: 544190

Ion Ratio Lower Upper

202 100

101 9.4 7.5 11.3





#30

Pyrene

Concen: 1068.82 ng/ml

RT: 5.658 min Scan# 3174

Delta R.T. 0.000 min

Lab File: ccv0619.D

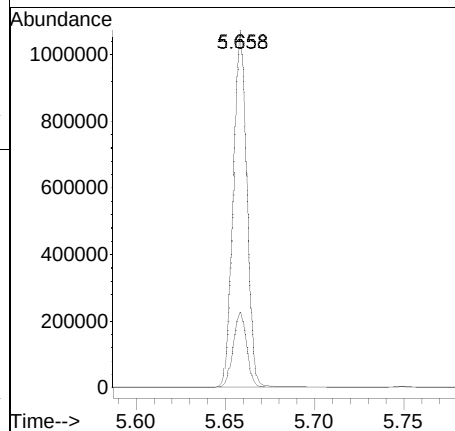
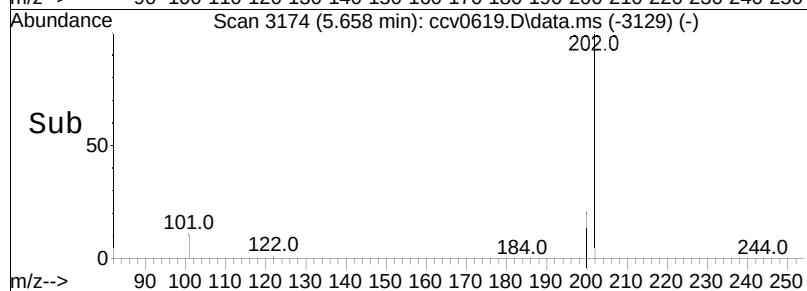
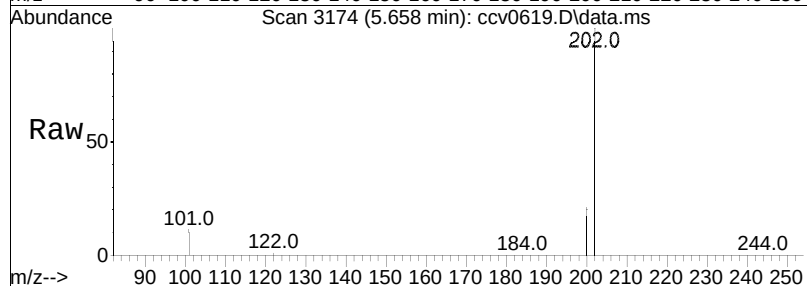
Acq: 19 Jun 2025 01:12 pm

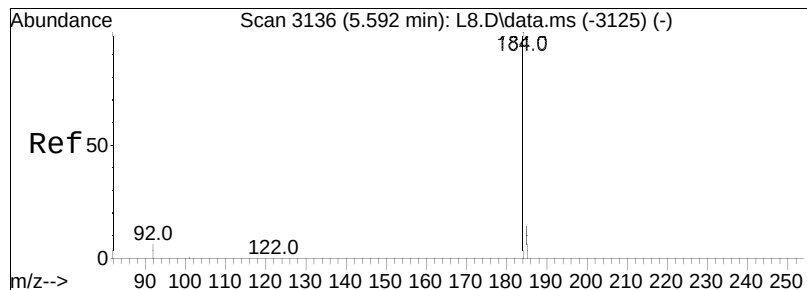
Tgt Ion: 202 Resp: 557106

Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.4





#31

Benzidine

Concen: 1248.84 ng/mL

RT: 5.601 min Scan# 3142

Delta R.T. 0.000 min

Lab File: ccv0619.D

Acq: 19 Jun 2025 01:12 pm

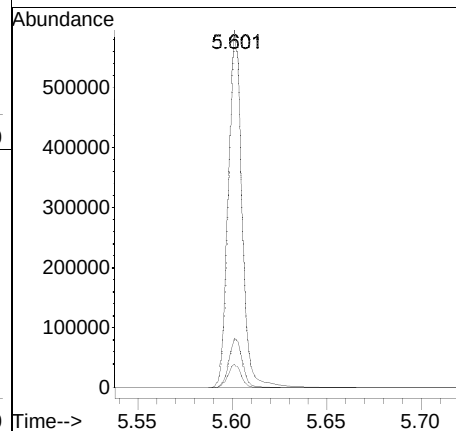
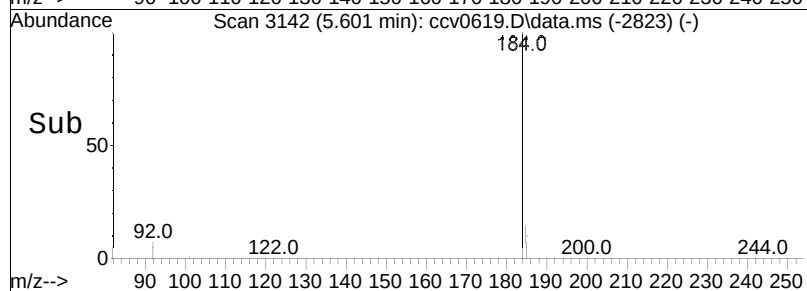
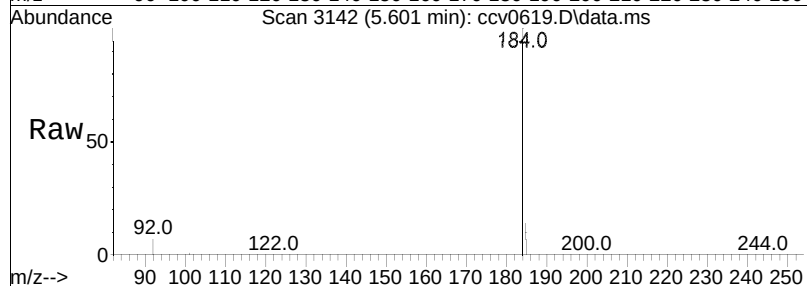
Tgt Ion:184 Resp: 294686

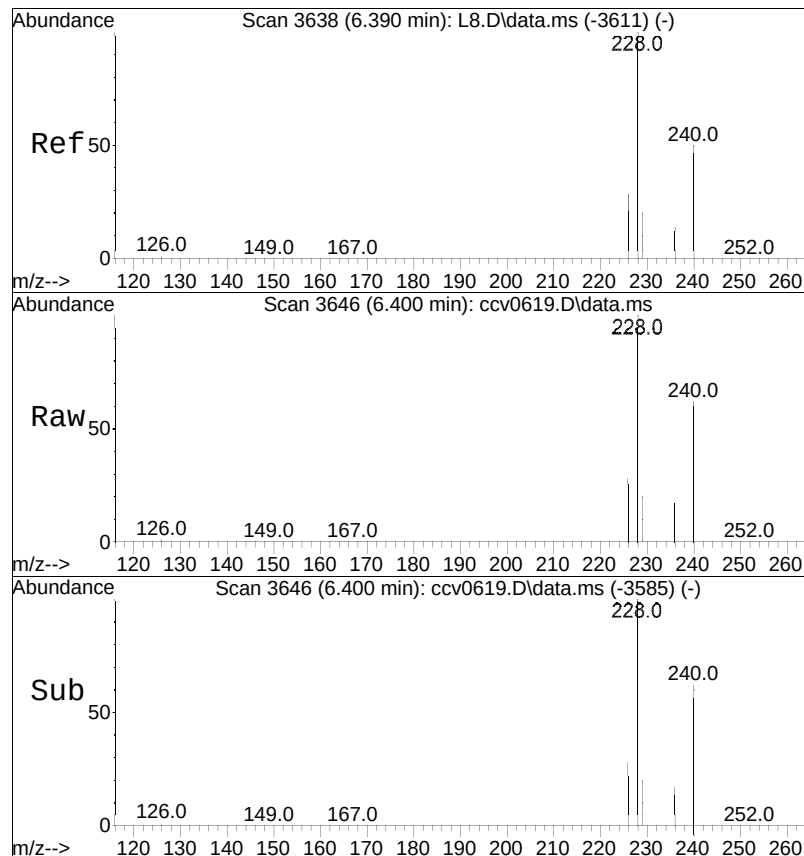
Ion Ratio Lower Upper

184 100

92 6.5 5.2 7.8

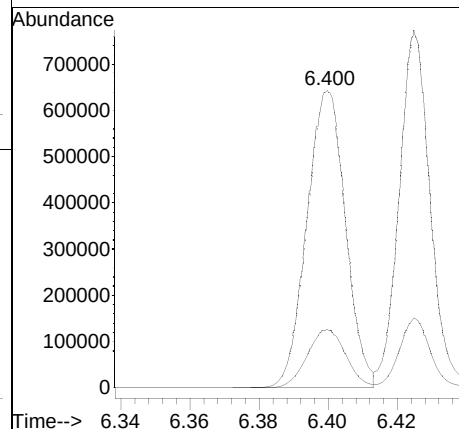
185 14.0 11.2 16.8

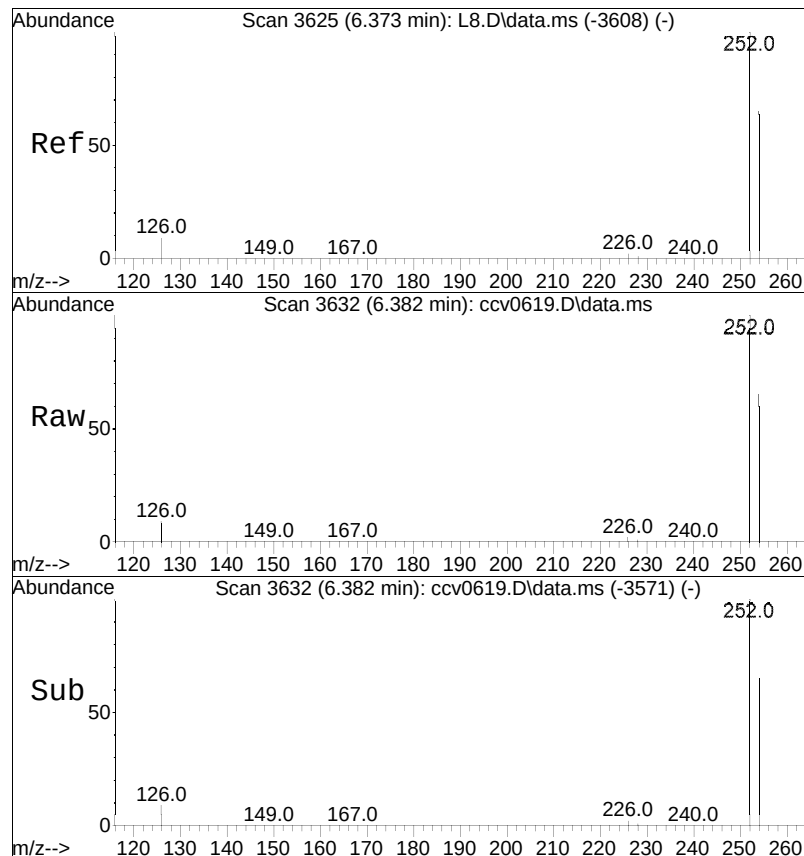




#34
 Benzo[a]anthracene
 Concen: 1078.65 ng/ml
 RT: 6.400 min Scan# 3646
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

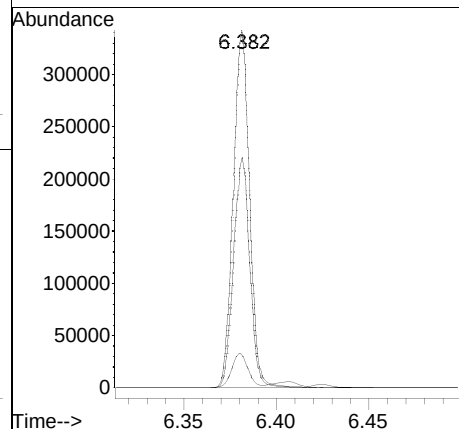
Tgt	Ion	Ratio	Lower	Upper
228	228	100		
229	229	19.6	15.8	23.6

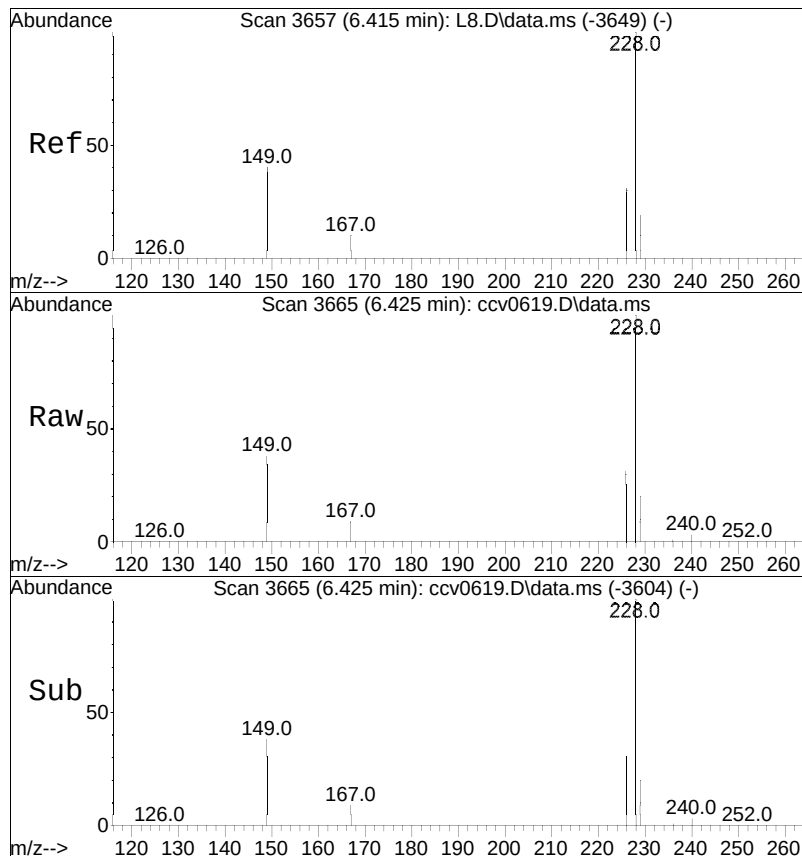




#35
 3,3'-Dichlorobenzidine
 Concen: 1191.59 ng/ml
 RT: 6.382 min Scan# 3632
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

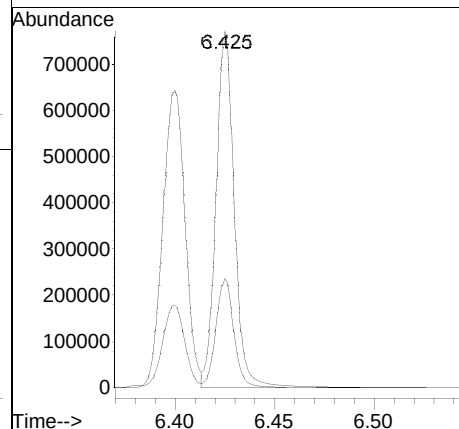
Tgt Ion	Ratio	Lower	Upper
252	100		
126	9.4	7.7	11.5
254	64.4	51.8	77.6

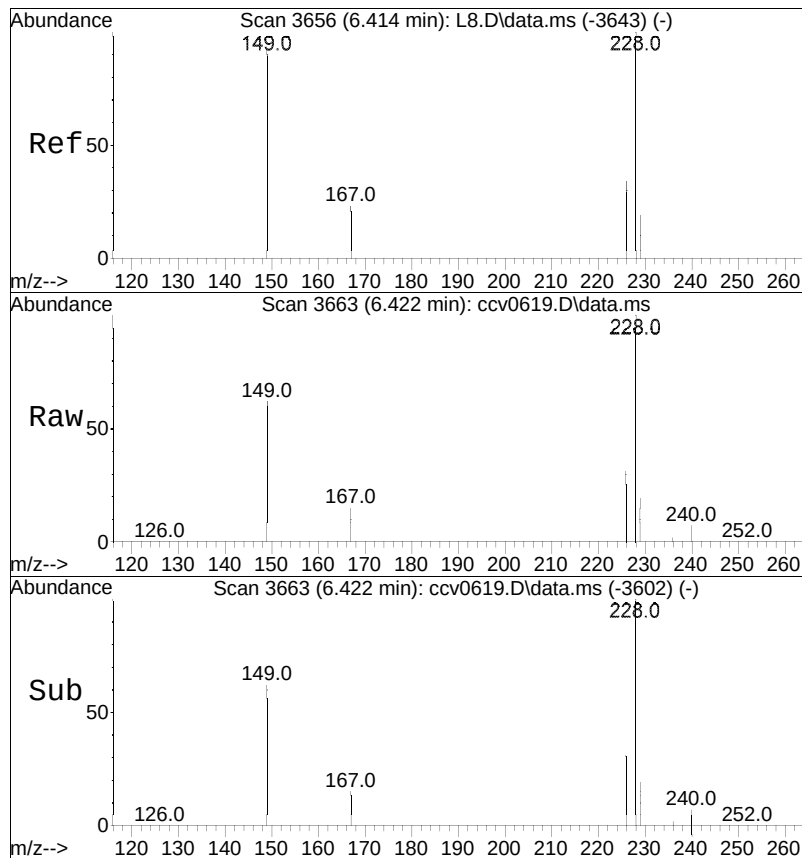




#36
 Chrysene
 Concen: 1129.70 ng/ml
 RT: 6.425 min Scan# 3665
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

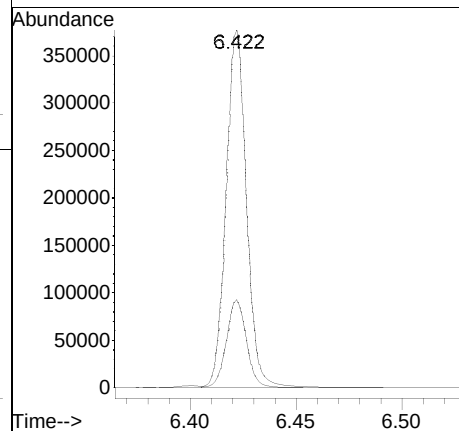
Tgt	Ion	Ratio	Lower	Upper
228	100			
226	30.5	24.6	37.0	

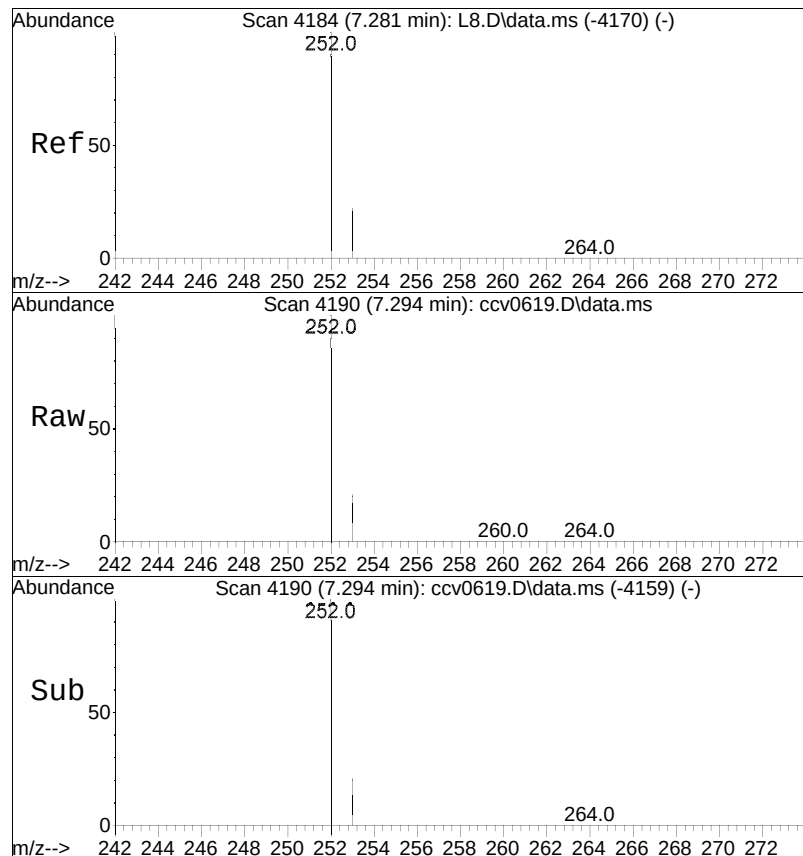




#37
 Bis(2-ethylhexyl)phthalate
 Concen: 979.49 ng/ml
 RT: 6.422 min Scan# 3663
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

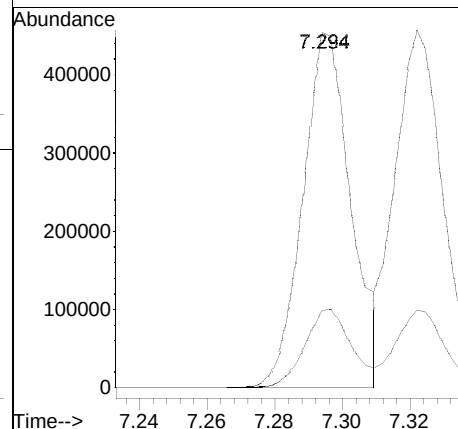
Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.7	19.6	29.4

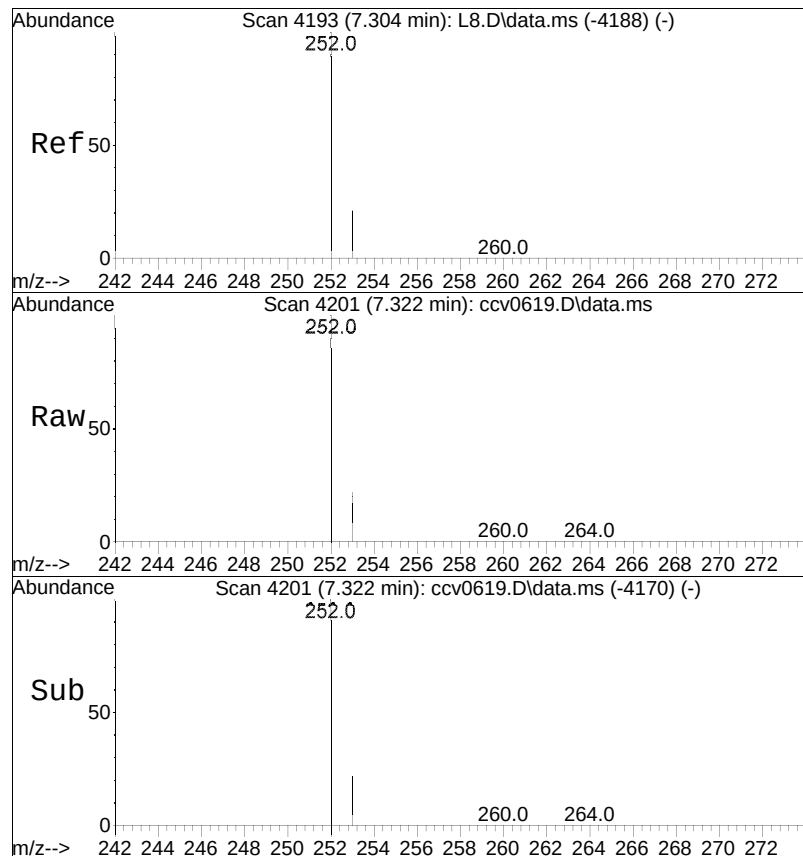




#39
 Benzo[b]fluoranthene
 Concen: 1180.68 ng/ml
 RT: 7.294 min Scan# 4190
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

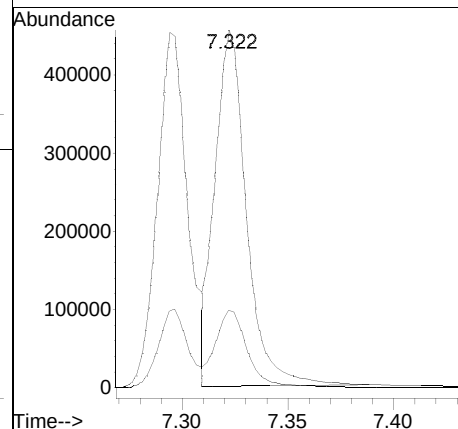
Tgt	Ion:252	Resp:	447183
Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.1	27.1

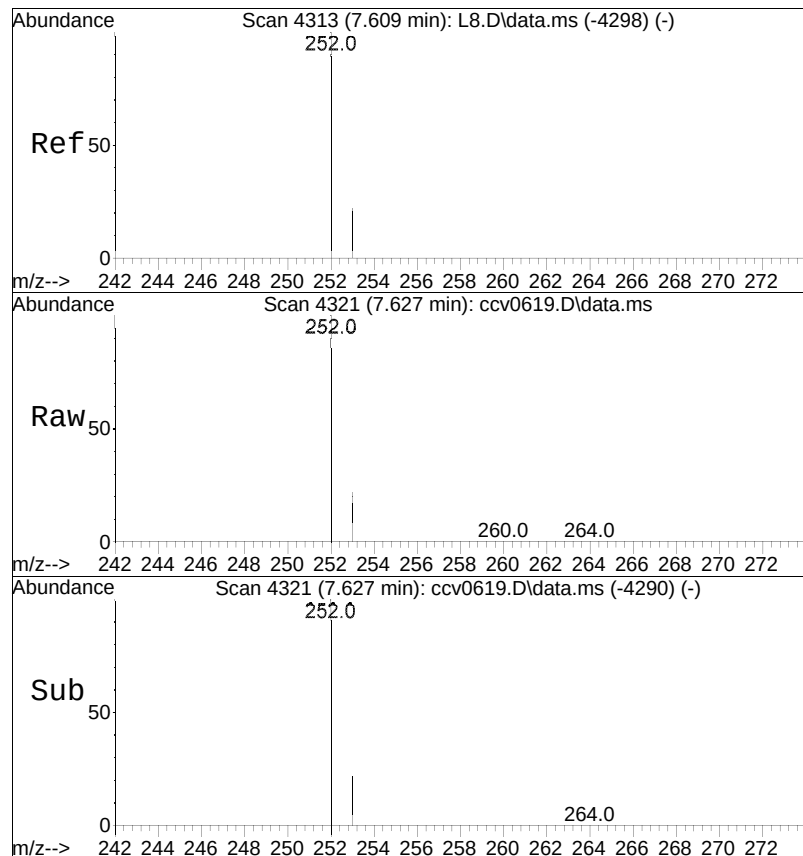




#40
 Benzo[k]fluoranthene
 Concen: 1179.70 ng/ml
 RT: 7.322 min Scan# 4201
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

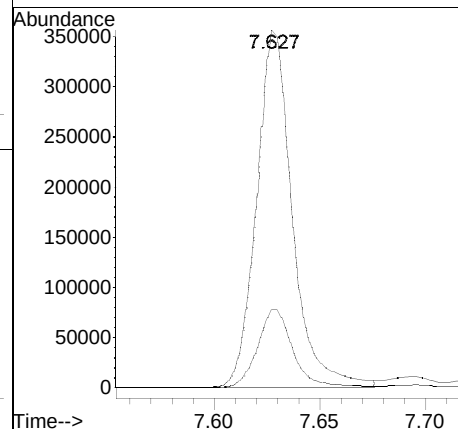
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.9	17.0	25.4	

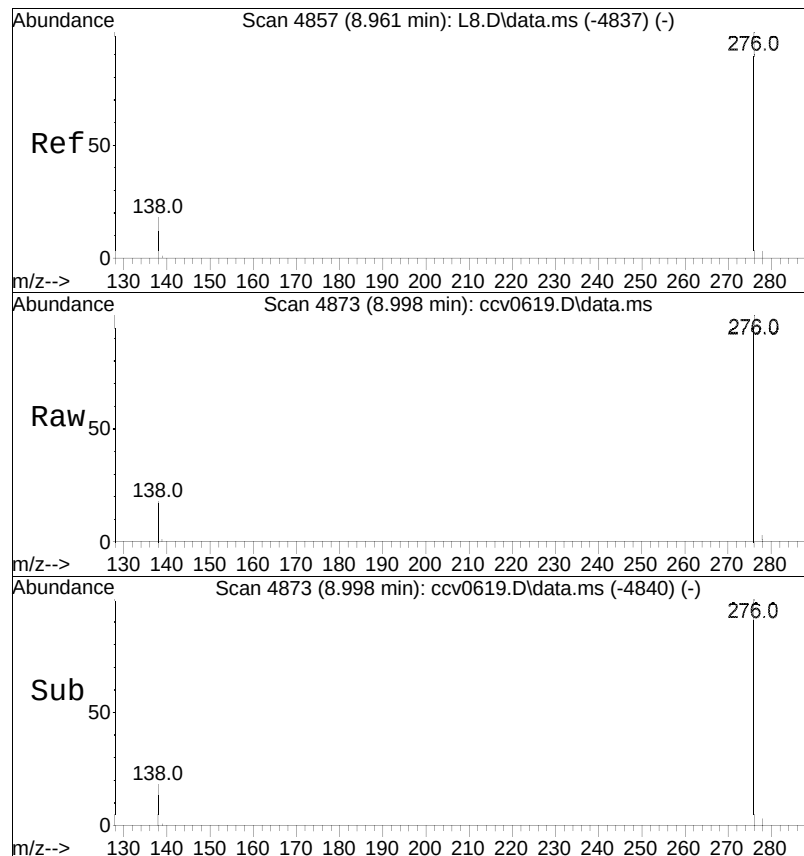




#41
 Benzo[a]pyrene
 Concen: 1201.69 ng/ml
 RT: 7.627 min Scan# 4321
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

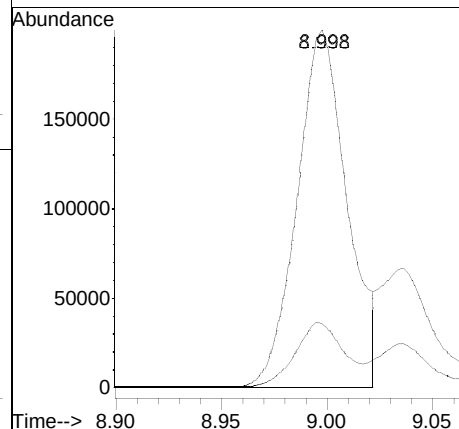
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0

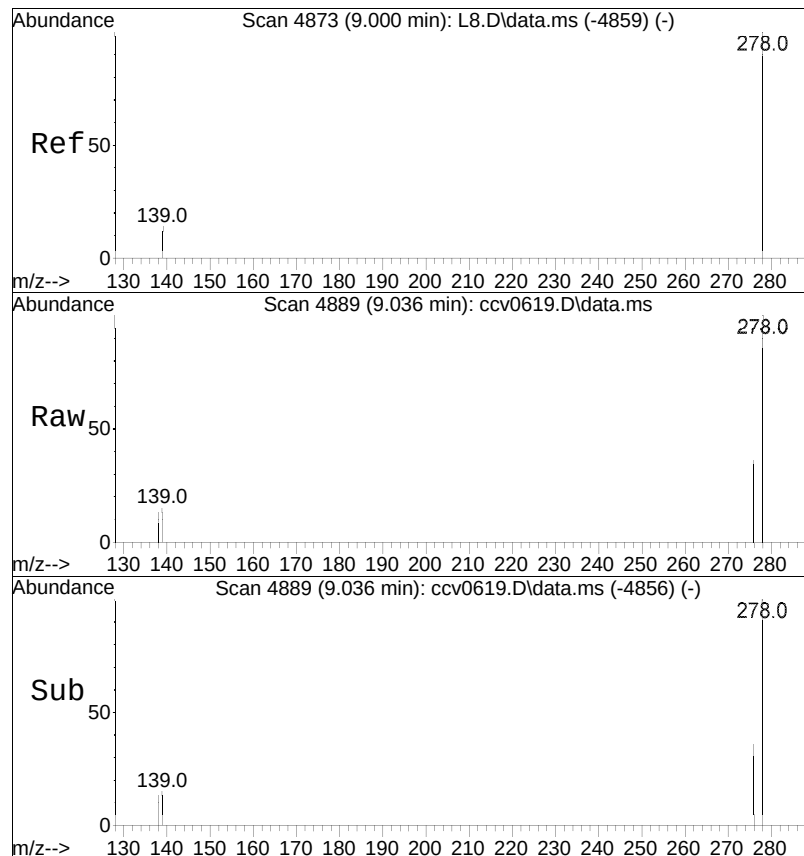




#42
 Indeno[1,2,3-cd]pyrene
 Concen: 908.88 ng/ml
 RT: 8.998 min Scan# 4873
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

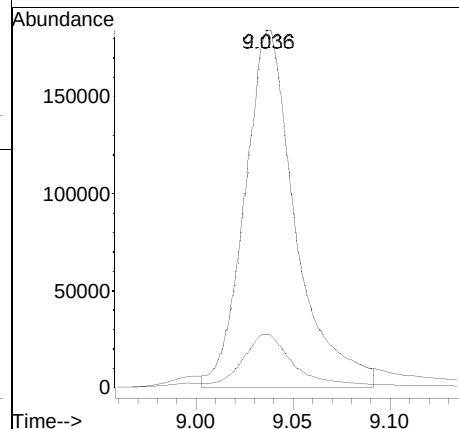
Tgt	Ion	Ratio	Lower	Upper
276	100			
138	17.6	14.4	21.6	

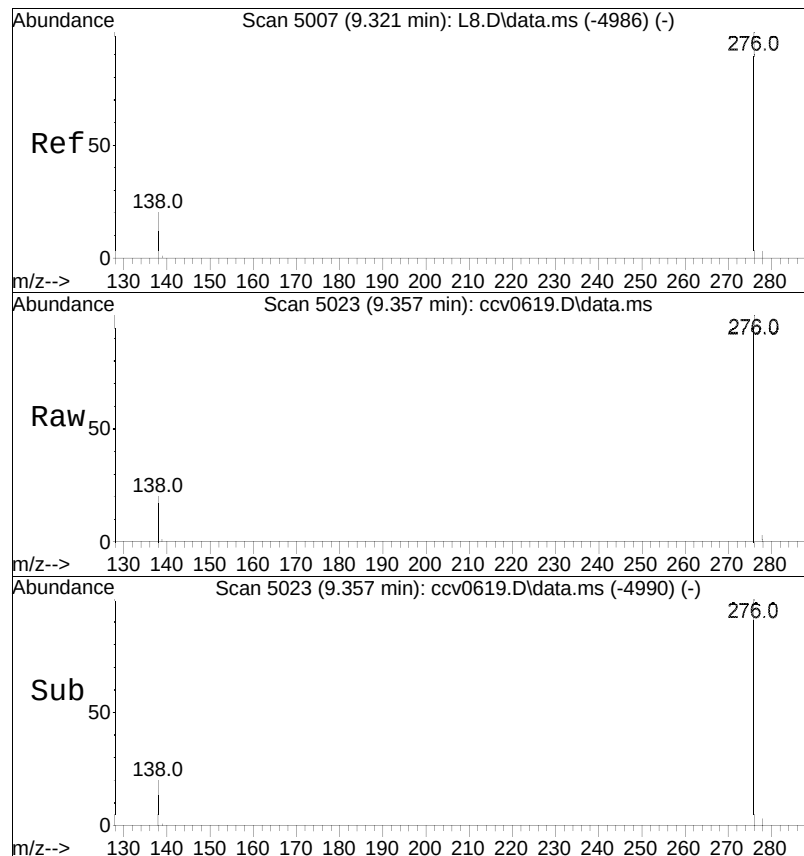




#43
 Dibenzo[a,h]anthracene
 Concen: 971.63 ng/ml M6
 RT: 9.036 min Scan# 4889
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

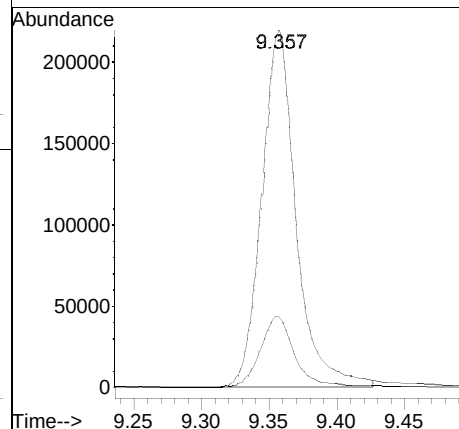
Tgt	Ion	Ratio	Lower	Upper
278	100			
139	14.2	12.1	18.1	





#44
 Benzo[g,h,i]perylene
 Concen: 1028.74 ng/ml
 RT: 9.357 min Scan# 5023
 Delta R.T. 0.000 min
 Lab File: ccv0619.D
 Acq: 19 Jun 2025 01:12 pm

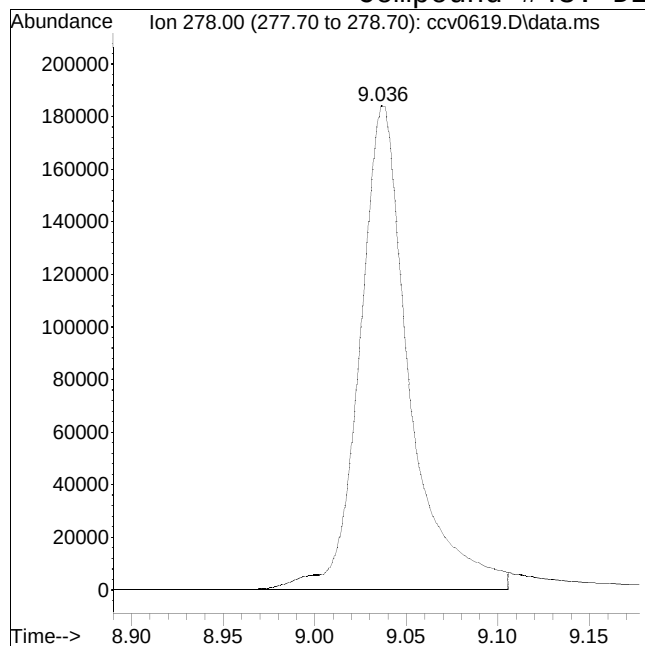
Tgt	Ion	Ratio	Lower	Upper
276	100			
138	19.9	16.0	24.0	



Manual Integration Report

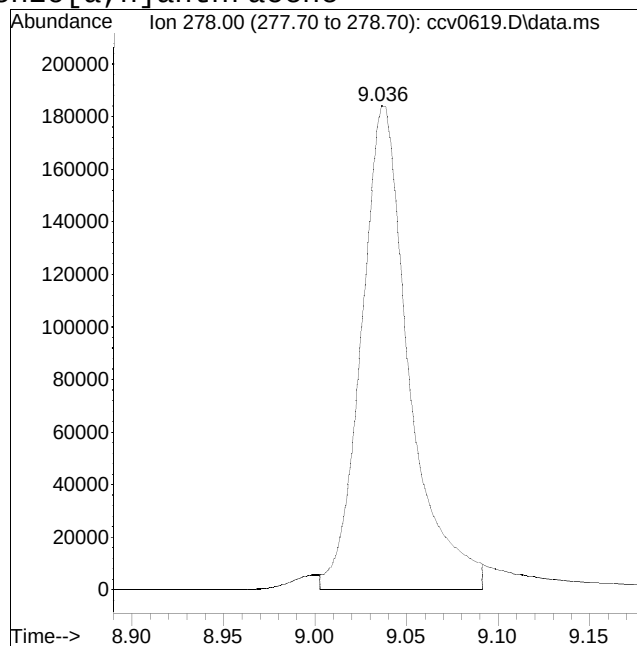
Data Path : I:\8270SIM\sv119\250619RVTQMethod : SIM-RVT_250618_sv119.M
Data File : ccv0619.D Operator : sv119:dv
Date Inj'd : 6/19/2025 1:12 pm Instrument : SV119
Sample : wg2081054-3,32,,ICV 11696 Quant Date : 6/19/2025 1:39 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 346769

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

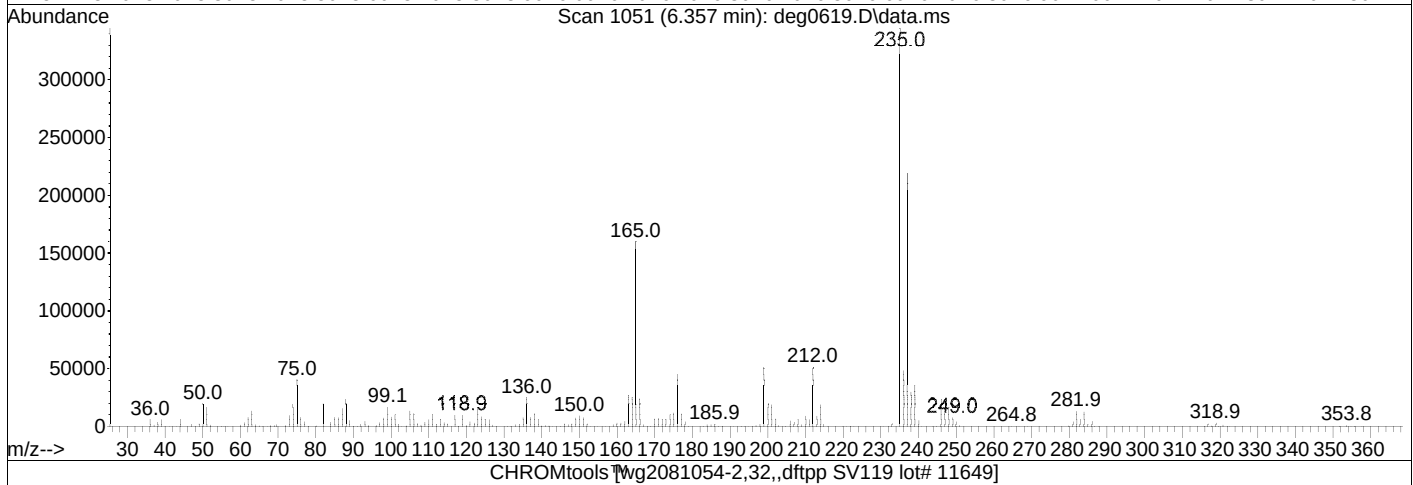
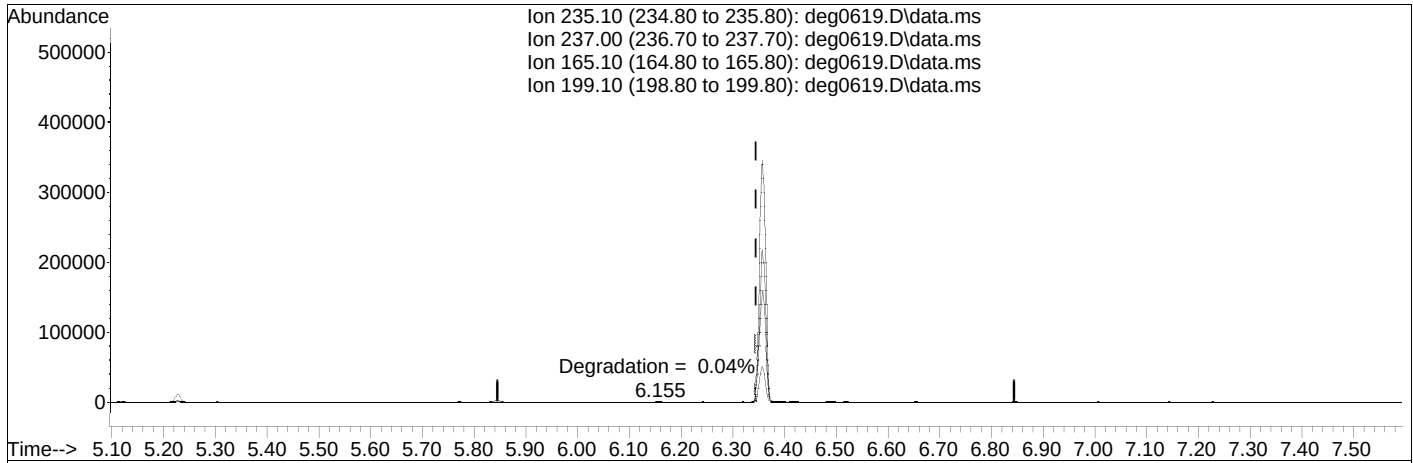


Manual Peak Response = 334402 M6

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250619RVT\
Data File : deg0619.D
Acq On : 19 Jun 2025 12:55 pm
Operator : sv119:dv
Sample : wg2081054-2,32,,dftpp SV119 lot# 11649
Misc : wg2081054,,ical22394
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 19 13:09:15 2025
Quant Method : I:\8270SIM\sv119\250619RVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 18 18:30:20 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools [wg2081054-2,32,,dftpp SV119 lot# 11649]

(6) ddt (T)

6.357min (+ 0.012) 43.67

response 266186

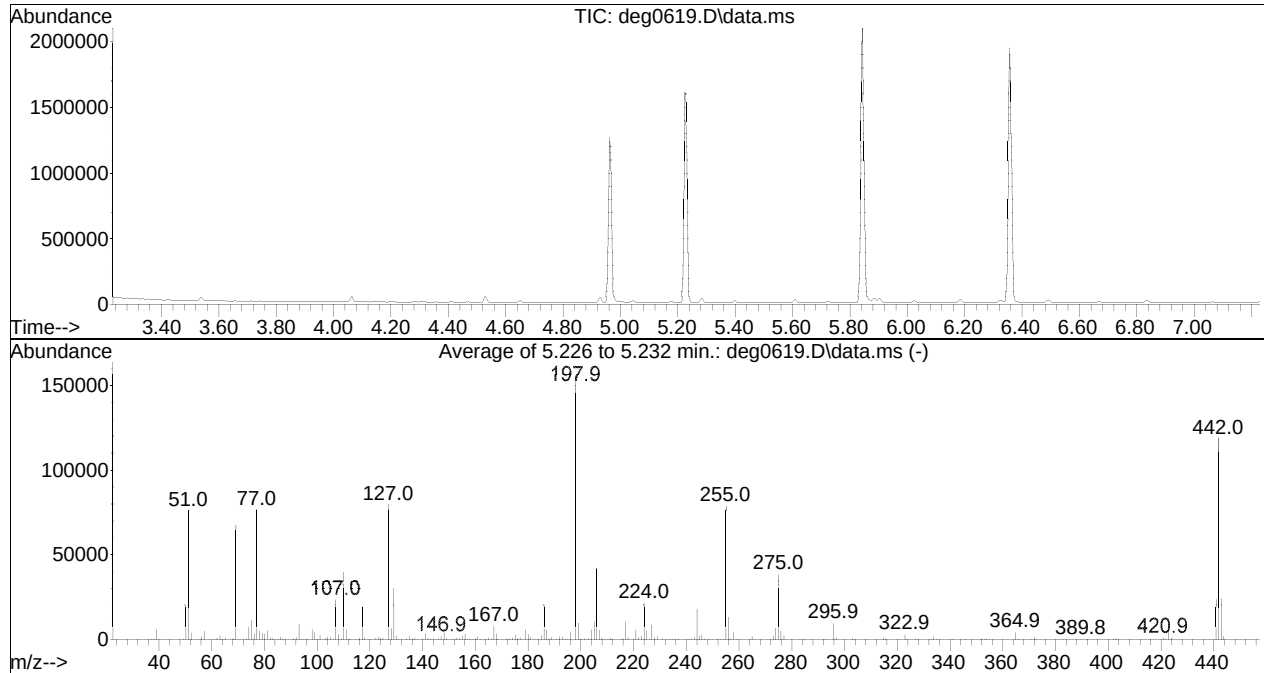
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	62.76
165.10	53.30	47.23
199.10	17.10	14.66

DFTPP

Data Path : I:\8270SIM\sv119\250619RVT\
 Data File : deg0619.D
 Acq On : 19 Jun 2025 12:55 pm
 Operator : sv119:dv
 Sample : wg2081054-1,32,,dftpp SV119 lot# 11649
 Misc : wg2081054,,ical22394
 ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\250619RVT\dftppsv119.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Jun 18 18:30:20 2025



Spectrum Information: Average of 5.226 to 5.232 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	48.8	76074	PASS
68	69	0.00	2	1.6	1087	PASS
70	69	0.00	2	0.6	426	PASS
127	198	10	80	51.0	79499	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	155773	PASS
199	198	5	9	6.3	9822	PASS
275	198	10	60	24.6	38317	PASS
365	198	1	100	2.8	4319	PASS
441	442	0.01	24	19.8	23512	PASS
442	198	50	100	76.0	118461	PASS
443	442	15	24	20.4	24139	PASS

Average of 5.226 to 5.232 min.: deg0619.D\data.ms

wg2081054-1,32,,dftpp SV119 lot# 11649

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	2	52.90	120	67.00	219	80.00	3670
36.95	504	54.95	307	68.05	1087	81.00	5422
37.95	896	56.00	2273	69.00	67496	82.00	1603
39.05	6073	57.00	5323	69.90	426	82.90	1189
39.90	209	57.90	135	73.00	1001	85.00	667
41.00	157	59.00	221	74.00	7578	86.00	1809
44.85	7	61.00	665	74.95	11592	86.90	946
49.00	795	61.90	1172	76.05	3570	87.90	298
50.05	20479	63.00	2796	77.00	76392	89.00	157
51.05	76074	63.85	667	78.10	5242	90.95	1133
52.00	4179	65.00	1333	79.00	4104	92.00	1424

Average of 5.226 to 5.232 min.: deg0619.D\data.ms

wg2081054-1,32,,dftpp SV119 lot# 11649

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	9046	103.90	1985	115.00	216	127.00	79499
93.90	605	105.00	1840	115.90	1273	128.00	6731
94.90	306	105.95	821	117.00	19109	129.00	29688
95.85	499	107.00	23360	117.95	1481	129.95	2507
96.60	171	108.00	3356	118.90	271	130.85	524
98.00	6144	109.00	950	119.90	291	131.70	140
99.00	4645	110.00	39603	121.00	111	132.20	66
99.90	421	110.90	5894	121.90	1322	132.80	72
100.95	2978	112.00	733	123.00	1916	133.90	1060
101.90	220	112.85	188	123.90	1057	134.95	2162
102.90	1166	114.50	174	124.90	1281	135.90	783

Average of 5.226 to 5.232 min.: deg0619.D\data.ms

wg2081054-1,32,,dftpp SV119 lot# 11649

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.00	1336	148.00	4383	157.85	827	168.80	750
137.85	356	148.90	1130	158.90	358	170.25	346
138.75	153	149.85	334	159.90	1219	170.70	122
140.00	439	150.95	529	160.90	2000	171.80	693
140.90	3794	151.70	92	161.90	572	172.90	712
141.90	1475	152.20	135	163.10	121	174.00	1410
142.90	880	152.90	1295	163.90	285	175.00	3035
143.90	237	153.80	1041	164.90	1376	175.90	898
144.80	342	155.00	2429	166.00	861	176.90	1602
145.90	933	156.00	3426	167.00	7873	177.90	381
146.95	2247	156.80	607	167.95	3639	179.00	5812

Average of 5.226 to 5.232 min.: deg0619.D\data.ms

wg2081054-1,32,,dftpp SV119 lot# 11649

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.00	3333	190.85	644	202.00	252	211.70	401
180.90	1883	191.90	1972	202.90	1217	212.80	152
181.95	363	192.90	1784	204.00	6012	214.95	488
182.85	297	193.95	621	205.00	10738	215.90	981
183.75	465	194.95	469	206.00	41709	216.90	10470
184.95	2706	195.90	4764	207.00	5850	217.90	1645
186.00	20341	197.90	155773	207.90	1156	218.90	253
187.00	6094	198.90	9822	209.00	501	220.90	5763
187.90	797	200.00	813	209.80	207	221.90	1436
188.90	1574	200.70	257	210.20	454	222.95	2599
189.95	204	201.30	1035	211.00	1523	224.00	21436

Average of 5.226 to 5.232 min.: deg0619.D\data.ms

wg2081054-1,32,,dftpp SV119 lot# 11649

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
224.90	5496	236.90	691	247.60	56	258.95	523
226.00	584	238.90	256	248.85	634	259.90	124
226.90	8683	240.10	271	250.05	135	260.80	64
227.90	1412	240.75	403	250.65	115	261.00	57
228.90	2259	241.20	293	251.90	326	264.00	57
229.95	279	241.90	1035	252.95	560	264.90	2210
230.90	892	243.00	1813	254.00	611	265.80	462
233.10	226	244.00	17932	255.00	78635	267.70	55
233.80	520	245.00	2408	256.00	13258	270.10	63
234.90	689	245.90	3157	256.90	922	270.95	153
235.80	456	246.85	704	257.95	4648	271.30	135

Average of 5.226 to 5.232 min.: deg0619.D\data.ms

wg2081054-1,32,,dftpp SV119 lot# 11649

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
271.85	184	283.90	311	300.65	188	320.90	333
273.00	2364	285.05	415	302.10	62	321.75	143
273.90	6811	288.80	69	303.00	1244	322.95	3160
275.00	38317	289.00	154	303.90	354	323.95	526
275.95	5090	289.70	56	307.80	153	325.00	168
277.00	2737	291.90	177	308.90	127	327.00	688
277.85	289	292.85	627	312.80	123	327.90	361
278.80	58	293.90	230	313.80	352	332.90	363
280.85	242	295.10	142	314.90	1398	333.95	1997
281.80	4	295.90	9651	315.75	598	334.90	552
282.90	355	296.95	1459	316.80	54	340.90	567

Average of 5.226 to 5.232 min.: deg0619.D\data.ms

wg2081054-1,32,,dftpp SV119 lot# 11649

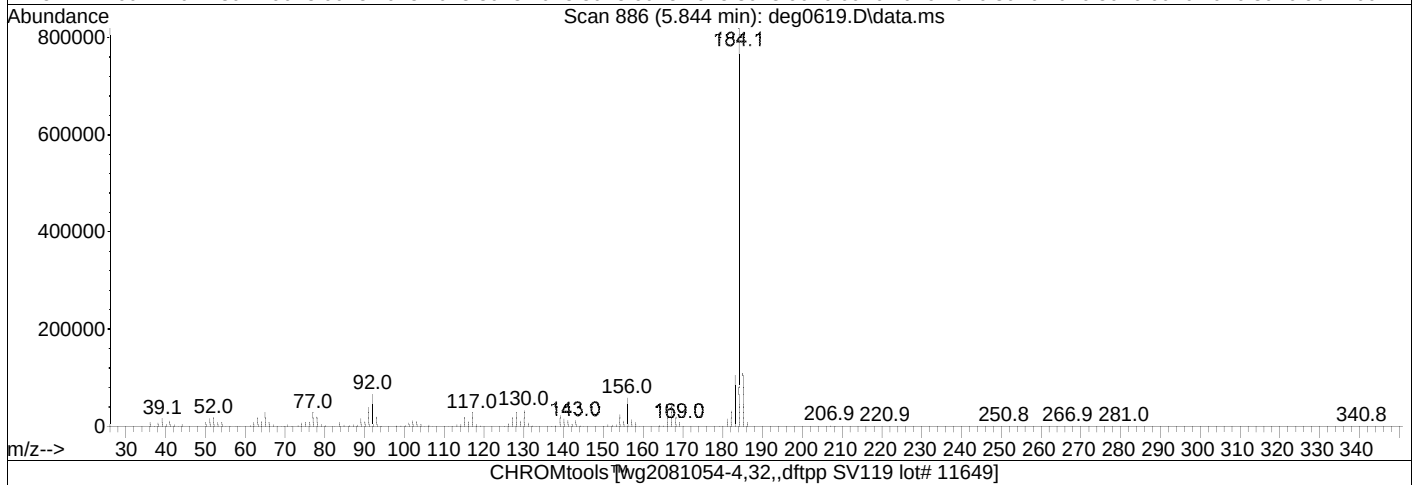
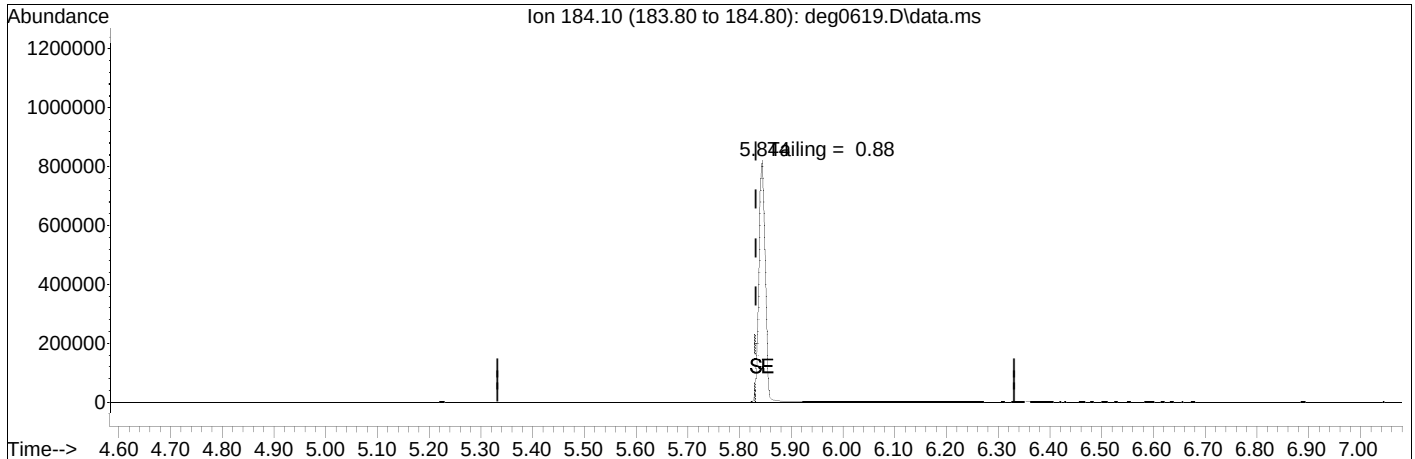
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
341.90	140	371.95	1730	422.00	817		
345.90	669	372.85	368	423.00	6072		
346.70	125	382.60	57	424.00	1378		
351.95	886	383.00	347	425.00	51		
353.05	605	389.80	226	435.75	107		
353.95	1003	391.00	108	436.80	52		
355.00	409	391.90	221	438.75	433		
363.50	55	402.00	677	441.00	23512		
364.90	4319	403.00	996	442.00	118461		
365.90	480	403.80	361	443.00	24139		
370.80	491	420.90	1429	443.90	2227		

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250619RVT\
 Data File : deg0619.D
 Acq On : 19 Jun 2025 12:55 pm
 Operator : sv119:dv
 Sample : wg2081054-4,32,,dftpp SV119 lot# 11649
 Misc : wg2081054,,ical22394
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 19 13:09:15 2025
 Quant Method : I:\8270SIM\sv119\250619RVT\dftppsv119.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 18 18:30:20 2025
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools [wg2081054-4,32,,dftpp SV119 lot# 11649]

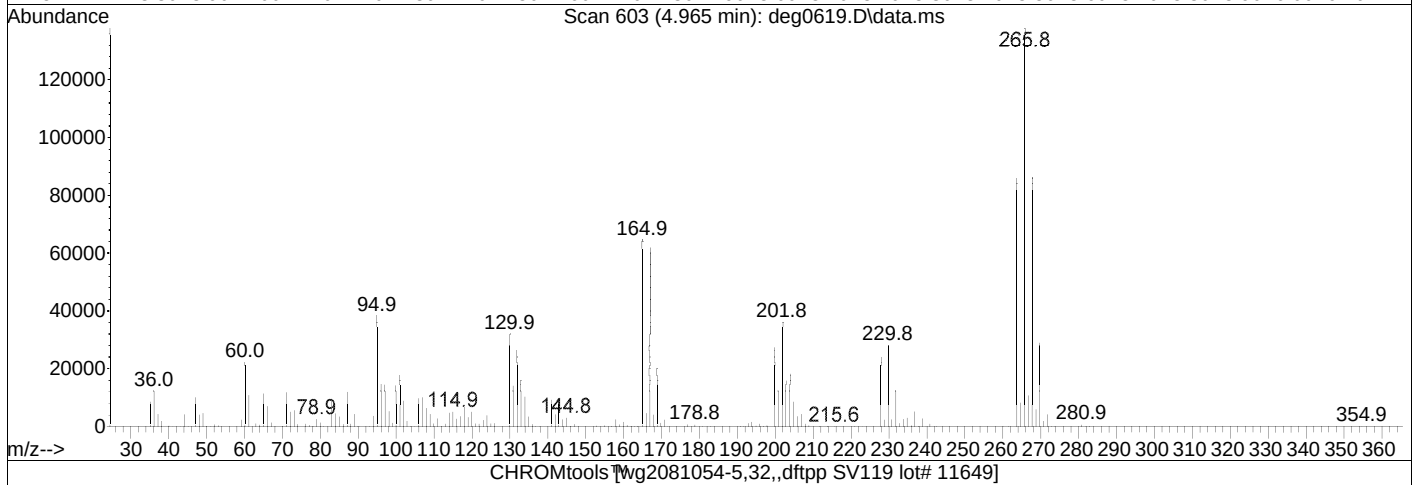
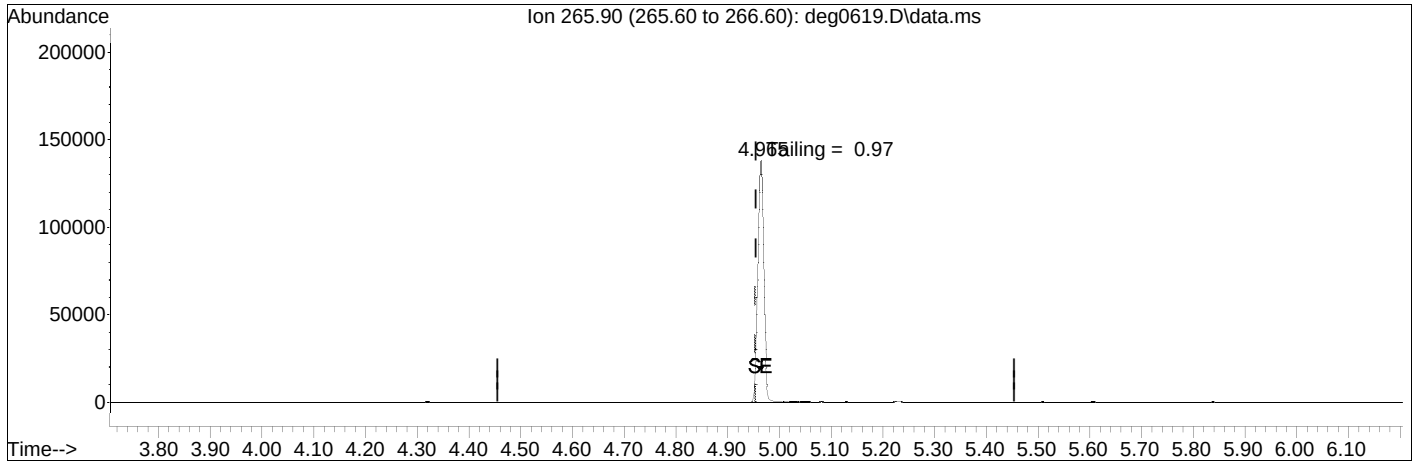
(3) benzidine (T)
 5.844min (+ 0.012) 62.79
 response 639222

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\250619RVT\
Data File : deg0619.D
Acq On : 19 Jun 2025 12:55 pm
Operator : sv119:dv
Sample : wg2081054-5,32,,dftpp SV119 lot# 11649
Misc : wg2081054,,ical22394
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 19 13:09:15 2025
Quant Method : I:\8270SIM\sv119\250619RVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 18 18:30:20 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(1) pentachlorophenol (T)

4.965min (+ 0.010) 49.23

response 103392

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

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : ccv0625a.D
 Acq On : 25 Jun 2025 09:49 am
 Operator : SV118:rp
 Sample : WG2083275-3,32,,ICV 11696 (0622a)
 Misc : WG2083275,,ical21963
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 25 10:17:27 2025
 Quant Method : I:\8270SIM\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:18 2025
 Response via : Initial Calibration

Min. RRF : 0.010 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	114	0.00
2 T	N-Nitrosodimethylamine	0.000	0.706	0.0	0#	0.00
3 s	2-Fluorophenol	1.223	1.248	-2.0	116	0.00
4 s	Phenol-d6	1.466	1.526	-4.1	117	0.00
5 T	Bis(2-chloroethyl)ether	1.301	1.154	11.3	104	0.00
6 T	n-nitrosodi-n-propylamine	0.835	0.825	1.2	106	0.00
7 t	Hexachloroethane	0.544	0.523	3.9	109	0.00
8 s	Nitrobenzene-d5	1.197	1.217	-1.7	110	0.00
9 i	Naphthalene-d8	1.000	1.000	0.0	115	0.00
10 t	Naphthalene	1.137	1.029	9.5	108	0.00
11 t	Hexachlorobutadiene	0.204	0.171	16.2	97	0.00
12 t	2-Methylnaphthalene	0.707	0.635	10.2	104	0.00
13 t	1-Methylnaphthalene	0.719	0.646	10.2	104	0.00
14 s	2-Fluorobiphenyl	0.876	0.769	12.2	105	0.00
15 t	2-Chloronaphthalene	0.765	0.664	13.2	100	0.00
16 t	2,6-Dinitrotoluene	0.170	0.154	9.4	96	0.00
17 t	Acenaphthylene	1.170	1.112	5.0	103	0.00
18 i	Acenaphthene-d10	1.000	1.000	0.0	109	0.00
19 t	Acenaphthene	1.424	1.308	8.1	101	0.00
20 t	2,4-Dinitrotoluene	0.411	0.412	-0.2	98	0.00
21 t	Fluorene	1.566	1.465	6.4	101	0.00
22 s	2,4,6-Tribromophenol	0.185	0.186	-0.5	94	0.00
23 i	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
24 T	4,6-Dinitro-o-cresol	*1000.000	843.832	15.6	93	0.00
25 t	Hexachlorobenzene	0.265	0.230	13.2	90	0.00
26 t	Pentachlorophenol	*1000.000	713.284	28.7#	69	0.00
27 t	Phenanthrene	1.211	1.116	7.8	96	0.00
28 t	Anthracene	1.202	1.165	3.1	98	0.00
29 t	Fluoranthene	1.379	1.292	6.3	96	0.00
30 t	Pyrene	1.427	1.344	5.8	95	0.00
31 T	Benzidine	0.000	0.420	0.0	0#	0.00
32 s	4-Terphenyl-d14	0.929	0.828	10.9	93	0.00
33 i	Chrysene-d12	1.000	1.000	0.0	95	0.00
34 t	Benzo[a]anthracene	0.423	0.377	10.9	87	0.00
35 t	3,3'-Dichlorobenzidine	0.534	0.534	0.0	87	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : ccv0625a.D
 Acq On : 25 Jun 2025 09:49 am
 Operator : SV118:rp
 Sample : WG2083275-3,32,,ICV 11696 (0622a)
 Misc : WG2083275,,ical21963
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 25 10:17:27 2025
 Quant Method : I:\8270SIM\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:18 2025
 Response via : Initial Calibration

Min. RRF : 0.010 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	1.380	1.301	5.7	89	0.00
37 T	Bis(2-ethylhexyl)phthalate	*1000.000	1051.418	-5.1	107	0.00
38 i	Perylene-d12	1.000	1.000	0.0	90	0.00
39 t	Benzo[b]fluoranthene	1.316	1.302	1.1	87	0.00
40 t	Benzo[k]fluoranthene	1.252	1.287	-2.8	86	0.00
41 t	Benzo[a]pyrene	1.095	1.187	-8.4	89	0.00
42 t	Indeno[1,2,3-cd]pyrene	0.971	1.108	-14.1	94	0.00
43 t	Dibenzo[a,h]anthracene	0.937	1.092	-16.5	93	0.00
44 t	Benzo[g,h,i]perylene	1.026	1.147	-11.8	93	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\SV118\250625RVT\
 Data File : ccv0625a.D
 Acq On : 25 Jun 2025 09:49 am
 Operator : SV118:rp
 Sample : WG2083275-3,32,,ICV 11696 (0622a)
 Misc : WG2083275,,ical21963
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 25 10:17:27 2025
 Quant Method : I:\8270SIM\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:18 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	2.095	152	540754	4000.000	ng/ml	0.00
9) Naphthalene-d8	2.760	136	2018759	4000.000	ng/ml	0.00
18) Acenaphthene-d10	3.741	164	1069813	4000.000	ng/ml	0.00
23) Phenanthrene-d10	4.581	188	2024040	4000.000	ng/ml	0.00
33) Chrysene-d12	6.103	240	1764497	4000.000	ng/ml	0.00
38) Perylene-d12	7.217	264	1664687	4000.000	ng/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	1.506	112	168675	1020.077	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	51.00%		
4) Phenol-d6	1.913	99	206298	1041.233	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	52.06%		
8) Nitrobenzene-d5	2.378	82	164473	1016.596	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	101.66%		
14) 2-Fluorobiphenyl	3.363	172	388183	878.135	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	87.81%		
22) 2,4,6-Tribromophenol	4.188	330	49725	1004.790	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	50.24%		
32) 4-Terphenyl-d14	5.499	244	418789	890.673	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	89.07%		
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.068	74	95463	No Calib #		
5) Bis(2-chloroethyl)ether	1.962	93	156040	886.990	ng/ml	97
6) n-nitrosodi-n-propylamine	2.299	70	111477	988.107	ng/ml	99
7) Hexachloroethane	2.351	117	70728	961.154	ng/ml	94
10) Naphthalene	2.771	128	519277	905.241	ng/ml	100
11) Hexachlorobutadiene	2.846	225	86427	841.404	ng/ml	100
12) 2-Methylnaphthalene	3.152	142	320307	897.380	ng/ml	100
13) 1-Methylnaphthalene	3.206	142	326088	898.890	ng/ml	99
15) 2-Chloronaphthalene	3.425	162	335284	868.187	ng/ml	98
16) 2,6-Dinitrotoluene	3.627	165	77836	904.603	ng/ml	97
17) Acenaphthylene	3.659	152	561023	950.055	ng/ml	100
19) Acenaphthene	3.758	153	349883	918.708	ng/ml	99
20) 2,4-Dinitrotoluene	3.854	165	110185	1002.061	ng/ml	96
21) Fluorene	4.050	166	391705	935.474	ng/ml	100
24) 4,6-Dinitro-o-cresol	4.086	198	53783	843.832	ng/ml	97
25) Hexachlorobenzene	4.366	284	116526	869.255	ng/ml	94
26) Pentachlorophenol	4.480	266	47822	713.284	ng/ml	100
27) Phenanthrene	4.593	178	564924	921.861	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : ccv0625a.D
 Acq On : 25 Jun 2025 09:49 am
 Operator : SV118:rp
 Sample : WG2083275-3,32,,ICV 11696 (0622a)
 Misc : WG2083275,,ical21963
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 25 10:17:27 2025
 Quant Method : I:\8270SIM\SV118\250625RVT\SIM-RVT_250203sv118.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 10:18:18 2025
 Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28)	Anthracene	4.623	178	589715	969.537	ng/ml	100
29)	Fluoranthene	5.273	202	653560	936.421	ng/ml	96
30)	Pyrene	5.401	202	679865	941.273	ng/ml	99
31)	Benzidine	5.356	184	212493	No Calib	#	
34)	Benzo[a]anthracene	6.096	226	166235	891.619	ng/ml#	99
35)	3,3'-Dichlorobenzidine	6.089	252	235610	999.602	ng/ml#	98
36)	Chrysene	6.118	228	574040	942.958	ng/ml#	99
37)	Bis(2-ethylhexyl)phtha...	6.137	149	440481	1051.418	ng/ml	100
39)	Benzo[b]fluoranthene	6.872	252	541908	989.334	ng/ml	100
40)	Benzo[k]fluoranthene	6.896	252	535724	1027.917	ng/ml	100
41)	Benzo[a]pyrene	7.155	252	494008	1083.847	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.350	276	460981	1140.963	ng/ml#	89
43)	Dibenzo[a,h]anthracene	8.387	278	454561M6	1165.380	ng/ml	
44)	Benzo[g,h,i]perylene	8.665	276	477362M3	1118.154	ng/ml	

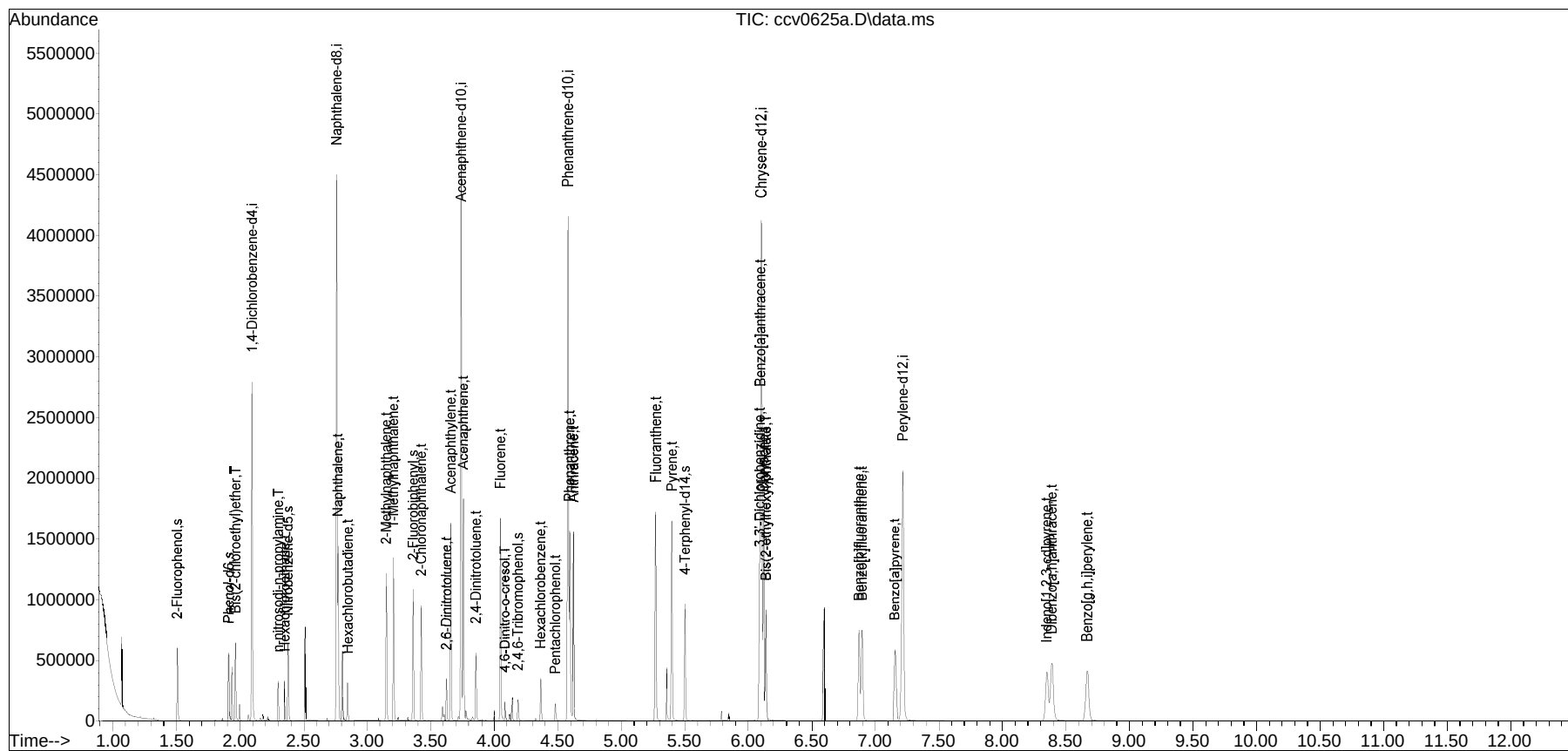
(#) = qualifier out of range (m) = manual integration (+) = signals summed

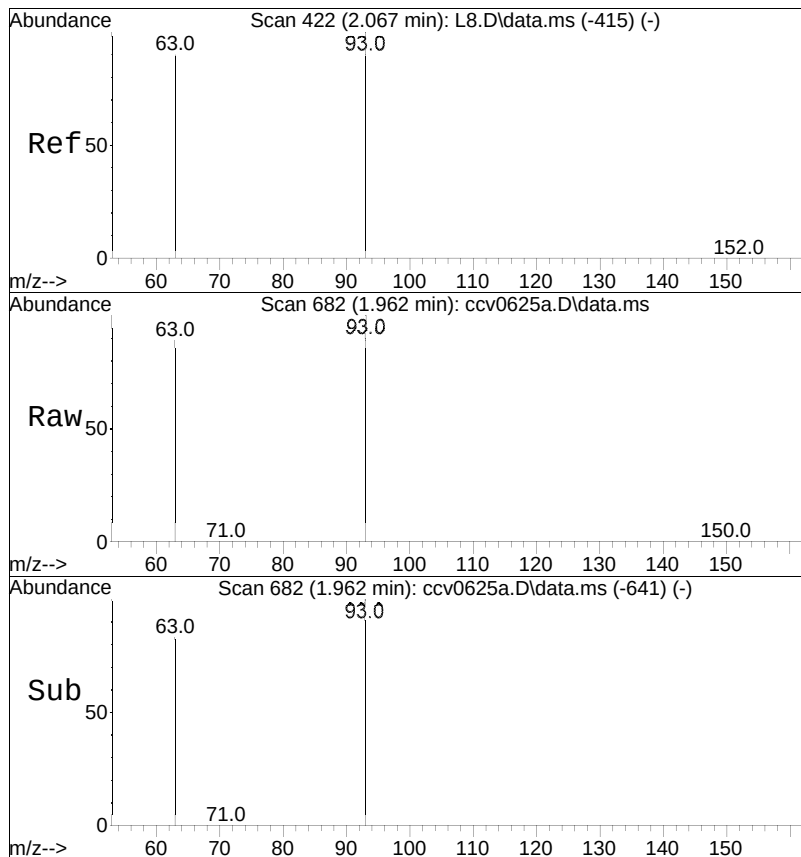
(QT Reviewed)

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Data Path : I:\8270SIM\SV118\250625RVT\  
Data File : ccv0625a.D  
Acq On    : 25 Jun 2025 09:49 am  
Operator  : SV118:rp  
Sample    : WG2083275-3,32,,ICV 11696 (0622a)  
Misc      : WG2083275,,ical21963  
ALS Vial  : 49 Sample Multiplier: 1
```

Quant Time: Jun 25 10:17:27 2025
Quant Method : I:\8270SIM\SV118\250625RVT\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 25 10:18:18 2025
Response via : Initial Calibration

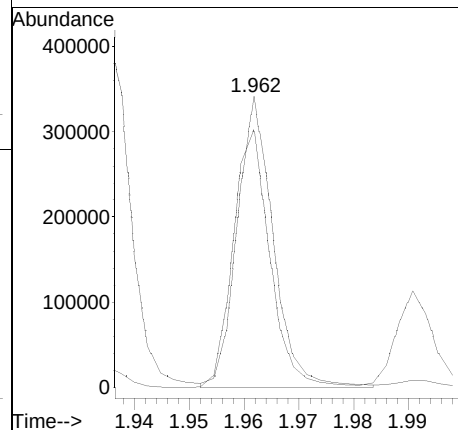
Sub List : Default - All compounds listed

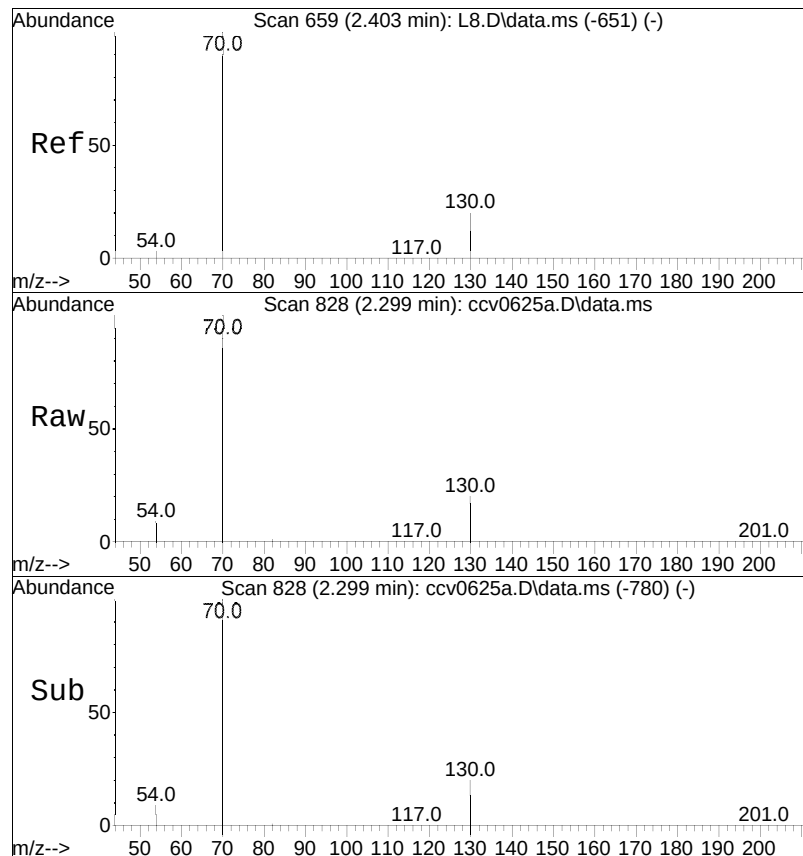




#5
 Bis(2-chloroethyl)ether
 Concen: 886.99 ng/ml
 RT: 1.962 min Scan# 682
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

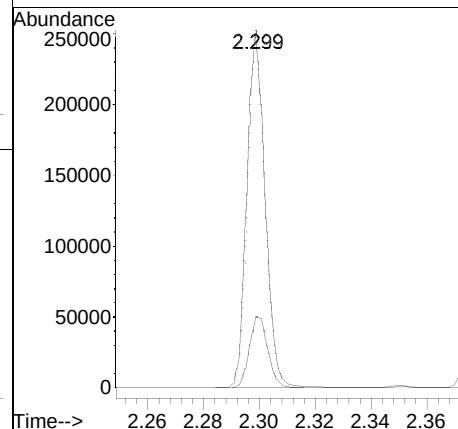
Tgt Ion:	93	Resp:	156040
Ion Ratio	Lower	Upper	
93	100		
63	90.7	70.2	105.4

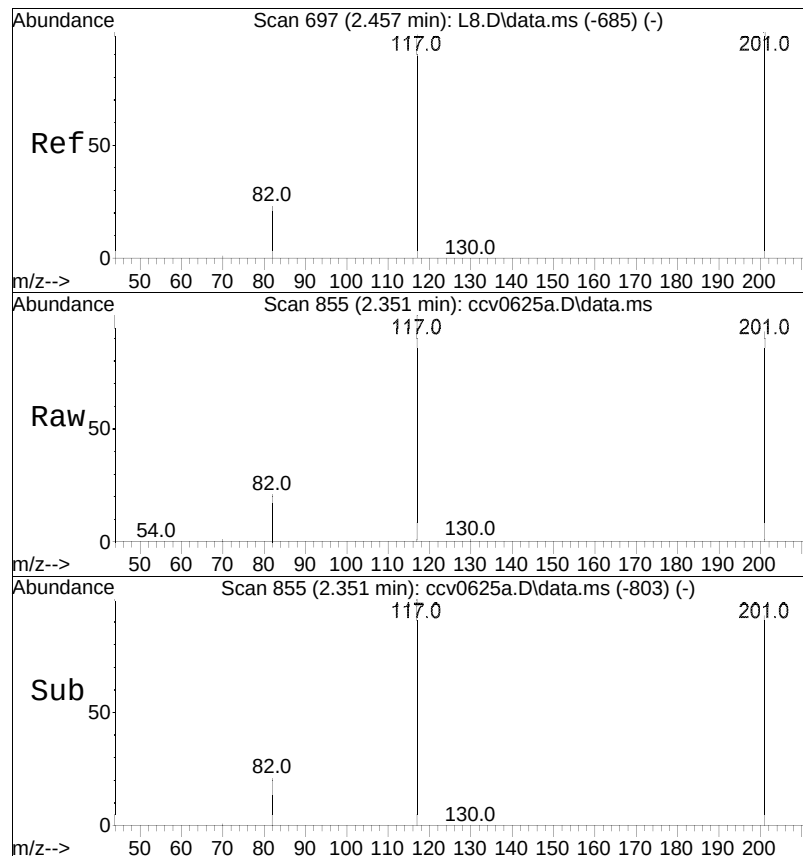




#6
 n-nitrosodi-n-propylamine
 Concen: 988.11 ng/ml
 RT: 2.299 min Scan# 828
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

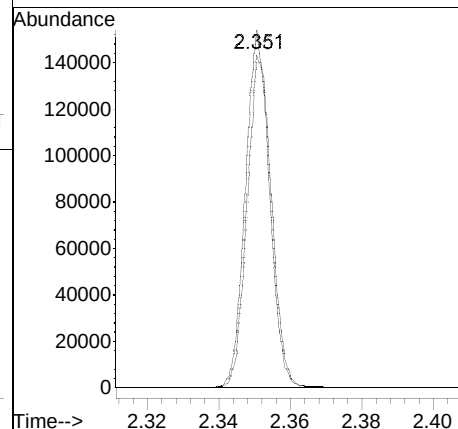
Tgt Ion	Ratio	Lower	Upper
70	100		
130	20.7	16.2	24.4

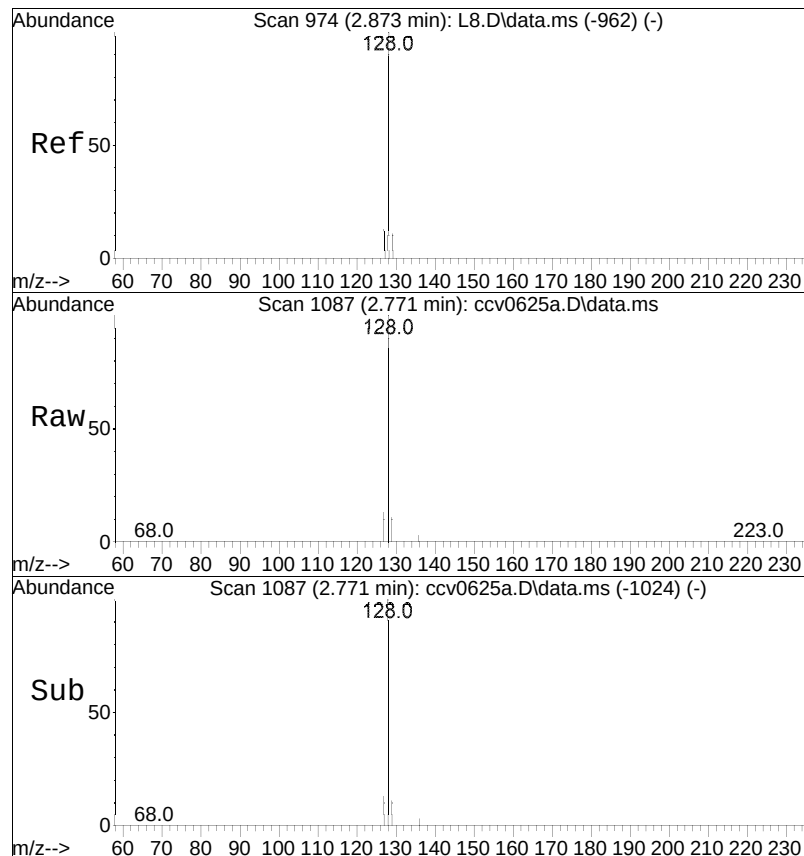




#7
 Hexachloroethane
 Concen: 961.15 ng/ml
 RT: 2.351 min Scan# 855
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

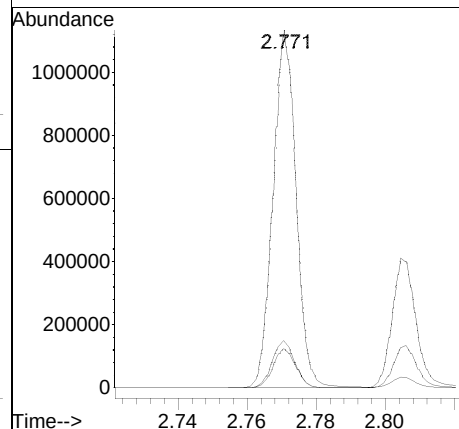
Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.0	80.5	120.7

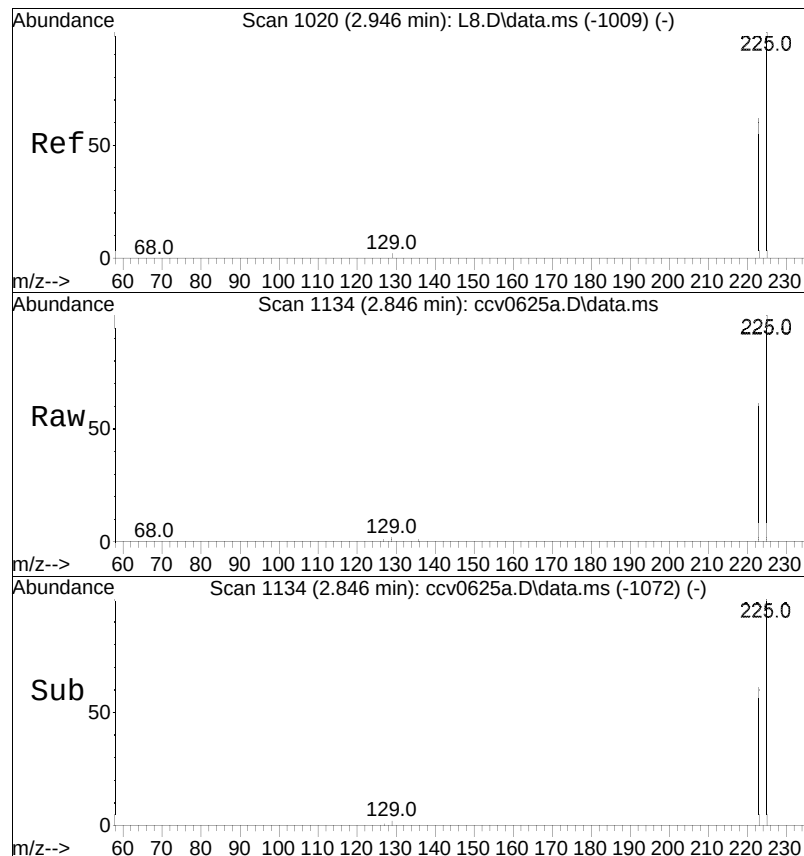




#10
 Naphthalene
 Concen: 905.24 ng/ml
 RT: 2.771 min Scan# 1087
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

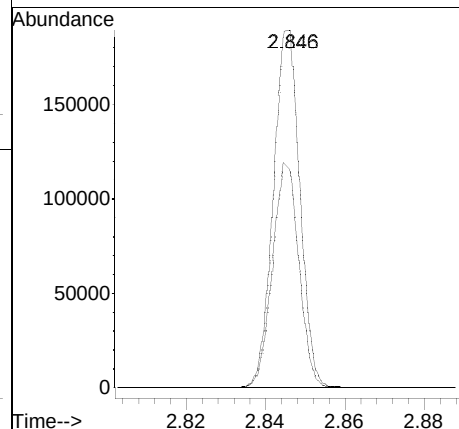
Tgt	Ion	Ratio	Resp	Lower	Upper
128	100		519277		
129	11.0			8.9	13.3
127	13.1			10.6	15.8

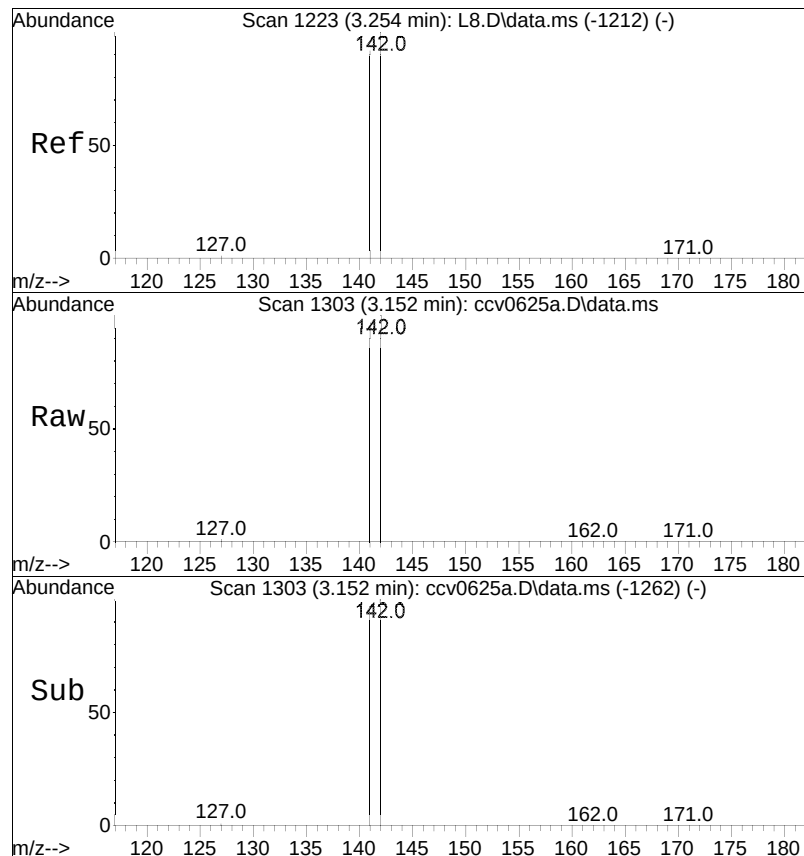




#11
 Hexachlorobutadiene
 Concen: 841.40 ng/ml
 RT: 2.846 min Scan# 1134
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

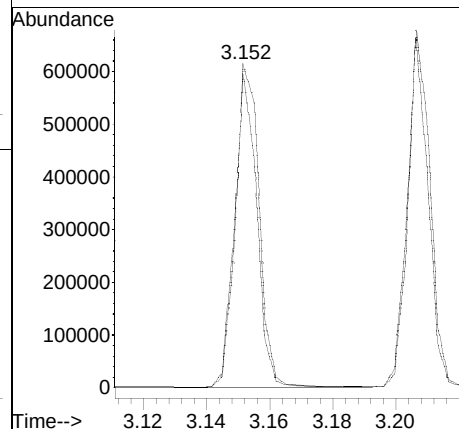
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.2	75.2

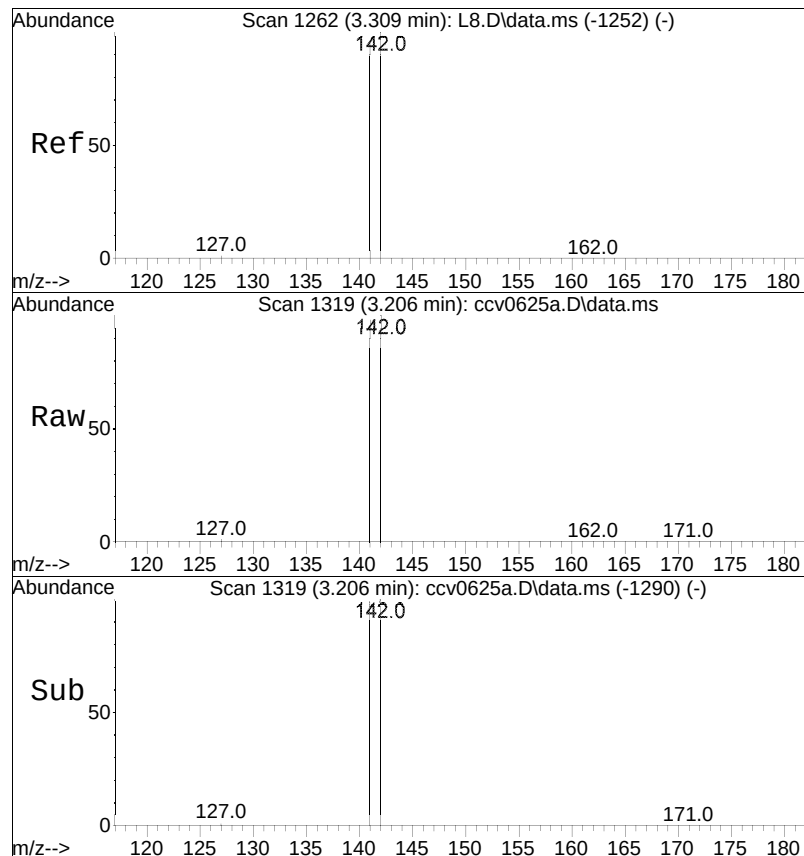




#12
 2-Methylnaphthalene
 Concen: 897.38 ng/ml
 RT: 3.152 min Scan# 1303
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

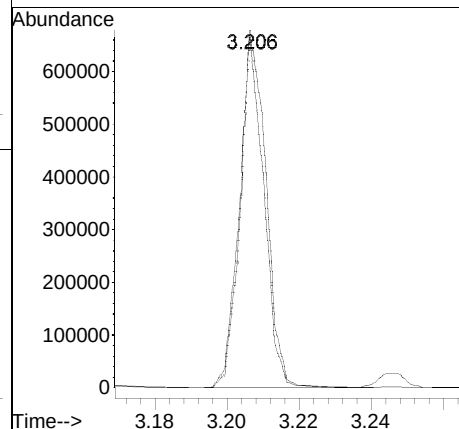
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.4	110.2

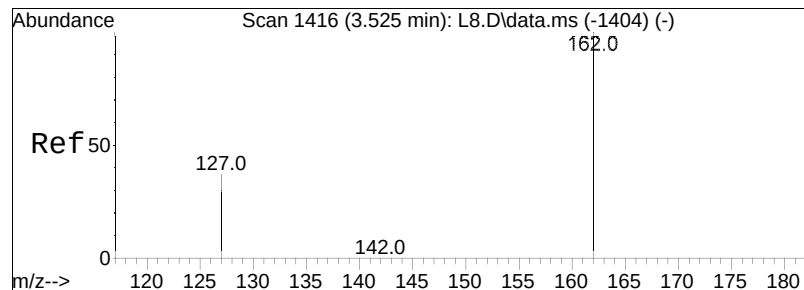




#13
 1-Methylnaphthalene
 Concen: 898.89 ng/ml
 RT: 3.206 min Scan# 1319
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

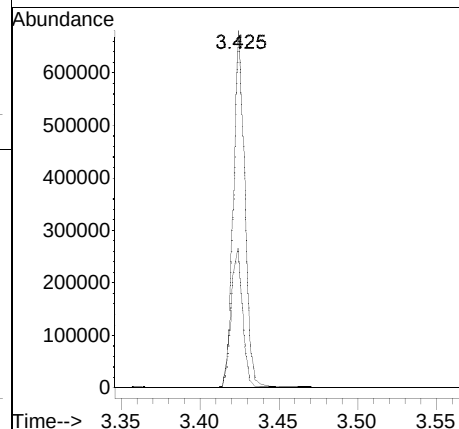
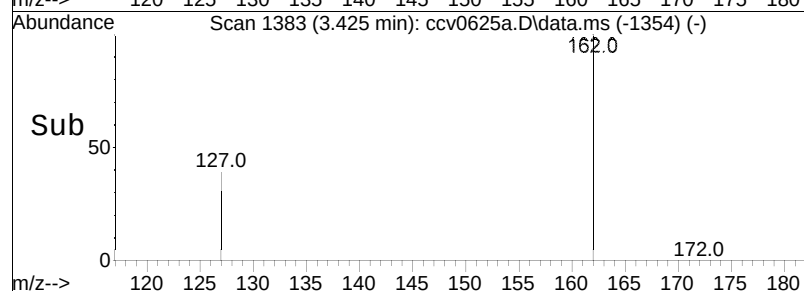
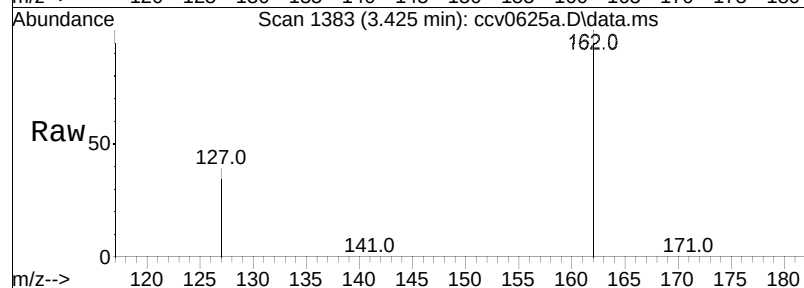
Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.9	76.0	114.0

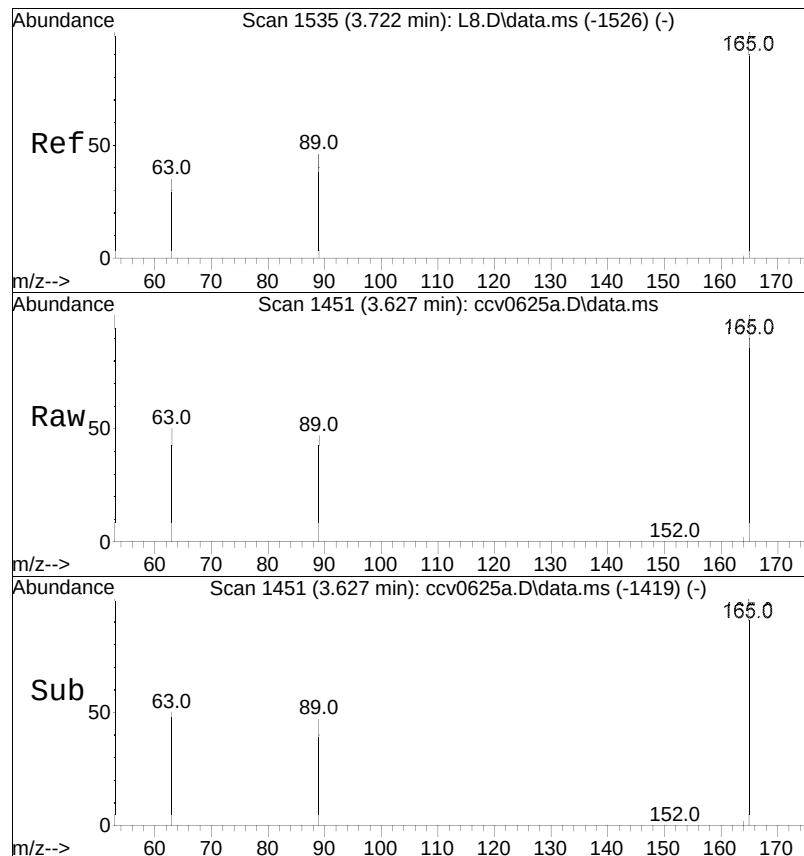




#15
 2-Chloronaphthalene
 Concen: 868.19 ng/ml
 RT: 3.425 min Scan# 1383
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

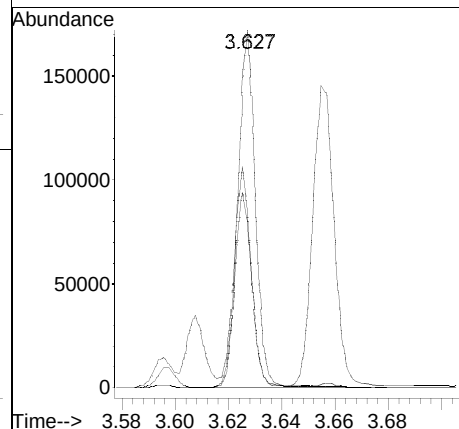
Tgt	Ion	Ratio	Lower	Upper
162	100			
127	40.3	31.0	46.6	

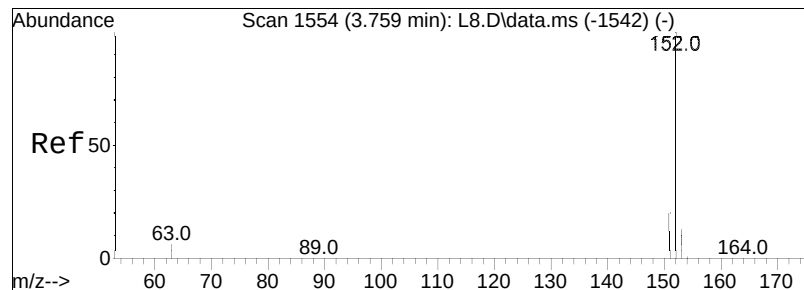




#16
 2,6-Dinitrotoluene
 Concen: 904.60 ng/ml
 RT: 3.627 min Scan# 1451
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

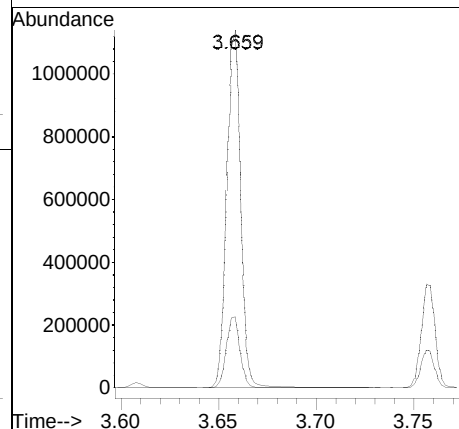
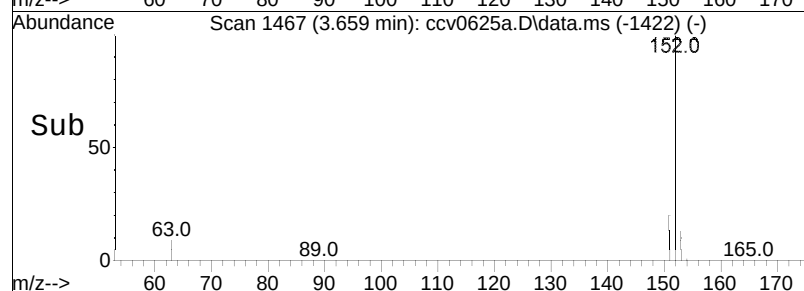
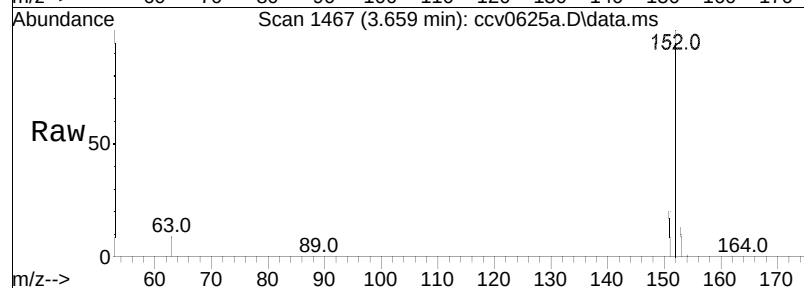
Tgt Ion	Ratio	Lower	Upper
165	100		
89	54.4	43.2	64.8
63	61.4	46.4	69.6

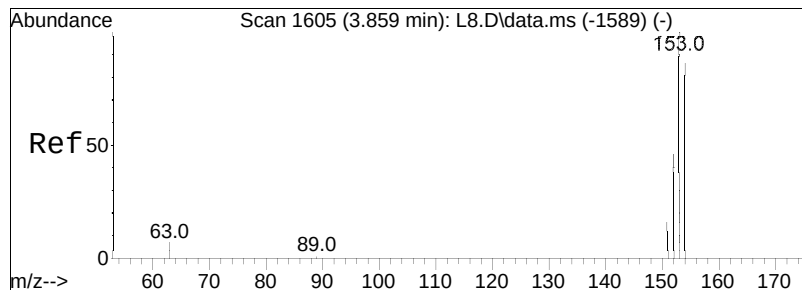




#17
 Acenaphthylene
 Concen: 950.05 ng/ml
 RT: 3.659 min Scan# 1467
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0





#19

Acenaphthene

Concen: 918.71 ng/ml

RT: 3.758 min Scan# 1518

Delta R.T. 0.000 min

Lab File: ccv0625a.D

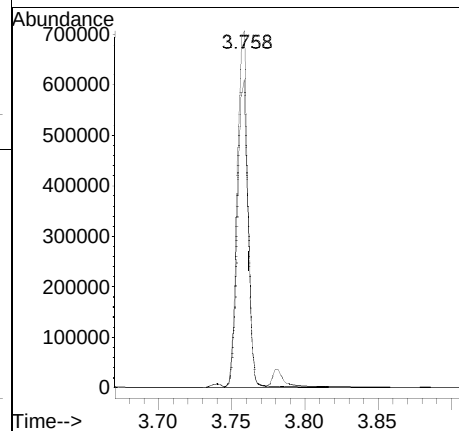
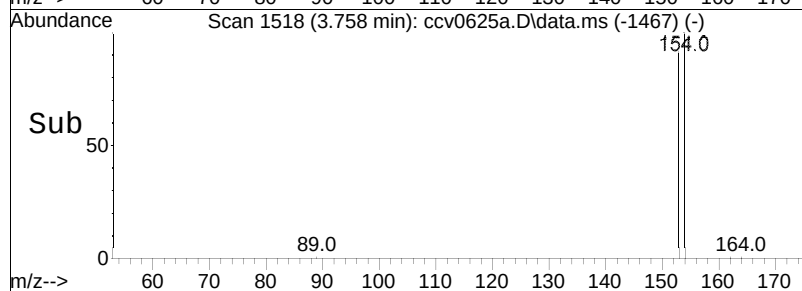
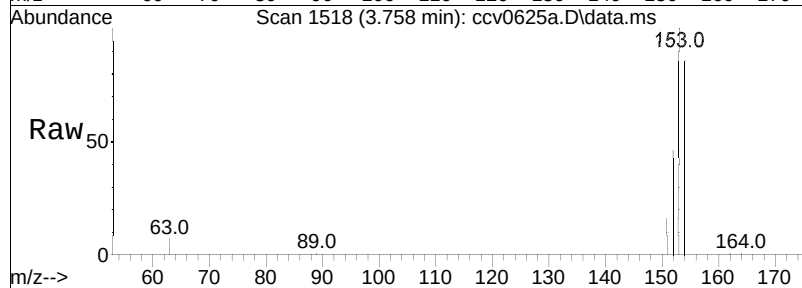
Acq: 25 Jun 2025 09:49 am

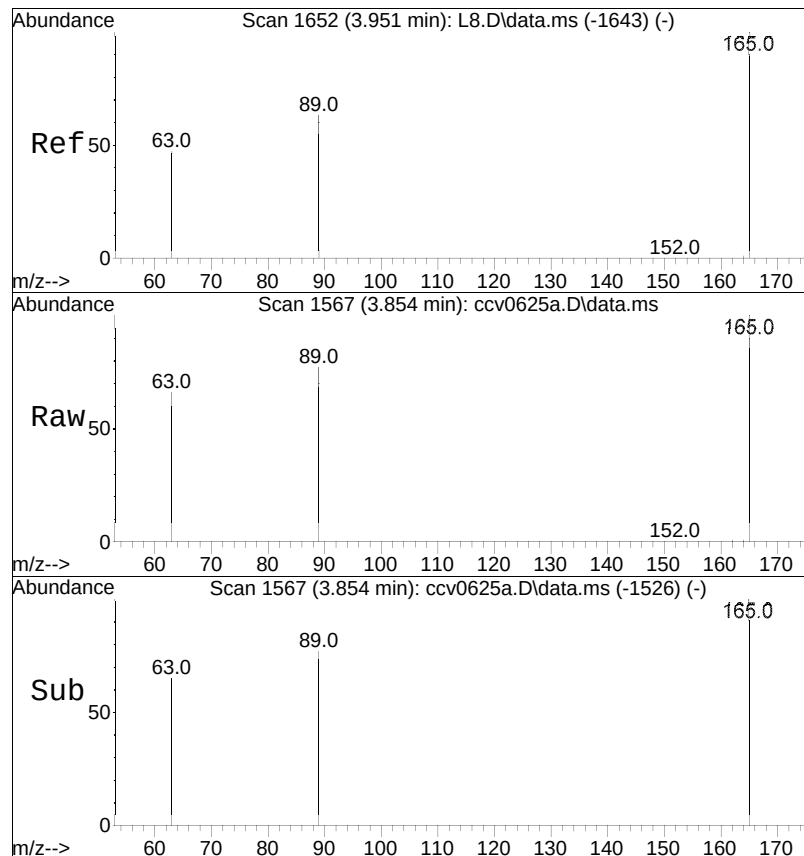
Tgt Ion:153 Resp: 349883

Ion Ratio Lower Upper

153 100

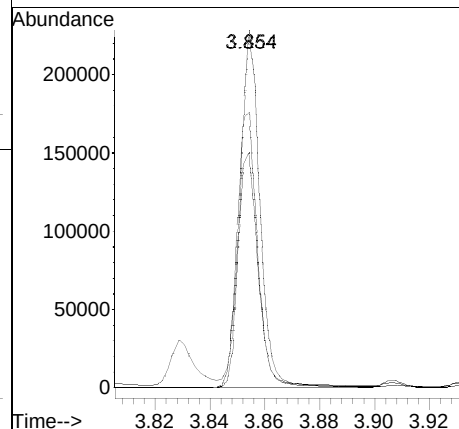
154 83.6 67.9 101.9

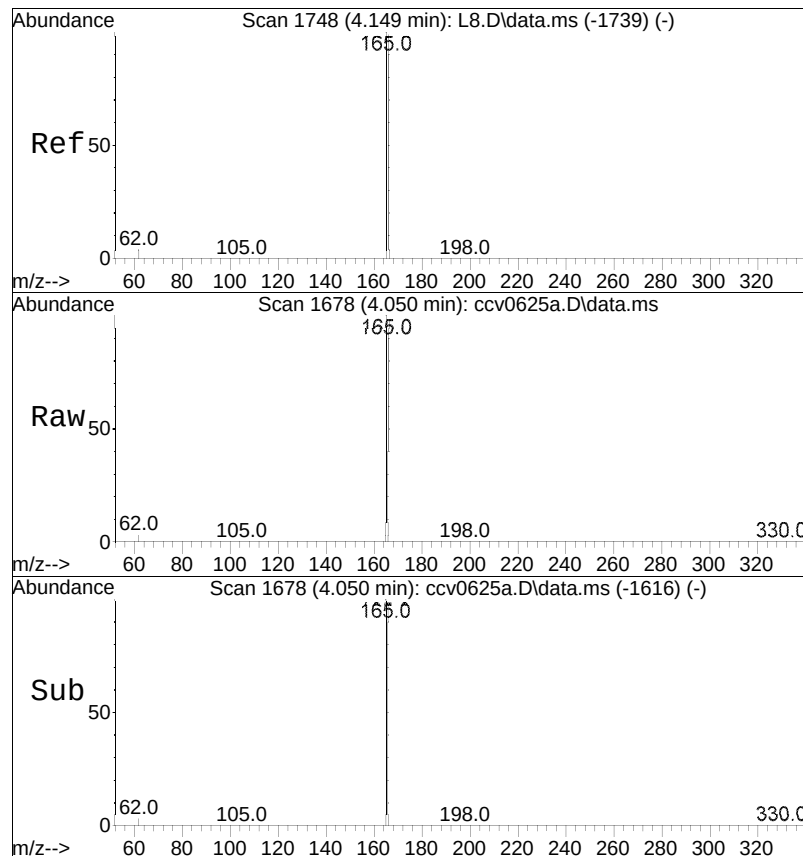




#20
 2,4-Dinitrotoluene
 Concen: 1002.06 ng/ml
 RT: 3.854 min Scan# 1567
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

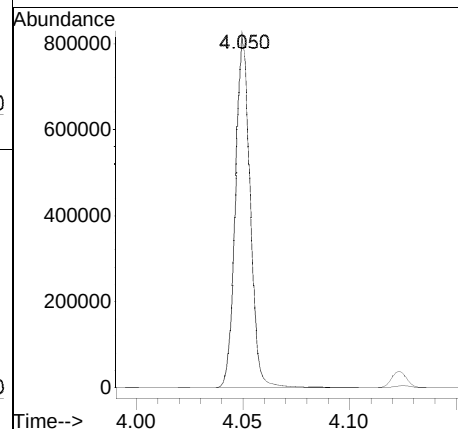
Tgt Ion:	165	Resp:	110185
Ion Ratio	Lower	Upper	
165	100		
89	81.6	63.9	95.9
63	70.7	53.0	79.6

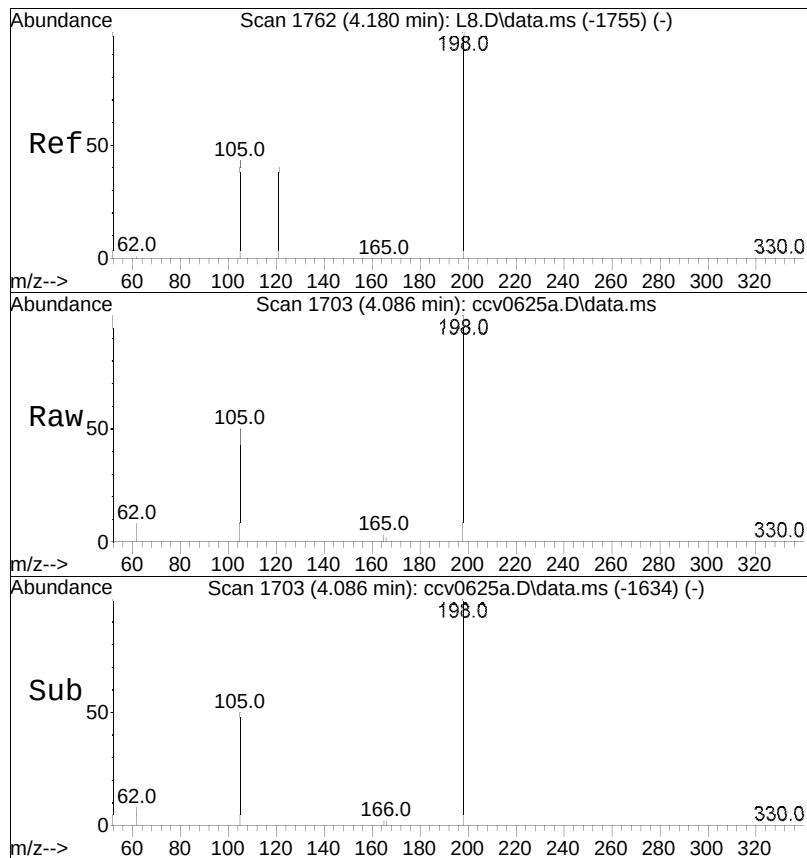




#21
 Fluorene
 Concen: 935.47 ng/ml
 RT: 4.050 min Scan# 1678
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

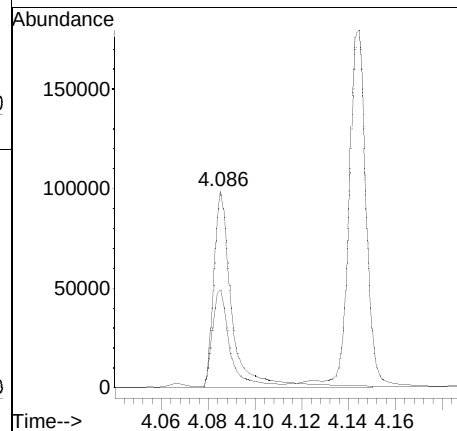
Tgt Ion	166	165	Ratio	100	101.3	Resp	391705	Lower	Upper
166	100								
165		101.3						81.3	121.9

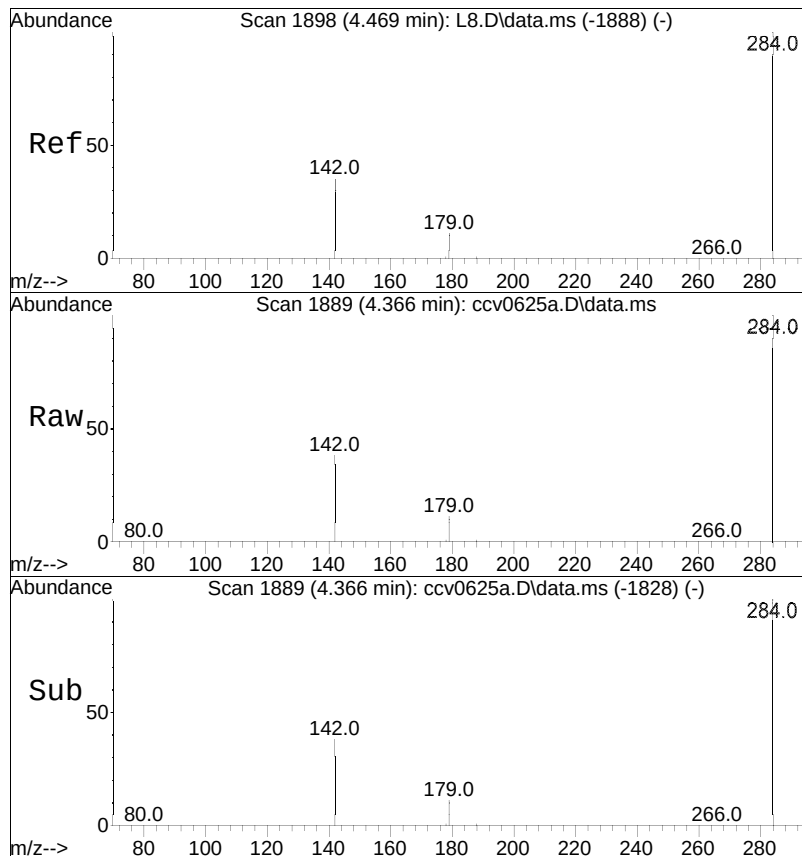




#24
 4,6-Dinitro-o-cresol
 Concen: 843.83 ng/ml
 RT: 4.086 min Scan# 1703
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

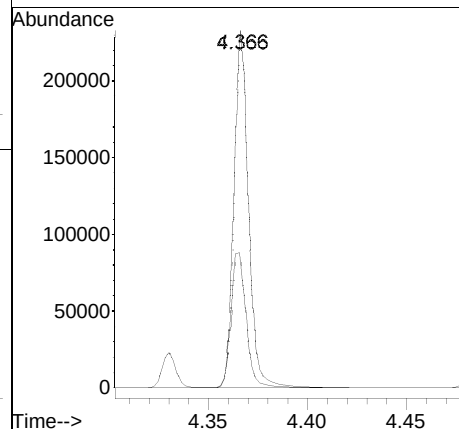
Tgt Ion	198	105	Ratio	Lower	Upper
Resp	53783				
Ratio	100	46.5		35.5	53.3

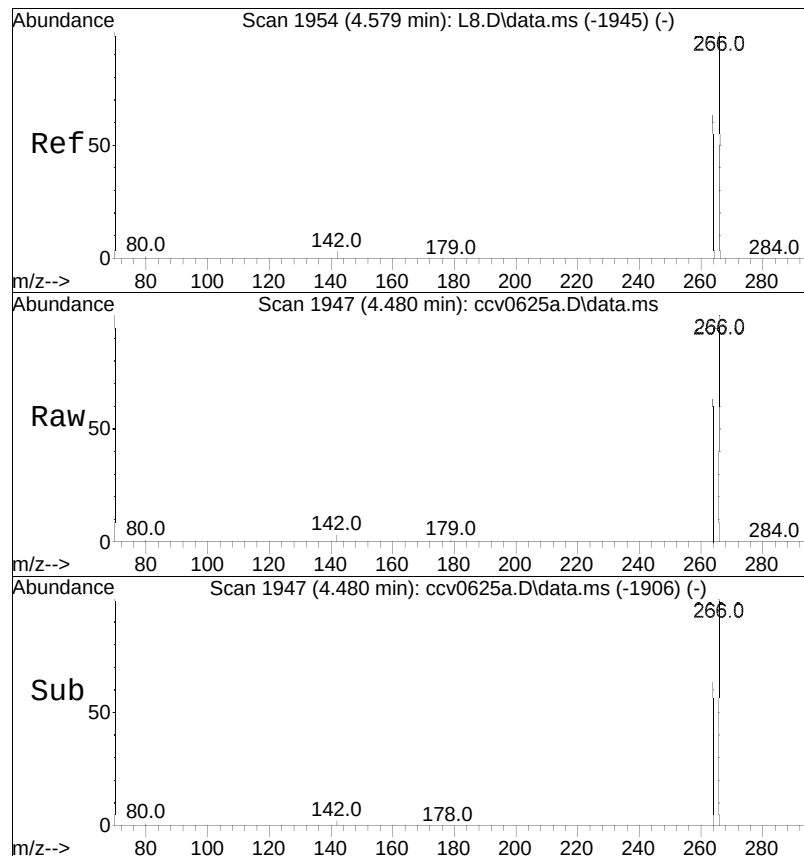




#25
 Hexachlorobenzene
 Concen: 869.26 ng/ml
 RT: 4.366 min Scan# 1889
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

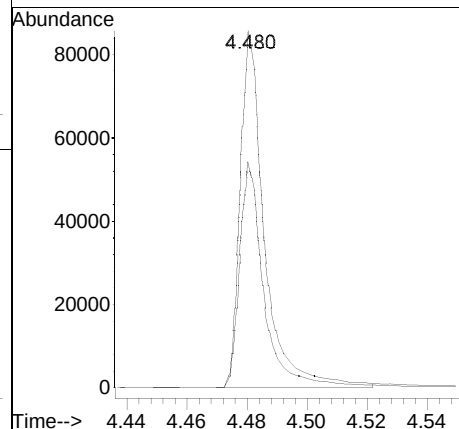
Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.5	29.0	43.4

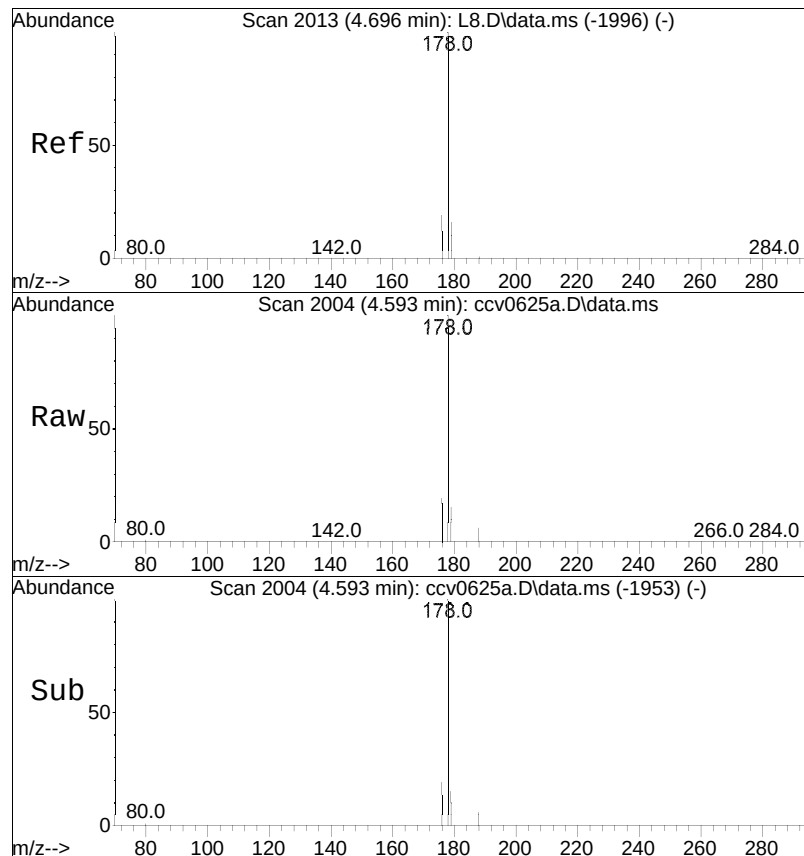




#26
 Pentachlorophenol
 Concen: 713.28 ng/ml
 RT: 4.480 min Scan# 1947
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

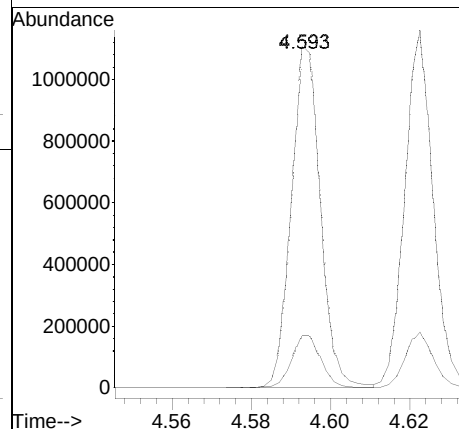
Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.0	50.3	75.5

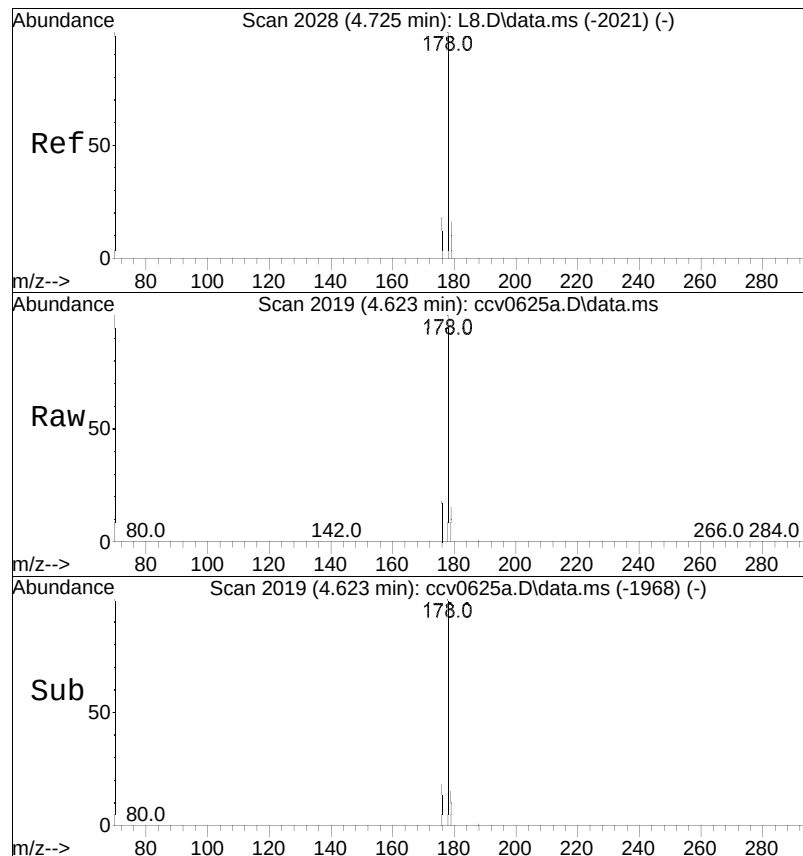




#27
 Phenanthrene
 Concen: 921.86 ng/ml
 RT: 4.593 min Scan# 2004
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

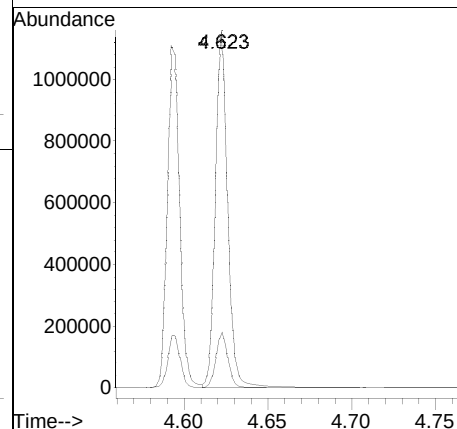
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.6	18.8

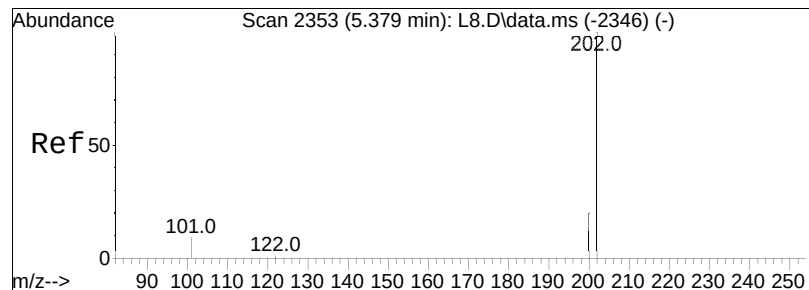




#28
 Anthracene
 Concen: 969.54 ng/ml
 RT: 4.623 min Scan# 2019
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

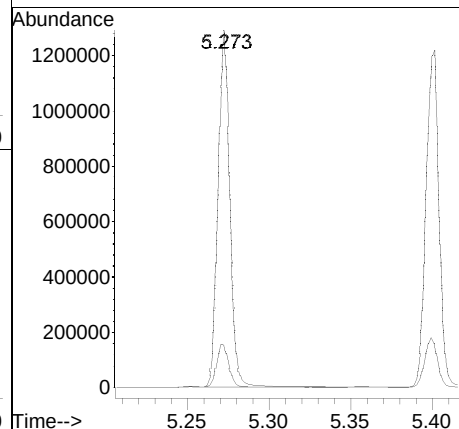
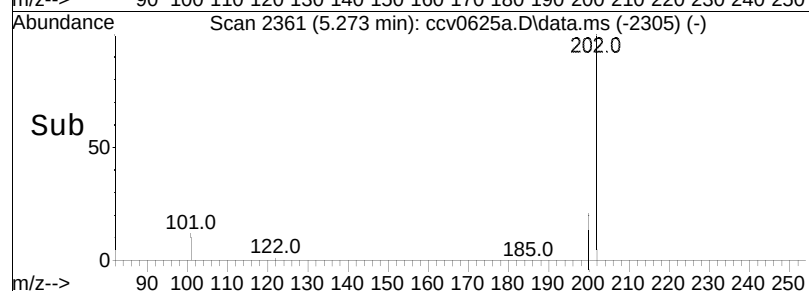
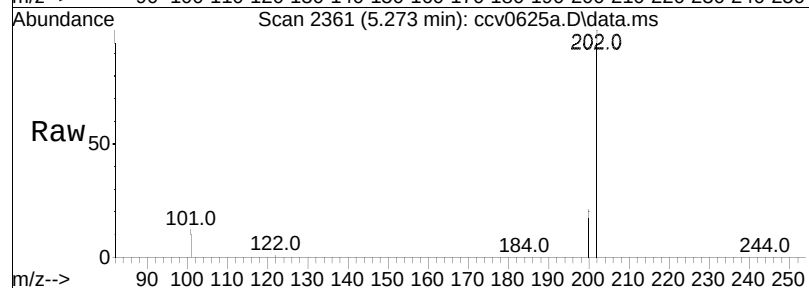
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.4	18.6

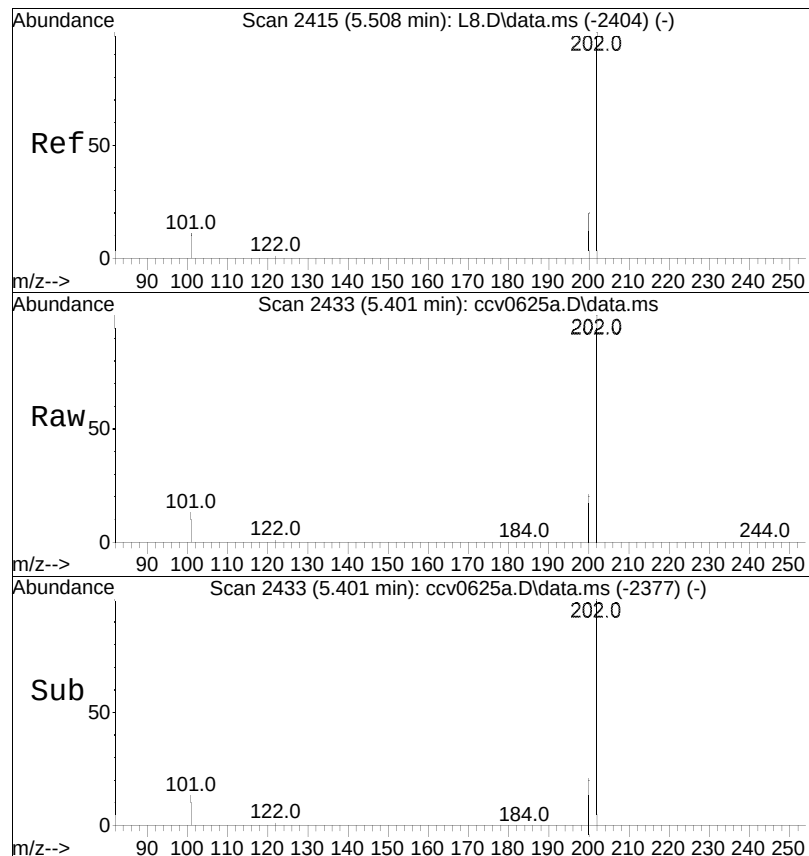




#29
 Fluoranthene
 Concen: 936.42 ng/ml
 RT: 5.273 min Scan# 2361
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

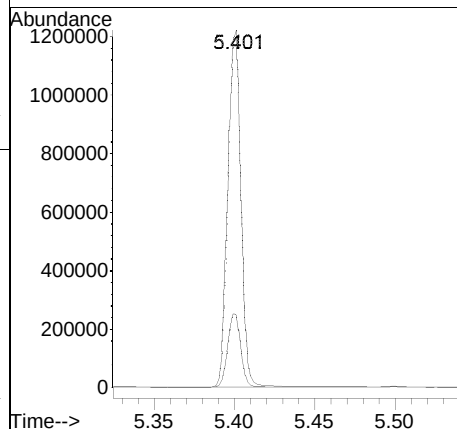
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.4	8.8	13.2

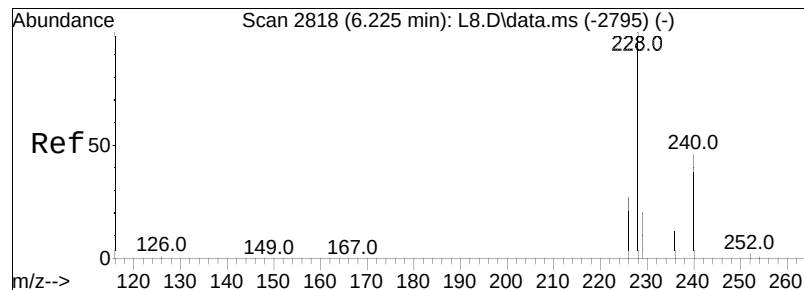




#30
 Pyrene
 Concen: 941.27 ng/ml
 RT: 5.401 min Scan# 2433
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.9	25.3





#34

Benzo[a]anthracene

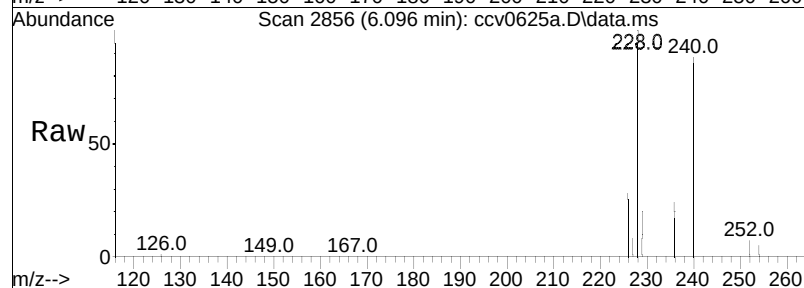
Concen: 891.62 ng/ml

RT: 6.096 min Scan# 2856

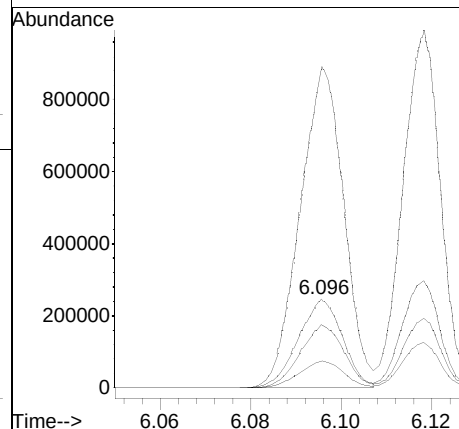
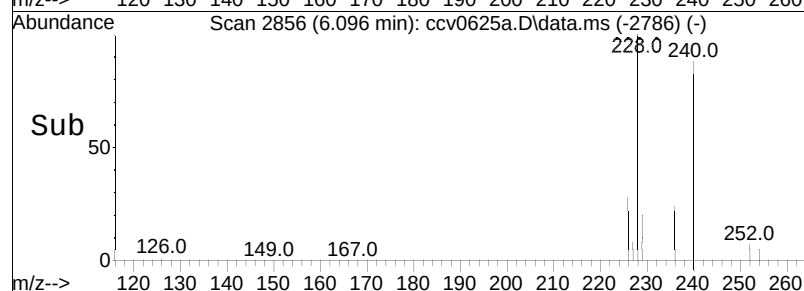
Delta R.T. 0.000 min

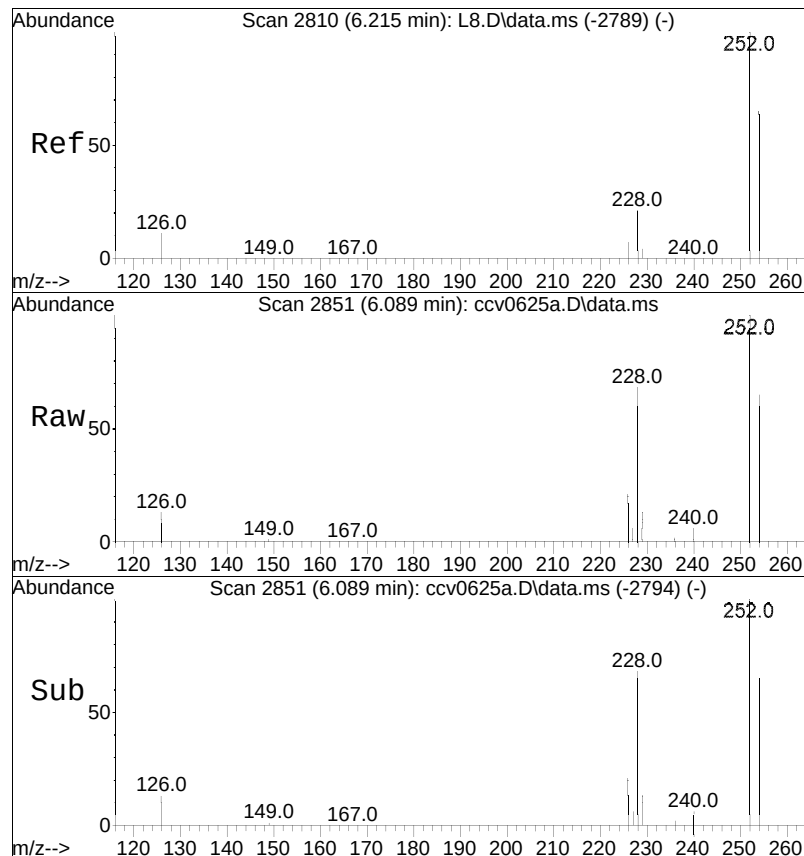
Lab File: ccv0625a.D

Acq: 25 Jun 2025 09:49 am



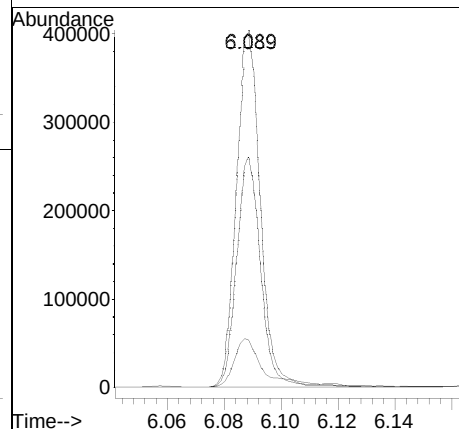
Tgt	Ion	Ratio	Lower	Upper
226	100			
227	30.1	0.0	0.0	#
228	358.3	288.7	433.1	
229	70.4	56.8	85.2	

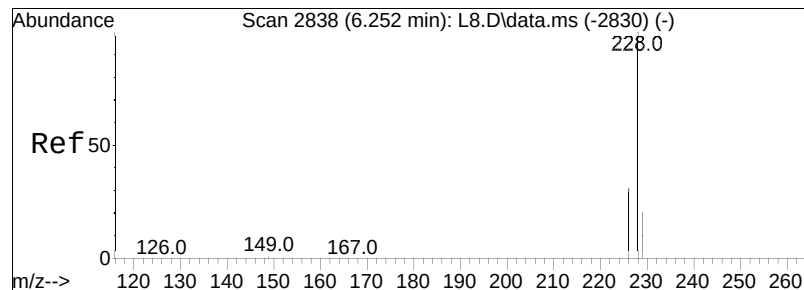




#35
 3,3'-Dichlorobenzidine
 Concen: 999.60 ng/ml
 RT: 6.089 min Scan# 2851
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

Tgt Ion:	252	Resp:	235610
Ion Ratio	Lower	Upper	
252	100		
126	16.1	9.5	14.3#
254	64.7	51.5	77.3





#36

Chrysene

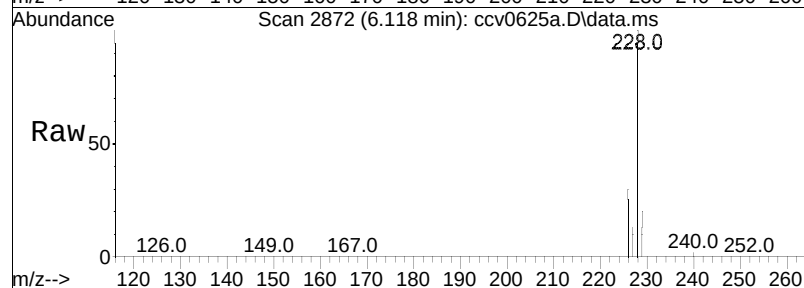
Concen: 942.96 ng/ml

RT: 6.118 min Scan# 2872

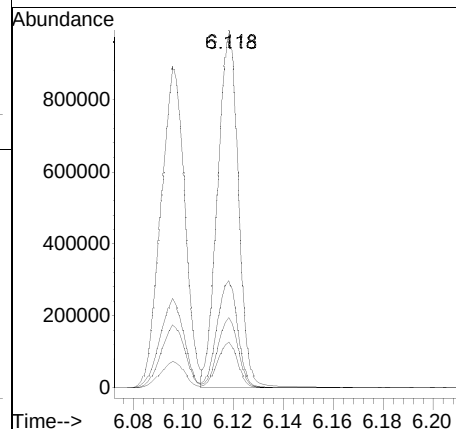
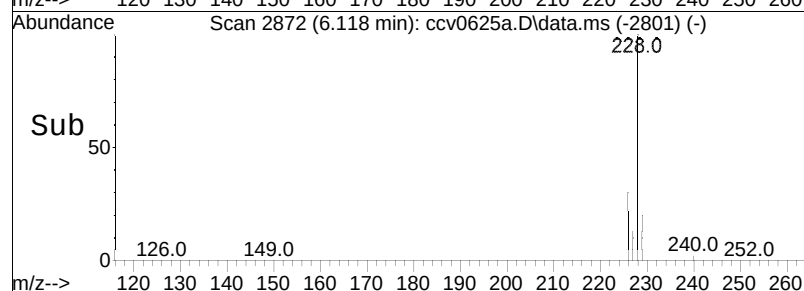
Delta R.T. 0.000 min

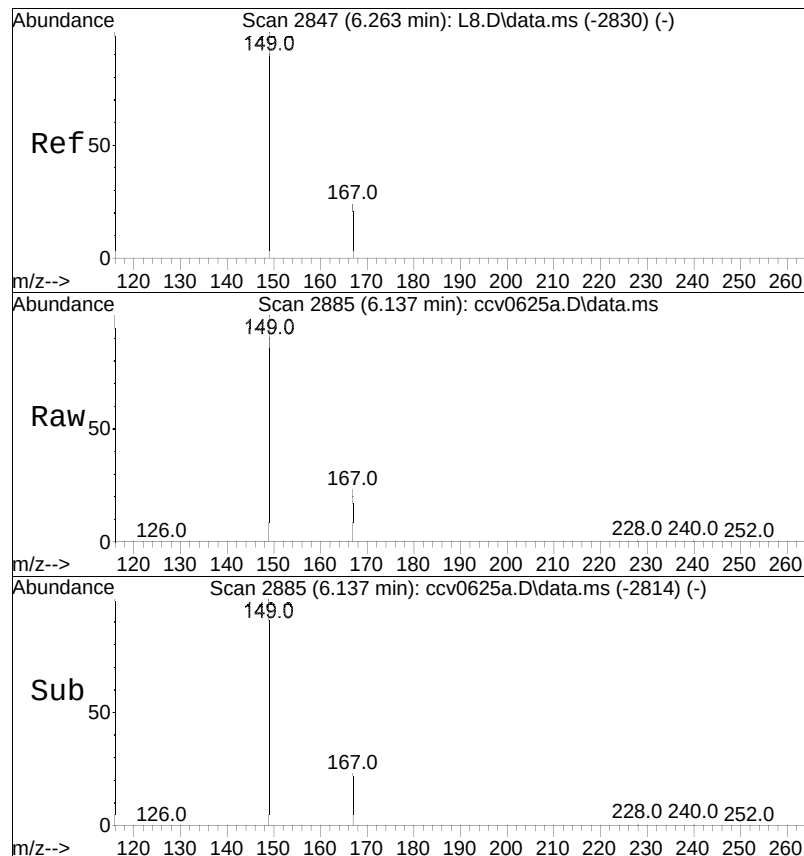
Lab File: ccv0625a.D

Acq: 25 Jun 2025 09:49 am



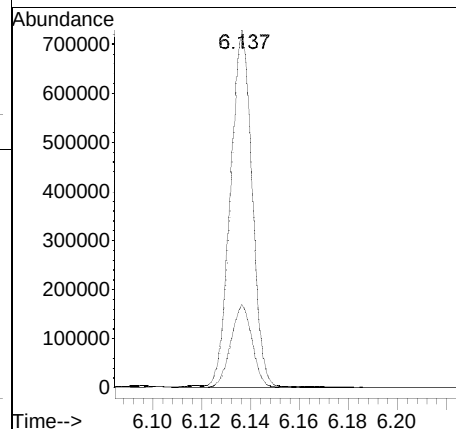
Tgt Ion:	228	Resp:	574040
Ion Ratio	Lower	Upper	
228	100		
226	30.1	24.4	36.6
227	12.6	0.0	0.0#
229	19.2	15.6	23.4

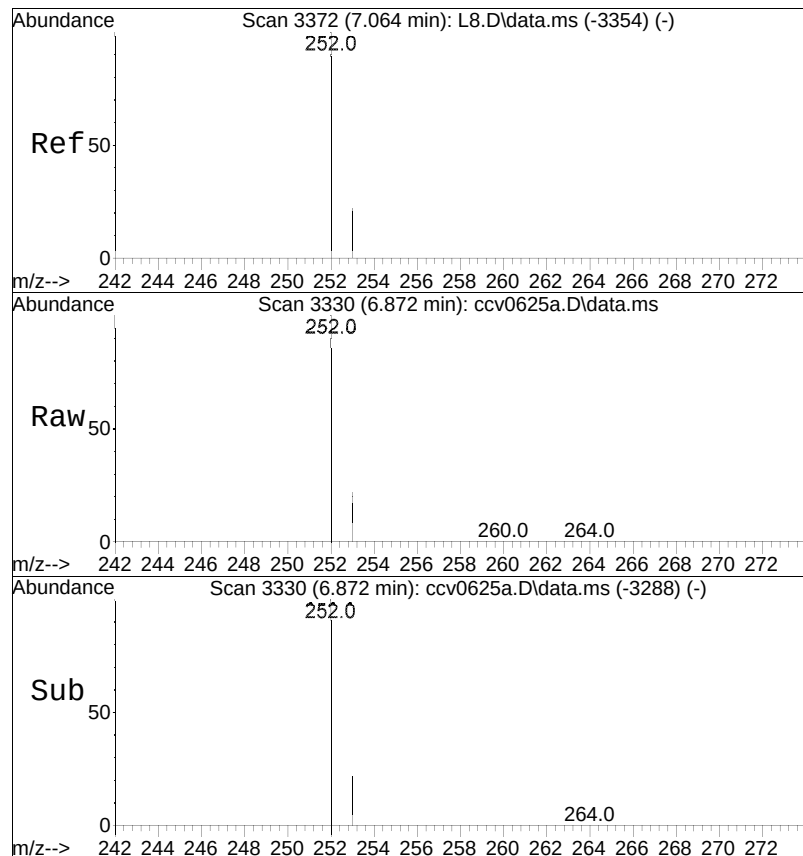




#37
 Bis(2-ethylhexyl)phthalate
 Concen: 1051.42 ng/ml
 RT: 6.137 min Scan# 2885
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

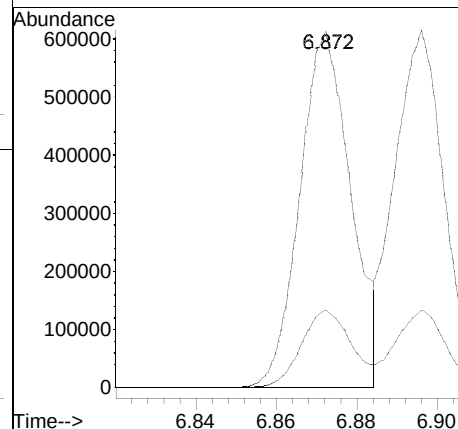
Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.0	18.6	27.8

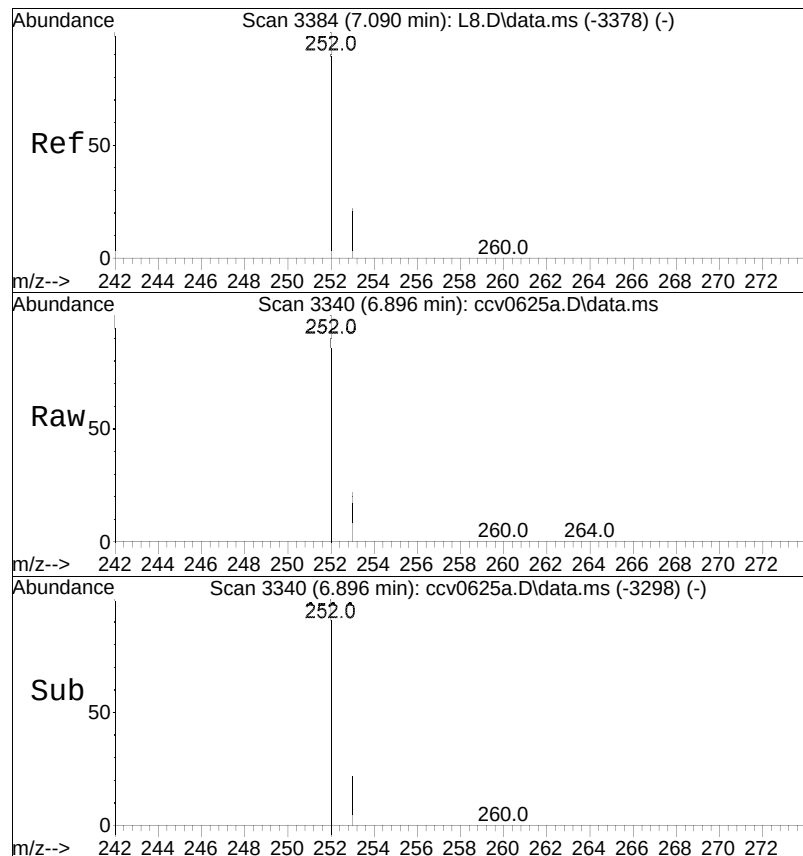




#39
 Benzo[b]fluoranthene
 Concen: 989.33 ng/ml
 RT: 6.872 min Scan# 3330
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

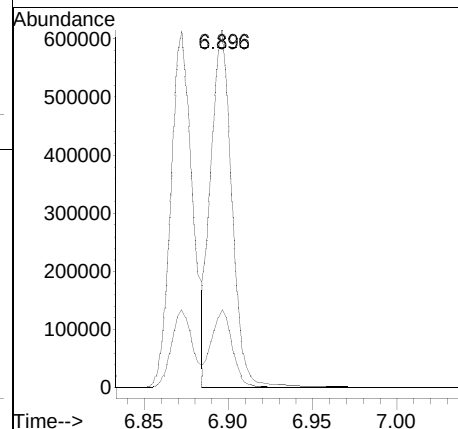
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.6	17.4	26.2	

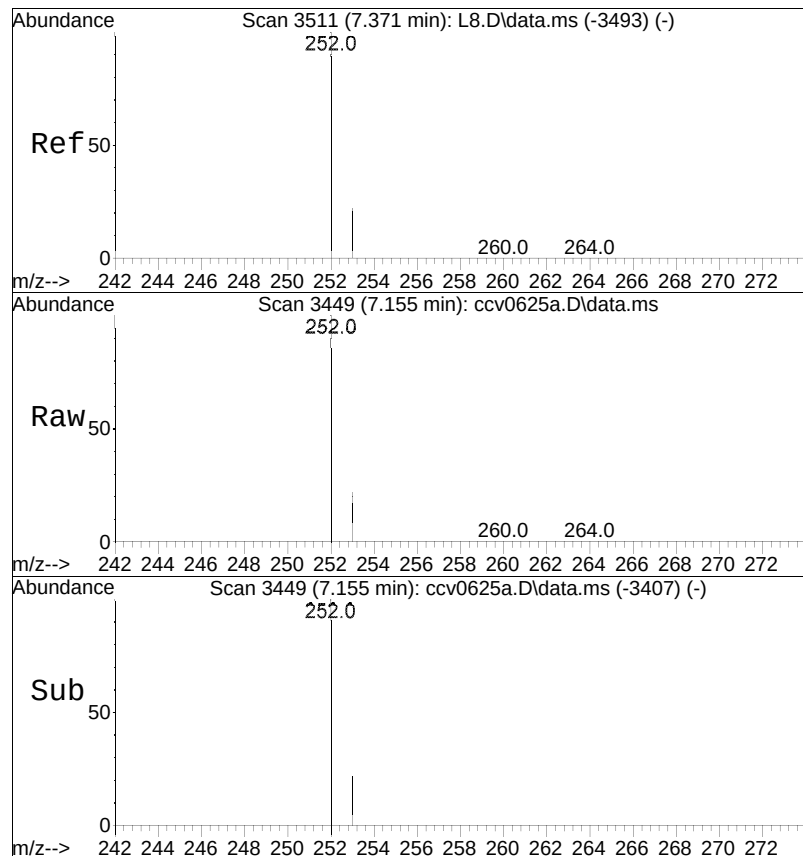




#40
 Benzo[k]fluoranthene
 Concen: 1027.92 ng/ml
 RT: 6.896 min Scan# 3340
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

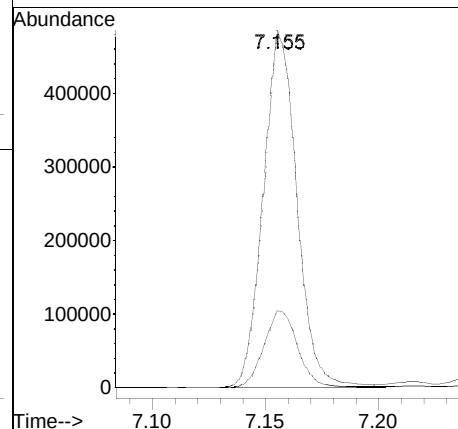
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.9	17.6	26.4	

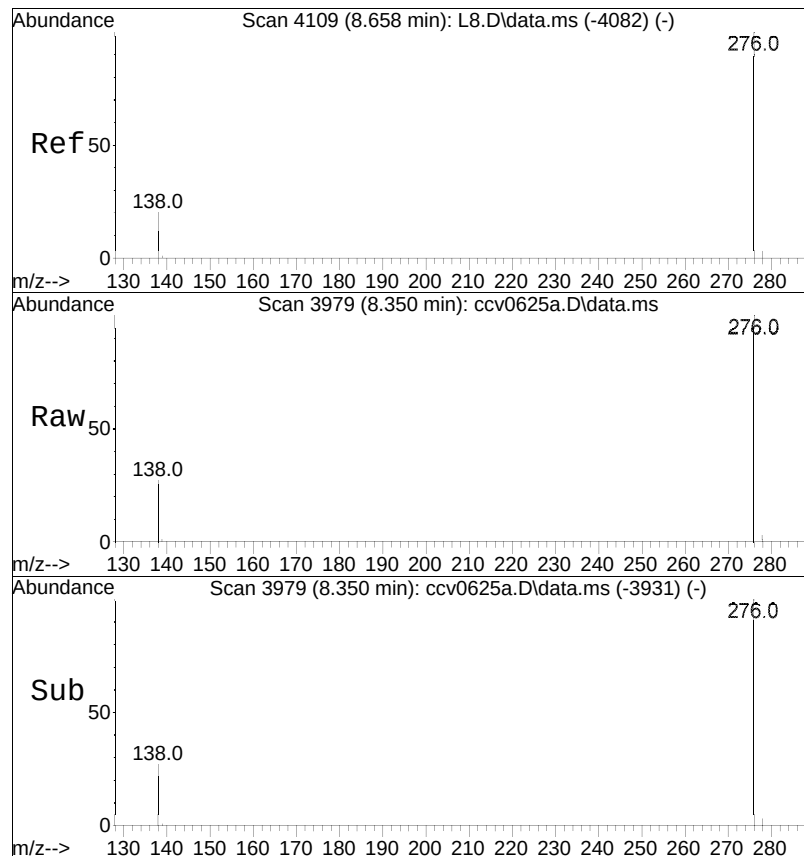




#41
 Benzo[a]pyrene
 Concen: 1083.85 ng/ml
 RT: 7.155 min Scan# 3449
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

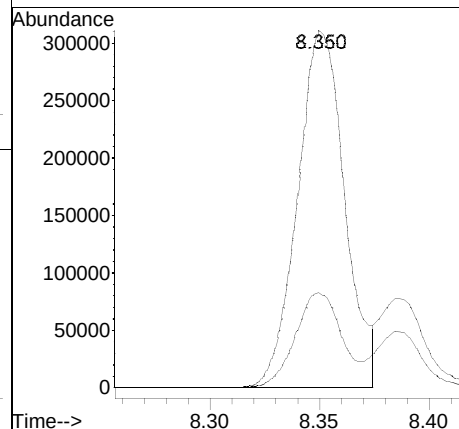
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.8	17.4	26.0	

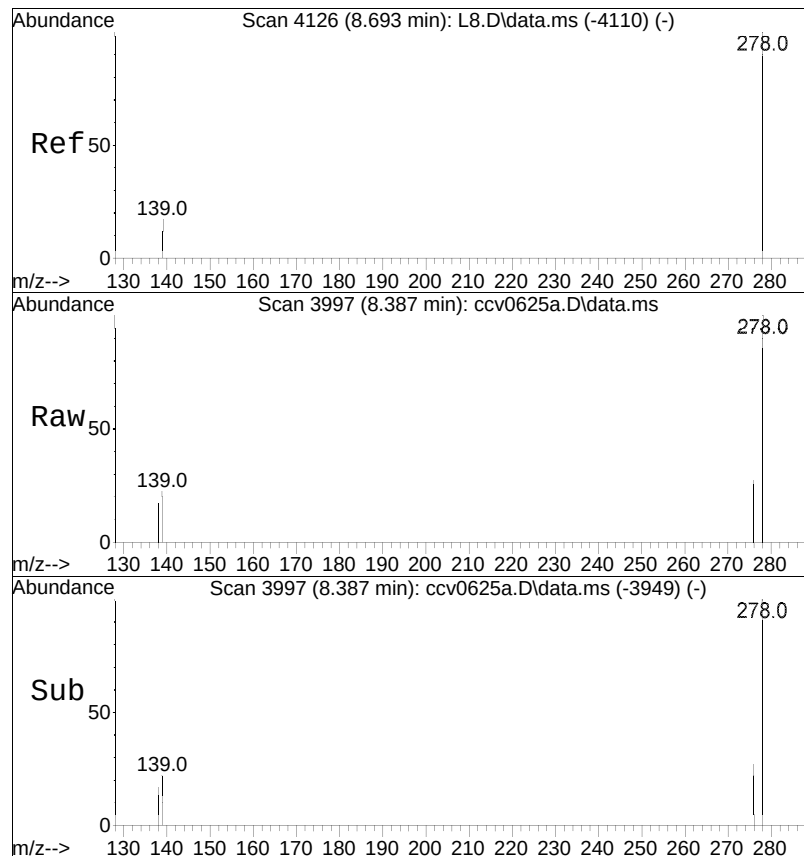




#42
 Indeno[1,2,3-cd]pyrene
 Concen: 1140.96 ng/ml
 RT: 8.350 min Scan# 3979
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

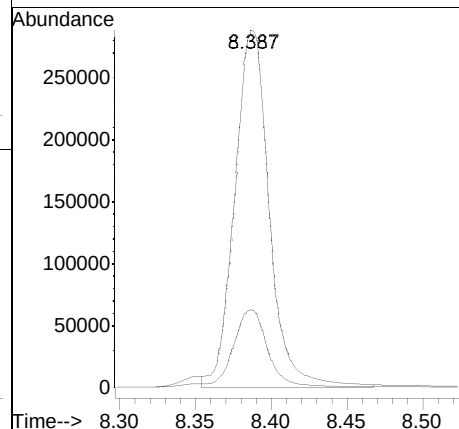
Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.6	17.0	25.4#

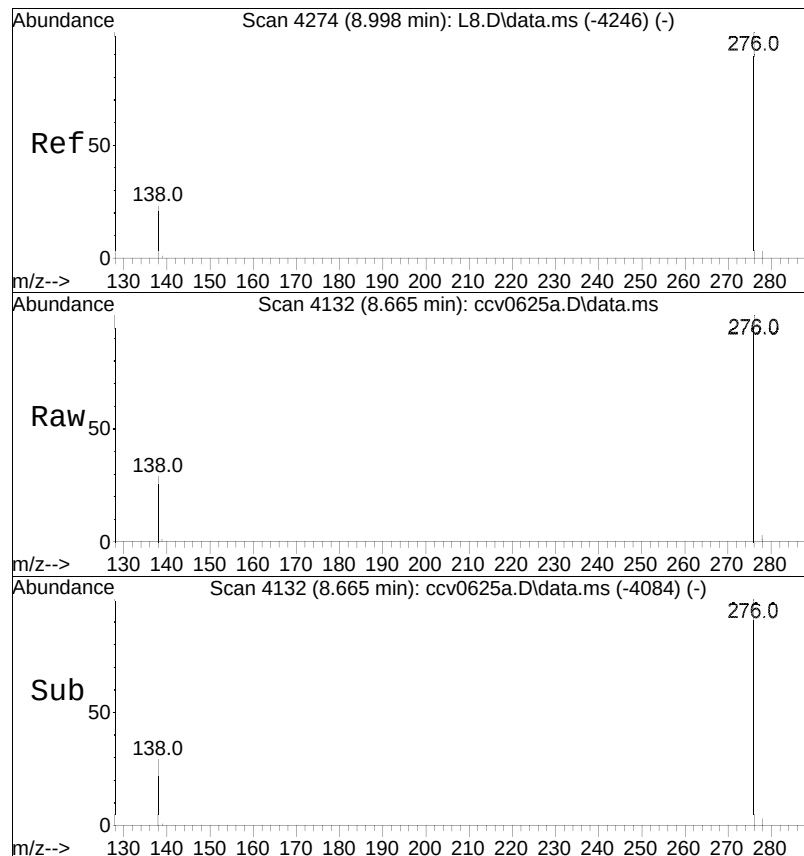




#43
 Dibenzo[a,h]anthracene
 Concen: 1165.38 ng/ml M6
 RT: 8.387 min Scan# 3997
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

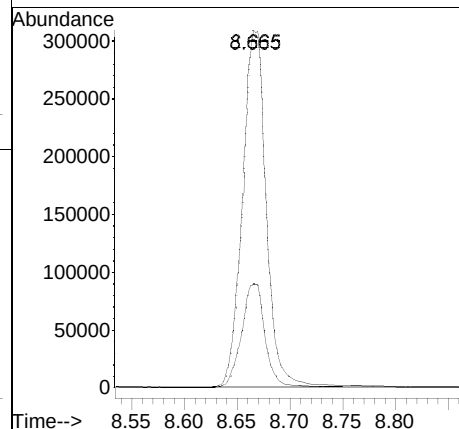
Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.3	13.9	20.9#





#44
 Benzo[g,h,i]perylene
 Concen: 1118.15 ng/ml M3
 RT: 8.665 min Scan# 4132
 Delta R.T. 0.000 min
 Lab File: ccv0625a.D
 Acq: 25 Jun 2025 09:49 am

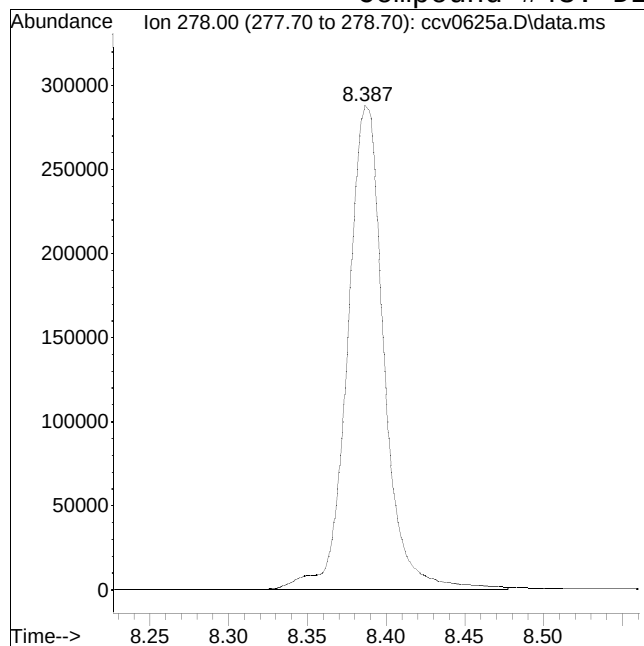
Tgt Ion	Ratio	Lower	Upper
276	100		
138	0.0	18.7	28.1#



Manual Integration Report

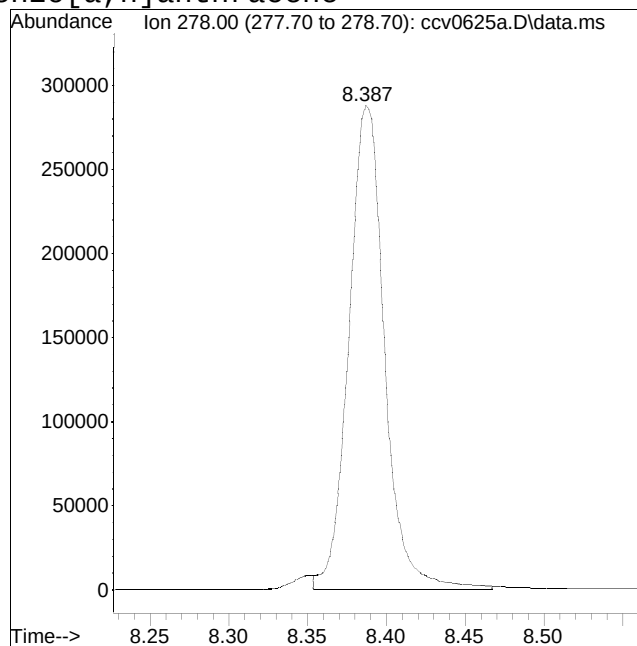
Data Path : I:\8270SIM\SV118\250625RVTQMethod : SIM-RVT_250203sv118.M
Data File : ccv0625a.D Operator : SV118:rp
Date Inj'd : 6/25/2025 9:49 am Instrument : SV118
Sample : WG2083275-3,32,,ICV 11696 Quant Date : 6/25/2025 10:18 am

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 463218

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

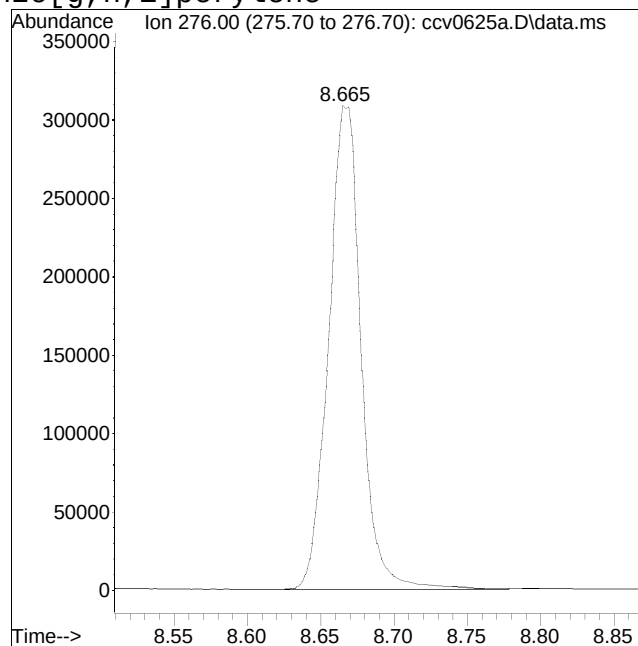
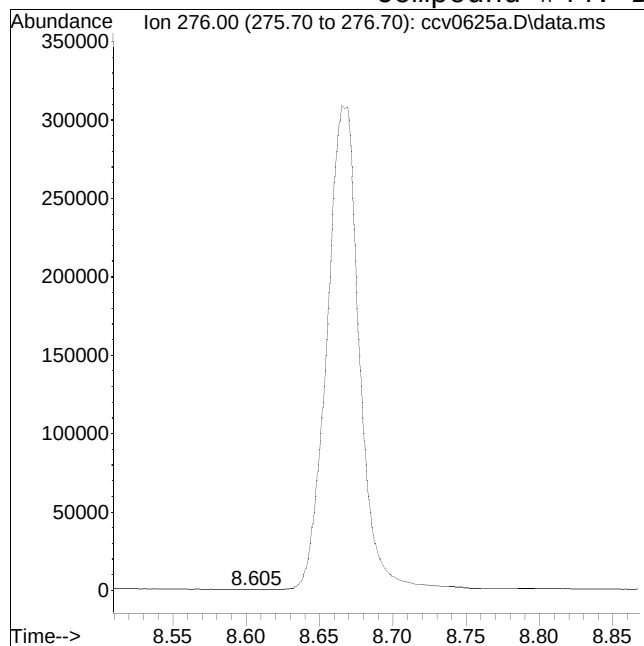


Manual Peak Response = 454561 M6

Manual Integration Report

Data Path : I:\8270SIM\SV118\250625RVTQMethod : SIM-RVT_250203sv118.M
Data File : ccv0625a.D Operator : SV118:rp
Date Inj'd : 6/25/2025 9:49 am Instrument : SV118
Sample : WG2083275-3,32,,ICV 11696 Quant Date : 6/25/2025 10:18 am

Compound #44: Benzo[g,h,i]perylene



Original Peak Response = 22

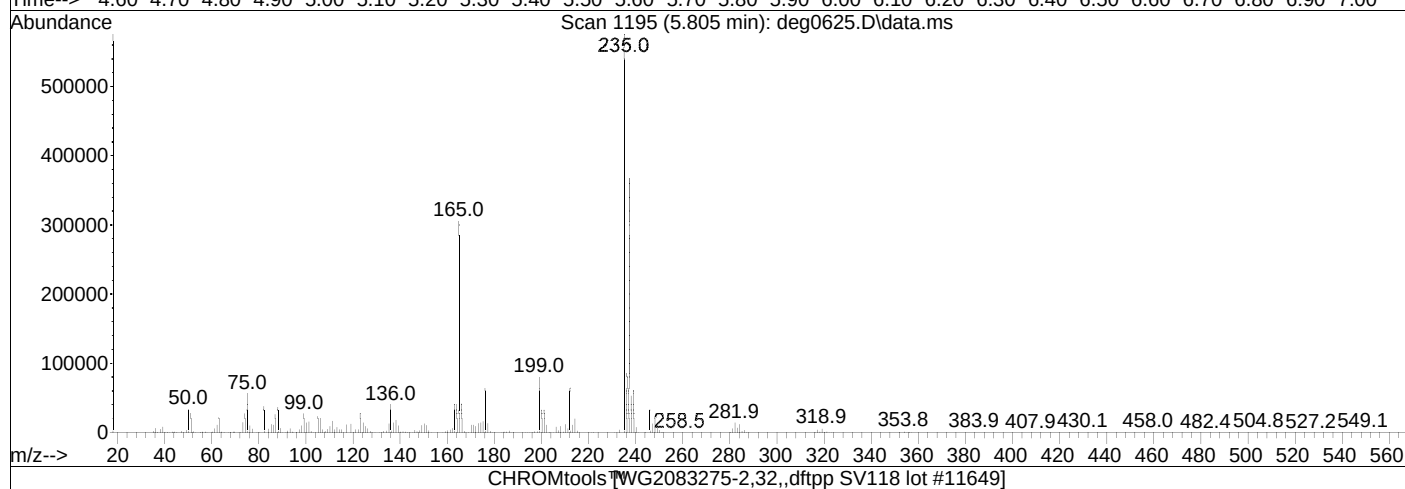
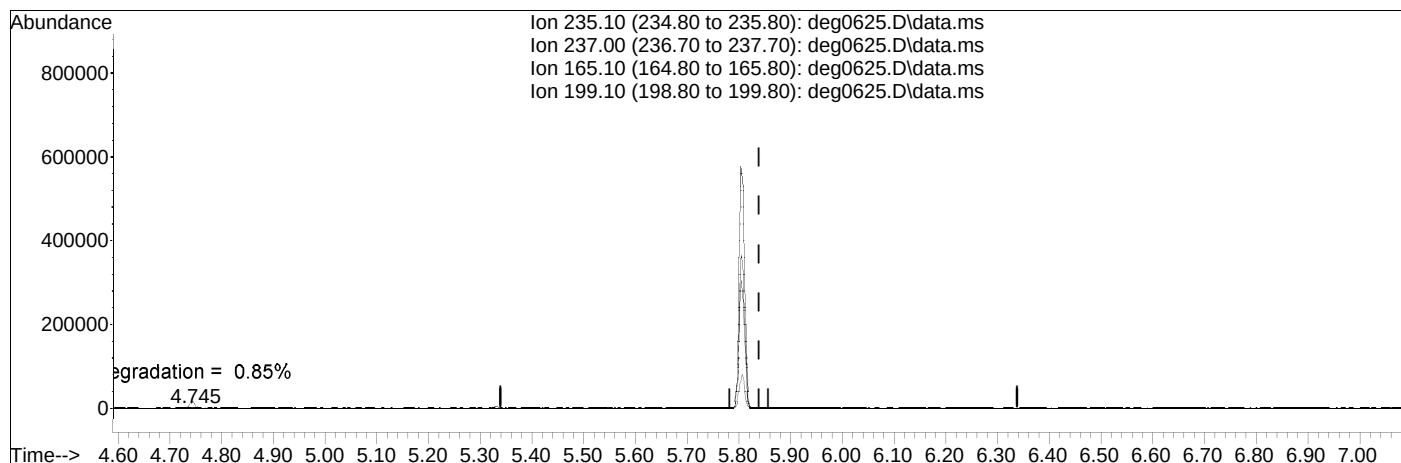
Manual Peak Response = 477362 M3

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 (Qedit)

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : deg0625.D
 Acq On : 25 Jun 2025 09:12 am
 Operator : SV118:rp
 Sample : WG2083275-2,32,,dftpp SV118 lot #11649
 Misc : WG2083275,,ical21963
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 25 09:25:09 2025
 Quant Method : I:\8270SIM\SV118\250625RVT\dftppsv118.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 13 16:17:33 2025
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(6) ddt (T)

5.805min (-0.034) 68.09

response 415085

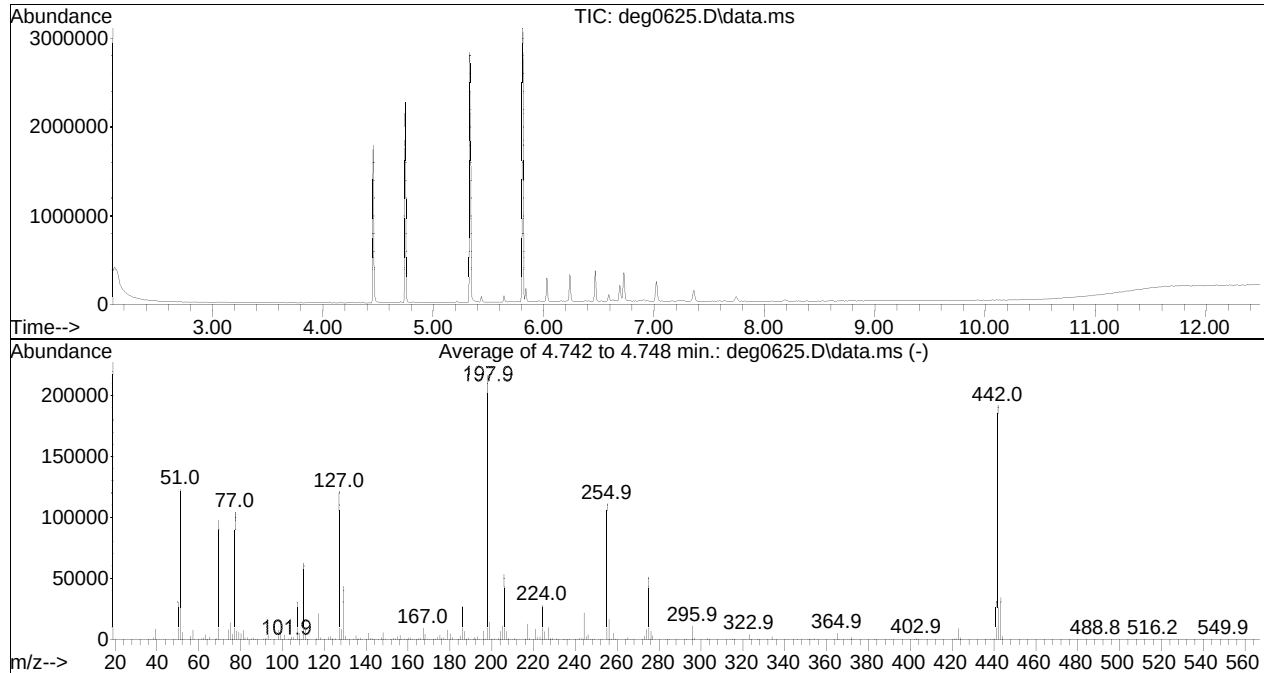
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.18
165.10	53.30	52.40
199.10	17.10	13.91

DFTPP

Data Path : I:\8270SIM\SV118\250625RVT\
 Data File : deg0625.D
 Acq On : 25 Jun 2025 09:12 am
 Operator : SV118:rp
 Sample : WG2083275-1,32,,dftpp SV118 lot #11649
 Misc : WG2083275,,ical21963
 ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV118\250625RVT\SIM-RVT_250203sv118.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Jun 25 10:18:17 2025



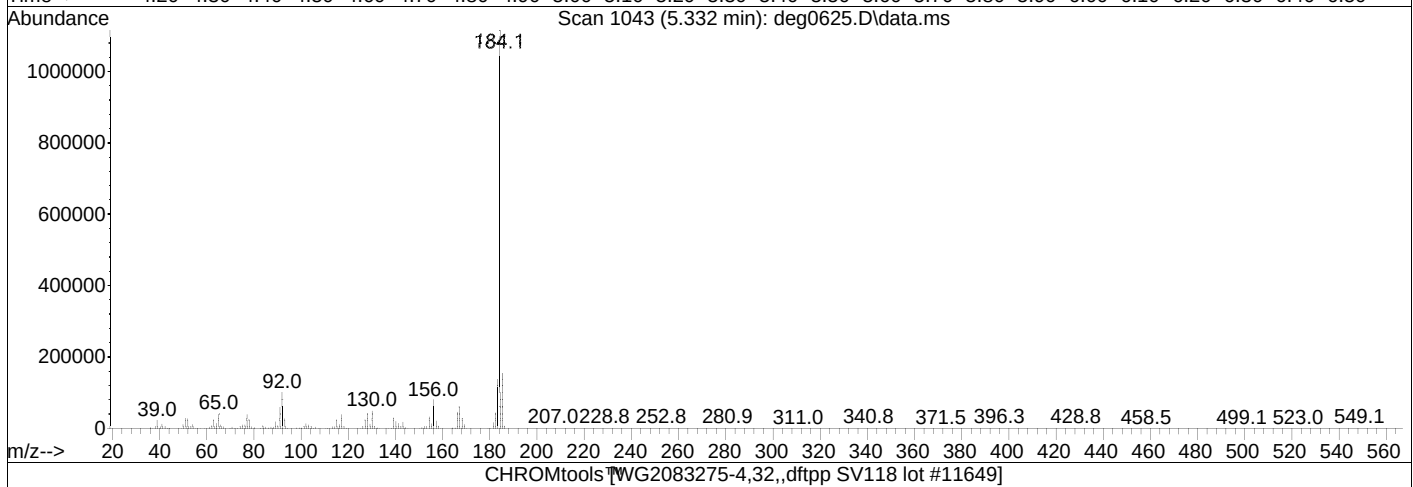
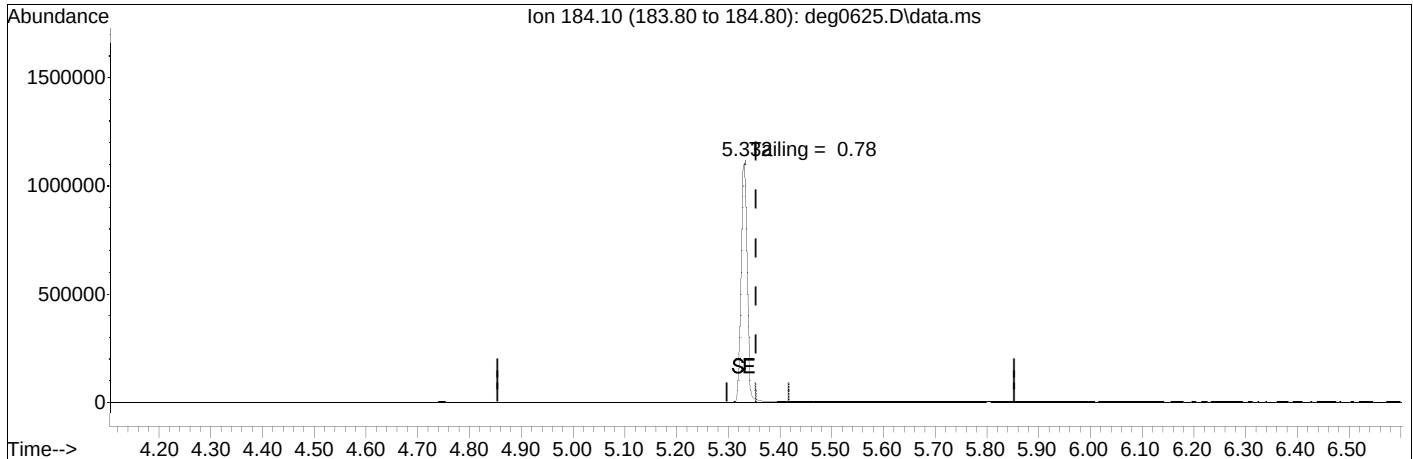
Spectrum Information: Average of 4.742 to 4.748 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	57.0	123188	PASS
68	69	0.00	2	1.6	1593	PASS
69	69	100	100	100.0	97524	PASS
70	69	0.00	2	0.6	561	PASS
127	198	10	80	56.0	121109	PASS
197	198	0.00	2	0.5	1081	PASS
198	198	100	100	100.0	216235	PASS
199	198	5	9	6.6	14303	PASS
275	198	10	60	23.7	51320	PASS
365	198	1	100	2.5	5460	PASS
441	442	0.01	24	16.2	31106	PASS
442	198	50	100	88.5	191445	PASS
443	442	15	24	17.7	33925	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\250625RVT\
Data File : deg0625.D
Acq On : 25 Jun 2025 09:12 am
Operator : SV118:rp
Sample : WG2083275-4,32,,dftpp SV118 lot #11649
Misc : WG2083275,,ical21963
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 25 09:25:09 2025
Quant Method : I:\8270SIM\SV118\250625RVT\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 13 16:17:33 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(3) benzidine (T)

5.332min (-0.022) 83.95

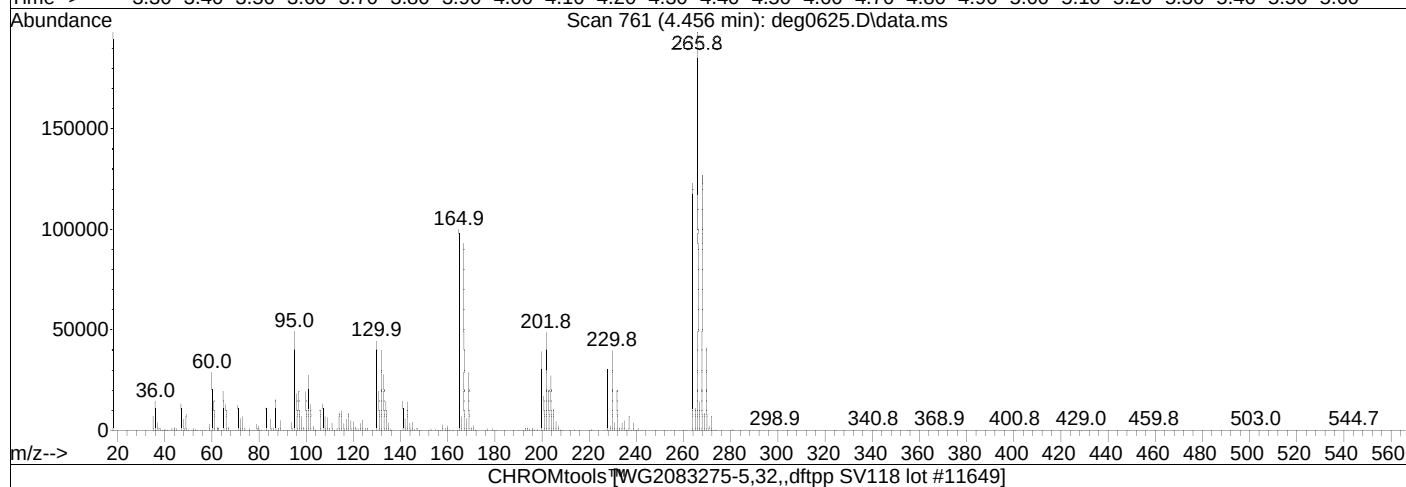
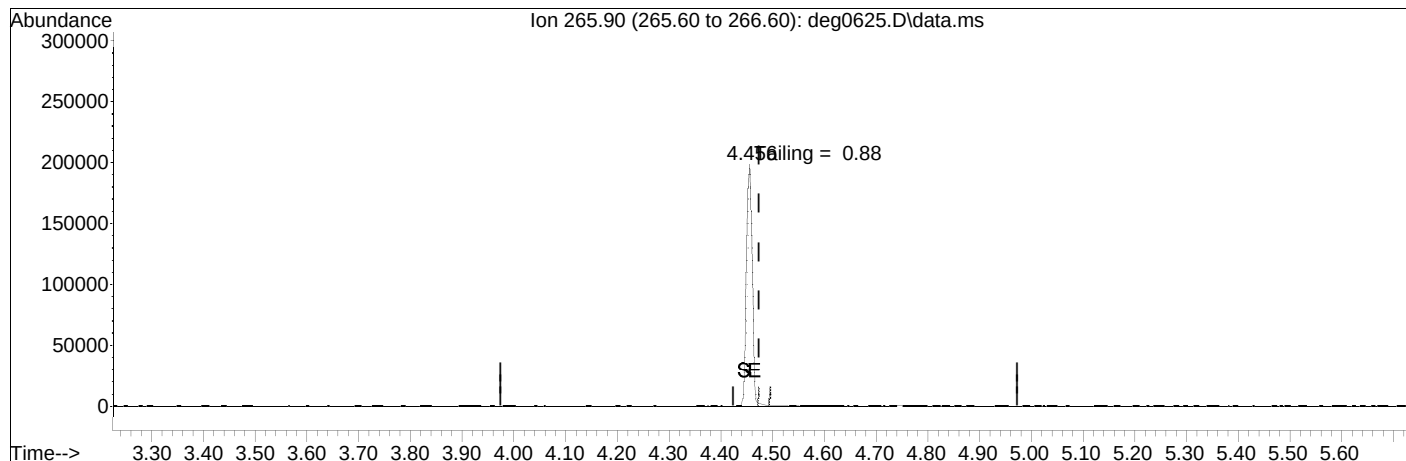
response 854639

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\SV118\250625RVT\
Data File : deg0625.D
Acq On : 25 Jun 2025 09:12 am
Operator : SV118:rp
Sample : WG2083275-5,32,,dftpp SV118 lot #11649
Misc : WG2083275,,ical21963
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 25 09:25:09 2025
Quant Method : I:\8270SIM\SV118\250625RV\df\tpsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 13 16:17:33 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(1) pentachlorophenol (T)

4.456min (-0.018) 66.74

```
response 140187
```

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\250619RVT\
 Data File : 080673-1.D
 Acq On : 19 Jun 2025 02:00 pm
 Operator : sv119:dv
 Sample : WG2080673-1,32,,jjw
 Misc : WG2081054,WG2080673,ical22394
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 18:11:16 2025
 Quant Method : I:\8270sim\sv119\250619RVT\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 13:39:32 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250619RVT\ccv0619.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.325	152	343761	4000.000	ng/ml	-0.01
Standard Area 1 = 283963			Recovery = 121.06%			
9) Naphthalene-d8	2.996	136	1283885	4000.000	ng/ml	-0.01
Standard Area 1 = 1080714			Recovery = 118.80%			
18) Acenaphthene-d10	3.982	164	756551	4000.000	ng/ml	0.00
Standard Area 1 = 647598			Recovery = 116.82%			
23) Phenanthrene-d10	4.827	188	1606252	4000.000	ng/ml	0.00
Standard Area 1 = 1397581			Recovery = 114.93%			
33) Chrysene-d12	6.434	240	1569765	4000.000	ng/ml	0.03
Standard Area 1 = 1312975			Recovery = 119.56%			
38) Perylene-d12	7.725	264	1480019	4000.000	ng/ml	0.03
Standard Area 1 = 1256715			Recovery = 117.77%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.731	112	93134	964.632	ng/ml	-0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.23%			
4) Phenol-d6	2.129	99	88592	706.711	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 35.34%			
8) Nitrobenzene-d5	2.607	82	70604	682.750	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 68.27%			
14) 2-Fluorobiphenyl	3.598	172	208619	718.191	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 71.82%			
22) 2,4,6-Tribromophenol	4.428	330	53207	1401.940	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 70.10%			
32) 4-Terphenyl-d14	5.760	244	291985	808.497	ng/ml	0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 80.85%			
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.	d	
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.	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	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250619RVT\
 Data File : 080673-1.D
 Acq On : 19 Jun 2025 02:00 pm
 Operator : sv119:dv
 Sample : WG2080673-1,32,,jjw
 Misc : WG2081054,WG2080673,ical22394
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 18:11:16 2025
 Quant Method : I:\8270sim\sv119\250619RVT\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 13:39:32 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250619RVT\ccv0619.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.		
43) Dibenzo[a,h]anthracene	0.000		0	N.D.		
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

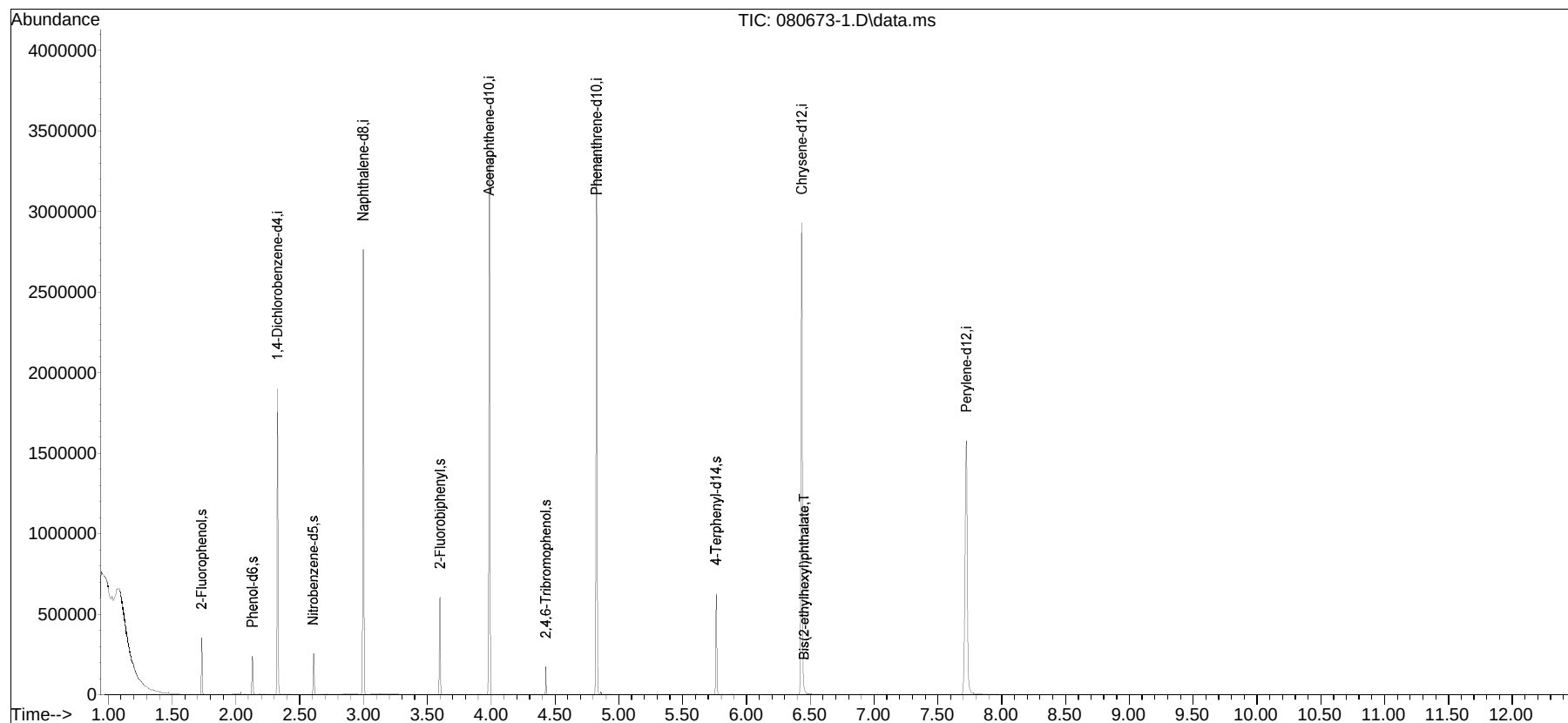
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250619RVT\
 Data File : 080673-1.D
 Acq On : 19 Jun 2025 02:00 pm
 Operator : sv119:dv
 Sample : WG2080673-1,32,,jjw
 Misc : WG2081054,WG2080673,ical22394
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 18:11:16 2025
 Quant Method : I:\8270sim\sv119\250619RVT\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 13:39:32 2025
 Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0619.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\250619RVTQ	Method	: SIM-RVT_250618_sv119.M
Data File	: 080673-1.D	Operator	: sv119:dv
Date Inj'd	: 6/19/2025 2:00 pm	Instrument	: SV119
Sample	: WG2080673-1,32,,jjw	Quant Date	: 6/19/2025 2:14 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250619RVT\
 Data File : 080673-2.D
 Acq On : 19 Jun 2025 02:16 pm
 Operator : sv119:dv
 Sample : WG2080673-2,32,,jjw
 Misc : WG2081054,WG2080673,ical22394
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 18:12:21 2025
 Quant Method : I:\8270sim\sv119\250619RVT\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 13:39:32 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250619RVT\ccv0619.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.329	152	354150	4000.000	ng/ml	0.00
Standard Area 1 = 283963			Recovery	=	124.72%	
9) Naphthalene-d8	3.000	136	1347422	4000.000	ng/ml	0.00
Standard Area 1 = 1080714			Recovery	=	124.68%	
18) Acenaphthene-d10	3.984	164	786885	4000.000	ng/ml	0.00
Standard Area 1 = 647598			Recovery	=	121.51%	
23) Phenanthrene-d10	4.828	188	1673909	4000.000	ng/ml	0.00
Standard Area 1 = 1397581			Recovery	=	119.77%	
33) Chrysene-d12	6.414	240	1580578	4000.000	ng/ml	0.00
Standard Area 1 = 1312975			Recovery	=	120.38%	
38) Perylene-d12	7.701	264	1572020	4000.000	ng/ml	0.00
Standard Area 1 = 1256715			Recovery	=	125.09%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.740	112	112276	1128.781	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	56.44%	
4) Phenol-d6	2.132	99	108033	836.514	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	41.83%	
8) Nitrobenzene-d5	2.611	82	72887	684.151	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	68.42%	
14) 2-Fluorobiphenyl	3.599	172	222640	730.318	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	73.03%	
22) 2,4,6-Tribromophenol	4.429	330	64685	1638.669	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	81.93%	
32) 4-Terphenyl-d14	5.750	244	304121	808.065	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	80.81%	
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	2.189	93	144988	1391.134	ng/ml	99
7) Hexachloroethane	2.591	117	55381	1178.149	ng/ml	100
10) Naphthalene	3.011	128	454912	1288.570	ng/ml	99
11) Hexachlorobutadiene	3.083	225	80587	1152.860	ng/ml	100
12) 2-Methylnaphthalene	3.394	142	309962	1324.074	ng/ml	100
15) 2-Chloronaphthalene	3.666	162	347009	1321.756	ng/ml	98
17) Acenaphthylene	3.902	152	604449	1385.052	ng/ml	100
19) Acenaphthene	4.001	153	367347	1405.464	ng/ml	99
21) Fluorene	4.292	166	452486	1447.100	ng/ml	99
25) Hexachlorobenzene	4.610	284	154149	1487.860	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250619RVT\
 Data File : 080673-2.D
 Acq On : 19 Jun 2025 02:16 pm
 Operator : sv119:dv
 Sample : WG2080673-2,32,,jjw
 Misc : WG2081054,WG2080673,ical22394
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 18:12:21 2025
 Quant Method : I:\8270sim\sv119\250619RVT\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 13:39:32 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250619RVT\ccv0619.D
 Sub List : DEFAULT - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

26)	Pentachlorophenol	4.719	266	89416	1802.943	ng/ml	100
27)	Phenanthrene	4.840	178	706589	1420.430	ng/ml	100
28)	Anthracene	4.868	178	729717	1503.642	ng/ml	100
29)	Fluoranthene	5.524	202	896102	1481.042	ng/ml	99
30)	Pyrene	5.658	202	912913	1462.322	ng/ml	100
34)	Benzo[a]anthracene	6.406	228	847736	1526.264	ng/ml	100
36)	Chrysene	6.431	228	805716	1550.591	ng/ml	100
39)	Benzo[b]fluoranthene	7.301	252	761874	1608.078	ng/ml	98
40)	Benzo[k]fluoranthene	7.327	252	813602	1626.076	ng/ml	98
41)	Benzo[a]pyrene	7.632	252	682574	1583.090	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.993	276	603623	1337.657	ng/ml	99
43)	Dibenzo[a,h]anthracene	9.033	278	609063M6	1412.500	ng/ml	
44)	Benzo[g,h,i]perylene	9.357	276	693105	1498.258	ng/ml	100

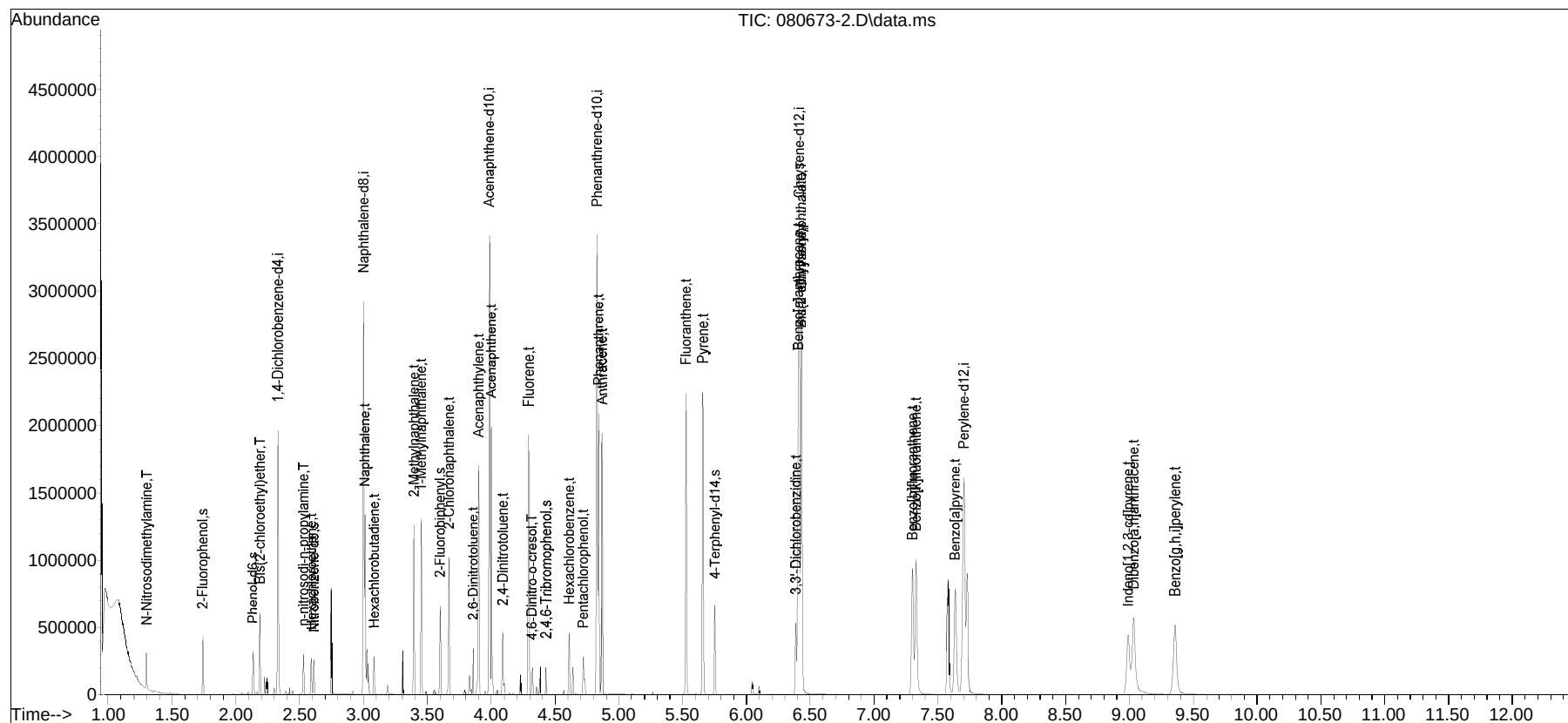
(#) = qualifier out of range (m) = manual integration (+) = signals summed

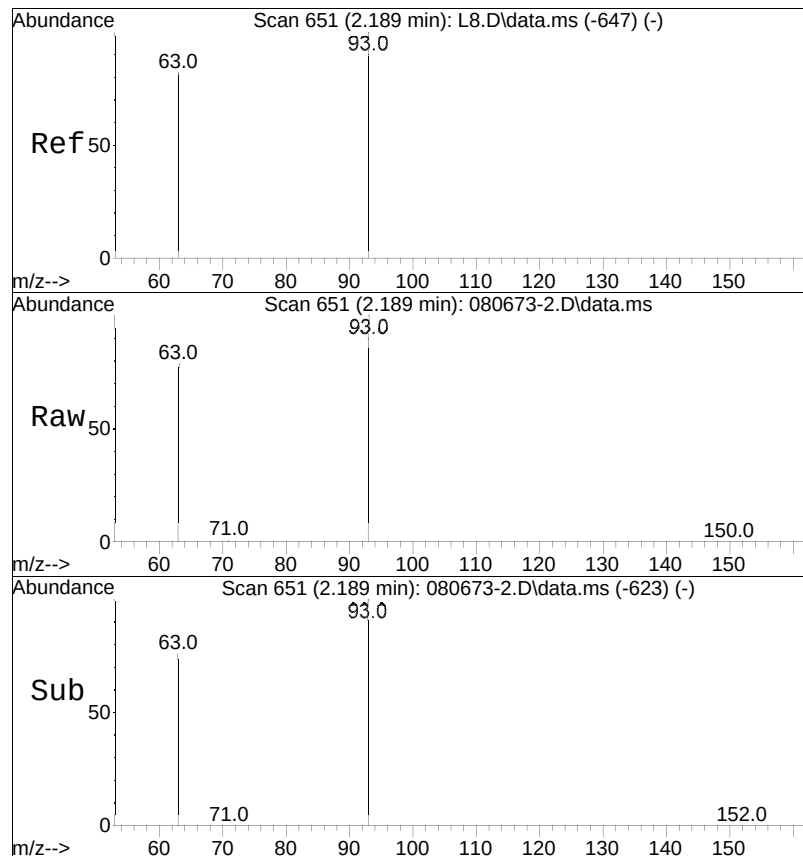
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250619RVT\
 Data File : 080673-2.D
 Acq On : 19 Jun 2025 02:16 pm
 Operator : sv119:dv
 Sample : WG2080673-2,32,,jjw
 Misc : WG2081054,WG2080673,ical22394
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 18:12:21 2025
 Quant Method : I:\8270sim\sv119\250619RVT\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 13:39:32 2025
 Response via : Initial Calibration

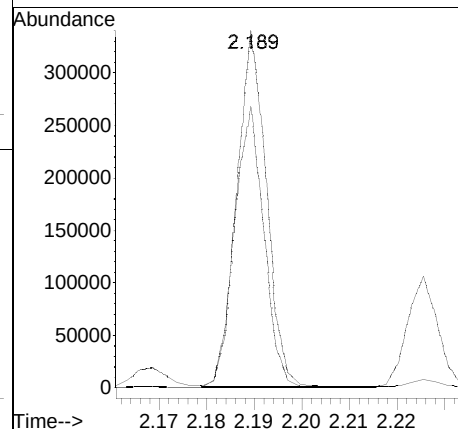
Sub List : DEFAULT - All compounds listed\ccv0619.D•

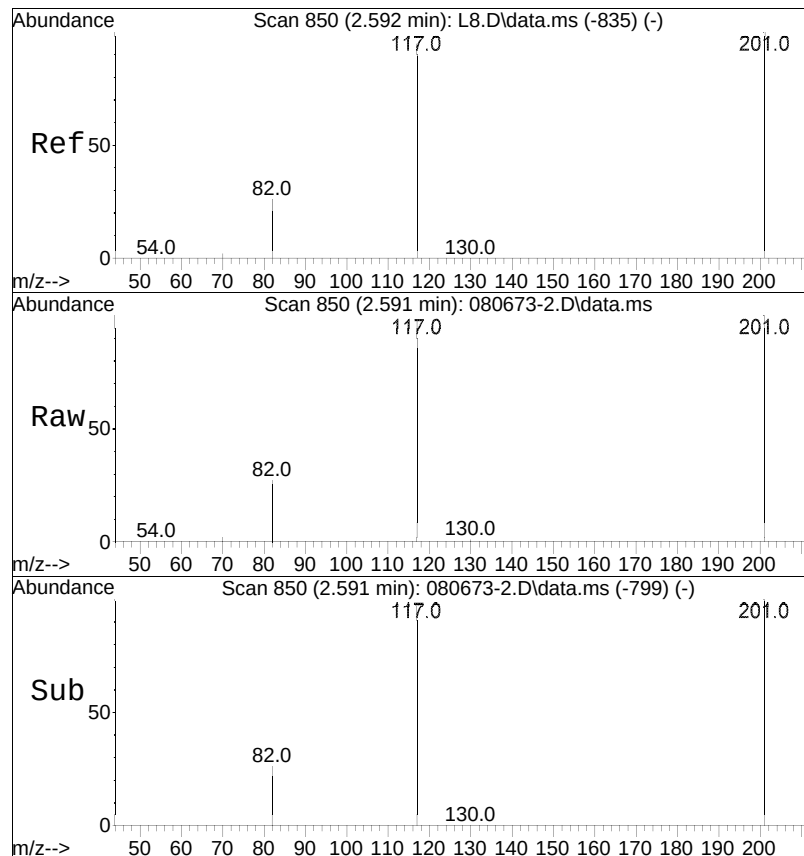




#5
 Bis(2-chloroethyl)ether
 Concen: 1391.13 ng/ml
 RT: 2.189 min Scan# 651
 Delta R.T. -0.008 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

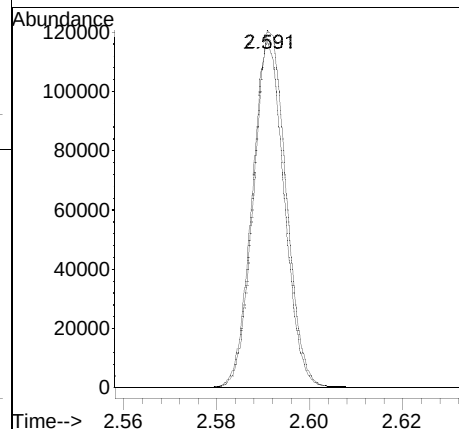
Tgt	Ion	Resp	Lower	Upper
93	100			
63	79.2	62.9	94.3	

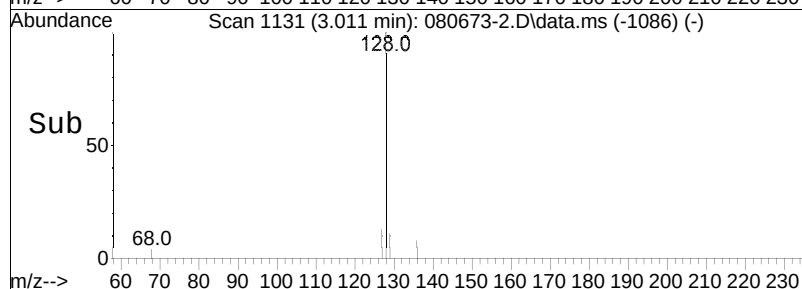
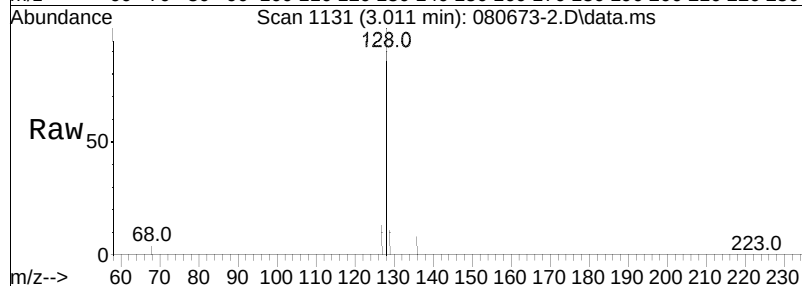
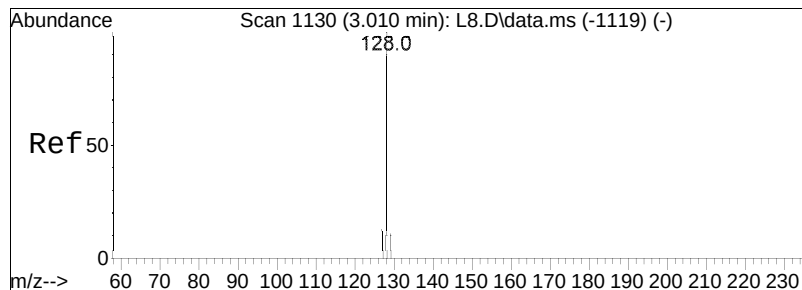




#7
 Hexachloroethane
 Concen: 1178.15 ng/ml
 RT: 2.591 min Scan# 850
 Delta R.T. -0.009 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

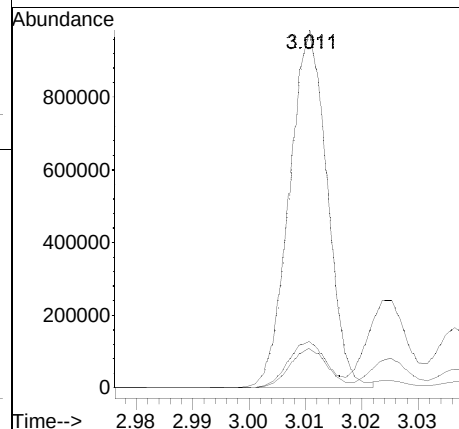
Tgt Ion	Ratio	Lower	Upper
117	100		
201	103.8	82.9	124.3

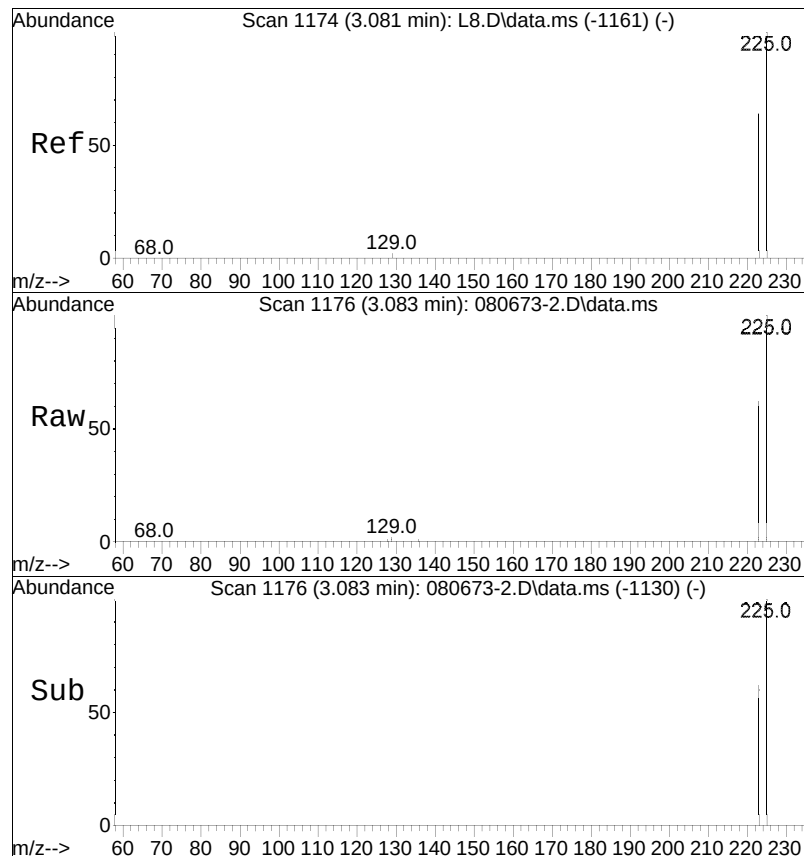




#10
Naphthalene
Concen: 1288.57 ng/ml
RT: 3.011 min Scan# 1131
Delta R.T. -0.008 min
Lab File: 080673-2.D
Acq: 19 Jun 2025 02:16 pm

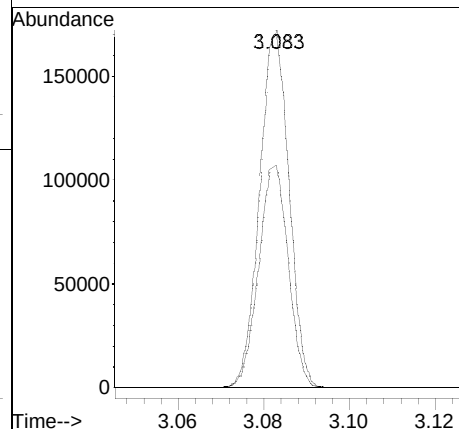
Tgt	Ion	Ratio	Resp	Lower	Upper
128	100		454912		
129	11.0		8.8	13.2	
127	13.6		10.6	15.8	

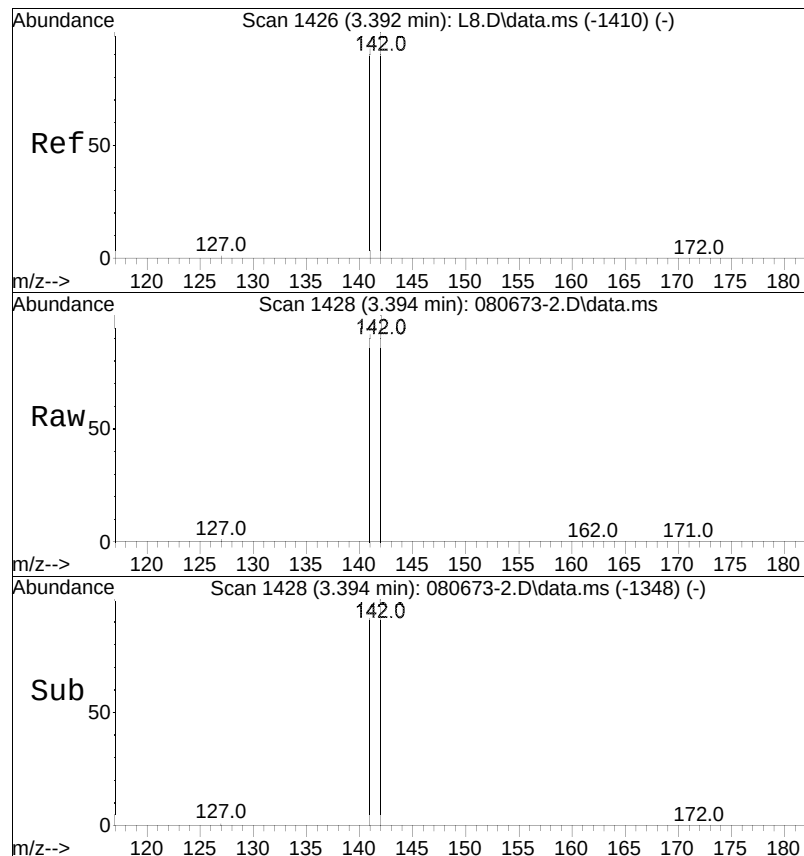




#11
 Hexachlorobutadiene
 Concen: 1152.86 ng/ml
 RT: 3.083 min Scan# 1176
 Delta R.T. -0.007 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

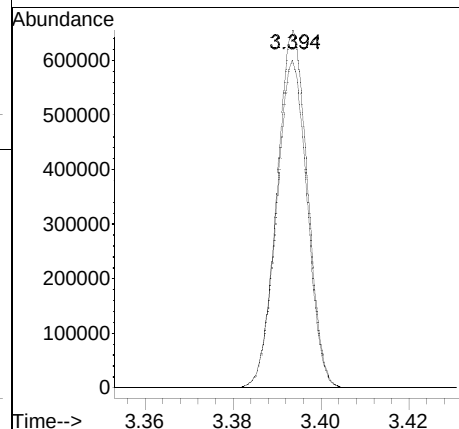
Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.4

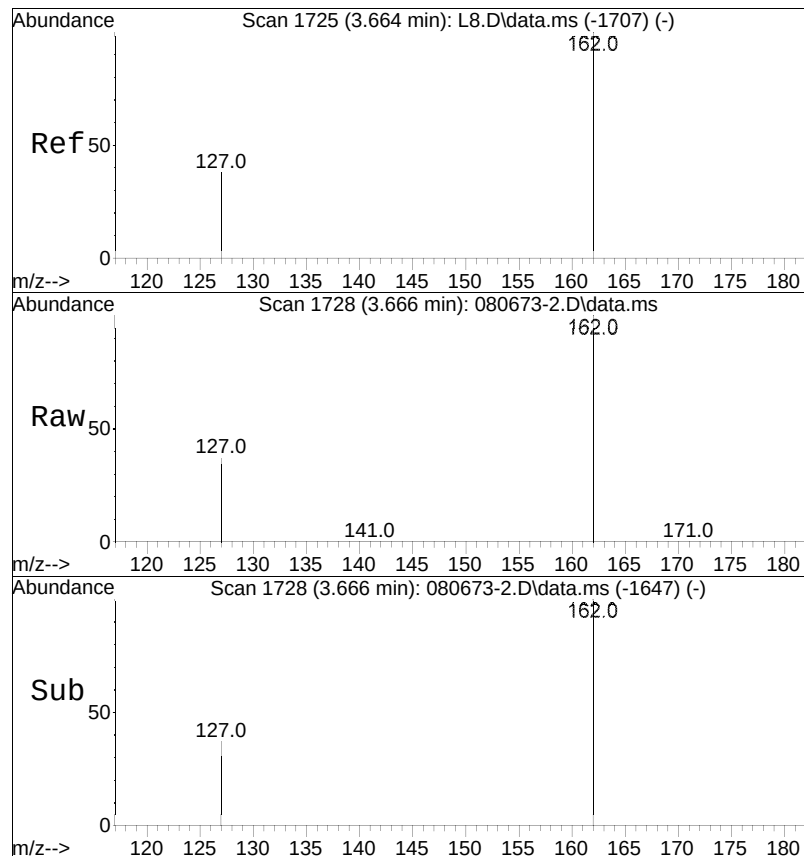




#12
 2-Methylnaphthalene
 Concen: 1324.07 ng/ml
 RT: 3.394 min Scan# 1428
 Delta R.T. -0.007 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

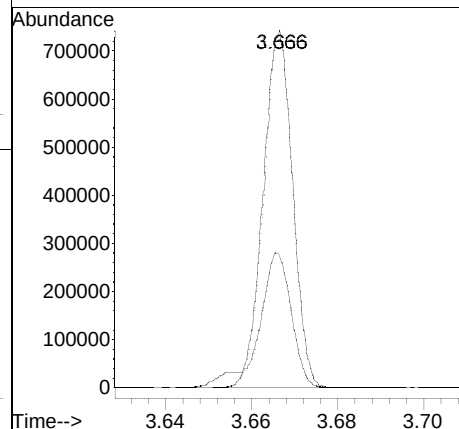
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.6	110.4

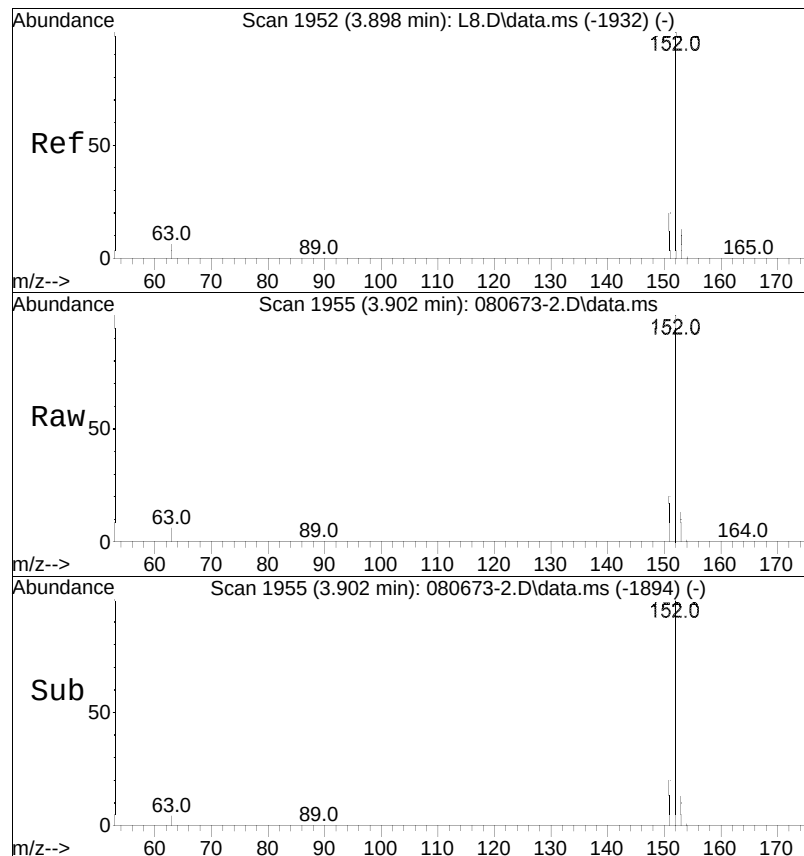




#15
 2-Chloronaphthalene
 Concen: 1321.76 ng/ml
 RT: 3.666 min Scan# 1728
 Delta R.T. -0.006 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

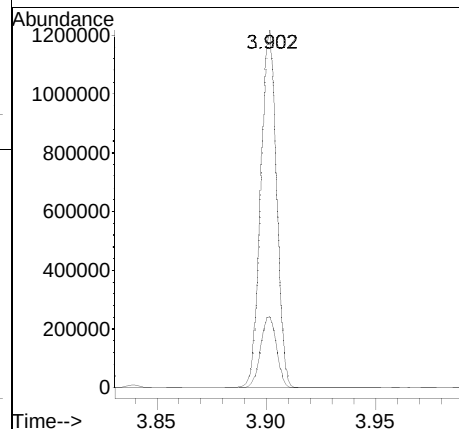
Tgt Ion	Ratio	Lower	Upper
162	100		
127	38.2	29.8	44.8

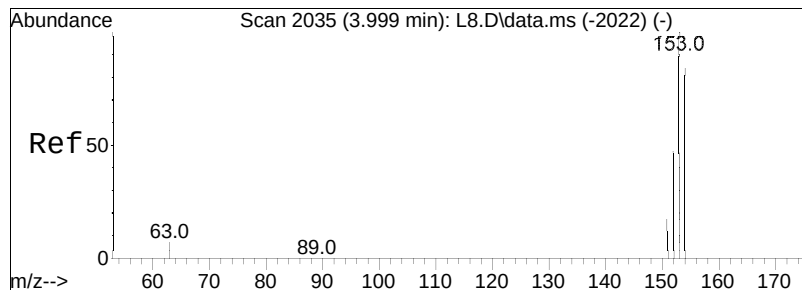




#17
 Acenaphthylene
 Concen: 1385.05 ng/ml
 RT: 3.902 min Scan# 1955
 Delta R.T. -0.006 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2





#19

Acenaphthene

Concen: 1405.46 ng/ml

RT: 4.001 min Scan# 2037

Delta R.T. -0.006 min

Lab File: 080673-2.D

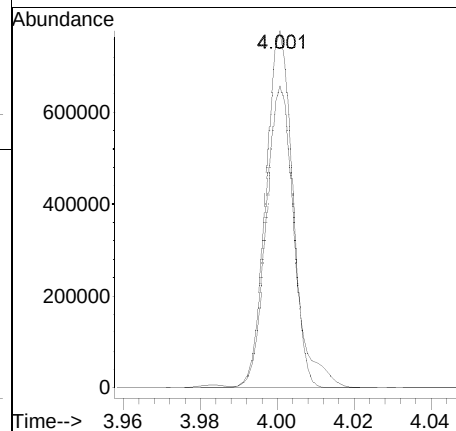
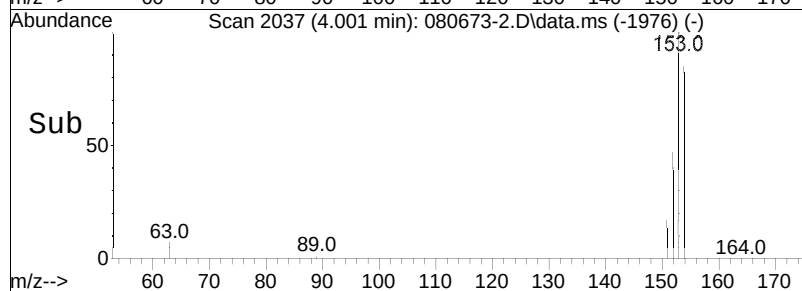
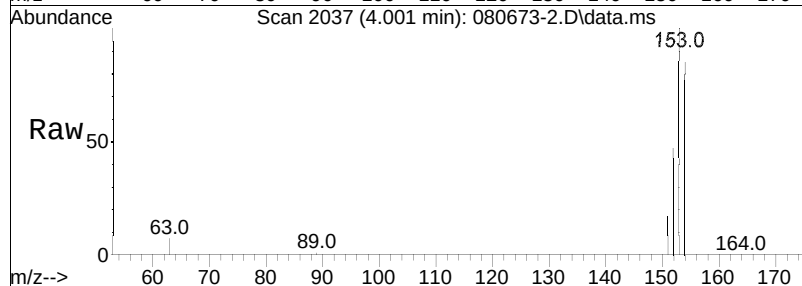
Acq: 19 Jun 2025 02:16 pm

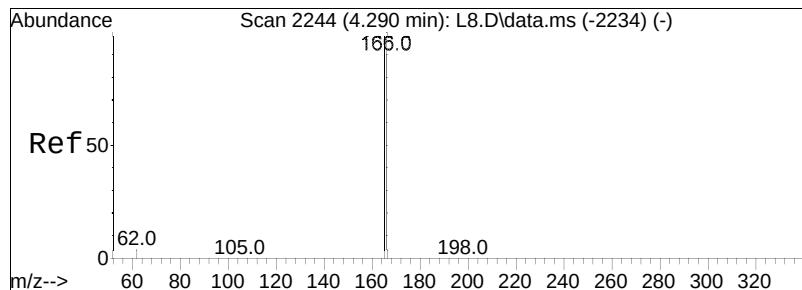
Tgt Ion:153 Resp: 367347

Ion Ratio Lower Upper

153 100

154 91.0 72.0 108.0





#21

Fluorene

Concen: 1447.10 ng/ml

RT: 4.292 min Scan# 2245

Delta R.T. -0.007 min

Lab File: 080673-2.D

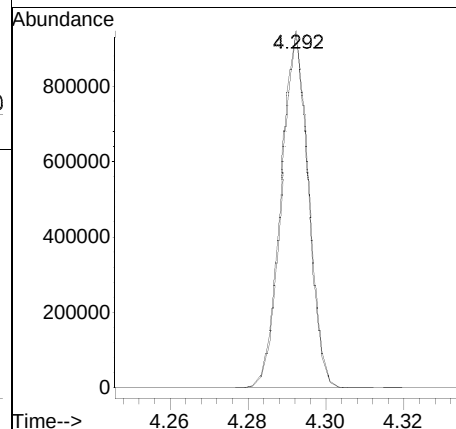
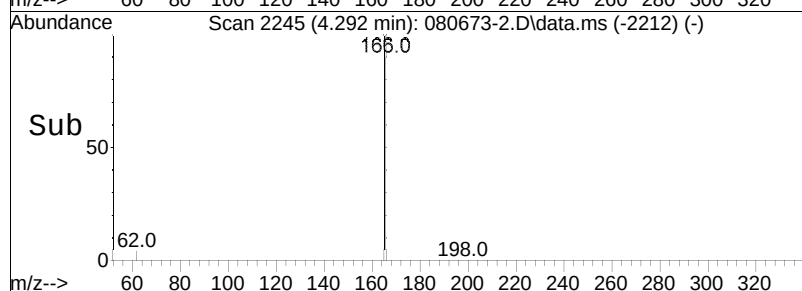
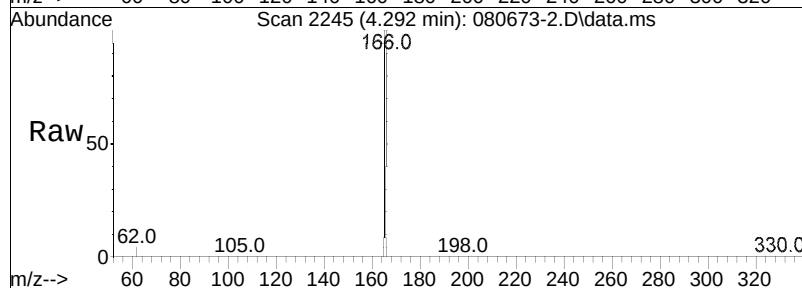
Acq: 19 Jun 2025 02:16 pm

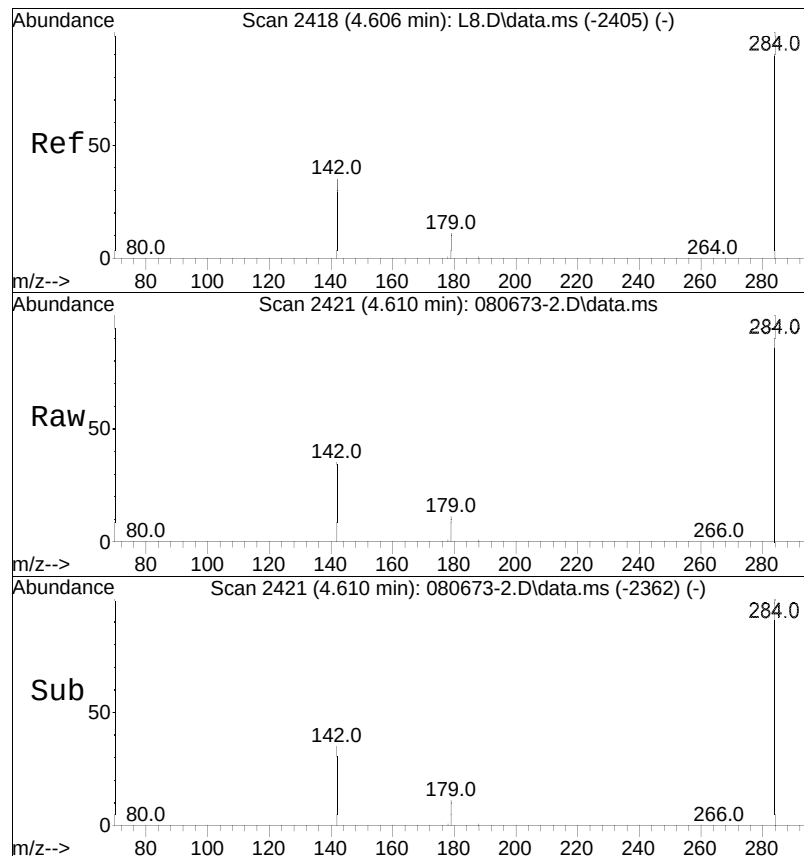
Tgt Ion:166 Resp: 452486

Ion Ratio Lower Upper

166 100

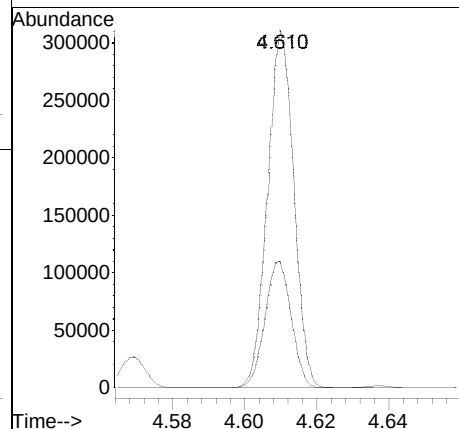
165 101.1 81.5 122.3

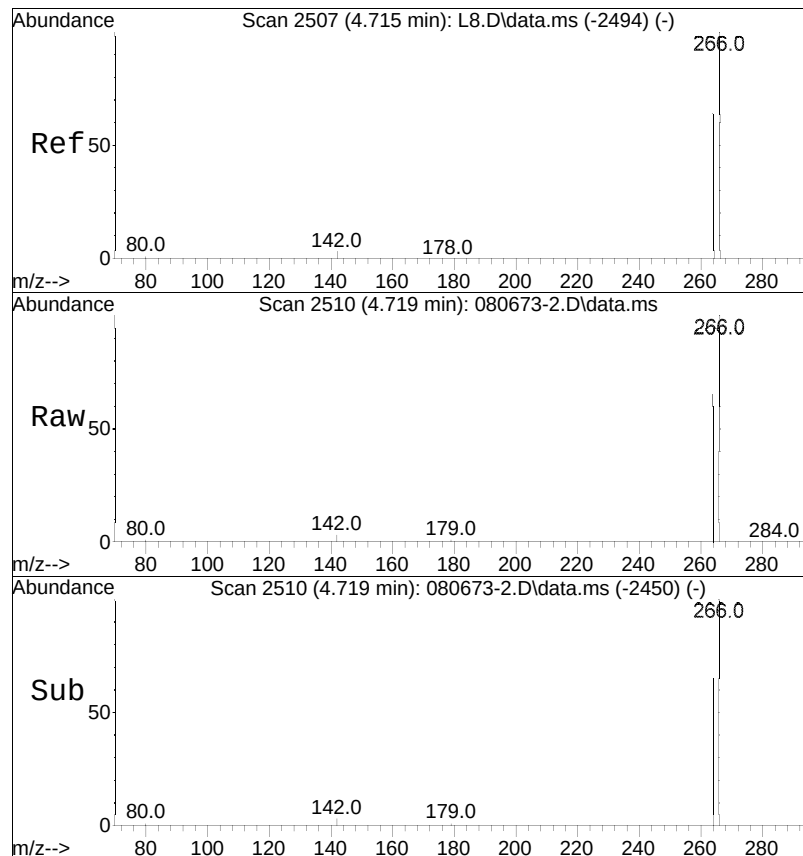




#25
 Hexachlorobenzene
 Concen: 1487.86 ng/ml
 RT: 4.610 min Scan# 2421
 Delta R.T. -0.008 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

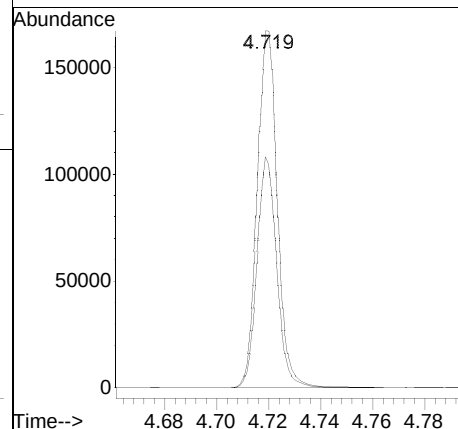
Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.7	28.8	43.2

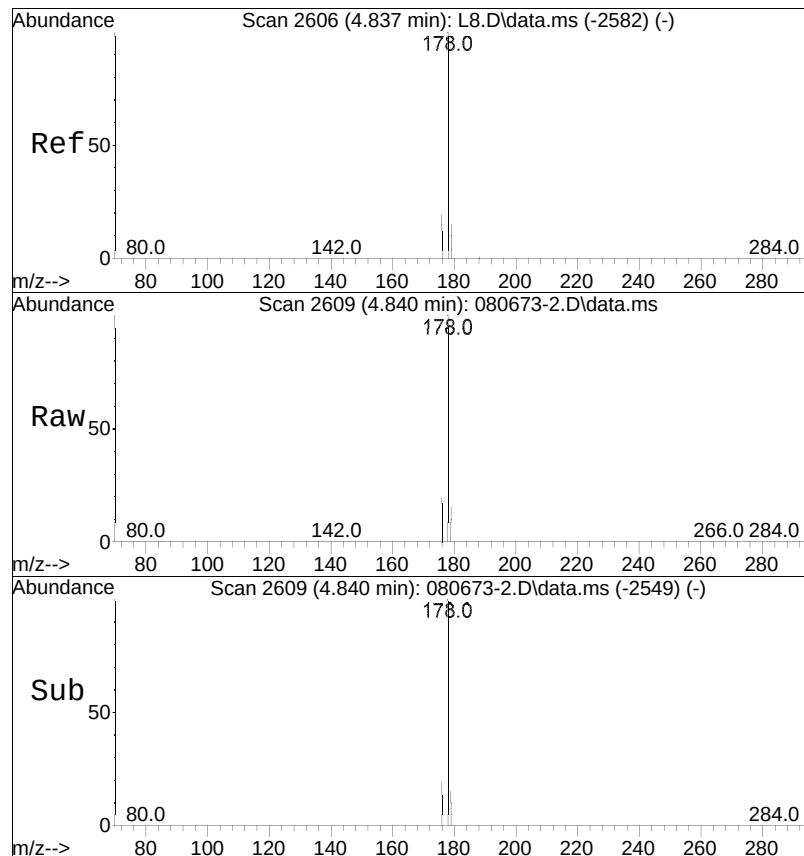




#26
 Pentachlorophenol
 Concen: 1802.94 ng/ml
 RT: 4.719 min Scan# 2510
 Delta R.T. -0.006 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

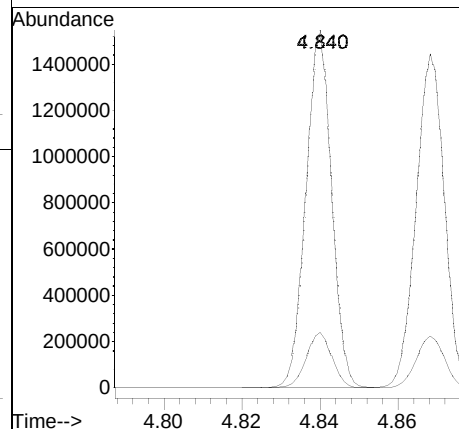
Tgt	Ion	Ratio	Resp	Lower	Upper
266	100		89416		
264	63.4		50.6	76.0	

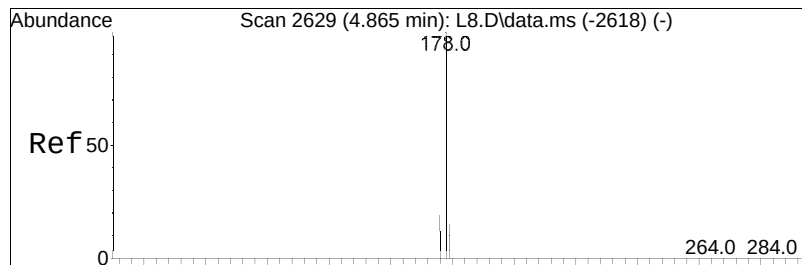




#27
 Phenanthrene
 Concen: 1420.43 ng/ml
 RT: 4.840 min Scan# 2609
 Delta R.T. -0.006 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

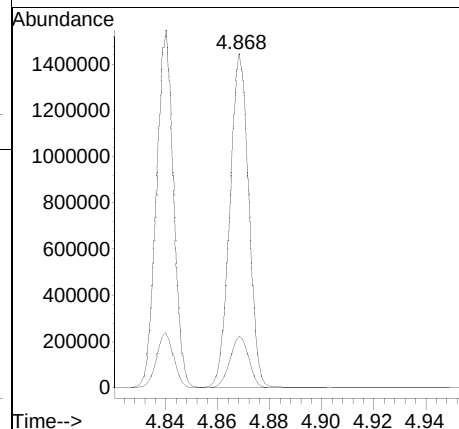
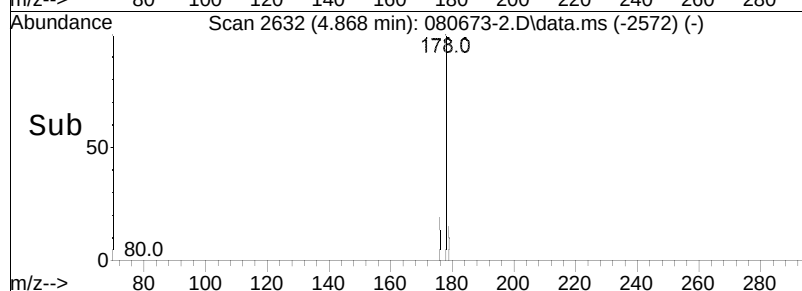
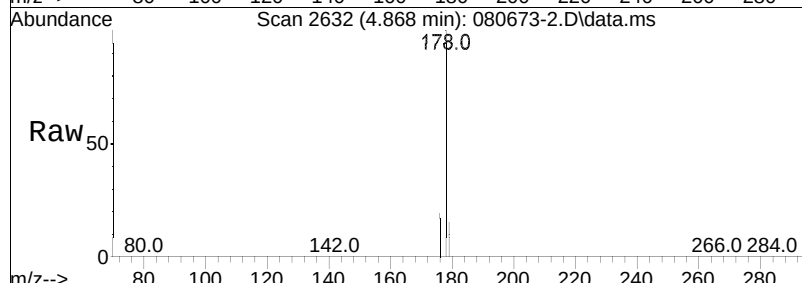
Tgt	Ion	Ratio	Resp	Lower	Upper
178	100		706589		
179	15.6			12.4	18.6

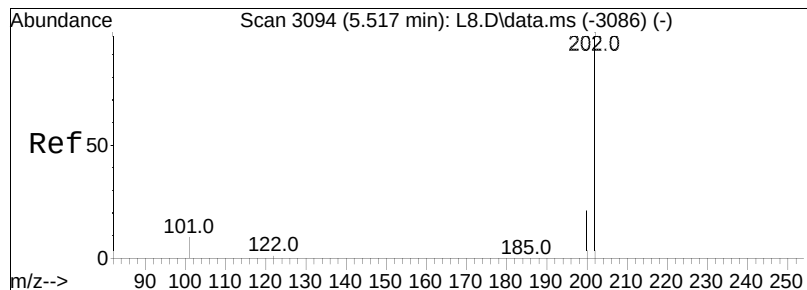




#28
 Anthracene
 Concen: 1503.64 ng/ml
 RT: 4.868 min Scan# 2632
 Delta R.T. -0.006 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

Tgt	Ion	Ratio	Lower	Upper
178	100			
179	15.4	12.2	18.2	





#29

Fluoranthene

Concen: 1481.04 ng/ml

RT: 5.524 min Scan# 3098

Delta R.T. -0.003 min

Lab File: 080673-2.D

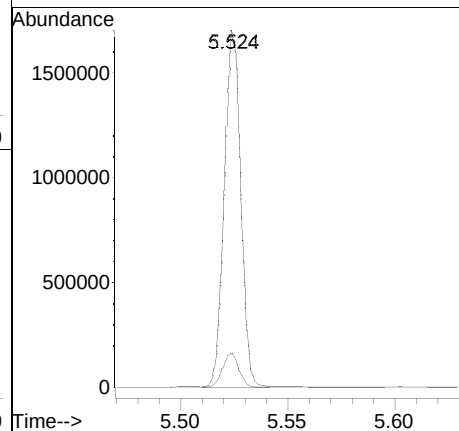
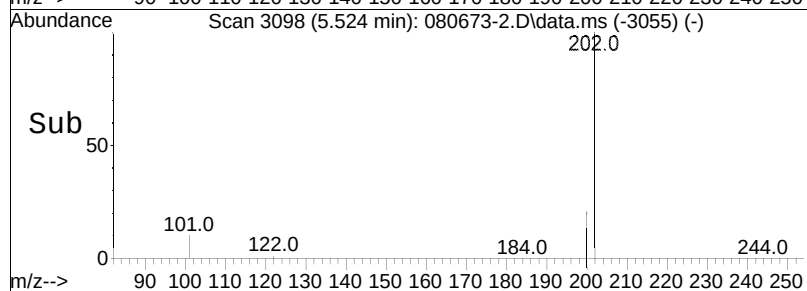
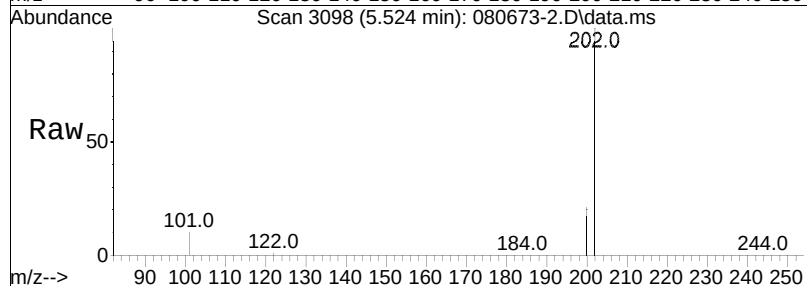
Acq: 19 Jun 2025 02:16 pm

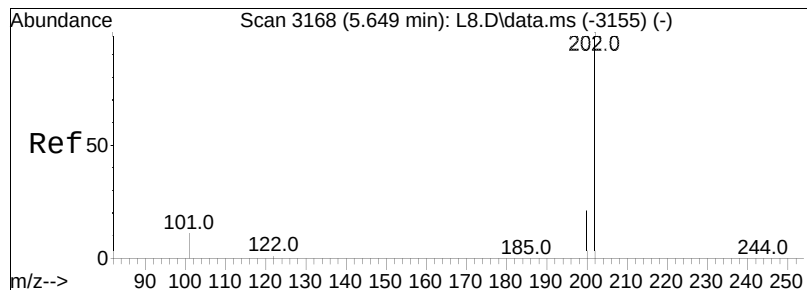
Tgt Ion: 202 Resp: 896102

Ion Ratio Lower Upper

202 100

101 9.6 7.5 11.3





#30

Pyrene

Concen: 1462.32 ng/ml

RT: 5.658 min Scan# 3173

Delta R.T. -0.001 min

Lab File: 080673-2.D

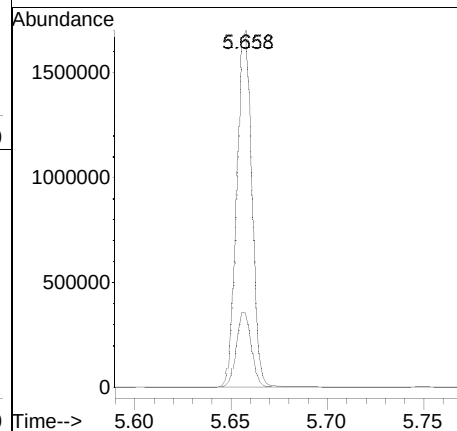
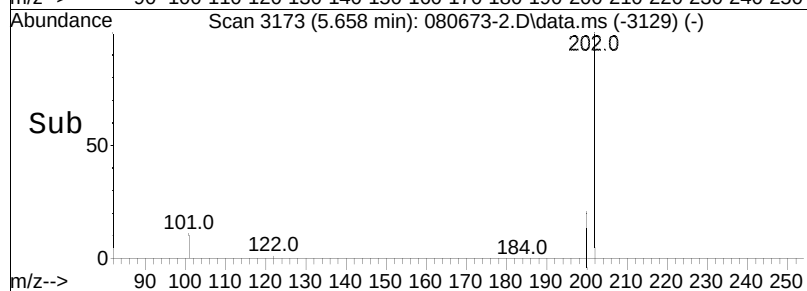
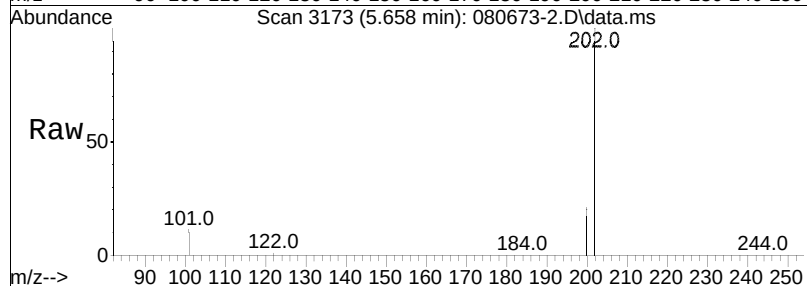
Acq: 19 Jun 2025 02:16 pm

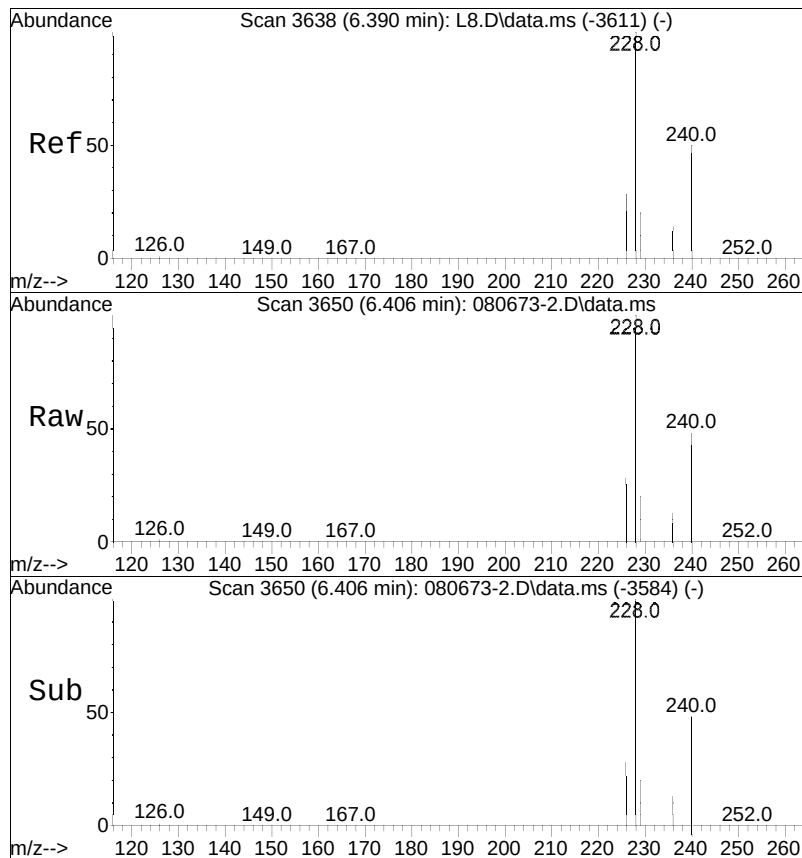
Tgt Ion: 202 Resp: 912913

Ion Ratio Lower Upper

202 100

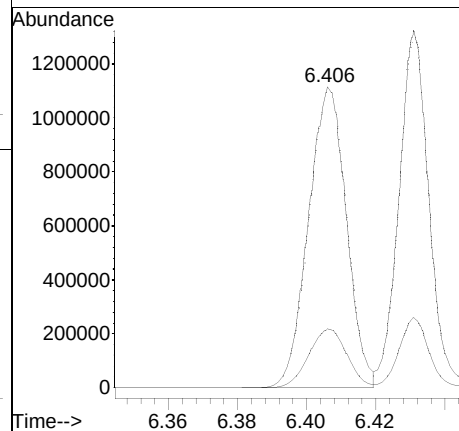
200 21.2 17.0 25.4

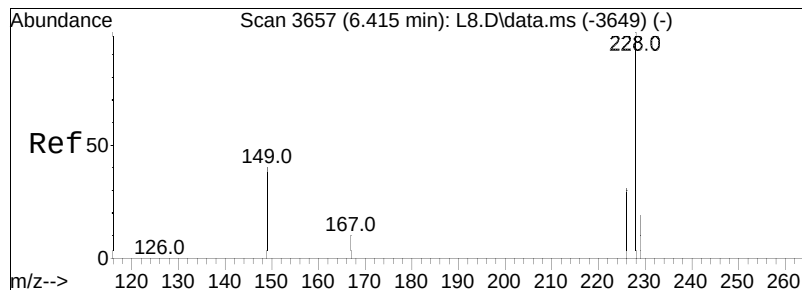




#34
 Benzo[a]anthracene
 Concen: 1526.26 ng/ml
 RT: 6.406 min Scan# 3650
 Delta R.T. 0.006 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

Tgt	Ion	Ratio	Lower	Upper
228	100			
229	19.7	15.8	23.6	





#36

Chrysene

Concen: 1550.59 ng/ml

RT: 6.431 min Scan# 3669

Delta R.T. 0.006 min

Lab File: 080673-2.D

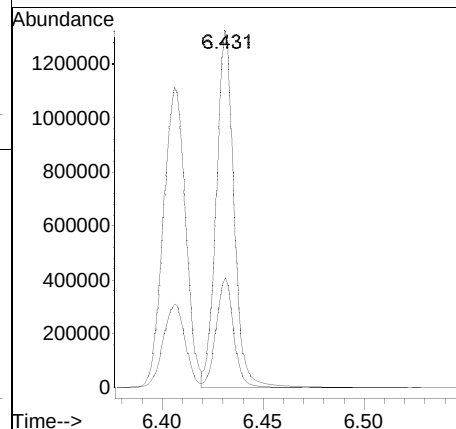
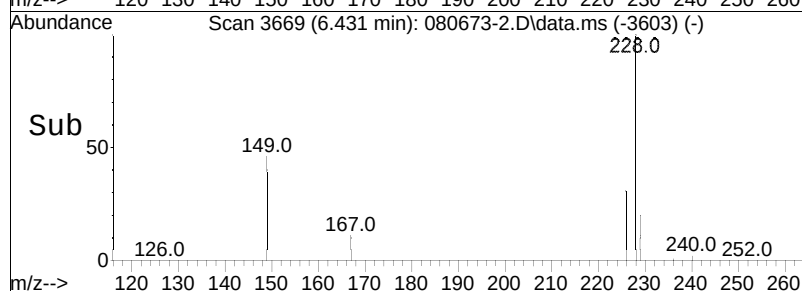
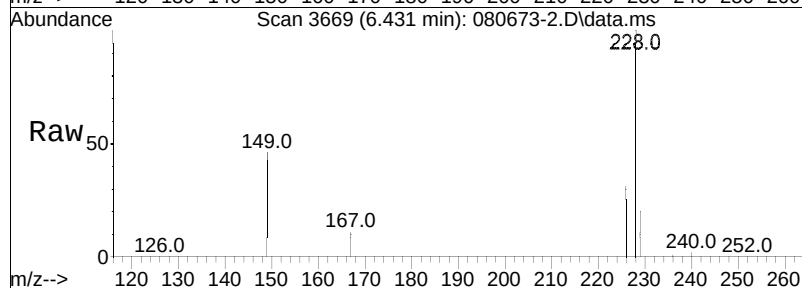
Acq: 19 Jun 2025 02:16 pm

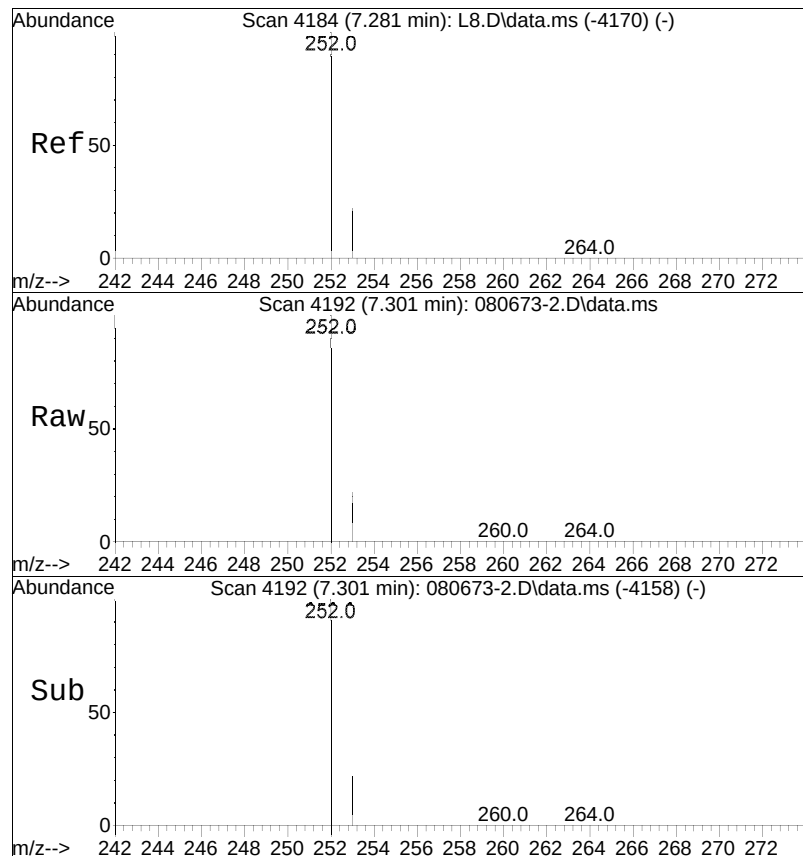
Tgt Ion: 228 Resp: 805716

Ion Ratio Lower Upper

228 100

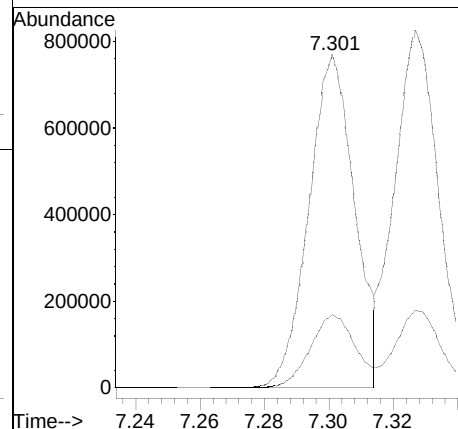
226 30.6 24.6 37.0

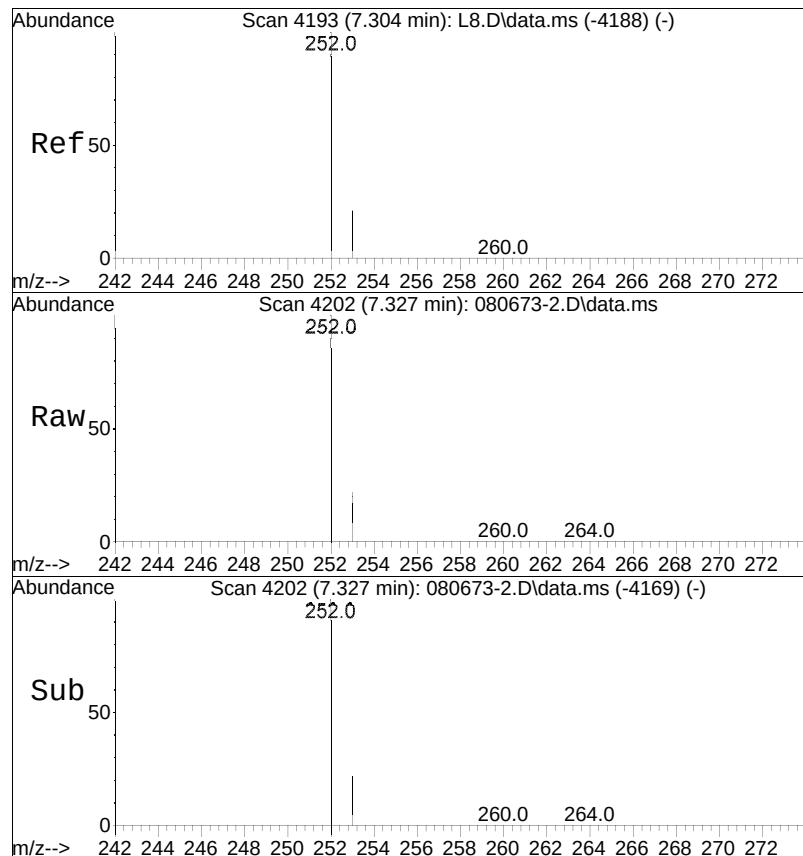




#39
 Benzo[b]fluoranthene
 Concen: 1608.08 ng/ml
 RT: 7.301 min Scan# 4192
 Delta R.T. 0.007 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

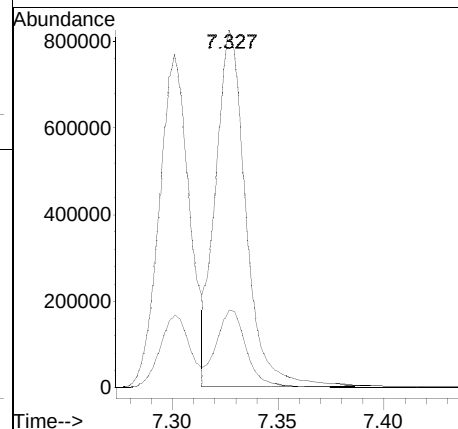
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.8	18.1	27.1	

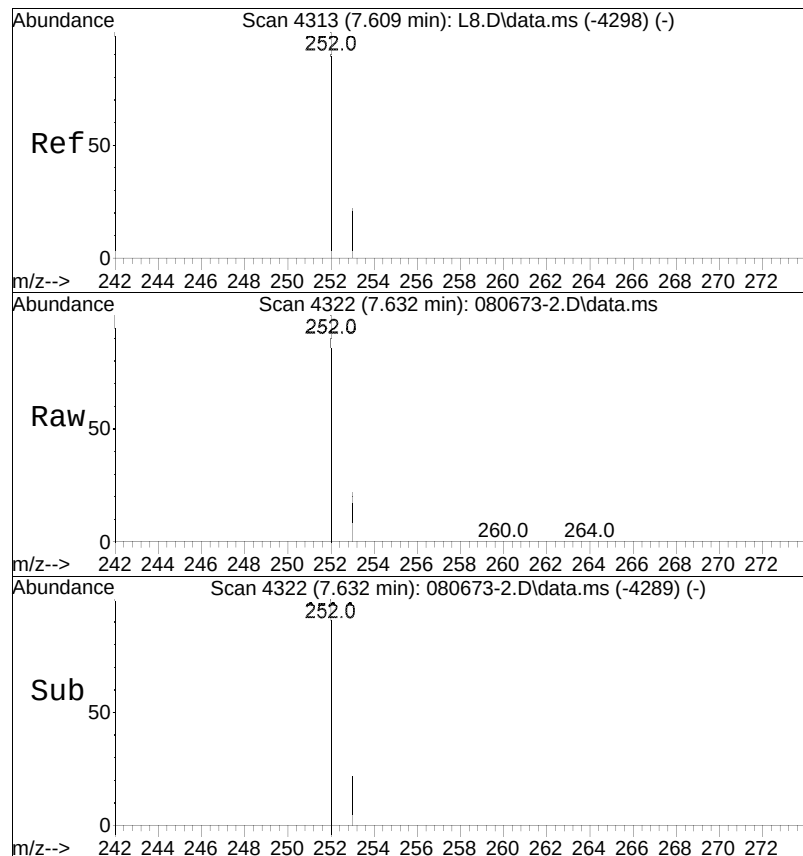




#40
 Benzo[k]fluoranthene
 Concen: 1626.08 ng/ml
 RT: 7.327 min Scan# 4202
 Delta R.T. 0.005 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

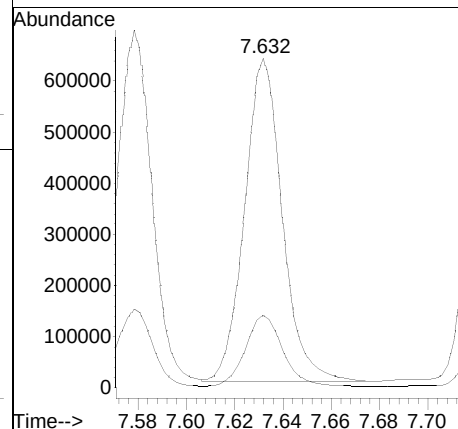
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	22.1	17.0	25.4	

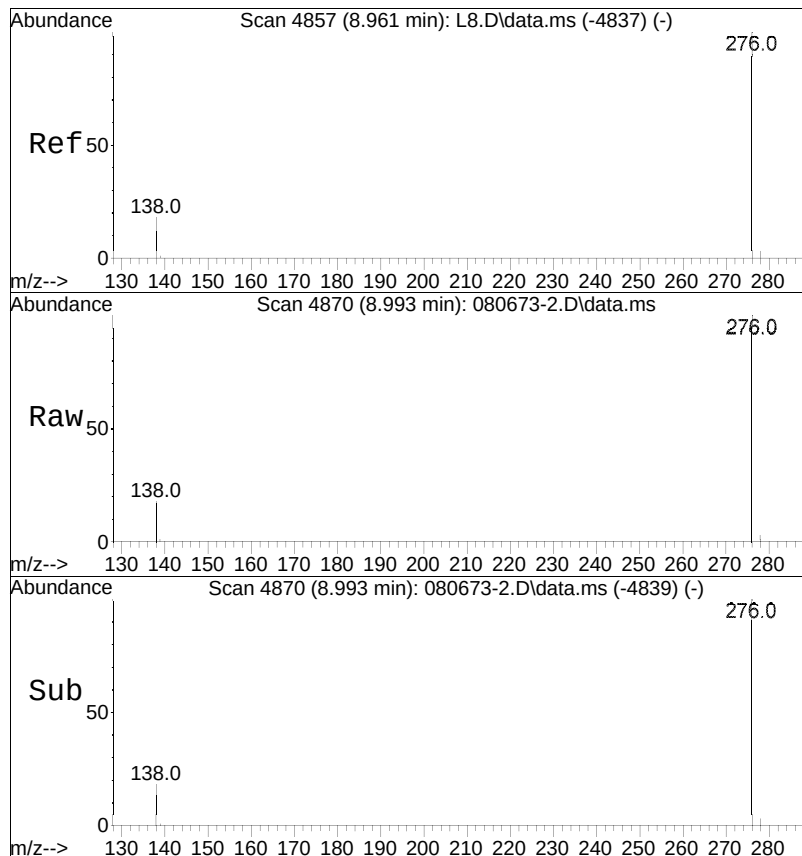




#41
 Benzo[a]pyrene
 Concen: 1583.09 ng/ml
 RT: 7.632 min Scan# 4322
 Delta R.T. 0.005 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

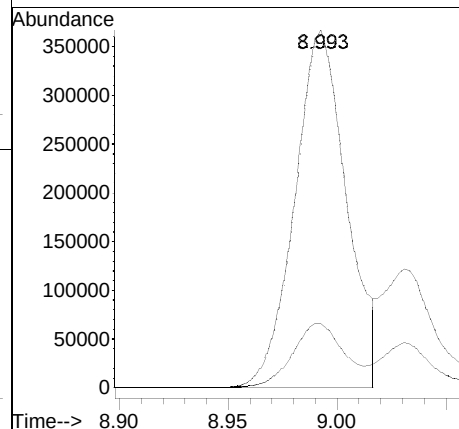
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.9	17.4	26.0	

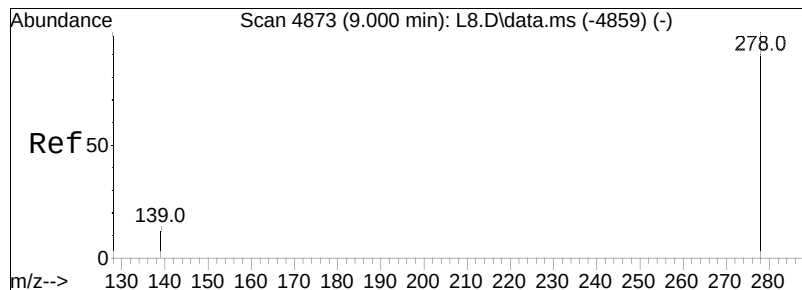




#42
 Indeno[1,2,3-cd]pyrene
 Concen: 1337.66 ng/ml
 RT: 8.993 min Scan# 4870
 Delta R.T. -0.005 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.7	14.4	21.6





#43

Dibenzo[a,h]anthracene

Concen: 1412.50 ng/ml M6

RT: 9.033 min Scan# 4887

Delta R.T. -0.003 min

Lab File: 080673-2.D

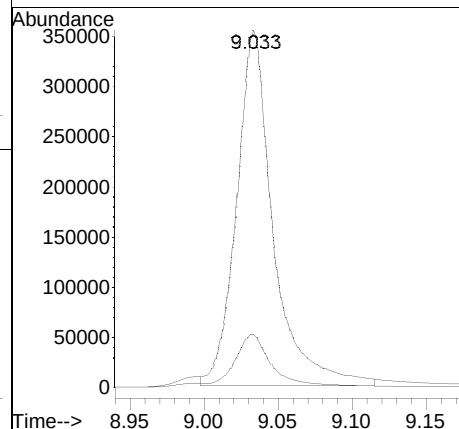
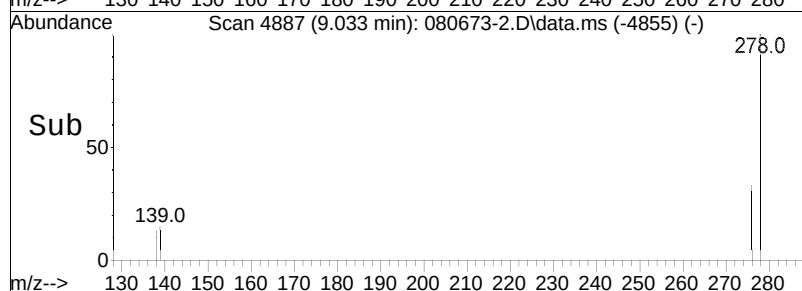
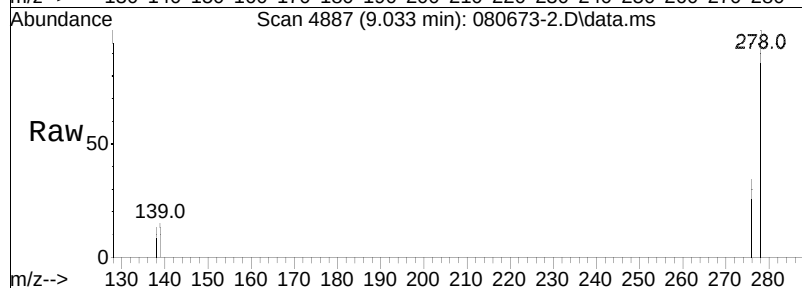
Acq: 19 Jun 2025 02:16 pm

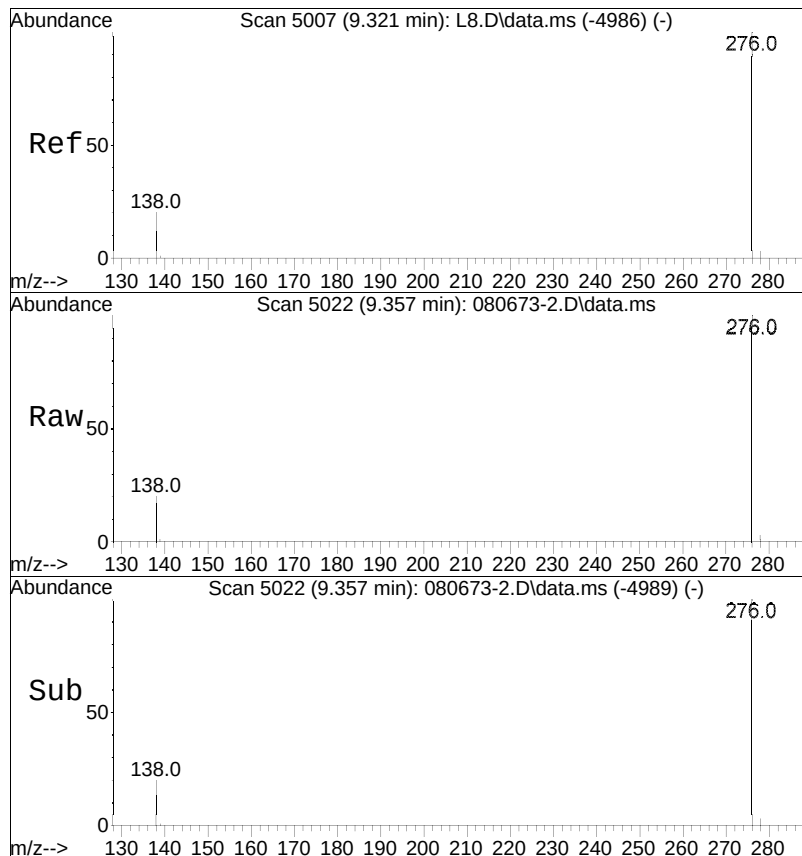
Tgt Ion: 278 Resp: 609063

Ion Ratio Lower Upper

278 100

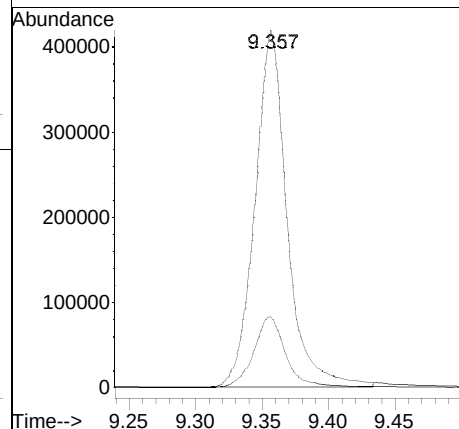
139 14.3 12.1 18.1





#44
 Benzo[g,h,i]perylene
 Concen: 1498.26 ng/ml
 RT: 9.357 min Scan# 5022
 Delta R.T. -0.000 min
 Lab File: 080673-2.D
 Acq: 19 Jun 2025 02:16 pm

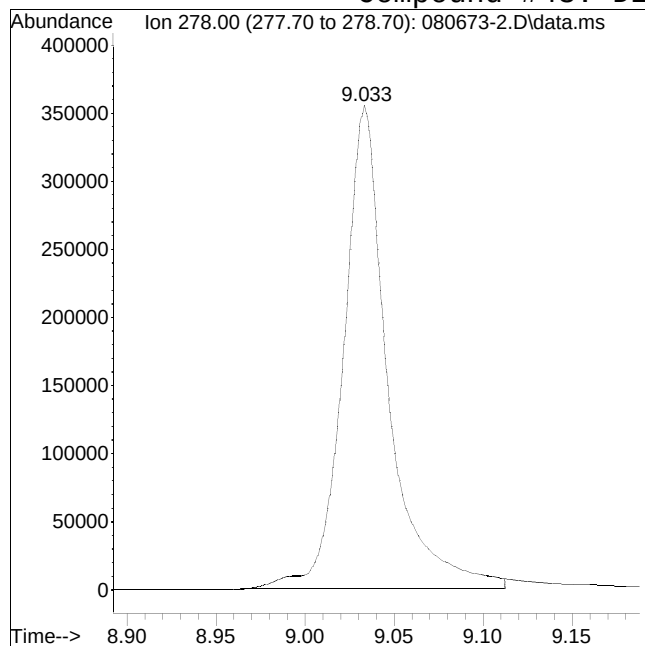
Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.1	16.0	24.0



Manual Integration Report

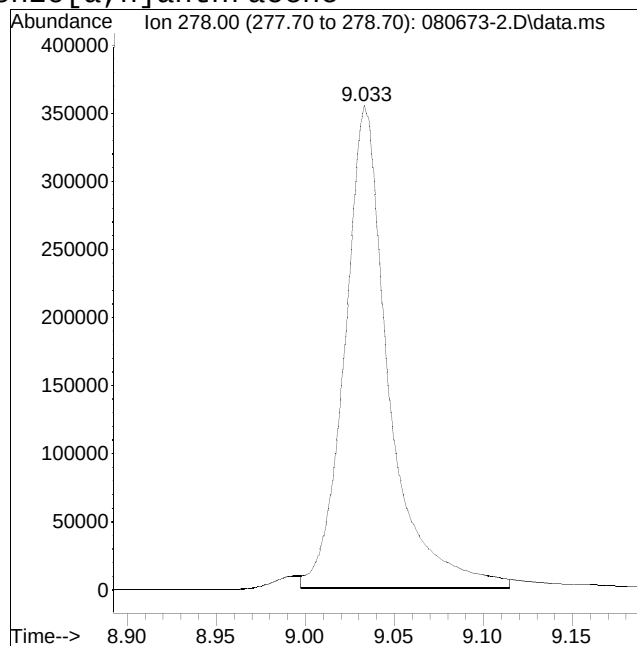
Data Path : I:\8270SIM\sv119\250619RVTQMethod : SIM-RVT_250618_sv119.M
Data File : 080673-2.D Operator : sv119:dv
Date Inj'd : 6/19/2025 2:16 pm Instrument : SV119
Sample : WG2080673-2,32,,jjw Quant Date : 6/19/2025 2:30 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 622678

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



Manual Peak Response = 609063 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250619RVT\
 Data File : 080673-3.D
 Acq On : 19 Jun 2025 02:33 pm
 Operator : sv119:dv
 Sample : WG2080673-3,32,,jjw
 Misc : WG2081054,WG2080673,ical22394
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 18:13:16 2025
 Quant Method : I:\8270sim\sv119\250619RVT\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 13:39:32 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250619RVT\ccv0619.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.329	152	367546	4000.000	ng/ml	0.00
Standard Area 1 = 283963			Recovery	=	129.43%	
9) Naphthalene-d8	3.000	136	1406901	4000.000	ng/ml	0.00
Standard Area 1 = 1080714			Recovery	=	130.18%	
18) Acenaphthene-d10	3.984	164	830093	4000.000	ng/ml	0.00
Standard Area 1 = 647598			Recovery	=	128.18%	
23) Phenanthrene-d10	4.827	188	1765030	4000.000	ng/ml	0.00
Standard Area 1 = 1397581			Recovery	=	126.29%	
33) Chrysene-d12	6.413	240	1617609	4000.000	ng/ml	0.00
Standard Area 1 = 1312975			Recovery	=	123.20%	
38) Perylene-d12	7.698	264	1587750	4000.000	ng/ml	0.00
Standard Area 1 = 1256715			Recovery	=	126.34%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.737	112	87163	844.365	ng/ml	0.00
Spiked Amount 2000.000	Range	15 - 110	Recovery	=	42.22%	
4) Phenol-d6	2.133	99	88368	659.306	ng/ml	0.00
Spiked Amount 2000.000	Range	15 - 110	Recovery	=	32.97%	
8) Nitrobenzene-d5	2.611	82	63120	570.880	ng/ml	0.00
Spiked Amount 1000.000	Range	30 - 130	Recovery	=	57.09%	
14) 2-Fluorobiphenyl	3.599	172	198587	623.878	ng/ml	0.00
Spiked Amount 1000.000	Range	30 - 130	Recovery	=	62.39%	
22) 2,4,6-Tribromophenol	4.429	330	67664	1624.912	ng/ml	0.00
Spiked Amount 2000.000	Range	15 - 110	Recovery	=	81.25%	
32) 4-Terphenyl-d14	5.748	244	328390	827.503	ng/ml	0.00
Spiked Amount 1000.000	Range	30 - 130	Recovery	=	82.75%	
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	2.189	93	119201	1102.027	ng/ml	99
7) Hexachloroethane	2.591	117	41754	855.880	ng/ml	100
10) Naphthalene	3.011	128	379850	1030.464	ng/ml	99
11) Hexachlorobutadiene	3.083	225	62422	855.243	ng/ml	100
12) 2-Methylnaphthalene	3.394	142	269411	1102.197	ng/ml	100
15) 2-Chloronaphthalene	3.667	162	311355	1135.813	ng/ml	98
17) Acenaphthylene	3.902	152	569673	1250.179	ng/ml	100
19) Acenaphthene	4.001	153	345616	1253.492	ng/ml	98
21) Fluorene	4.292	166	451993	1370.281	ng/ml	99
25) Hexachlorobenzene	4.610	284	159410	1459.206	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250619RVT\
 Data File : 080673-3.D
 Acq On : 19 Jun 2025 02:33 pm
 Operator : sv119:dv
 Sample : WG2080673-3,32,,jjw
 Misc : WG2081054,WG2080673,ical22394
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 18:13:16 2025
 Quant Method : I:\8270sim\sv119\250619RVT\SIM-RVT_250618_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 19 13:39:32 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250619RVT\ccv0619.D
 Sub List : DEFAULT - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26)	Pentachlorophenol	4.720	266	98266	1870.790	ng/ml	100
27)	Phenanthrene	4.840	178	747901	1425.860	ng/ml	100
28)	Anthracene	4.869	178	775728	1515.930	ng/ml	99
29)	Fluoranthene	5.523	202	976735	1530.969	ng/ml	99
30)	Pyrene	5.657	202	991068	1505.556	ng/ml	100
34)	Benzo[a]anthracene	6.405	228	926369	1630.174	ng/ml	100
36)	Chrysene	6.430	228	871898	1639.545	ng/ml	100
39)	Benzo[b]fluoranthene	7.299	252	824866	1723.786	ng/ml	98
40)	Benzo[k]fluoranthene	7.325	252	894312	1769.677	ng/ml	98
41)	Benzo[a]pyrene	7.630	252	738972	1696.914	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.991	276	666993	1463.019	ng/ml	100
43)	Dibenzo[a,h]anthracene	9.029	278	651346M6	1495.307	ng/ml	
44)	Benzo[g,h,i]perylene	9.355	276	749176	1603.176	ng/ml	100

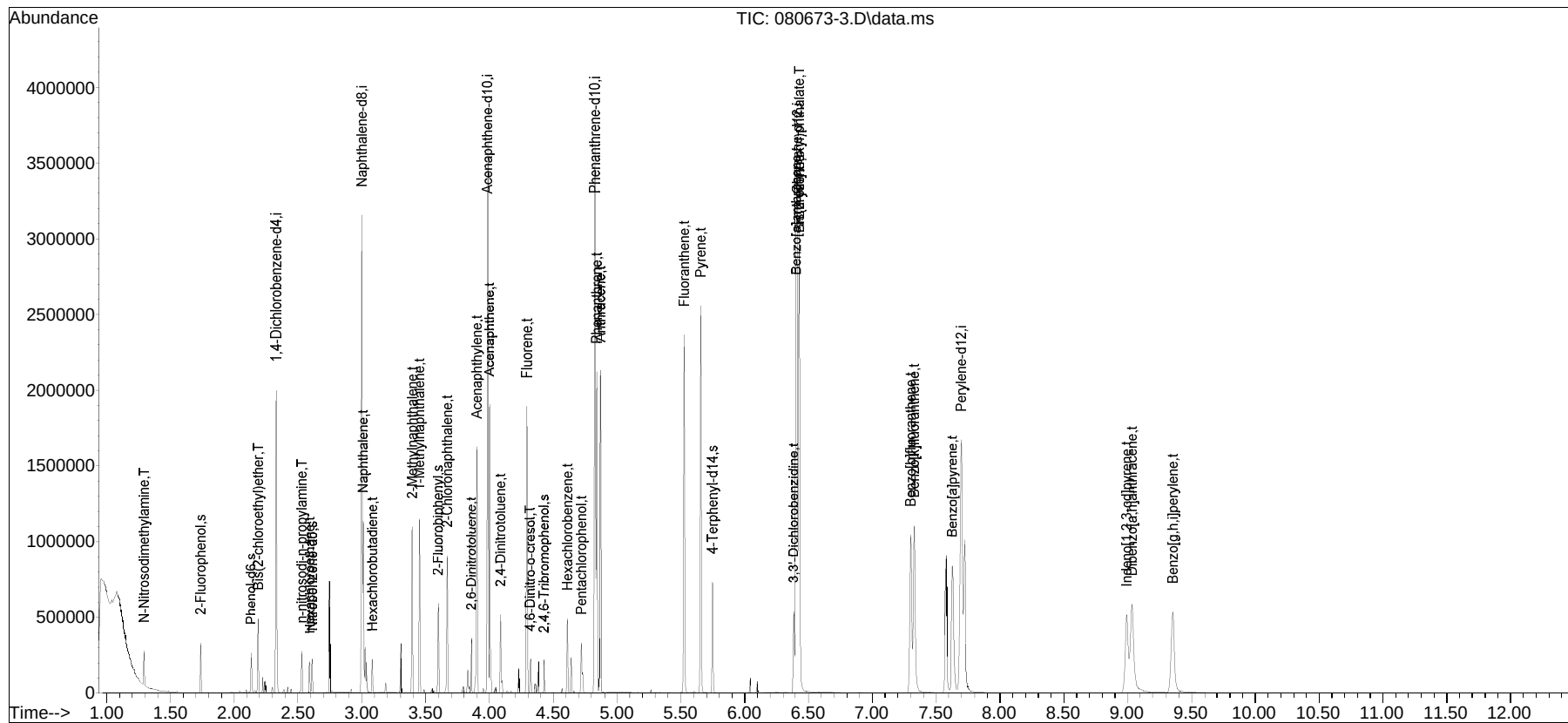
(#) = qualifier out of range (m) = manual integration (+) = signals summed

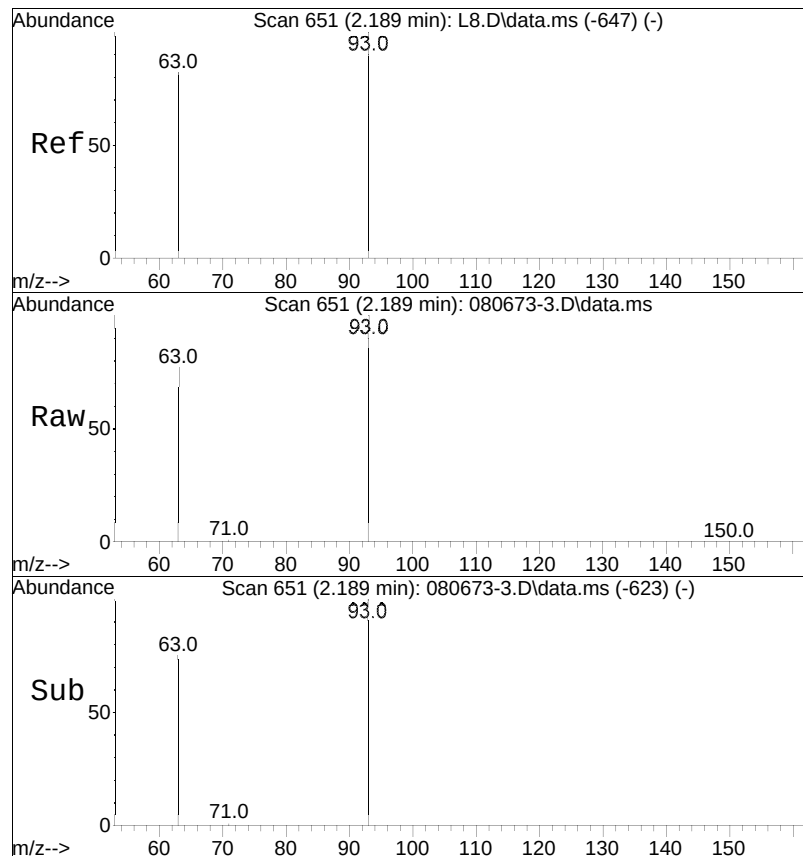
(QT Reviewed)

```
Data Path   : I:\8270SIM\sv119\250619RVT\  
Data File  : 080673-3.D  
Acq On     : 19 Jun 2025   02:33 pm  
Operator   : sv119:dv  
Sample     : WG2080673-3,32,,jjw  
Misc       : WG2081054,WG2080673,ical22394  
ALS Vial   : 3      Sample Multiplier: 1
```

Quant Time: Jun 20 18:13:16 2025
Quant Method : I:\8270sim\sv119\250619RVT\SIM-RVT_250618_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 19 13:39:32 2025
Response via : Initial Calibration

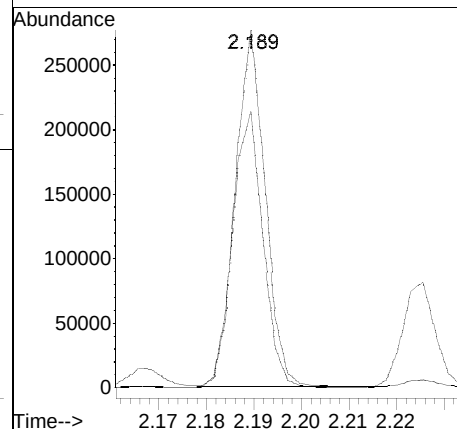
Sub List : DEFAULT - All compounds listed\ccv0619.D•

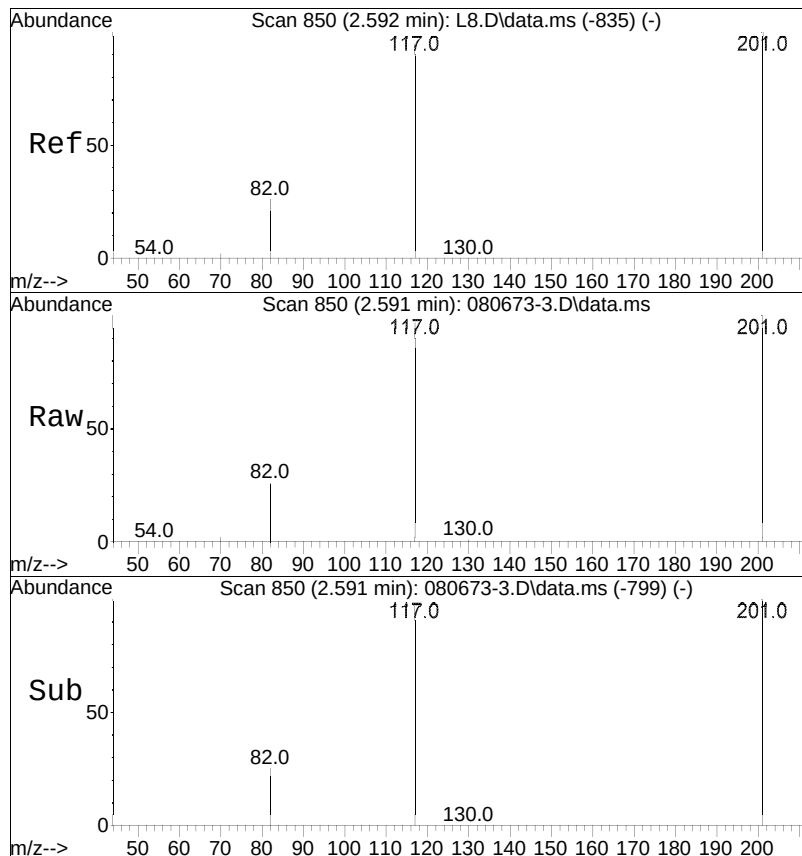




#5
 Bis(2-chloroethyl)ether
 Concen: 1102.03 ng/ml
 RT: 2.189 min Scan# 651
 Delta R.T. -0.008 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

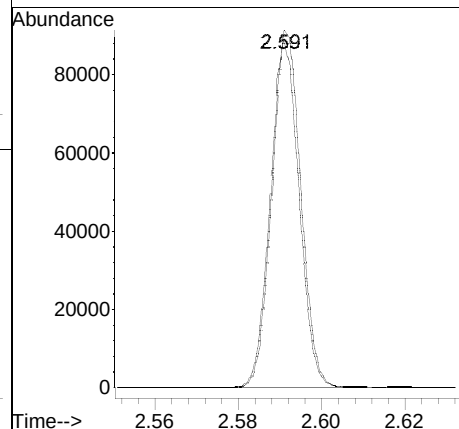
Tgt Ion	Ratio	Lower	Upper
93	100		
63	79.6	62.9	94.3

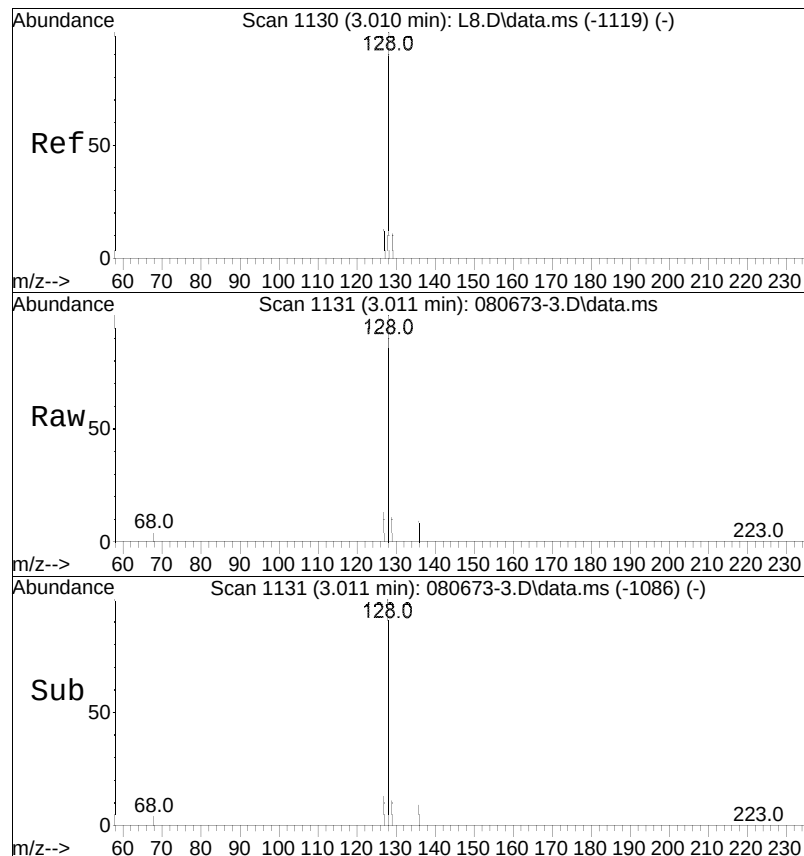




#7
 Hexachloroethane
 Concen: 855.88 ng/ml
 RT: 2.591 min Scan# 850
 Delta R.T. -0.009 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

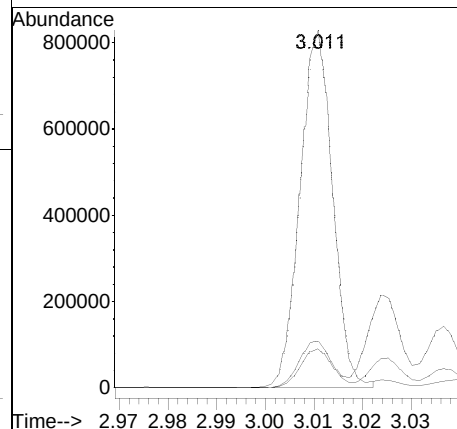
Tgt Ion	Ratio	Lower	Upper
117	100		
201	103.7	82.9	124.3

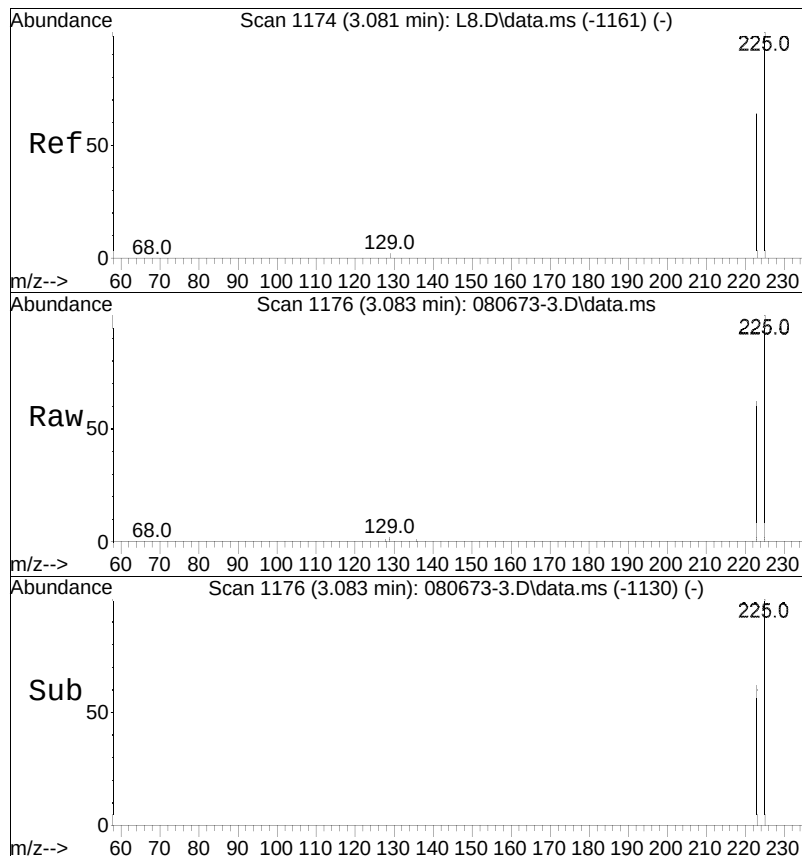




#10
 Naphthalene
 Concen: 1030.46 ng/ml
 RT: 3.011 min Scan# 1131
 Delta R.T. -0.008 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

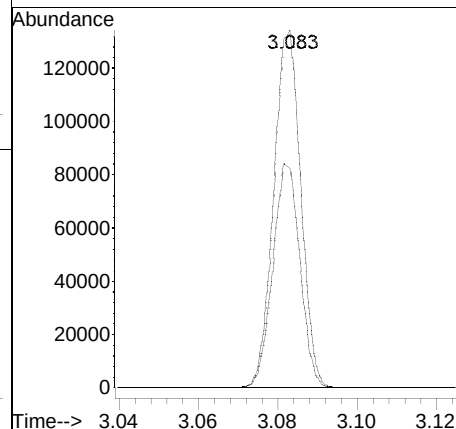
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	379850		
129	11.0		8.8	13.2
127	13.6		10.6	15.8

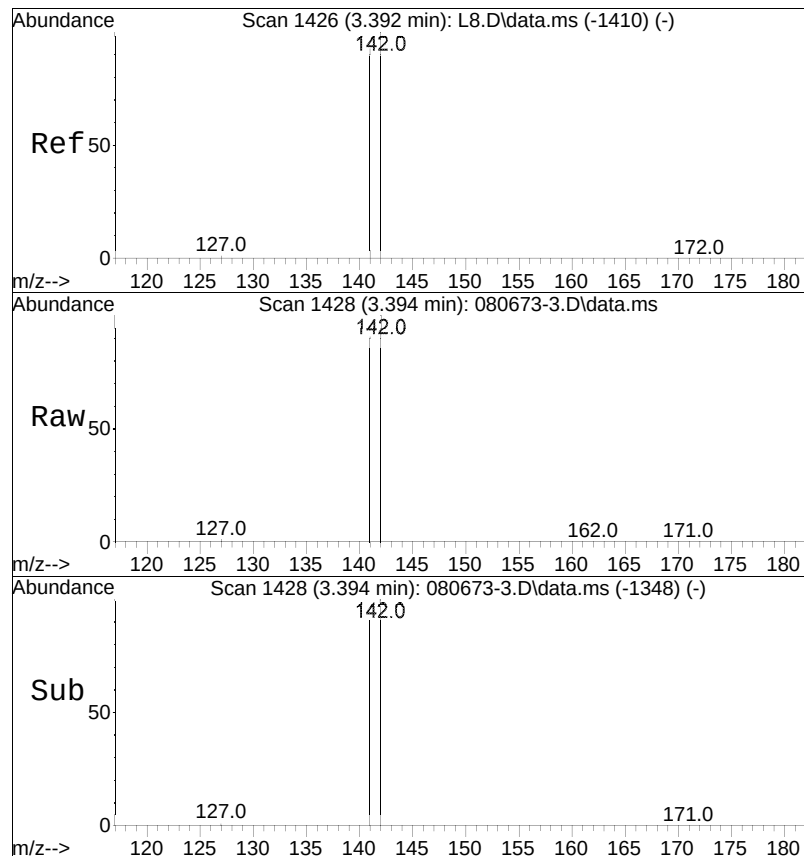




#11
 Hexachlorobutadiene
 Concen: 855.24 ng/ml
 RT: 3.083 min Scan# 1176
 Delta R.T. -0.006 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

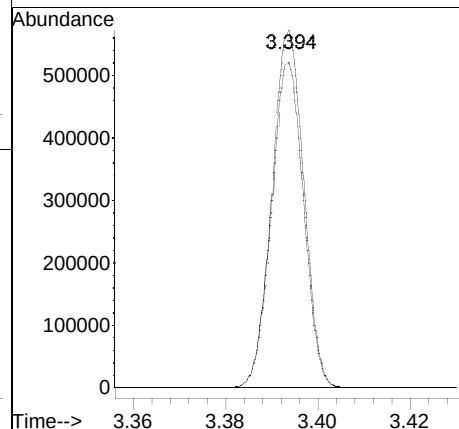
Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.4

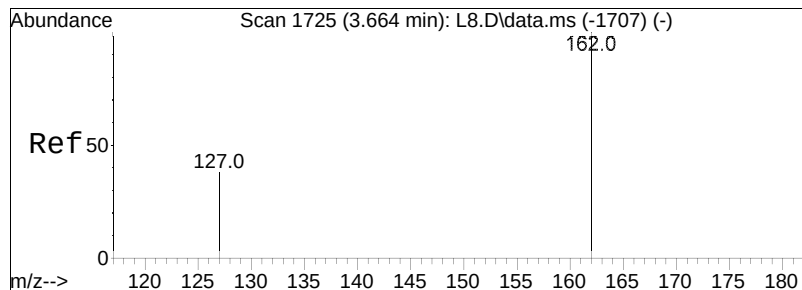




#12
 2-Methylnaphthalene
 Concen: 1102.20 ng/ml
 RT: 3.394 min Scan# 1428
 Delta R.T. -0.007 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

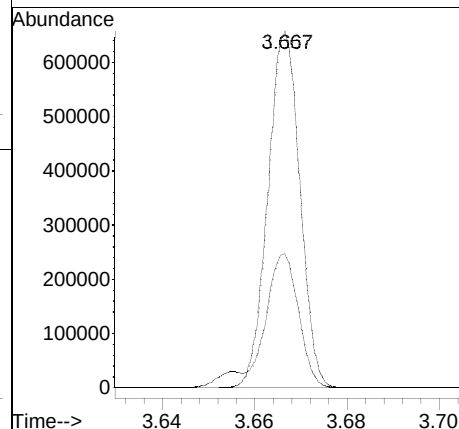
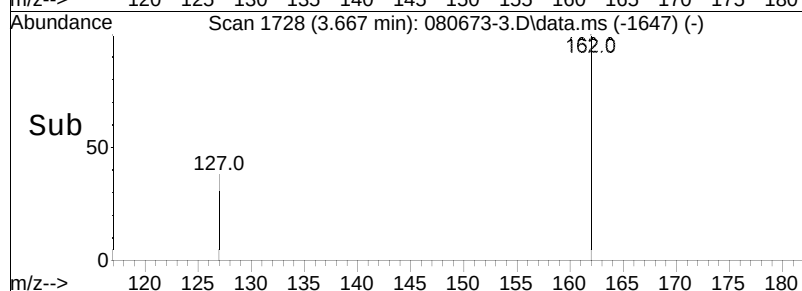
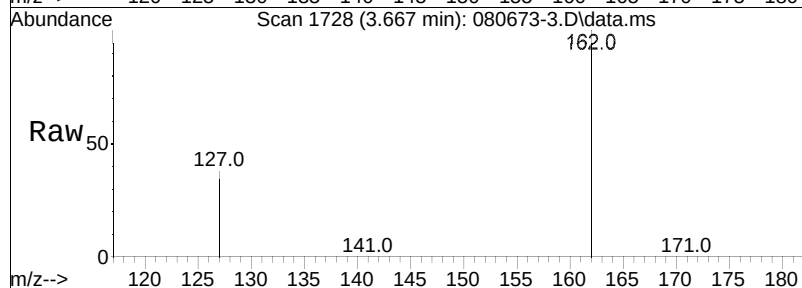
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.6	110.4

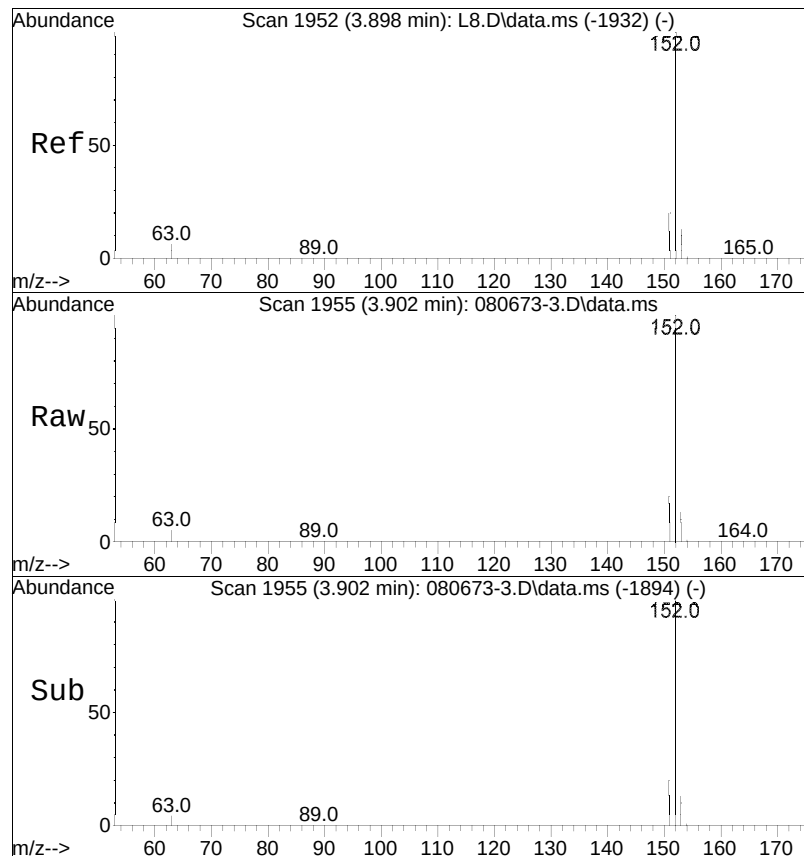




#15
 2-Chloronaphthalene
 Concen: 1135.81 ng/ml
 RT: 3.667 min Scan# 1728
 Delta R.T. -0.006 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

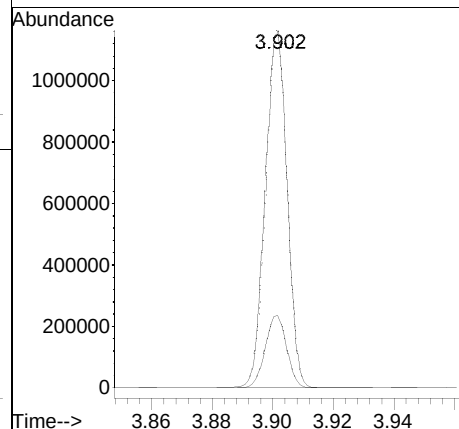
Tgt Ion	Ratio	Lower	Upper
162	100		
127	38.2	29.8	44.8

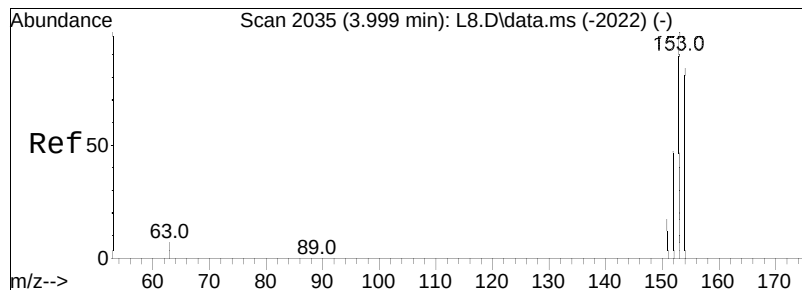




#17
 Acenaphthylene
 Concen: 1250.18 ng/ml
 RT: 3.902 min Scan# 1955
 Delta R.T. -0.006 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

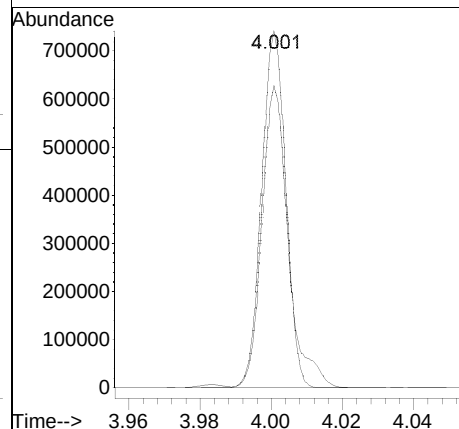
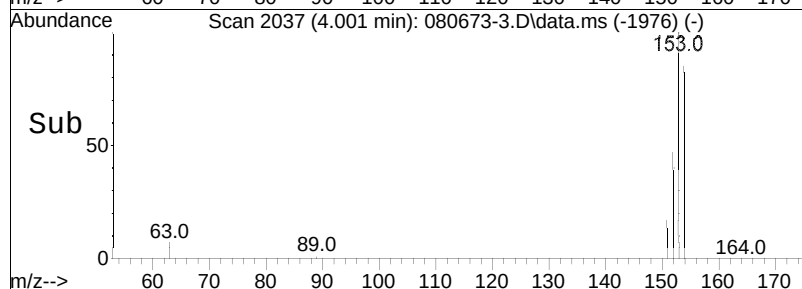
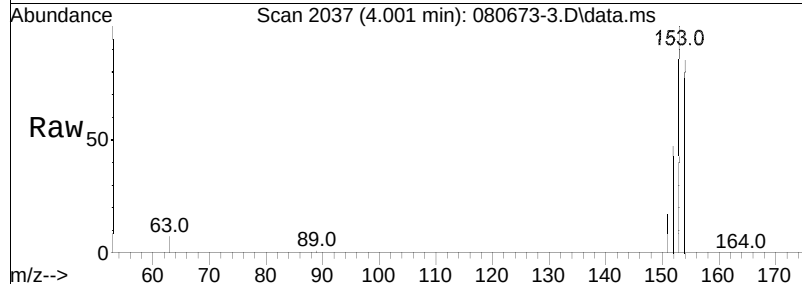
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2

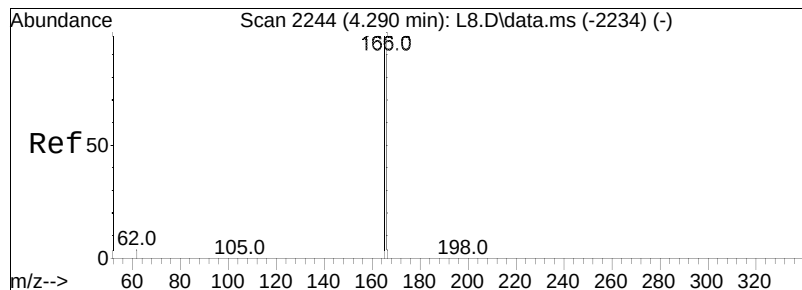




#19
 Acenaphthene
 Concen: 1253.49 ng/ml
 RT: 4.001 min Scan# 2037
 Delta R.T. -0.006 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

Tgt Ion	Ratio	Lower	Upper
153	100		
154	92.2	72.0	108.0





#21

Fluorene

Concen: 1370.28 ng/ml

RT: 4.292 min Scan# 2245

Delta R.T. -0.007 min

Lab File: 080673-3.D

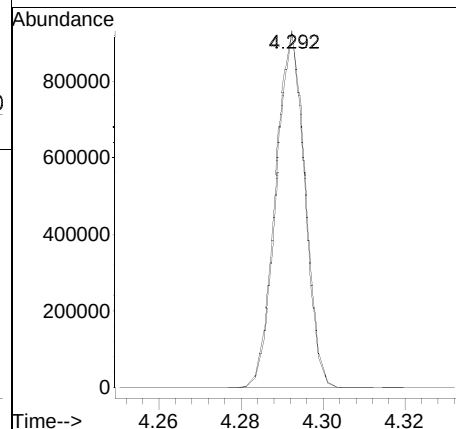
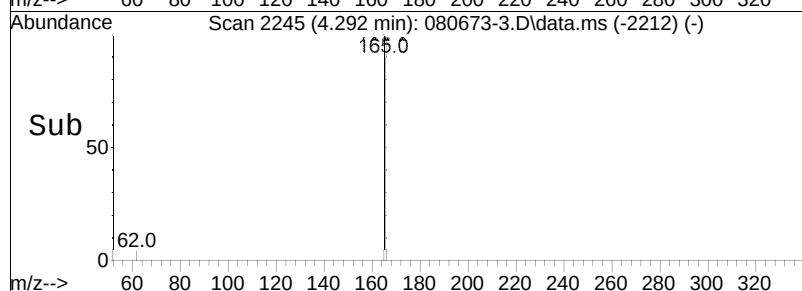
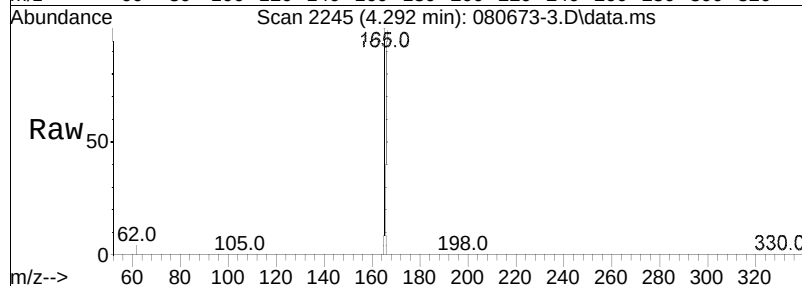
Acq: 19 Jun 2025 02:33 pm

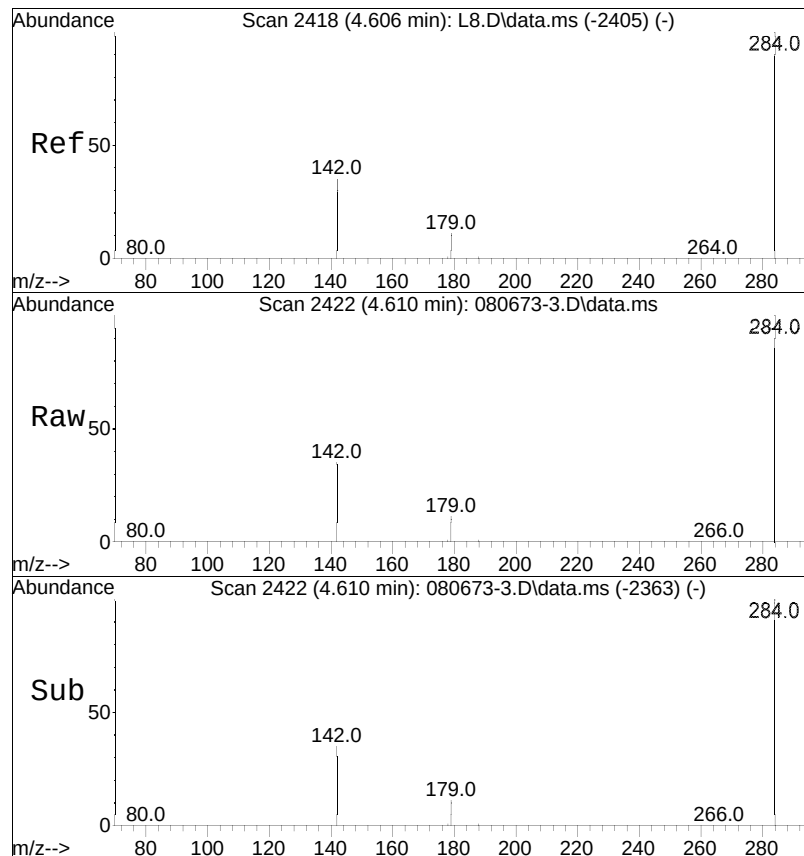
Tgt Ion:166 Resp: 451993

Ion Ratio Lower Upper

166 100

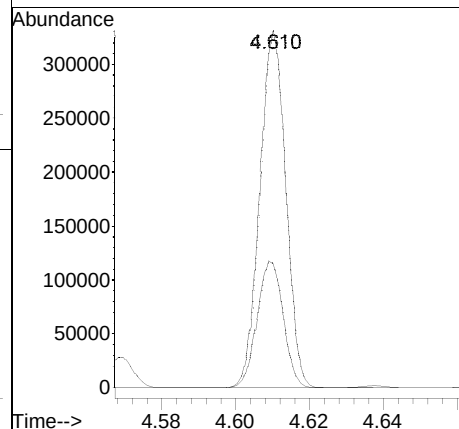
165 101.1 81.5 122.3

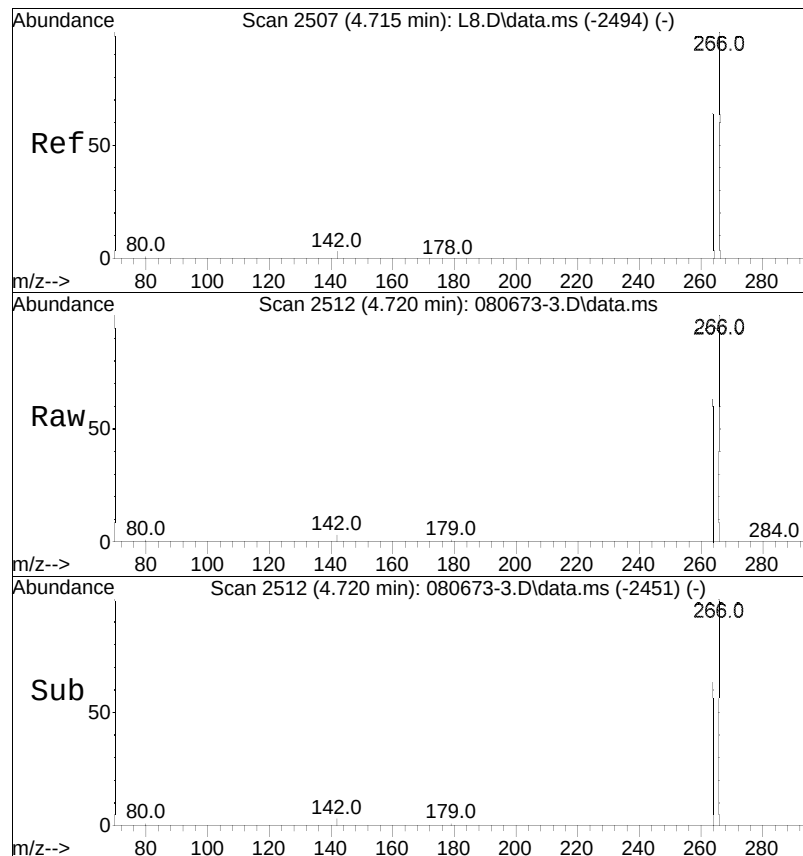




#25
 Hexachlorobenzene
 Concen: 1459.21 ng/ml
 RT: 4.610 min Scan# 2422
 Delta R.T. -0.007 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

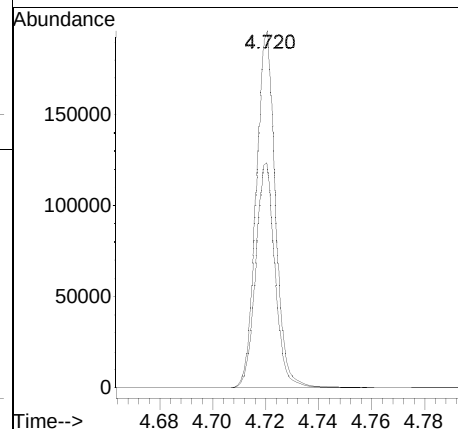
Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.8	28.8	43.2

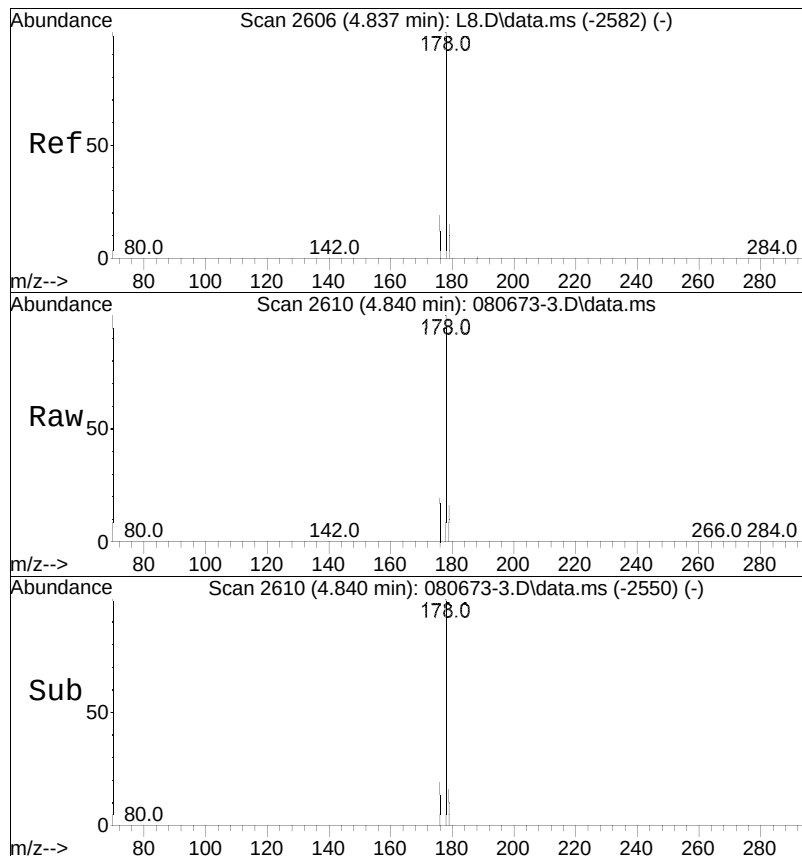




#26
 Pentachlorophenol
 Concen: 1870.79 ng/ml
 RT: 4.720 min Scan# 2512
 Delta R.T. -0.005 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

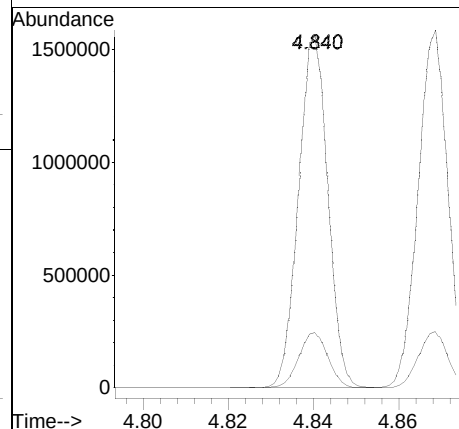
Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.5	50.6	76.0

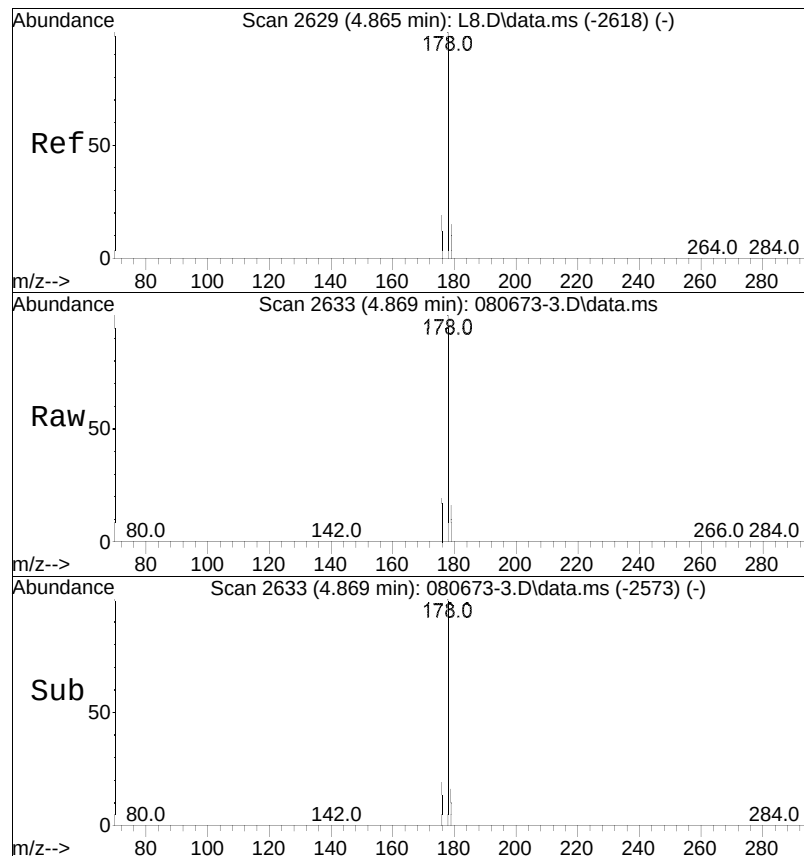




#27
 Phenanthrene
 Concen: 1425.86 ng/ml
 RT: 4.840 min Scan# 2610
 Delta R.T. -0.006 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

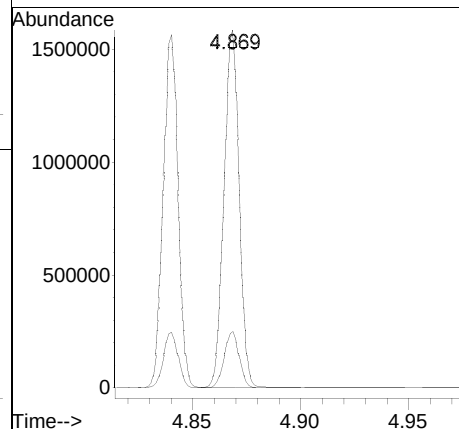
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.4	18.6

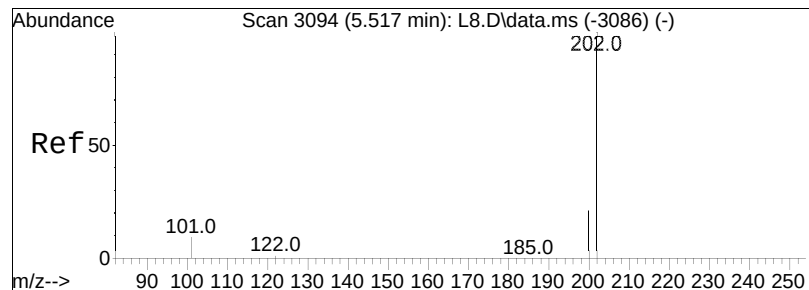




#28
 Anthracene
 Concen: 1515.93 ng/ml
 RT: 4.869 min Scan# 2633
 Delta R.T. -0.006 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

Tgt	Ion	Ratio	Lower	Upper
178	100			
179	15.5	12.2	18.2	





#29

Fluoranthene

Concen: 1530.97 ng/ml

RT: 5.523 min Scan# 3098

Delta R.T. -0.004 min

Lab File: 080673-3.D

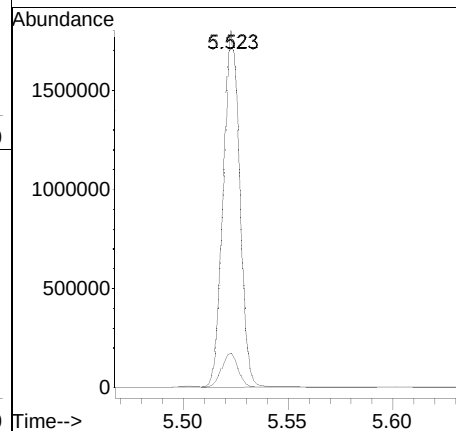
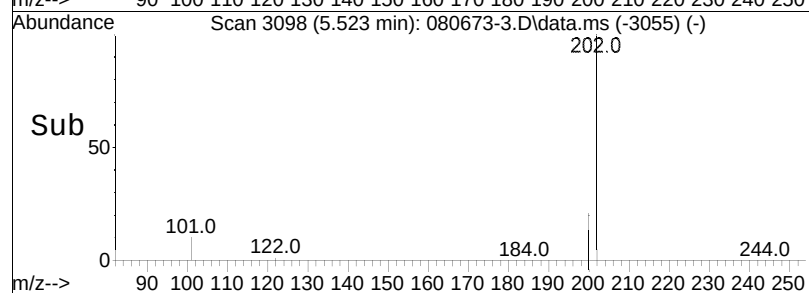
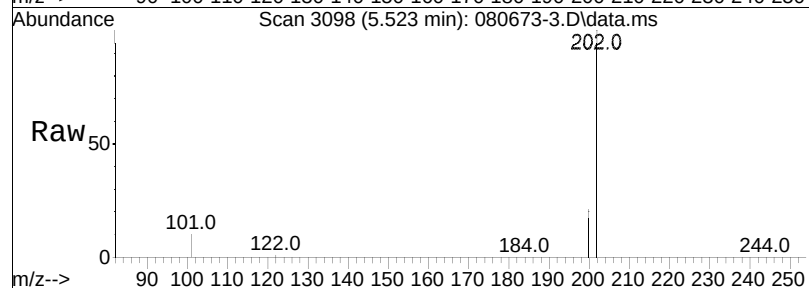
Acq: 19 Jun 2025 02:33 pm

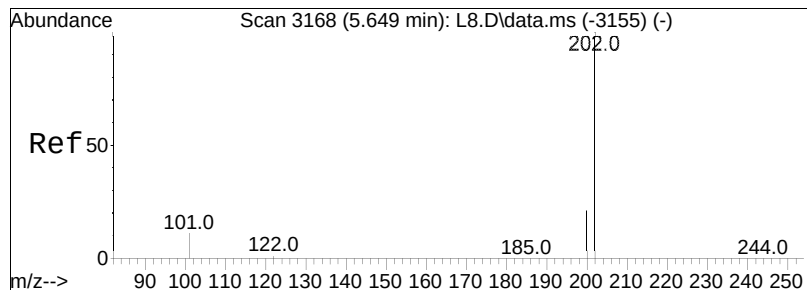
Tgt Ion: 202 Resp: 976735

Ion Ratio Lower Upper

202 100

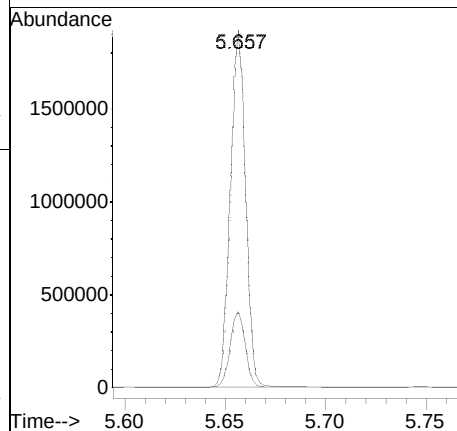
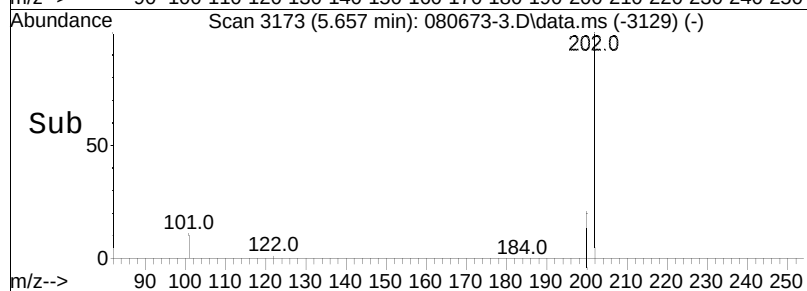
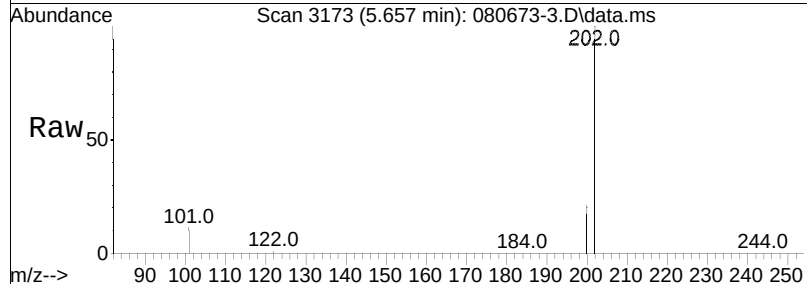
101 9.6 7.5 11.3

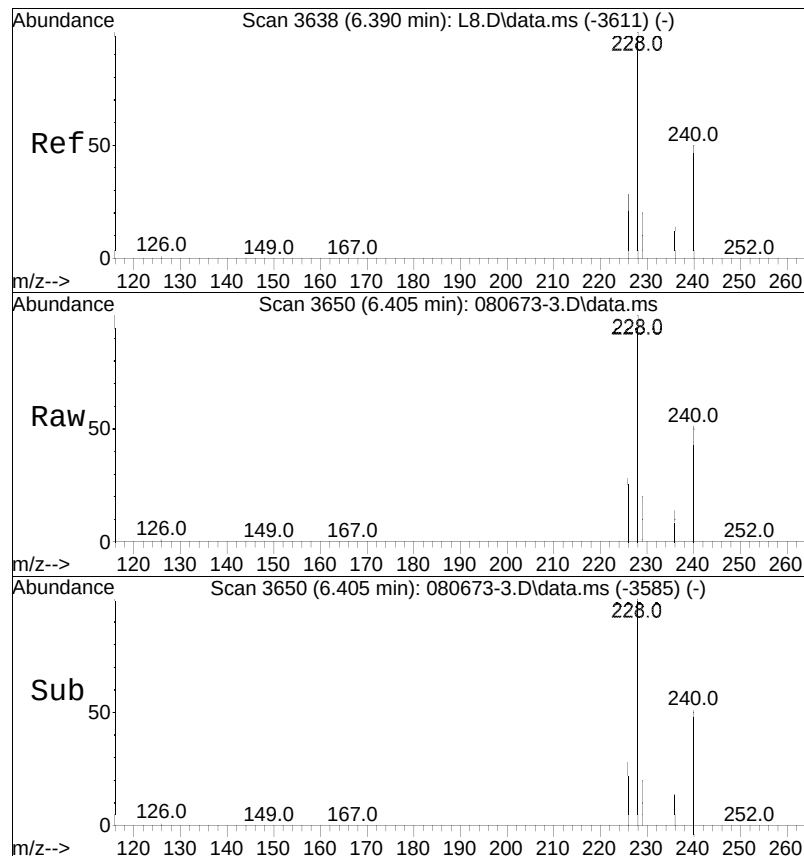




#30
 Pyrene
 Concen: 1505.56 ng/ml
 RT: 5.657 min Scan# 3173
 Delta R.T. -0.002 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

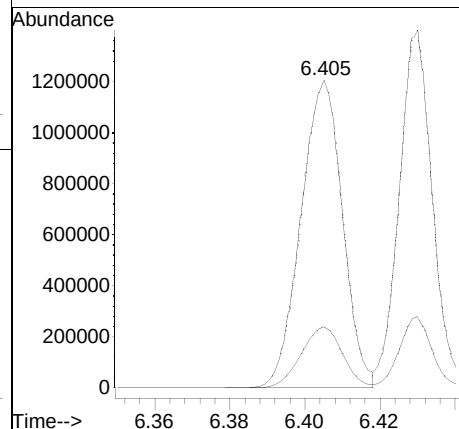
Tgt	Ion	Ratio	Lower	Upper
202	100			
200	21.3	17.0	25.4	

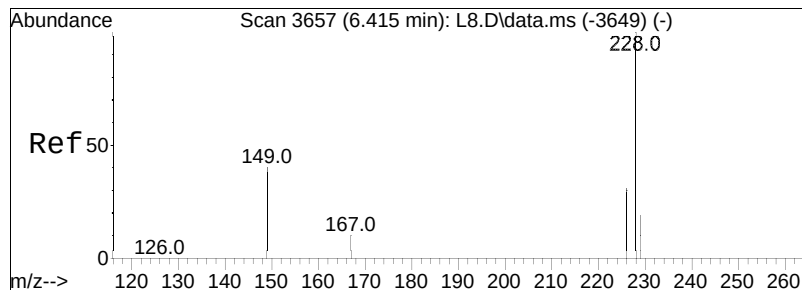




#34
 Benzo[a]anthracene
 Concen: 1630.17 ng/ml
 RT: 6.405 min Scan# 3650
 Delta R.T. 0.005 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

Tgt	Ion	Ratio	Lower	Upper
228	100			
229	19.7	15.8	23.6	





#36

Chrysene

Concen: 1639.54 ng/ml

RT: 6.430 min Scan# 3669

Delta R.T. 0.005 min

Lab File: 080673-3.D

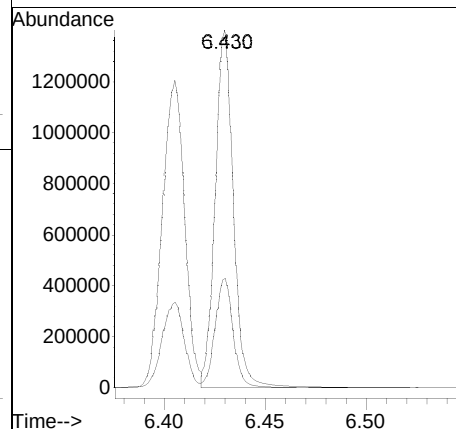
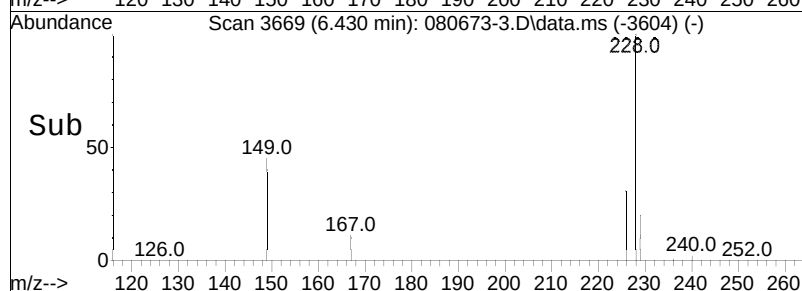
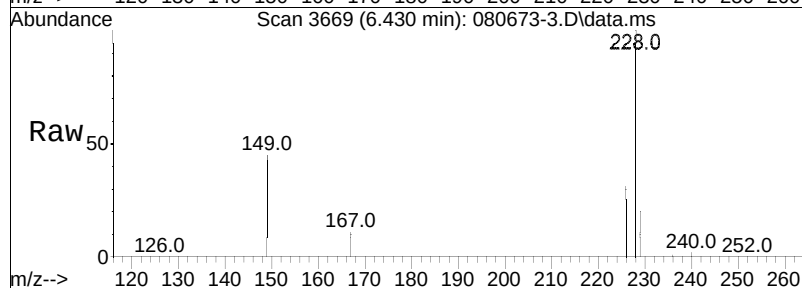
Acq: 19 Jun 2025 02:33 pm

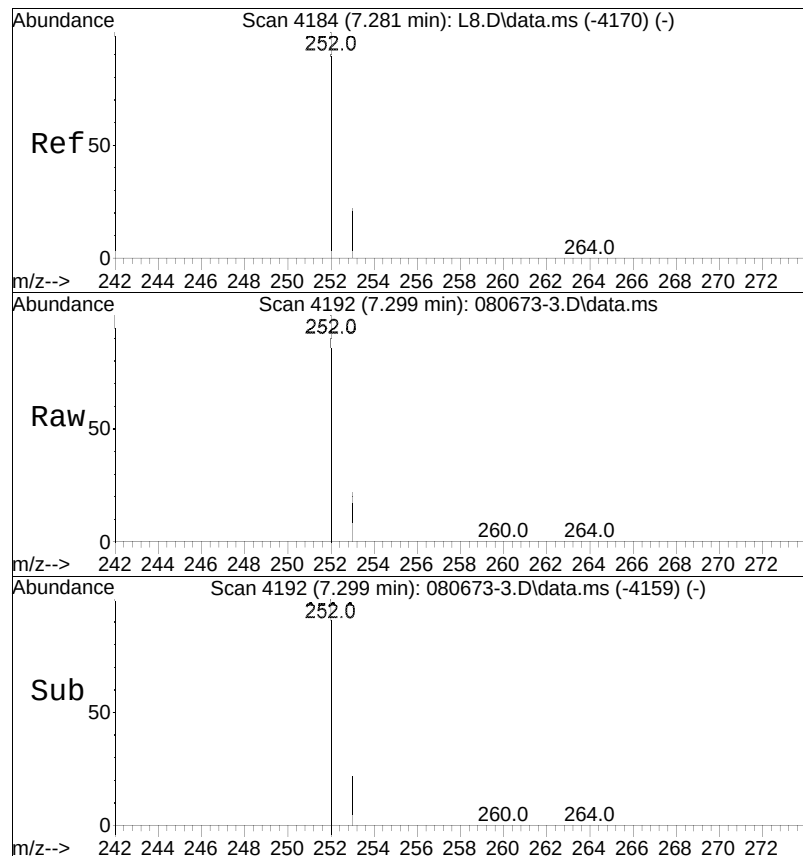
Tgt Ion: 228 Resp: 871898

Ion Ratio Lower Upper

228 100

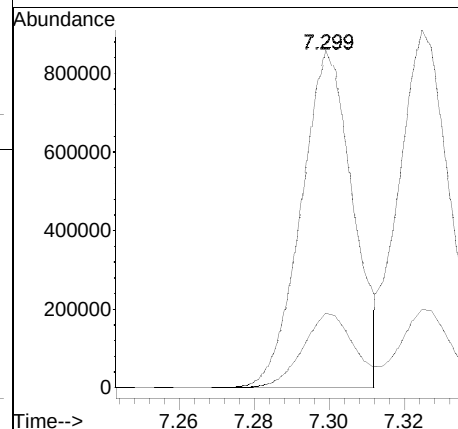
226 30.6 24.6 37.0

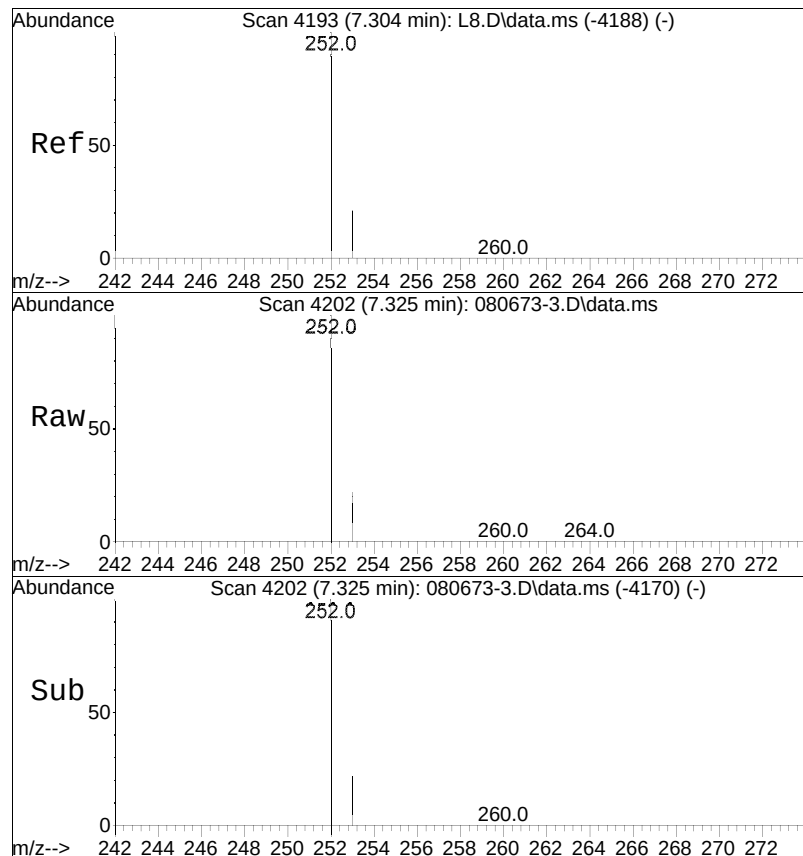




#39
 Benzo[b]fluoranthene
 Concen: 1723.79 ng/ml
 RT: 7.299 min Scan# 4192
 Delta R.T. 0.005 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

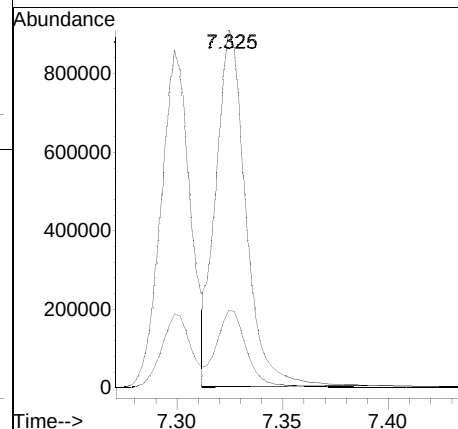
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.8	18.1	27.1	

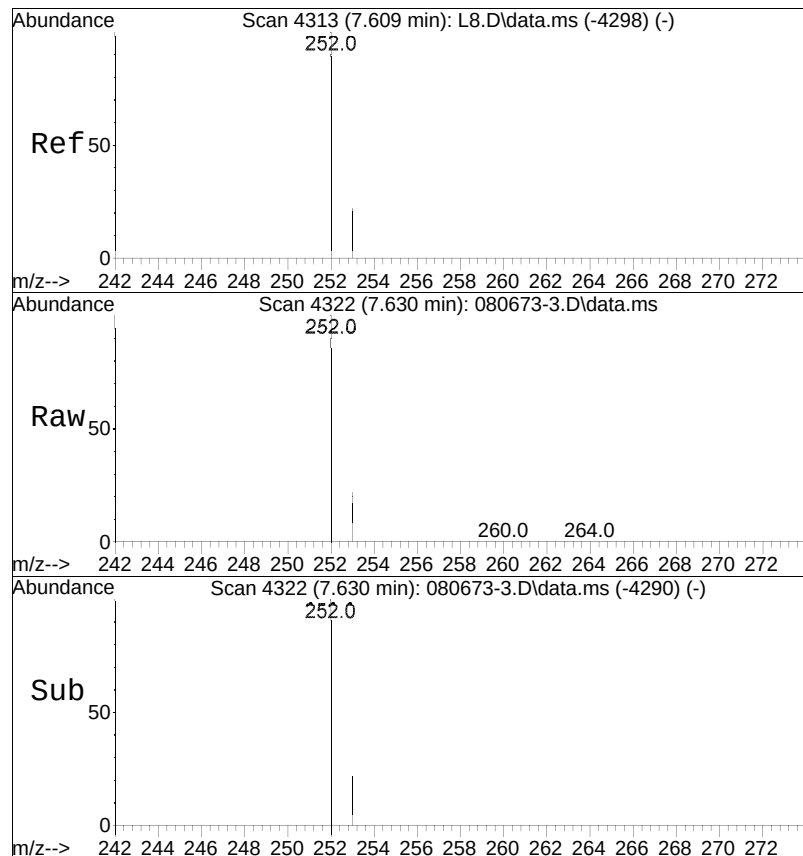




#40
 Benzo[k]fluoranthene
 Concen: 1769.68 ng/ml
 RT: 7.325 min Scan# 4202
 Delta R.T. 0.003 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

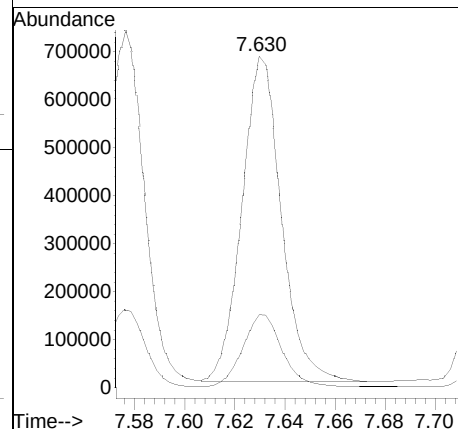
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	22.0	17.0	25.4	

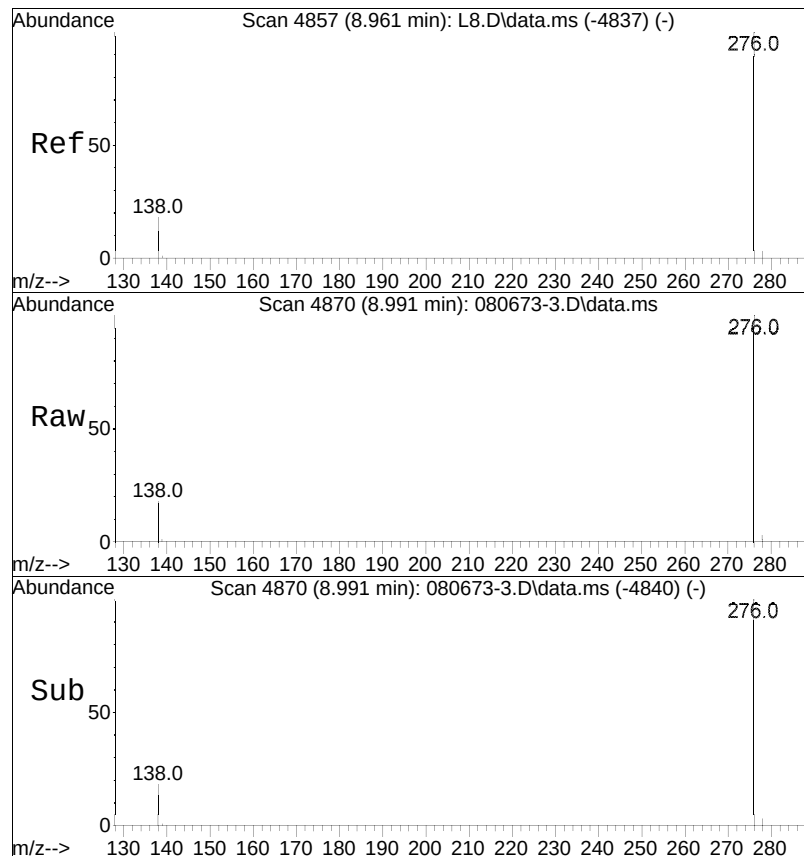




#41
 Benzo[a]pyrene
 Concen: 1696.91 ng/ml
 RT: 7.630 min Scan# 4322
 Delta R.T. 0.003 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

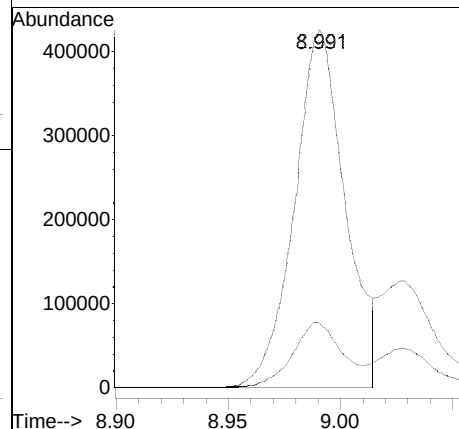
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.9	17.4	26.0	

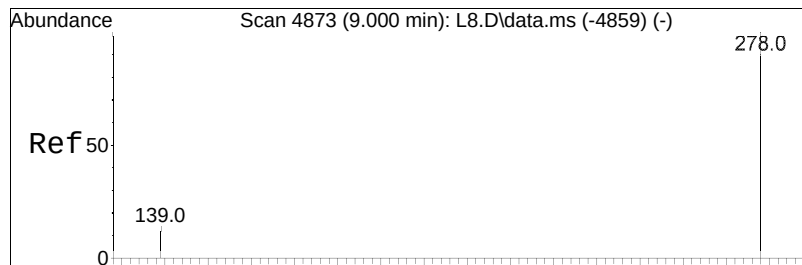




#42
 Indeno[1,2,3-cd]pyrene
 Concen: 1463.02 ng/ml
 RT: 8.991 min Scan# 4870
 Delta R.T. -0.007 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

Tgt	Ion	Ratio	Lower	Upper
276	100			
138	17.8	14.4	21.6	





#43

Dibenzo[a,h]anthracene

Concen: 1495.31 ng/ml M6

RT: 9.029 min Scan# 4886

Delta R.T. -0.007 min

Lab File: 080673-3.D

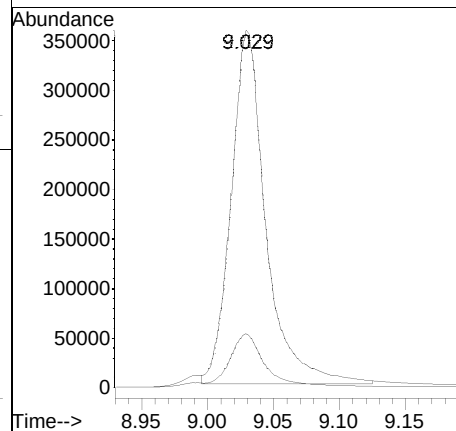
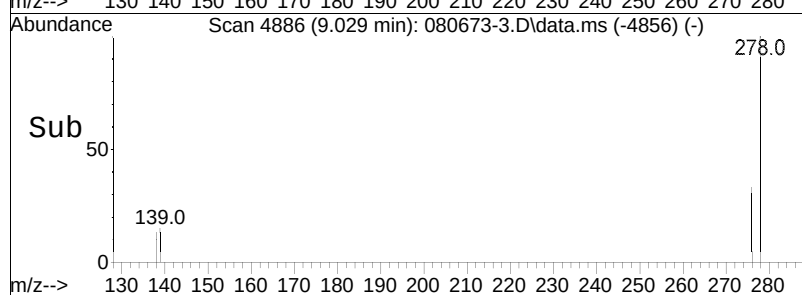
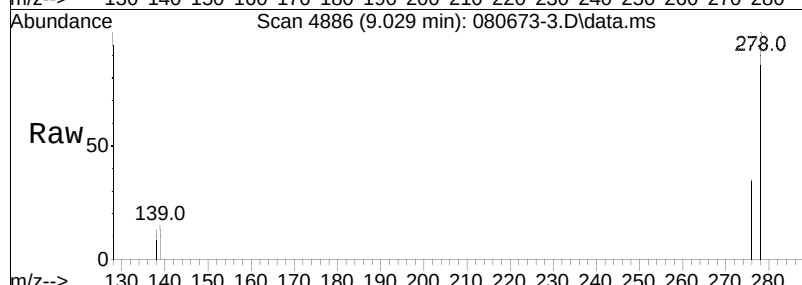
Acq: 19 Jun 2025 02:33 pm

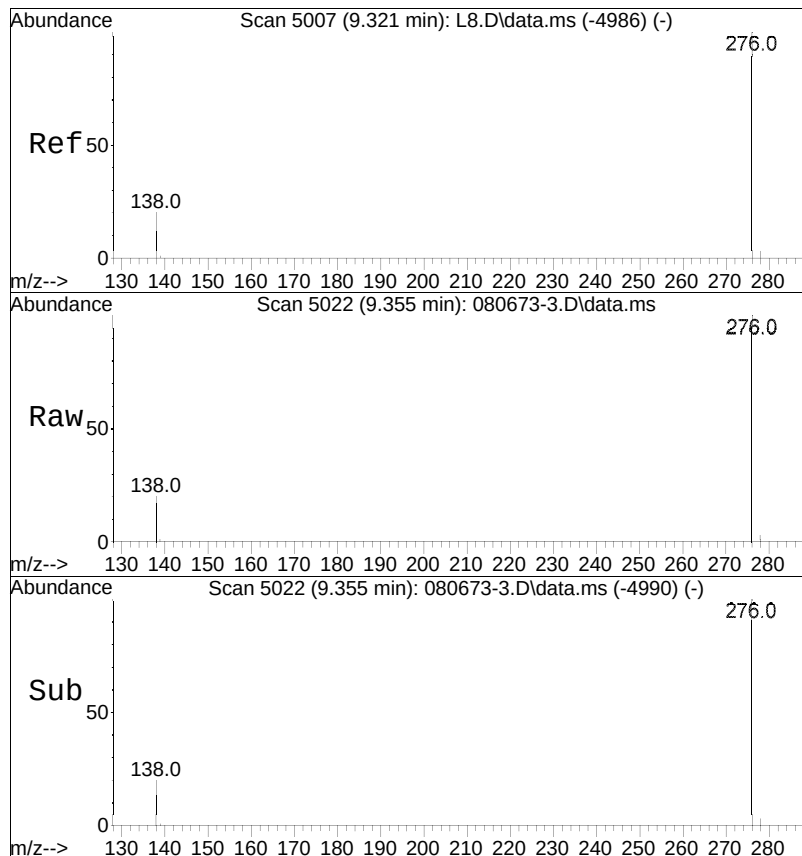
Tgt Ion: 278 Resp: 651346

Ion Ratio Lower Upper

278 100

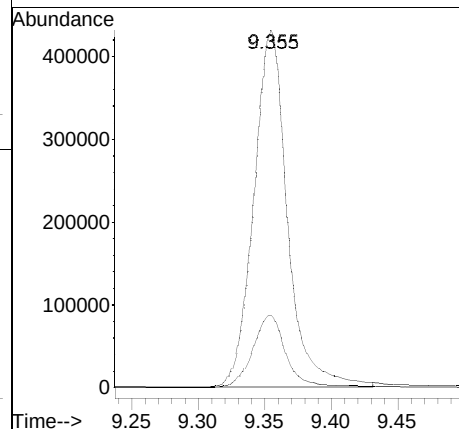
139 14.7 12.1 18.1





#44
 Benzo[g,h,i]perylene
 Concen: 1603.18 ng/ml
 RT: 9.355 min Scan# 5022
 Delta R.T. -0.002 min
 Lab File: 080673-3.D
 Acq: 19 Jun 2025 02:33 pm

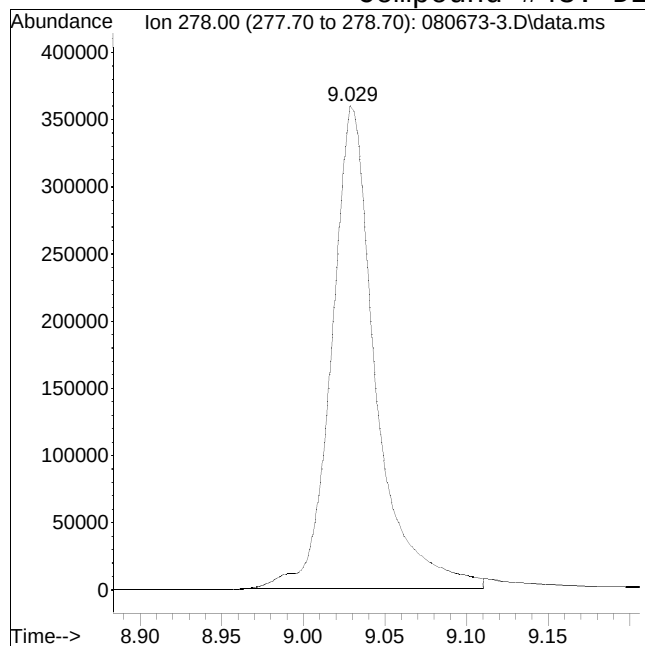
Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.1	16.0	24.0



Manual Integration Report

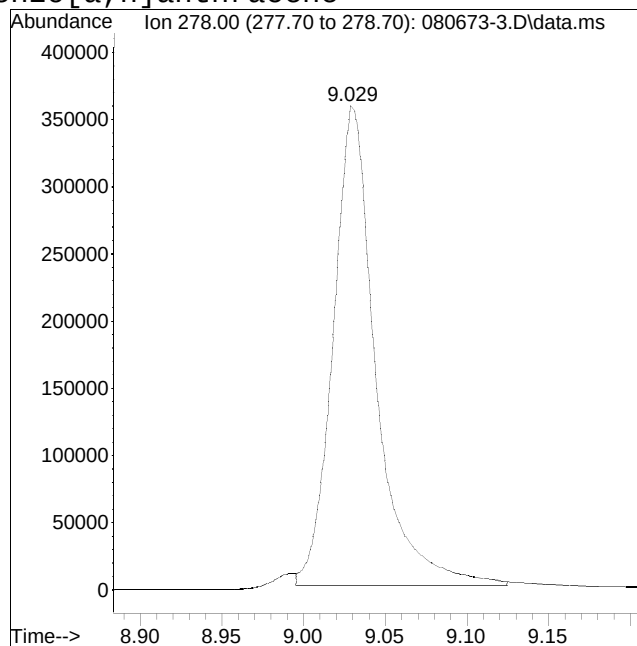
Data Path : I:\8270SIM\sv119\250619RVTQMethod : SIM-RVT_250618_sv119.M
Data File : 080673-3.D Operator : sv119:dv
Date Inj'd : 6/19/2025 2:33 pm Instrument : SV119
Sample : WG2080673-3,32,,jjw Quant Date : 6/19/2025 2:47 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 676137

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



Manual Peak Response = 651346 M6

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: $Amt * DF * 1000 * (1/V_o) * V_f$

Where:

DF = Dilution Factor

V_o = Volume of Sample (mL)

V_f = Extraction Lab Final Volume (mL)

Soil Concentration Formula: $Amt * DF * 1000 * (1/W_t) * V_f * (100/TS)$

Where:

DF = Dilution Factor

W_t = Weight of Sample (g)

V_f = Extraction Lab Final Volume (mL)

TS = Total Solids

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Jun 26 2025, 06:21 am

Work Group: WG2080673 for Department: 2 Organic Preparation

Created: 18-JUN-25 Due: Operator: FMM

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2537087-01	PMW-1	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0623	S0	Amber-A.1
L2537087-02	PMW-2	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0623	S0	Amber-A.1
L2537087-03	PMW-3	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0623	S0	Amber-A.1
L2537087-04	PMW-4	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0623	S0	Amber-A.1
L2537087-05	DUP01_20250612	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0623	S0	Amber-A.1
L2537087-06	FB01_20250612	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0623	S0	Amber-A.1
L2537655-01	MW-11S	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0623	0625	S0	Amber-A.1
L2537655-02	MW-11D	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0623	0625	S0	Amber-A.1
L2537655-03	EQUIPMENT BLANK	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0623	0625	S0	Amber-A.1
L2537655-04	MW-1DRZ	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0623	0625	S0	Amber-A.1
L2537655-05	MW-1SR	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0623	0625	S0	Amber-A.1
L2538013-01	MW-13S	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0624	0625	S0	Amber-A.1
L2538013-02	MW-13D	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0624	0625	S0	Amber-A.1
L2538013-03	DUP_06172025	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0624	0625	S0	Amber-A.1
L2538013-04	MP-1S	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0624	0625	S0	Amber-A.1
L2538013-05	MP-1D	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0624	0625	S0	Amber-A.1
L2538013-06	PZ-6	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0624	0625	S0	Amber-A.1
L2538013-07	MW-6D	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0624	0625	S0	Amber-A.1
WG2080673-1	Laboratory Method Bl	S NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2080673-2	Laboratory Control S	S NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2080673-3	LCS Duplicate	S NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2080673-4	Matrix Spike	S NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2080673-5	Matrix Spike Duplica	S NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2080673-6	Matrix Spike	S NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2080673-7	Matrix Spike Duplica	S NYTCL-8270-SIM-RVT	WATER	DONE	U				
Comments:									
WG2080673-3	WG2080673-2								
WG2080673-4	L2537087-02								
WG2080673-5	L2537087-02								
WG2080673-6	L2538013-01								
WG2080673-7	L2538013-01								

250203

2025

SV118

Dep.: GCMS
Inst: SV118
Date: **02/03/25**
Run:

Method
GC: SIM RVT

Seq: WG2028184
ICAL: 21963



Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
3	L8scan	IL8,32,, #11281 1000 ng/ml				
48	TUNEa	TUNE				
1	L10	IL10,32,, #11278 5000 ng/ml				
2	L9	IL9,32,, #11280 2500 ng/ml				
3	L8	IL8,32,, #11281 1000 ng/ml				
4	L7	IL7,32,, #11282 500 ng/ml				
5	L6	IL6,32,, #11283 100 ng/ml				
6	L5	IL5,32,, #11284 40 ng/ml				
7	L4	IL4,32,, #11285 10 ng/ml				
8	L3	IL3,32,, #11286 5 ng/ml				
9	L2	IL2,32,, #11287 2 ng/ml				
10	L1	IL1,32,, #11288 1 ng/ml				
11	ICV	QCICV,32,, #11275 1000 ng/ml				
12	instblk	instrument blank			RAP	

Analysis log File

Total Files Reported in Log : 13

Log Generated From Directory: I:\8270SIM\sv119\250618RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	TUNE.D	DFTPPRUN.M	TUNE	WG2080956,,ical	6/18/2025 6:07 pm
2	L10.D	SIM-RVT.M	IL10,32,,5 Lot# 11697	WG2080956,,ical	6/18/2025 6:34 pm
3	L9.D	SIM-RVT.M	IL9,32,,2.5 Lot# 11699	WG2080956,,ical	6/18/2025 6:50 pm
4	L8.D	SIM-RVT.M	IL8,32,,1 Lot# 11700	WG2080956,,ical	6/18/2025 7:07 pm
5	L7.D	SIM-RVT.M	IL7,32,,0.5 Lot# 11701	WG2080956,,ical	6/18/2025 7:23 pm
6	L6.D	SIM-RVT.M	IL6,32,,0.1 Lot# 11702	WG2080956,,ical	6/18/2025 7:40 pm
7	L5.D	SIM-RVT.M	IL5,32,,0.04 Lot# 11703	WG2080956,,ical	6/18/2025 7:56 pm
8	L4.D	SIM-RVT.M	IL4,32,,0.01 Lot# 11704	WG2080956,,ical	6/18/2025 8:13 pm
9	L3.D	SIM-RVT.M	IL3,32,,0.005 Lot# 1170	WG2080956,,ical	6/18/2025 8:30 pm
10	L2.D	SIM-RVT.M	IL2,32,,0.002 Lot# 1170	WG2080956,,ical	6/18/2025 8:46 pm
11	L1.D	SIM-RVT.M	IL1,32,,0.001 Lot# 1170	WG2080956,,ical	6/18/2025 9:03 pm
12	ICV.D	SIM-RVT.M	CQICV1,32,,1 Lot# 11696	WG2080956,,ical	6/18/2025 9:19 pm
13	instblk.D	SIM-RVT.M			6/18/2025 9:36 pm

Dep.: GCMS
 Inst: SV119
 Date: 06/19/25
 Run:

Method
 GC: SIM RVT
 Seq: WG2081054
 ICAL: 22394



Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
48	deg0619	wg-1,32,,dftpp SV119 lot# 11649				06/20 DV
49	ccv0619	wg-3,32,,ICV 11696 (0618a)				06/20 DV
50	blank0619	instrument blank				
1	080673-1	WG2080673-1,32,,jjw				06/20 DV
2	080673-2	WG2080673-2,32,,jjw				06/20 DV
3	080673-3	WG2080673-3,32,,jjw				06/20 DV
4	078780-1	WG2078780-1,32,,jjw				06/20 DV
5	078780-2	WG2078780-2,32,,jjw				06/20 DV
6	078780-3	WG2078780-3,32,,jjw				06/20 DV
7	37087-01	L2537087-01,32,,jjw				06/20 DV
8	37087-03	L2537087-03,32,,jjw				06/20 DV
9	37087-04	L2537087-04,32,,jjw				06/20 DV
10	37087-05	L2537087-05,32,,jjw				06/20 DV
11	37087-06	L2537087-06,32,,jjw				06/20 DV
12	37087-02	L2537087-02,32,,jjw				06/20 DV
13	080673-4	WG2080673-4,32,,jjw				06/20 DV
14	080673-5	WG2080673-5,32,,jjw				06/20 DV
15	35896-01	L2535896-01,32,,jjw				06/20 DV
16	35896-02	L2535896-02,32,,jjw				06/20 DV
17	35896-03	L2535896-03,32,,jjw				06/20 DV
18	35896-04	L2535896-04,32,,jjw				06/20 DV
19	35896-05	L2535896-05,32,,jjw				06/20 DV
20	36463-02	L2536463-02,32,,jjw				06/24 JJW
21	36463-04	L2536463-04,32,,jjw				06/24 JJW
22	36468-01	L2536468-01,32,,jjw				06/24 JJW
23	36468-02	L2536468-02,32,,jjw				06/24 JJW
24	36468-03	L2536468-03,32,,jjw				06/24 JJW
25	36468-04	L2536468-04,32,,jjw				06/24 JJW
26	36468-05	L2536468-05,32,,jjw				06/24 JJW
27	36468-06	L2536468-06,32,,jjw	RX - surr low			06/24 JJW
28	36468-07	L2536468-07,32,,jjw				06/24 JJW
29	36468-08	L2536468-08,32,,jjw				06/24 JJW
30	36468-09	L2536468-09,32,,jjw				06/24 JJW
31	36468-10	L2536468-10,32,,jjw				06/24 JJW
32	36468-11	L2536468-11,32,,jjw				06/24 JJW
33	5681-113	L2505681-113,32,,jjw				
34	078780-4	WG2078780-4,32,,jjw				
35	078780-5	WG2078780-5,32,,jjw			JJW	
					Sv-hny	

Dep.: GCMS
 Inst: SV118
 Date: 06/25/25
 Run:

Method
 GC: SIM RVT

Seq: WG2083275
 ICAL: 21963



Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
48	deg0625	wg-1,32,,dftpp SV118 lot #11649				06/25 RAP
49	ccv0625	wg-3,32,,ICV 11275 (0618a)				
49	ccv0625a	wg-3,32,,ICV 11275 (0622a)	PCP low			06/25 RAP
50	blk0625	instrument blank				
1	083031-1	WG2083031-1,32,,jjw				06/25 RAP
2	083031-2	WG2083031-2,32,,jjw				06/25 RAP
3	083031-3	WG2083031-3,32,,jjw				06/25 RAP
4	38558-06	L2538558-06,32,,R1D,jjw				06/25 RAP
5	38558-04	L2538558-04,32,,R1D,jjw				06/25 RAP
6	083161-2	WG2083161-2,32,,RV,jjw				06/25 RAP
7	083161-3	WG2083161-3,32,,RV,jjw				06/25 RAP
8	083161-1	WG2083161-1,32,,RV,jjw				06/25 RAP
9	39470-01	L2539470-01,32,,R3B,RV,jjw				06/25 RAP
10	39470-03	L2539470-03,32,,R3B,RV,jjw				06/25 RAP
11	37781-01	L2537781-01RE,32,,jjw	20X - OC			06/25 RAP
12	37781-02	L2537781-02RE,32,,jjw	20X - OC			06/25 RAP
13	37641-01	L2537641-01RE,32,,jjw	20X - OC			06/25 RAP
14	37655-01	L2537655-01,32,,jjw				06/25 RAP
15	37655-02	L2537655-02,32,,jjw				06/25 RAP
16	081696-2	WG2081696-2,32,,jjw				06/25 RAP
17	081696-3	WG2081696-3,32,,jjw				06/25 RAP
18	081696-1	WG2081696-1,32,,jjw				06/25 RAP
19	37604-02	L2537604-02,32,,jjw				06/25 RAP
20	37604-03	L2537604-03,32,,jjw				06/25 RAP
21	082075-2	WG2082075-2,32,,jjw				06/25 RAP
22	082075-3	WG2082075-3,32,,jjw				06/25 RAP
23	082075-1	WG2082075-1,32,,jjw				06/25 RAP
24	37604-01	L2537604-01,32,,jjw				SV-RAP6/25 RAP
25	37604-04	L2537604-04,32,,jjw				06/25 RAP
26	37655-03	L2537655-03,32,,jjw				06/25 RAP
27	37655-04	L2537655-04,32,,jjw				06/25 RAP
28	37655-05	L2537655-05,32,,jjw				06/25 RAP
29	38013-02	L2538013-02,32,,jjw				06/25 DV
30	38013-03	L2538013-03,32,,jjw				06/25 DV
31	38013-04	L2538013-04,32,,jjw				06/25 DV
32	38013-05	L2538013-05,32,,jjw				06/25 DV
33	38013-06	L2538013-06,32,,jjw				06/25 DV
34	38013-07	L2538013-07,32,,jjw			JJW	06/25 DV
					Sv-csn	



ORGANIC ELN REPORT

Workgroup: WG2080673

Prep Method: EPA 3510C Solvent Type: DCM Surrogate Type: ABN Spike Type: ABN-SIM Spike Verify by: FMM Lims Spikelot: 8270-RVT Additional Reagents/Std <table><tr><td>H2SO4</td><td>A052325</td></tr><tr><td>Na2SO4</td><td>244434</td></tr><tr><td>NaOH</td><td>10NNaOH061425</td></tr></table>	H2SO4	A052325	Na2SO4	244434	NaOH	10NNaOH061425	Conc.Method: Buchi Solvent Type: DCM Lot #: ek096 Additional Reagents/Std	Cleanup 1 Cleanup Method 1: Cleanup Method 2: Solvent Type: Lot #: Additional Reagents/Std
H2SO4	A052325							
Na2SO4	244434							
NaOH	10NNaOH061425							

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
L2537087-01 WATER	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1		06/19/25 01:29	Samy Dakkash	1	G
L2537087-02 WATER	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1		06/19/25 01:29	Samy Dakkash	1	G
L2537087-03 WATER	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1		06/19/25 01:29	Samy Dakkash	1	G
L2537087-04 WATER	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1		06/19/25 01:29	Samy Dakkash	1	G
L2537087-05 WATER	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1		06/19/25 01:29	Samy Dakkash	1	G



ORGANIC ELN REPORT

Workgroup: WG2080673

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
L2537087-06 WATER	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1		06/19/25 01:29	Samy Dakkash	1	G
L2537655-01 WATER	06/19/25 00:27	Henry Otoo	100	<2,>12	.1		06/19/25 03:36	Samy Dakkash	1	K
L2537655-02 WATER	06/19/25 00:27	Henry Otoo	100	<2,>12	.1		06/19/25 03:36	Samy Dakkash	1	K
L2537655-03 WATER	06/19/25 00:27	Henry Otoo	100	<2,>12	.1		06/19/25 03:36	Samy Dakkash	1	K
L2537655-04 WATER	06/19/25 00:27	Henry Otoo	100	<2,>12	.1		06/19/25 03:36	Samy Dakkash	1	K
L2537655-05 WATER	06/19/25 00:27	Henry Otoo	100	<2,>12	.1		06/19/25 03:36	Samy Dakkash	1	K
L2538013-01 SAMP	06/19/25 00:27	Henry Otoo	100	<2,>12	.1		06/19/25 03:36	Samy Dakkash	1	K
L2538013-02 SAMP	06/19/25 00:27	Henry Otoo	100	<2,>12	.1		06/19/25 03:36	Samy Dakkash	1	K
L2538013-03 SAMP	06/19/25 00:27	Henry Otoo	100	<2,>12	.1		06/19/25 03:36	Samy Dakkash	1	K



ORGANIC ELN REPORT

Workgroup: WG2080673

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
L2538013-04 SAMP	06/19/25 00:27	Henry Otoo	100	<2,>12	.1		06/19/25 03:36	Samy Dakkash	1	K
L2538013-05 SAMP	06/19/25 00:27	Henry Otoo	100	<2,>12	.1		06/19/25 03:36	Samy Dakkash	1	K
L2538013-06 SAMP	06/19/25 00:27	Henry Otoo	100	<2,>12	.1		06/19/25 03:36	Samy Dakkash	1	K
L2538013-07 SAMP	06/19/25 00:27	Henry Otoo	100	<2,>12	.1		06/19/25 03:36	Samy Dakkash	1	K
WG2080673-1 BLANK	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1		06/19/25 01:29	Samy Dakkash	1	G
WG2080671							ma			
WG2080673-2 LCS	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1	.1	06/19/25 01:29	Samy Dakkash	1	G
WG2080673-3 LCSD	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1	.1	06/19/25 01:29	Samy Dakkash	1	G
WG2080673-4 MS	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1	.1	06/19/25 01:29	Samy Dakkash	1	G
WG2080673-5 MSD	06/18/25 21:34	Francis Mbro- Menyah	100	<2,>12	.1	.1	06/19/25 01:29	Samy Dakkash	1	G



ORGANIC ELN REPORT

Workgroup: WG2080673

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
WG2080673 -6 MS	06/19/25 00:27	Henry Otoo	100	<2,>12	.1	.1	06/19/25 03:36	Samy Dakkash	1	K
WG2080673 -7 MSD	06/19/25 00:27	Henry Otoo	100	<2,>12	.1	.1	06/19/25 03:36	Samy Dakkash	1	K

Metals

Inorganic Data (ICP Analysis)

Form 1 METALS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2082423-1
 Client ID : WG2082423-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 19,200.7
 Lab File ID : WG2082583.pdf
 Sample Amount : 50ml
 Digestion Method : EPA 3005A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/24/25 09:35
 Dilution Factor : 1
 Analyst : EFM
 Instrument ID : TRACE8
 %Solids : N/A
 Date Digested : 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
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	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	0.293	0.100	0.0350	
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	0.0838	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	0.0618	0.100	0.0153	J
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	0.473	2.00	0.120	J
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	0.0041	0.0050	0.0021	J



Form 1

METALS

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082423-4
Client ID : WG2082423-4 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 19,200.7
Lab File ID : WG2082583.pdf
Sample Amount : 50ml
Digestion Method : EPA 3005A

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : 06/19/25 08:15
Date Received : 06/20/25
Date Analyzed : 06/24/25 09:52
Dilution Factor : 1
Analyst : EFM
Instrument ID : TRACE8
%Solids : N/A
Date Digested : 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7440-38-2	Arsenic, Total	0.0022	0.0050	0.002	J
7439-92-1	Lead, Total	0.0146	0.0100	0.003	



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 17:09
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2083640.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
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	0.0377	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	45.5	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	0.0028	0.0100	0.0022	J
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	9.86	0.100	0.0153	
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	1.35	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	4.72	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	0.0056	0.0050	0.0021	



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 17:15
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2083640.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Dissolved	2.37	0.100	0.0318	
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	0.0066	0.0050	0.0019	
7440-39-3	Barium, Dissolved	0.0572	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	0.0098	0.0100	0.0021	J
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0057	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	42.2	0.0500	0.0090	
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	6.49	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0858	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.39	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	8.32	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	0.0061	0.0100	0.0020	J
7440-66-6	Zinc, Dissolved	0.106	0.0050	0.0021	



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 17:02
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2083640.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
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	0.0144	0.0500	0.0090	J
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	0.0147	0.0050	0.0021	



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 19:38
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2083640.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
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	0.0250	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	10.8	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	0.0024	0.0200	0.0017	J
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	2.49	0.0500	0.0090	
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.02	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0424	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.15	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	9.53	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	0.0058	0.0050	0.0021	



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 19:46
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2083640.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
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	0.0212	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	16.5	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	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	4.43	0.100	0.0153	
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	1.87	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	5.02	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
 Project Name : CORAM MATERIALS
 Lab ID : WG2081457-1
 Client ID : WG2081457-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 19,200.7
 Lab File ID : WG2083640.pdf
 Sample Amount : 50ml
 Digestion Method : EPA 3005A

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/26/25 16:49
 Dilution Factor : 1
 Analyst : DMC
 Instrument ID : TRACE6
 %Solids : N/A
 Date Digested : 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
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
Project Name : CORAM MATERIALS
Lab ID : WG2081457-4
Client ID : WG2081457-4 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 19,200.7
Lab File ID : WG2083640.pdf
Sample Amount : 50ml
Digestion Method : EPA 3005A

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : 06/06/25 10:00
Date Received : 06/06/25
Date Analyzed : 06/26/25 17:37
Dilution Factor : 1
Analyst : DMC
Instrument ID : TRACE6
%Solids : N/A
Date Digested : 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7440-50-8	Copper, Dissolved	0.0190	0.0100	0.002	
7440-22-4	Silver, Dissolved	ND	0.0070	0.003	U



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 18:59
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2083640.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
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	0.0398	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	47.3	0.100	0.0350	
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	0.0033	0.0100	0.0022	J
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	10.6	0.100	0.0153	
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	1.39	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	4.79	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	0.0058	0.0050	0.0021	



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 19:05
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2083640.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	2.64	0.100	0.0318	
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	0.0072	0.0050	0.0019	
7440-39-3	Barium, Total	0.0627	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	17.4	0.100	0.0350	
7440-47-3	Chromium, Total	0.0104	0.0100	0.0021	
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	0.0053	0.0100	0.0022	J
7439-89-6	Iron, Total	53.6	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	6.95	0.100	0.0153	
7439-96-5	Manganese, Total	0.0942	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.42	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	8.36	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	0.0072	0.0100	0.0020	J
7440-66-6	Zinc, Total	0.0126	0.0050	0.0021	



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 19:12
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2083640.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
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	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	0.0025	0.0050	0.0021	J



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 19:19
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2083640.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
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	0.0268	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	11.7	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	0.0025	0.0200	0.0017	J
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	2.76	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.35	0.100	0.0153	
7439-96-5	Manganese, Total	0.0444	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.18	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	9.87	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	0.0070	0.0050	0.0021	



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 19:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2083640.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
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	0.0210	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	18.6	0.100	0.0350	
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	4.92	0.100	0.0153	
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	2.08	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	5.64	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	ND	0.0050	0.0021	U



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE8

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum	0.500	0.4800	96							
Antimony	0.500	0.5230	105							
Arsenic	0.500	0.4840	97							
Barium	0.500	0.5000	100							
Beryllium	0.500	0.5130	103							
Cadmium	0.500	0.5250	105							
Calcium	0.500	0.5020	100							
Chromium	0.500	0.5180	104							
Cobalt	0.500	0.5180	104							
Copper	0.500	0.5160	103							
Iron	0.500	0.5060	101							
Lead	0.500	0.5070	101							
Magnesium	0.500	0.5100	102							
Manganese	0.500	0.5110	102							
Nickel	0.500	0.5220	104							
Potassium	5.00	5.1500	103							
Selenium	0.500	0.4940	99							
Silver	0.500	0.5170	103							
Sodium	10.0	10.2000	102							
Thallium	0.500	0.5070	101							
Vanadium	0.500	0.5210	104							
Zinc	0.500	0.5180	104							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE8

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID	Initial Calibration			Continuing Calibration(s)						
	Date Analyzed:	R1980618-3			R1980618-6			R1980618-8			
		True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum		0.500	0.4800	96	0.5000	0.474	95	0.486	97		
Antimony		0.500	0.4960	99	0.5000	0.485	97	0.536	107		
Arsenic		0.500	0.4670	93	0.5000	0.458	92	0.491	98		
Barium		0.500	0.5050	101	0.5000	0.501	100	0.515	103		
Beryllium		0.500	0.5120	102	0.5000	0.506	101	0.515	103		
Cadmium		0.500	0.4980	100	0.5000	0.482	96	0.514	103		
Calcium		0.500	0.5000	100	0.5000	0.498	100	0.502	100		
Chromium		0.500	0.5020	100	0.5000	0.503	101	0.520	104		
Cobalt		0.500	0.5010	100	0.5000	0.494	99	0.519	104		
Copper		0.500	0.5040	101	0.5000	0.504	101	0.523	105		
Iron		0.500	0.5060	101	0.5000	0.503	101	0.514	103		
Lead		0.500	0.5120	102	0.5000	0.498	100	0.514	103		
Magnesium		0.500	0.4870	97	0.5000	0.493	99	0.517	103		
Manganese		0.500	0.5120	102	0.5000	0.506	101	0.512	102		
Nickel		0.500	0.5020	100	0.5000	0.501	100	0.526	105		
Potassium		5.00	5.1800	104	5.0000	5.08	102	5.20	104		
Selenium		0.500	0.4710	94	0.5000	0.464	93	0.503	101		
Silver		0.500	0.5030	101	0.5000	0.497	99	0.524	105		
Sodium		10.0	10.3000	103	10.0000	10.2	102	10.4	104		
Thallium		0.500	0.5170	103	0.5000	0.508	102	0.513	103		
Vanadium		0.500	0.5110	102	0.5000	0.508	102	0.526	105		
Zinc		0.500	0.4900	98	0.5000	0.486	97	0.520	104		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum	0.500	0.5080	102							
Antimony	0.500	0.4860	97							
Arsenic	0.500	0.4900	98							
Barium	0.500	0.5070	101							
Beryllium	0.500	0.5160	103							
Cadmium	0.500	0.5100	102							
Calcium	0.500	0.5230	105							
Chromium	0.500	0.5150	103							
Cobalt	0.500	0.5240	105							
Copper	0.500	0.5080	102							
Iron	0.500	0.5250	105							
Lead	0.500	0.4990	100							
Magnesium	0.500	0.5300	106							
Manganese	0.500	0.5240	105							
Nickel	0.500	0.4900	98							
Potassium	5.00	5.2300	105							
Selenium	0.500	0.5060	101							
Silver	0.500	0.5160	103							
Sodium	10.0	10.0000	100							
Thallium	0.500	0.5090	102							
Vanadium	0.500	0.5170	103							
Zinc	0.500	0.5160	103							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	Lab ID	: R1981541-3		R1981541-6			R1981541-8		R1981541-10		
	Date Analyzed:	06/26/25 06:54		06/26/25 08:15			06/26/25 09:40		06/26/25 10:50		
	True	Found	%R	True	Found	%R	Found	%R	Found	%R	
Aluminum	0.500	0.5000	100	0.5000	0.510	102	0.498	100	0.492	98	
Antimony	0.500	0.4780	96	0.5000	0.480	96	0.483	97	0.480	96	
Arsenic	0.500	0.4860	97	0.5000	0.476	95	0.468	94	0.464	93	
Barium	0.500	0.5000	100	0.5000	0.505	101	0.496	99	0.486	97	
Beryllium	0.500	0.5060	101	0.5000	0.512	102	0.501	100	0.493	99	
Cadmium	0.500	0.4980	100	0.5000	0.490	98	0.486	97	0.476	95	
Calcium	0.500	0.5090	102	0.5000	0.524	105	0.512	102	0.507	101	
Chromium	0.500	0.5090	102	0.5000	0.517	103	0.518	104	0.516	103	
Cobalt	0.500	0.5150	103	0.5000	0.519	104	0.514	103	0.511	102	
Copper	0.500	0.5010	100	0.5000	0.506	101	0.494	99	0.493	99	
Iron	0.500	0.5140	103	0.5000	0.517	103	0.505	101	0.492	98	
Lead	0.500	0.4910	98	0.5000	0.487	97	0.489	98	0.485	97	
Magnesium	0.500	0.5260	105	0.5000	0.525	105	0.518	104	0.512	102	
Manganese	0.500	0.5140	103	0.5000	0.522	104	0.512	102	0.504	101	
Nickel	0.500	0.4820	96	0.5000	0.473	95	0.481	96	0.475	95	
Potassium	5.00	5.2200	104	5.0000	5.43	109	5.22	104	5.19	104	
Selenium	0.500	0.5010	100	0.5000	0.509	102	0.499	100	0.500	100	
Silver	0.500	0.5090	102	0.5000	0.516	103	0.509	102	0.503	101	
Sodium	10.0	10.0000	100	10.0000	10.3	103	9.89	99	9.82	98	
Thallium	0.500	0.5010	100	0.5000	0.492	98	0.489	98	0.484	97	
Vanadium	0.500	0.5100	102	0.5000	0.507	101	0.509	102	0.500	100	
Zinc	0.500	0.5090	102	0.5000	0.510	102	0.508	102	0.506	101	

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration		Continuing Calibration(s)							
		True	Found	%R	R1981541-12 06/26/25 13:00		R1981541-14 06/26/25 13:53		R1981541-16 06/26/25 16:14		
					True	Found	%R	Found	%R	Found	%R
Aluminum					0.5000	0.498	100	0.496	99	0.496	99
Antimony					0.5000	0.477	95	0.472	94	0.476	95
Arsenic					0.5000	0.464	93	0.456	91	0.465	93
Barium					0.5000	0.491	98	0.486	97	0.492	98
Beryllium					0.5000	0.495	99	0.490	98	0.494	99
Cadmium					0.5000	0.484	97	0.476	95	0.486	97
Calcium					0.5000	0.508	102	0.503	101	0.502	100
Chromium					0.5000	0.517	103	0.520	104	0.513	103
Cobalt					0.5000	0.512	102	0.511	102	0.516	103
Copper					0.5000	0.492	98	0.492	98	0.500	100
Iron					0.5000	0.497	99	0.489	98	0.493	99
Lead					0.5000	0.485	97	0.477	95	0.482	96
Magnesium					0.5000	0.518	104	0.515	103	0.519	104
Manganese					0.5000	0.504	101	0.499	100	0.499	100
Nickel					0.5000	0.474	95	0.462	92	0.471	94
Potassium					5.0000	5.29	106	5.26	105	5.28	106
Selenium					0.5000	0.497	99	0.496	99	0.499	100
Silver					0.5000	0.507	101	0.504	101	0.511	102
Sodium					10.0000	9.96	100	9.96	100	9.97	100
Thallium					0.5000	0.487	97	0.476	95	0.485	97
Vanadium					0.5000	0.504	101	0.500	100	0.504	101
Zinc					0.5000	0.507	101	0.503	101	0.505	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		True	Found	%R	R1981541-18 06/26/25 17:57			R1981541-20 06/26/25 18:25		R1981541-22 06/26/25 19:57	
					True	Found	%R	Found	%R	Found	%R
Aluminum					0.5000	0.497	99	0.494	99	0.487	97
Antimony					0.5000	0.482	96	0.481	96	0.471	94
Arsenic					0.5000	0.465	93	0.468	94	0.467	93
Barium					0.5000	0.492	98	0.492	98	0.479	96
Beryllium					0.5000	0.489	98	0.489	98	0.482	96
Cadmium					0.5000	0.480	96	0.483	97	0.476	95
Calcium					0.5000	0.496	99	0.497	99	0.482	96
Chromium					0.5000	0.510	102	0.510	102	0.500	100
Cobalt					0.5000	0.511	102	0.511	102	0.504	101
Copper					0.5000	0.497	99	0.494	99	0.498	100
Iron					0.5000	0.507	101	0.494	99	0.477	95
Lead					0.5000	0.486	97	0.488	98	0.472	94
Magnesium					0.5000	0.515	103	0.512	102	0.514	103
Manganese					0.5000	0.493	99	0.493	99	0.481	96
Nickel					0.5000	0.478	96	0.480	96	0.460	92
Potassium					5.0000	5.30	106	5.25	105	5.14	103
Selenium					0.5000	0.497	99	0.493	99	0.503	101
Silver					0.5000	0.506	101	0.505	101	0.507	101
Sodium					10.0000	9.97	100	9.93	99	9.78	98
Thallium					0.5000	0.487	97	0.491	98	0.476	95
Vanadium					0.5000	0.502	100	0.505	101	0.494	99
Zinc					0.5000	0.504	101	0.503	101	0.494	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum	0.500	0.5080	102							
Antimony	0.500	0.4860	97							
Arsenic	0.500	0.4900	98							
Barium	0.500	0.5070	101							
Beryllium	0.500	0.5160	103							
Cadmium	0.500	0.5100	102							
Calcium	0.500	0.5230	105							
Chromium	0.500	0.5150	103							
Cobalt	0.500	0.5240	105							
Copper	0.500	0.5080	102							
Iron	0.500	0.5250	105							
Lead	0.500	0.4990	100							
Magnesium	0.500	0.5300	106							
Manganese	0.500	0.5240	105							
Nickel	0.500	0.4900	98							
Potassium	5.00	5.2300	105							
Selenium	0.500	0.5060	101							
Silver	0.500	0.5160	103							
Sodium	10.0	10.0000	100							
Thallium	0.500	0.5090	102							
Vanadium	0.500	0.5170	103							
Zinc	0.500	0.5160	103							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	Lab ID	: R1981541-3		R1981541-6			R1981541-8		R1981541-10		
	Date Analyzed:	06/26/25 06:54		06/26/25 08:15			06/26/25 09:40		06/26/25 10:50		
	True	Found	%R	True	Found	%R	Found	%R	Found	%R	
Aluminum	0.500	0.5000	100	0.5000	0.510	102	0.498	100	0.492	98	
Antimony	0.500	0.4780	96	0.5000	0.480	96	0.483	97	0.480	96	
Arsenic	0.500	0.4860	97	0.5000	0.476	95	0.468	94	0.464	93	
Barium	0.500	0.5000	100	0.5000	0.505	101	0.496	99	0.486	97	
Beryllium	0.500	0.5060	101	0.5000	0.512	102	0.501	100	0.493	99	
Cadmium	0.500	0.4980	100	0.5000	0.490	98	0.486	97	0.476	95	
Calcium	0.500	0.5090	102	0.5000	0.524	105	0.512	102	0.507	101	
Chromium	0.500	0.5090	102	0.5000	0.517	103	0.518	104	0.516	103	
Cobalt	0.500	0.5150	103	0.5000	0.519	104	0.514	103	0.511	102	
Copper	0.500	0.5010	100	0.5000	0.506	101	0.494	99	0.493	99	
Iron	0.500	0.5140	103	0.5000	0.517	103	0.505	101	0.492	98	
Lead	0.500	0.4910	98	0.5000	0.487	97	0.489	98	0.485	97	
Magnesium	0.500	0.5260	105	0.5000	0.525	105	0.518	104	0.512	102	
Manganese	0.500	0.5140	103	0.5000	0.522	104	0.512	102	0.504	101	
Nickel	0.500	0.4820	96	0.5000	0.473	95	0.481	96	0.475	95	
Potassium	5.00	5.2200	104	5.0000	5.43	109	5.22	104	5.19	104	
Selenium	0.500	0.5010	100	0.5000	0.509	102	0.499	100	0.500	100	
Silver	0.500	0.5090	102	0.5000	0.516	103	0.509	102	0.503	101	
Sodium	10.0	10.0000	100	10.0000	10.3	103	9.89	99	9.82	98	
Thallium	0.500	0.5010	100	0.5000	0.492	98	0.489	98	0.484	97	
Vanadium	0.500	0.5100	102	0.5000	0.507	101	0.509	102	0.500	100	
Zinc	0.500	0.5090	102	0.5000	0.510	102	0.508	102	0.506	101	

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		True	Found	%R	R1981541-12 06/26/25 13:00			R1981541-14 06/26/25 13:53		R1981541-16 06/26/25 16:14	
					True	Found	%R	Found	%R	Found	%R
Aluminum					0.5000	0.498	100	0.496	99	0.496	99
Antimony					0.5000	0.477	95	0.472	94	0.476	95
Arsenic					0.5000	0.464	93	0.456	91	0.465	93
Barium					0.5000	0.491	98	0.486	97	0.492	98
Beryllium					0.5000	0.495	99	0.490	98	0.494	99
Cadmium					0.5000	0.484	97	0.476	95	0.486	97
Calcium					0.5000	0.508	102	0.503	101	0.502	100
Chromium					0.5000	0.517	103	0.520	104	0.513	103
Cobalt					0.5000	0.512	102	0.511	102	0.516	103
Copper					0.5000	0.492	98	0.492	98	0.500	100
Iron					0.5000	0.497	99	0.489	98	0.493	99
Lead					0.5000	0.485	97	0.477	95	0.482	96
Magnesium					0.5000	0.518	104	0.515	103	0.519	104
Manganese					0.5000	0.504	101	0.499	100	0.499	100
Nickel					0.5000	0.474	95	0.462	92	0.471	94
Potassium					5.0000	5.29	106	5.26	105	5.28	106
Selenium					0.5000	0.497	99	0.496	99	0.499	100
Silver					0.5000	0.507	101	0.504	101	0.511	102
Sodium					10.0000	9.96	100	9.96	100	9.97	100
Thallium					0.5000	0.487	97	0.476	95	0.485	97
Vanadium					0.5000	0.504	101	0.500	100	0.504	101
Zinc					0.5000	0.507	101	0.503	101	0.505	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		True	Found	%R	R1981541-18 06/26/25 17:57			R1981541-20 06/26/25 18:25		R1981541-22 06/26/25 19:57	
					True	Found	%R	Found	%R	Found	%R
Aluminum					0.5000	0.497	99	0.494	99	0.487	97
Antimony					0.5000	0.482	96	0.481	96	0.471	94
Arsenic					0.5000	0.465	93	0.468	94	0.467	93
Barium					0.5000	0.492	98	0.492	98	0.479	96
Beryllium					0.5000	0.489	98	0.489	98	0.482	96
Cadmium					0.5000	0.480	96	0.483	97	0.476	95
Calcium					0.5000	0.496	99	0.497	99	0.482	96
Chromium					0.5000	0.510	102	0.510	102	0.500	100
Cobalt					0.5000	0.511	102	0.511	102	0.504	101
Copper					0.5000	0.497	99	0.494	99	0.498	100
Iron					0.5000	0.507	101	0.494	99	0.477	95
Lead					0.5000	0.486	97	0.488	98	0.472	94
Magnesium					0.5000	0.515	103	0.512	102	0.514	103
Manganese					0.5000	0.493	99	0.493	99	0.481	96
Nickel					0.5000	0.478	96	0.480	96	0.460	92
Potassium					5.0000	5.30	106	5.25	105	5.14	103
Selenium					0.5000	0.497	99	0.493	99	0.503	101
Silver					0.5000	0.506	101	0.505	101	0.507	101
Sodium					10.0000	9.97	100	9.93	99	9.78	98
Thallium					0.5000	0.487	97	0.491	98	0.476	95
Vanadium					0.5000	0.502	100	0.505	101	0.494	99
Zinc					0.5000	0.504	101	0.503	101	0.494	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : TRACE8

Lab Number : L2537655
Project Number : 2232.0006Y005

Parameter	Initial Calibration		Continuing Calibration						Preparation	
	Blank		Blank(s)						Blank	
	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			0.293	
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			0.0838	
Lead	0.00270	U	0.00270	U	0.00270	U			0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U			0.0618	J
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			0.473	J
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			0.0041	J



Form 3 Blanks

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

Lab Number : L2537655
Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank
	Lab ID	:					
	Date Analyzed	:					
	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
Project Name : CORAM MATERIALS
Instrument ID : TRACE6

Lab Number : L2537655
Project Number : 2232.0006Y005

Parameter	Initial Calibration		Continuing Calibration				Preparation	
	Blank		Blank(s)				Blank	
	Lab ID	Date Analyzed	R1981541-2	R1981541-7	R1981541-9	R1981541-11	WG2081457-1	
			06/26/25 06:38	06/26/25 08:22	06/26/25 09:46	06/26/25 10:56	06/26/25 16:49	
	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
Project Name : CORAM MATERIALS
Instrument ID : TRACE6

Lab Number : L2537655
Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	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
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
Project Name : CORAM MATERIALS
Instrument ID : TRACE6

Lab Number : L2537655
Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum			0.0318	U	0.0318	U	0.0489	J
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 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : TRACE6

Lab Number : L2537655
Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	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
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
Project Name : CORAM MATERIALS
Instrument ID : TRACE6

Lab Number : L2537655
Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	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
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
Project Name : CORAM MATERIALS
Instrument ID : TRACE6

Lab Number : L2537655
Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum			0.0318	U	0.0318	U	0.0489	J
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
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE8

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Concentration Units : mg/l

Analyte	True		Initial Found		Final Found					
	Lab ID :		R1980618-5							
	Analysis Date :		06/24/25 07:52							
	Sol.	Sol.	Sol.		Sol.		Sol.		Sol.	
	A	AB	A	%R	AB	%R	A	%R	AB	%R
Aluminum	500		528.	106						
Antimony			0.00120							
Arsenic			-0.00418							
Barium			0.00197							
Beryllium			0.0000989							
Cadmium			-0.00435							
Calcium	500		453.	91						
Chromium			0.0000721							
Cobalt			-0.000768							
Copper			-0.0116							
Iron	200		188.	94						
Lead			-0.0154							
Magnesium	500		497.	99						
Manganese			0.00200							
Nickel			0.00112							
Potassium			-0.0147							
Selenium			0.000456							
Silver			0.00153							
Sodium			0.0195							
Thallium			0.00327							
Vanadium			0.000348							
Zinc			-0.000890							

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
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Concentration Units : mg/l

Analyte	True		Initial Found		Final Found					
	Lab ID :		R1981541-5							
	Analysis Date :		06/26/25 07:17							
	Sol.	Sol.	Sol.		Sol.		Sol.		Sol.	
	A	AB	A	%R	AB	%R	A	%R	AB	%R
Aluminum	500		513.	103						
Antimony			-0.0310							
Arsenic			0.00135							
Barium			0.00207							
Beryllium			-0.0000333							
Cadmium			-0.00258							
Calcium	500		488.	98						
Chromium			-0.00204							
Cobalt			0.000310							
Copper			-0.00544							
Iron	200		181.	90						
Lead			-0.0129							
Magnesium	500		408.	82						
Manganese			0.00200							
Nickel			-0.0102							
Potassium			0.000958							
Selenium			0.00138							
Silver			0.000511							
Sodium			0.0151							
Thallium			-0.0184							
Vanadium			-0.00245							
Zinc			-0.00138							

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
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Concentration Units : mg/l

Analyte	True		Initial Found		Final Found					
	Lab ID :		R1981541-5							
	Analysis Date :		06/26/25 07:17							
	Sol.	Sol.	Sol.		Sol.		Sol.		Sol.	
	A	AB	A	%R	AB	%R	A	%R	AB	%R
Aluminum	500		513.	103						
Antimony			-0.0310							
Arsenic			0.00135							
Barium			0.00207							
Beryllium			-0.0000333							
Cadmium			-0.00258							
Calcium	500		488.	98						
Chromium			-0.00204							
Cobalt			0.000310							
Copper			-0.00544							
Iron	200		181.	90						
Lead			-0.0129							
Magnesium	500		408.	82						
Manganese			0.00200							
Nickel			-0.0102							
Potassium			0.000958							
Selenium			0.00138							
Silver			0.000511							
Sodium			0.0151							
Thallium			-0.0184							
Vanadium			-0.00245							
Zinc			-0.00138							

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
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2539226-01
 Matrix Spike : WG2082423-3
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/24/25 09:49
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Aluminum, Total	0.470	2	2.91	122					75-125	20
Antimony, Total	ND	0.5	0.495	99					75-125	20
Arsenic, Total	ND	0.12	0.132	110					75-125	20
Barium, Total	0.049	2	2.44	120					75-125	20
Beryllium, Total	ND	0.05	0.0585	117					75-125	20
Cadmium, Total	ND	0.053	0.0549	104					75-125	20
Calcium, Total	16.9	10	28.0	111					75-125	20
Chromium, Total	ND	0.2	0.238	119					75-125	20
Cobalt, Total	ND	0.5	0.582	116					75-125	20
Copper, Total	0.016	0.25	0.321	122					75-125	20
Iron, Total	0.408B	1	1.61	120					75-125	20
Lead, Total	0.0148	0.53	0.577	106					75-125	20
Magnesium, Total	1.14	10	12.0	109					75-125	20
Manganese, Total	0.026	0.5	0.600	115					75-125	20
Nickel, Total	0.003J	0.5	0.598	120					75-125	20
Potassium, Total	8.29	10	20.0	117					75-125	20
Selenium, Total	ND	0.12	0.134	112					75-125	20
Silver, Total	ND	0.05	0.0618	124					75-125	20
Sodium, Total	43.4	10	56.6	132 Q					75-125	20
Thallium, Total	ND	0.12	0.130	108					75-125	20
Vanadium, Total	0.004J	0.5	0.618	124					75-125	20
Zinc, Total	0.016	0.5	0.609	119					75-125	20



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2535446-01
 Matrix Spike : WG2081457-3
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/26/25 17:29
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Aluminum, Dissolved	60.1	2	64.4	215 Q					75-125	20
Antimony, Dissolved	ND	0.5	0.632	126 Q					75-125	20
Arsenic, Dissolved	0.036	0.12	0.171	113					75-125	20
Barium, Dissolved	0.172	2	2.24	103					75-125	20
Beryllium, Dissolved	ND	0.05	0.0508	102					75-125	20
Cadmium, Dissolved	ND	0.053	0.0448	84					75-125	20
Calcium, Dissolved	229	10	244.	150 Q					75-125	20
Chromium, Dissolved	0.733	0.2	0.936	102					75-125	20
Cobalt, Dissolved	0.031	0.5	0.466	87					75-125	20
Copper, Dissolved	0.0190	0.25	0.298	112					75-125	20
Iron, Dissolved	377	1	389.	1200Q					75-125	20
Lead, Dissolved	ND	0.53	0.507	96					75-125	20
Magnesium, Dissolved	44.3	10	52.7	84					75-125	20
Manganese, Dissolved	6.16	0.5	6.81	130 Q					75-125	20
Nickel, Dissolved	0.560	0.5	1.11	110					75-125	20
Potassium, Dissolved	125	10	140.	150 Q					75-125	20
Selenium, Dissolved	0.020	0.12	0.174	128 Q					75-125	20
Silver, Dissolved	ND	0.05	0.0561	112					75-125	20
Sodium, Dissolved	54.2	10	64.9	107					75-125	20
Thallium, Dissolved	ND	0.12	0.0450	38 Q					75-125	20
Vanadium, Dissolved	0.074	0.5	0.574	100					75-125	20
Zinc, Dissolved	3.08	0.5	3.58	100					75-125	20



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/24/25 09:45
Dup Sample ID	: WG2082423-4	DUP Analysis Date	: 06/24/25 09:52

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Arsenic, Total	ND	0.0022J	NC	20
Lead, Total	0.0148	0.0146	1	20



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/26/25 17:22
Dup Sample ID	: WG2081457-4	DUP Analysis Date	: 06/26/25 17:37

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Copper, Dissolved	0.0190	0.0190	0	20
Silver, Dissolved	ND	ND	NC	20



Form 7 Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2082423-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/24/25 09:39
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Aluminum, Total	2.00	2.26	113.					85-115	20
Antimony, Total	0.500	0.450	90.					85-115	20
Arsenic, Total	0.120	0.122	102.					85-115	20
Barium, Total	2.00	2.26	113.					85-115	20
Beryllium, Total	0.0500	0.0550	110.					85-115	20
Cadmium, Total	0.0530	0.0525	99.					85-115	20
Calcium, Total	10.0	10.3	103.					85-115	20
Chromium, Total	0.200	0.226	113.					85-115	20
Cobalt, Total	0.500	0.554	111.					85-115	20
Copper, Total	0.250	0.285	114.					85-115	20
Iron, Total	1.00	1.13	113.					85-115	20
Lead, Total	0.530	0.544	103.					85-115	20
Magnesium, Total	10.0	10.5	105.					85-115	20
Manganese, Total	0.500	0.551	110.					85-115	20
Nickel, Total	0.500	0.568	114.					85-115	20
Potassium, Total	10.0	10.6	106.					85-115	20
Selenium, Total	0.120	0.125	104.					85-115	20
Sodium, Total	10.0	10.8	108.					85-115	20
Thallium, Total	0.120	0.125	104.					85-115	20
Zinc, Total	0.500	0.564	113.					85-115	20



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2081457-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/26/25 16:56
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Aluminum, Dissolved	2.00	2.14	107.					85-115	20
Antimony, Dissolved	0.500	0.466	93.					85-115	20
Arsenic, Dissolved	0.120	0.115	96.					85-115	20
Barium, Dissolved	2.00	2.02	101.					85-115	20
Beryllium, Dissolved	0.0500	0.0494	99.					85-115	20
Cadmium, Dissolved	0.0530	0.0500	94.					85-115	20
Calcium, Dissolved	10.0	10.4	104.					85-115	20
Chromium, Dissolved	0.200	0.205	102.					85-115	20
Cobalt, Dissolved	0.500	0.498	100.					85-115	20
Copper, Dissolved	0.250	0.251	100.					85-115	20
Iron, Dissolved	1.00	0.994	99.					85-115	20
Lead, Dissolved	0.530	0.511	96.					85-115	20
Magnesium, Dissolved	10.0	10.3	103.					85-115	20
Manganese, Dissolved	0.500	0.498	100.					85-115	20
Nickel, Dissolved	0.500	0.460	92.					85-115	20
Potassium, Dissolved	10.0	11.5	115.					85-115	20
Selenium, Dissolved	0.120	0.124	103.					85-115	20
Silver, Dissolved	0.0500	0.0518	104.					85-115	20
Sodium, Dissolved	10.0	11.2	112.					85-115	20
Thallium, Dissolved	0.120	0.112	93.					85-115	20
Vanadium, Dissolved	0.500	0.498	100.					85-115	20
Zinc, Dissolved	0.500	0.494	99.					85-115	20



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2082423-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/26/25 18:52
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Silver, Total	0.0500	0.0567	113.					85-115	20
Vanadium, Total	0.500	0.534	107.					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 : L2537655
Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
Matrix : WATER Prep Method : EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG2082423-1	06/23/25 18:39	-	50
WG2082423-2	06/23/25 18:39	-	50
WG2082423-3	06/23/25 18:39	-	50
WG2082423-4	06/23/25 18:39	-	50



Form 12

Preparation Log

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2537655
Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
Matrix : WATER Prep Method : EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2537655-01	06/20/25 11:06	-	50
L2537655-02	06/20/25 11:06	-	50
L2537655-03	06/20/25 11:06	-	50
L2537655-04	06/20/25 11:06	-	50
L2537655-05	06/20/25 11:06	-	50
WG2081457-1	06/20/25 11:06	-	50
WG2081457-2	06/20/25 11:06	-	50
WG2081457-3	06/20/25 11:06	-	50
WG2081457-4	06/20/25 11:06	-	50



Form 12 Preparation Log

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2537655
Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
Matrix : WATER Prep Method : EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2537655-01	06/23/25 18:39	-	50
L2537655-02	06/23/25 18:39	-	50
L2537655-03	06/23/25 18:39	-	50
L2537655-04	06/23/25 18:39	-	50
L2537655-05	06/23/25 18:39	-	50
WG2082423-2	06/23/25 18:39	-	50



Form 13

Analysis Run Log

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE8
 Start Date : 06/24/25 07:24

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Analysis Method : 19,200.7
 End Date : 06/24/25 10:06

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				
R1980618-1 ICV	1	07:24:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1980618-2 ICB	1	07:28:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1980618-3 ICV	1	07:34:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1980618-4 ICB	1	07:37:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1980618-5 ICSA	1	07:52:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1980618-6 CCV	1	09:21:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1980618-7 CCB	1	09:24:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2082423-1 BLANK	1	09:35:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2082423-2 LCS	1	09:39:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X				
WG2082423-3 MS	1	09:49:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2082423-4 DUP	1	09:52:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1980618-8 CCV	1	10:02:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1980618-9 CCB	1	10:06:16	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
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6
 Start Date : 06/26/25 06:32

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Analysis Method : 19,200.7
 End Date : 06/26/25 20:03

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				
R1981541-1 ICV	1	06:32:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-2 ICB	1	06:38:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-3 ICV	1	06:54:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-4 ICB	1	07:00:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-5 ICSA	1	07:17:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-6 CCV	1	08:15:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-7 CCB	1	08:22:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-8 CCV	1	09:40:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-9 CCB	1	09:46:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-10 CCV	1	10:50:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-11 CCB	1	10:56:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-12 CCV	1	13:00:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-13 CCB	1	13:07:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-14 CCV	1	13:53:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-15 CCB	1	13:59:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-16 CCV	1	16:14:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-17 CCB	1	16:20:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2081457-1 BLANK	1	16:49:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2081457-2 LCS	1	16:56:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
L2537655-03	1	17:02:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
L2537655-01	1	17:09:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
L2537655-02	1	17:15:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2081457-3 MS	1	17:29:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2081457-4 DUP	1	17:37:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-18 CCV	1	17:57:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-19 CCB	1	18:04:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-20 CCV	1	18:25:40	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
Project Name : CORAM MATERIALS
Instrument ID : TRACE6
Start Date : 06/26/25 06:32

Lab Number : L2537655
Project Number : 2232.0006Y005
Analysis Method : 19,200.7
End Date : 06/26/25 20:03

[illegible]

Form 13 Analysis Run Log

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : TRACE6
Start Date : 06/26/25 06:32

Lab Number : L2537655
Project Number : 2232.0006Y005
Analysis Method : 19,200.7
End Date : 06/26/25 20:03

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				
R1981541-1 ICV	1	06:32:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-2 ICB	1	06:38:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-3 ICV	1	06:54:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-4 ICB	1	07:00:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-5 ICSA	1	07:17:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-6 CCV	1	08:15:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-7 CCB	1	08:22:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-8 CCV	1	09:40:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-9 CCB	1	09:46:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-10 CCV	1	10:50:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-11 CCB	1	10:56:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-12 CCV	1	13:00:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-13 CCB	1	13:07:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-14 CCV	1	13:53:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-15 CCB	1	13:59:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-16 CCV	1	16:14:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-17 CCB	1	16:20:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-18 CCV	1	17:57:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-19 CCB	1	18:04:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-20 CCV	1	18:25:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-21 CCB	1	18:31:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2082423-2 LCS	1	18:52:45																		X			X					
L2537655-01	1	18:59:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
L2537655-02	1	19:05:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
L2537655-03	1	19:12:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
L2537655-04	1	19:19:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
L2537655-05	1	19:25:52	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
Project Name : CORAM MATERIALS
Instrument ID : TRACE6
Start Date : 06/26/25 06:32

Lab Number : L2537655
Project Number : 2232.0006Y005
Analysis Method : 19,200.7
End Date : 06/26/25 20:03

[illegible]

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2960-2
Page: 1

METALS by 200.7, 6010C (WATER)

[illegible]

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)

[illegible]

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 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: Blank EFM Trace8
 Analysis started at: 6/24/2025 7:15:01 AM
 Rack: 0
 Vial: 1
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
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 %	-0.4 %	-0.8 %	0.4 %	1.2 %	-0.2 %	-1.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
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	-2.3 %	0.2 %	-0.5 %	0.0 %	1.5 %	0.4 %	-1.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
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 %	-1.4 %	0.4 %	0.1 %	0.7 %	0.1 %	-1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
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	-0.5 %	0.2 %	2.6 %	26.0 %	-0.1 %	-1.2 %	-0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
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	1.3 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: ICAL
 Analysis started at: 6/24/2025 7:19:36 AM
 Rack: 0
 Vial: 2
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
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	0.9980 ppm	24.9375 ppm	0.9938 ppm	0.9974 ppm	0.9924 ppm	0.9980 ppm	9.9937 ppm
Concentration per Run	1.0016 ppm	25.0102 ppm	1.0075 ppm	0.9981 ppm	1.0069 ppm	1.0013 ppm	9.9486 ppm
Concentration per Run	1.0003 ppm	25.0523 ppm	0.9987 ppm	1.0045 ppm	1.0007 ppm	1.0007 ppm	10.0576 ppm
Concentration RSD	0.2 %	0.2 %	0.7 %	0.4 %	0.7 %	0.2 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
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	0.9949 ppm	0.9954 ppm	0.9988 ppm	0.9950 ppm	25.0464 ppm	34.6912 ppm	0.9929 ppm
Concentration per Run	1.0136 ppm	1.0034 ppm	0.9967 ppm	1.0042 ppm	24.9445 ppm	35.1943 ppm	1.0085 ppm
Concentration per Run	0.9915 ppm	1.0012 ppm	1.0045 ppm	1.0008 ppm	25.0091 ppm	35.1145 ppm	0.9986 ppm
Concentration RSD	1.2 %	0.4 %	0.4 %	0.5 %	0.2 %	0.8 %	0.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
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	9.9862 ppm	1.0001 ppm	0.9937 ppm	24.9312 ppm	1.0014 ppm	0.9969 ppm	0.9963 ppm
Concentration per Run	9.9630 ppm	0.9964 ppm	1.0021 ppm	25.0188 ppm	1.0003 ppm	0.9989 ppm	1.0068 ppm
Concentration per Run	10.0508 ppm	1.0035 ppm	1.0041 ppm	25.0501 ppm	0.9983 ppm	1.0043 ppm	0.9969 ppm
Concentration RSD	0.5 %	0.4 %	0.6 %	0.2 %	0.2 %	0.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
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	0.9962 ppm	9.9959 ppm	1.0007 ppm	0.9942 ppm	0.9945 ppm	0.9942 ppm	0.9971 ppm
Concentration per Run	1.0036 ppm	10.0064 ppm	1.0013 ppm	1.0055 ppm	0.9976 ppm	1.0029 ppm	1.0037 ppm
Concentration per Run	1.0002 ppm	9.9977 ppm	0.9981 ppm	1.0002 ppm	1.0079 ppm	1.0029 ppm	0.9992 ppm
Concentration RSD	0.4 %	0.1 %	0.2 %	0.6 %	0.7 %	0.5 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	105.5863 %	103.0852 %	101.9140 %	100.9884 %	101.2101 %	100.6077 %
Concentration per Run	1.0012 ppm	105.6097 %	103.2698 %	102.1171 %	100.7376 %	102.1968 %	100.4824 %
Concentration per Run	1.0005 ppm	105.9146 %	103.3893 %	102.0056 %	101.2237 %	101.1722 %	100.9482 %
Concentration per Run	0.9983 ppm	105.2348 %	102.5964 %	101.6193 %	101.0039 %	100.2615 %	100.3926 %
Concentration RSD	0.2 %	0.3 %	0.4 %	0.3 %	0.2 %	1.0 %	0.3 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: ICV
 Analysis started at: 6/24/2025 7:24:18 AM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5172 ppm	0.4806 ppm	0.4842 ppm	0.5061 ppm	0.4996 ppm	0.5132 ppm	0.5020 ppm
Concentration per Run	0.5161 ppm	0.4816 ppm	0.4846 ppm	0.5068 ppm	0.4975 ppm	0.5151 ppm	0.5015 ppm
Concentration per Run	0.5176 ppm	0.4771 ppm	0.4849 ppm	0.5055 ppm	0.5010 ppm	0.5118 ppm	0.5016 ppm
Concentration per Run	0.5180 ppm	0.4830 ppm	0.4830 ppm	0.5060 ppm	0.5003 ppm	0.5126 ppm	0.5028 ppm
Recovery Percentage	103.449 %	96.110 %	96.835 %	101.224 %	99.916 %	102.634 %	100.393 %
Concentration RSD	0.2 %	0.6 %	0.2 %	0.1 %	0.4 %	0.3 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5251 ppm	0.5177 ppm	0.5178 ppm	0.5158 ppm	0.5062 ppm	5.1517 ppm	0.5045 ppm
Concentration per Run	0.5226 ppm	0.5183 ppm	0.5148 ppm	0.5156 ppm	0.5088 ppm	5.1716 ppm	0.5078 ppm
Concentration per Run	0.5280 ppm	0.5172 ppm	0.5172 ppm	0.5159 ppm	0.5000 ppm	5.1105 ppm	0.5036 ppm
Concentration per Run	0.5246 ppm	0.5176 ppm	0.5215 ppm	0.5159 ppm	0.5099 ppm	5.1729 ppm	0.5020 ppm
Recovery Percentage	105.014 %	103.544 %	103.565 %	103.162 %	101.249 %	103.034 %	100.892 %
Concentration RSD	0.5 %	0.1 %	0.7 %	0.0 %	1.1 %	0.7 %	0.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5105 ppm	0.5106 ppm	0.5105 ppm	10.1937 ppm	0.5220 ppm	0.5075 ppm	0.5228 ppm
Concentration per Run	0.5108 ppm	0.5122 ppm	0.5081 ppm	10.2311 ppm	0.5207 ppm	0.5082 ppm	0.5207 ppm
Concentration per Run	0.5111 ppm	0.5079 ppm	0.5129 ppm	10.0541 ppm	0.5229 ppm	0.5076 ppm	0.5235 ppm
Concentration per Run	0.5097 ppm	0.5118 ppm	0.5106 ppm	10.2958 ppm	0.5225 ppm	0.5067 ppm	0.5243 ppm
Recovery Percentage	102.108 %	102.126 %	102.109 %	101.937 %	104.404 %	101.500 %	104.567 %
Concentration RSD	0.2 %	0.5 %	0.5 %	1.2 %	0.2 %	0.1 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4938 ppm	5.6857 ppm	0.5225 ppm	0.4969 ppm	0.5137 ppm	0.5067 ppm	0.5213 ppm
Concentration per Run	0.4967 ppm	5.6822 ppm	0.5210 ppm	0.4963 ppm	0.5098 ppm	0.5043 ppm	0.5205 ppm
Concentration per Run	0.4935 ppm	5.6917 ppm	0.5249 ppm	0.4955 ppm	0.5162 ppm	0.5056 ppm	0.5223 ppm
Concentration per Run	0.4913 ppm	5.6832 ppm	0.5215 ppm	0.4987 ppm	0.5150 ppm	0.5101 ppm	0.5211 ppm
Recovery Percentage	98.763 %	108.299 %	104.491 %	99.371 %	102.733 %	101.332 %	104.264 %
Concentration RSD	0.6 %	0.1 %	0.4 %	0.3 %	0.7 %	0.6 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5180 ppm	104.5397 %	103.1793 %	103.5314 %	101.8780 %	102.1123 %	101.9070 %
Concentration per Run	0.5191 ppm	105.0284 %	102.4070 %	103.4753 %	102.3045 %	102.7478 %	101.9092 %
Concentration per Run	0.5204 ppm	104.1824 %	103.7942 %	103.7643 %	101.8157 %	100.1613 %	101.3188 %
Concentration per Run	0.5144 ppm	104.4082 %	103.3366 %	103.3545 %	101.5138 %	103.4278 %	102.4929 %
Recovery Percentage	103.594 %						
Concentration RSD	0.6 %	0.4 %	0.7 %	0.2 %	0.4 %	1.7 %	0.6 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: ICB
 Analysis started at: 6/24/2025 7:28:46 AM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	-0.0016 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run	-0.0004 ppm	-0.0004 ppm	0.0003 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run	-0.0001 ppm	-0.0003 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run	0.0002 ppm	-0.0040 ppm	-0.0025 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0017 ppm
Recovery Percentage	-2.149 %	-1.569 %	-17.218 %	0.322 %	0.206 %	0.490 %	1.830 %
Concentration RSD	305.7 %	135.3 %	169.4 %	321.1 %	122.6 %	56.0 %	29.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0001 ppm	0.0013 ppm	0.0115 ppm	0.0001 ppm
Concentration per Run	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0024 ppm	0.0174 ppm	0.0003 ppm
Concentration per Run	0.0001 ppm	-0.0008 ppm	0.0003 ppm	-0.0001 ppm	0.0004 ppm	0.0117 ppm	0.0002 ppm
Concentration per Run	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0009 ppm	0.0053 ppm	0.0000 ppm
Recovery Percentage	1.413 %	-4.589 %	1.980 %	0.923 %	2.520 %	0.459 %	1.312 %
Concentration RSD	27.0 %	55.5 %	60.7 %	168.3 %	84.0 %	52.9 %	109.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0012 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0008 ppm
Concentration per Run	-0.0026 ppm	-0.0001 ppm	0.0010 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run	-0.0013 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0011 ppm
Concentration per Run	0.0003 ppm	-0.0001 ppm	0.0004 ppm	0.0006 ppm	-0.0001 ppm	0.0003 ppm	0.0012 ppm
Recovery Percentage	-1.209 %	-0.472 %	0.989 %	0.004 %	0.290 %	2.298 %	1.576 %
Concentration RSD	121.2 %	123.8 %	88.7 %	574.6 %	169.8 %	51.9 %	222.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run	0.0000 ppm	0.0007 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run	-0.0008 ppm	-0.0002 ppm	0.0008 ppm	0.0000 ppm	0.0003 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run	0.0006 ppm	0.0004 ppm	-0.0006 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0002 ppm
Recovery Percentage	-0.424 %	0.060 %	0.476 %	0.213 %	2.887 %	0.978 %	2.196 %
Concentration RSD	1,670.2 %	147.5 %	316.7 %	122.2 %	52.3 %	197.0 %	23.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	104.8842 %	104.4674 %	104.5010 %	105.2195 %	105.7240 %	103.7455 %
Concentration per Run	0.0002 ppm	103.9998 %	104.6729 %	104.2843 %	104.7220 %	105.4235 %	103.2326 %
Concentration per Run	0.0002 ppm	105.1871 %	104.5975 %	104.9995 %	105.2581 %	106.2917 %	104.1312 %
Concentration per Run	0.0001 ppm	105.4659 %	104.1319 %	104.2193 %	105.6782 %	105.4567 %	103.8727 %
Recovery Percentage	3.710 %						
Concentration RSD	43.5 %	0.7 %	0.3 %	0.4 %	0.5 %	0.5 %	0.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: ICV
 Analysis started at: 6/24/2025 7:34:24 AM
 Rack: 0
 Vial: 10
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5034 ppm	0.4803 ppm	0.4671 ppm	0.4802 ppm	0.5046 ppm	0.5119 ppm	0.4997 ppm
Concentration per Run	0.5005 ppm	0.4847 ppm	0.4674 ppm	0.4783 ppm	0.5045 ppm	0.5137 ppm	0.4992 ppm
Concentration per Run	0.5049 ppm	0.4736 ppm	0.4656 ppm	0.4821 ppm	0.5043 ppm	0.5101 ppm	0.4983 ppm
Concentration per Run	0.5047 ppm	0.4827 ppm	0.4683 ppm	0.4802 ppm	0.5050 ppm	0.5119 ppm	0.5015 ppm
Recovery Percentage	100.676 %	96.069 %	93.416 %	96.044 %	100.922 %	102.375 %	99.938 %
Concentration RSD	0.5 %	1.2 %	0.3 %	0.4 %	0.1 %	0.3 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4985 ppm	0.5010 ppm	0.5018 ppm	0.5045 ppm	0.5056 ppm	5.1843 ppm	0.5212 ppm
Concentration per Run	0.4983 ppm	0.5006 ppm	0.4985 ppm	0.5019 ppm	0.5079 ppm	5.1993 ppm	0.5147 ppm
Concentration per Run	0.4962 ppm	0.4996 ppm	0.5071 ppm	0.5041 ppm	0.5055 ppm	5.1456 ppm	0.5219 ppm
Concentration per Run	0.5010 ppm	0.5028 ppm	0.4997 ppm	0.5076 ppm	0.5034 ppm	5.2080 ppm	0.5269 ppm
Recovery Percentage	99.706 %	100.198 %	100.356 %	100.902 %	101.121 %	103.686 %	104.236 %
Concentration RSD	0.5 %	0.3 %	0.9 %	0.6 %	0.5 %	0.7 %	1.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.4869 ppm	0.5119 ppm	0.4962 ppm	10.2758 ppm	0.5019 ppm	0.5124 ppm	0.4955 ppm
Concentration per Run	0.4852 ppm	0.5140 ppm	0.4959 ppm	10.3165 ppm	0.4992 ppm	0.5120 ppm	0.4974 ppm
Concentration per Run	0.4919 ppm	0.5083 ppm	0.4936 ppm	10.2258 ppm	0.5039 ppm	0.5136 ppm	0.4940 ppm
Concentration per Run	0.4837 ppm	0.5133 ppm	0.4991 ppm	10.2852 ppm	0.5026 ppm	0.5116 ppm	0.4952 ppm
Recovery Percentage	97.386 %	102.373 %	99.242 %	102.758 %	100.380 %	102.480 %	99.109 %
Concentration RSD	0.9 %	0.6 %	0.6 %	0.4 %	0.5 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4707 ppm	5.4780 ppm	0.4914 ppm	0.5022 ppm	0.5037 ppm	0.5174 ppm	0.5109 ppm
Concentration per Run	0.4716 ppm	5.4512 ppm	0.4907 ppm	0.5040 ppm	0.4972 ppm	0.5150 ppm	0.5091 ppm
Concentration per Run	0.4709 ppm	5.4802 ppm	0.4936 ppm	0.5013 ppm	0.5089 ppm	0.5173 ppm	0.5115 ppm
Concentration per Run	0.4696 ppm	5.5025 ppm	0.4899 ppm	0.5015 ppm	0.5049 ppm	0.5198 ppm	0.5121 ppm
Recovery Percentage	94.141 %	104.342 %	98.278 %	100.448 %	100.732 %	103.475 %	102.187 %
Concentration RSD	0.2 %	0.5 %	0.4 %	0.3 %	1.2 %	0.5 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4906 ppm	111.8006 %	102.6636 %	107.1039 %	107.9612 %	100.5673 %	104.3712 %
Concentration per Run	0.4875 ppm	111.8927 %	102.3121 %	107.3926 %	107.3174 %	101.2220 %	104.1512 %
Concentration per Run	0.4904 ppm	111.9826 %	103.2694 %	106.9080 %	108.4017 %	100.5522 %	103.1257 %
Concentration per Run	0.4939 ppm	111.5264 %	102.4093 %	107.0110 %	108.1645 %	99.9277 %	105.8365 %
Recovery Percentage	98.119 %						
Concentration RSD	0.7 %	0.2 %	0.5 %	0.2 %	0.5 %	0.6 %	1.3 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: ICB
Analysis started at: 6/24/2025 7:37:59 AM
Rack: 0
Vial: 4
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run	0.0000 ppm	0.0027 ppm	-0.0020 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run	-0.0003 ppm	-0.0032 ppm	0.0006 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Recovery Percentage	-2.745 %	-0.241 %	-5.224 %	2.741 %	-0.068 %	0.631 %	0.596 %
Concentration RSD	129.6 %	1,230.4 %	562.1 %	18.4 %	419.2 %	13.6 %	350.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0010 ppm	0.0133 ppm	0.0004 ppm
Concentration per Run	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0022 ppm	0.0061 ppm	0.0009 ppm
Concentration per Run	0.0001 ppm	-0.0006 ppm	-0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0150 ppm	-0.0001 ppm
Concentration per Run	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0189 ppm	0.0003 ppm
Recovery Percentage	0.921 %	-2.122 %	1.648 %	1.158 %	1.964 %	0.534 %	3.773 %
Concentration RSD	178.8 %	164.6 %	270.2 %	45.4 %	108.9 %	48.9 %	129.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0016 ppm	0.0002 ppm	0.0004 ppm	0.0004 ppm	0.0016 ppm
Concentration per Run	0.0013 ppm	-0.0001 ppm	0.0015 ppm	0.0005 ppm	0.0004 ppm	-0.0001 ppm	-0.0005 ppm
Concentration per Run	-0.0006 ppm	0.0000 ppm	0.0014 ppm	0.0003 ppm	0.0007 ppm	0.0008 ppm	0.0016 ppm
Concentration per Run	-0.0006 ppm	0.0001 ppm	0.0019 ppm	-0.0003 ppm	0.0003 ppm	0.0005 ppm	0.0037 ppm
Recovery Percentage	0.006 %	0.053 %	3.256 %	0.009 %	1.774 %	4.299 %	3.202 %
Concentration RSD	18,048.2 %	1,949.4 %	15.6 %	220.4 %	41.8 %	104.0 %	130.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0023 ppm	-0.0009 ppm	0.0003 ppm	0.0000 ppm	0.0008 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run	0.0037 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run	0.0009 ppm	-0.0007 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run	0.0024 ppm	-0.0017 ppm	0.0005 ppm	0.0001 ppm	0.0019 ppm	0.0012 ppm	0.0003 ppm
Recovery Percentage	23.490 %	-0.176 %	0.679 %	0.420 %	8.121 %	3.324 %	2.864 %
Concentration RSD	60.1 %	88.6 %	107.7 %	73.0 %	124.1 %	95.2 %	16.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	100.4438 %	98.6707 %	100.5602 %	100.1501 %	98.6844 %	100.4560 %
Concentration per Run	0.0004 ppm	100.0840 %	98.1063 %	101.3475 %	99.5339 %	96.9136 %	101.4954 %
Concentration per Run	0.0001 ppm	100.6956 %	98.4863 %	99.6833 %	100.4492 %	98.9156 %	99.0973 %
Concentration per Run	0.0002 ppm	100.5519 %	99.4195 %	100.6499 %	100.4671 %	100.2241 %	100.7752 %
Recovery Percentage	4.250 %						
Concentration RSD	71.2 %	0.3 %	0.7 %	0.8 %	0.5 %	1.7 %	1.2 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: LLOQ
Analysis started at: 6/24/2025 7:48:52 AM
Rack: 0
Vial: 5
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0053 ppm	0.1030 ppm	0.0044 ppm	0.0309 ppm	0.0103 ppm	0.0052 ppm	0.1153 ppm
Concentration per Run	0.0052 ppm	0.1008 ppm	0.0045 ppm	0.0314 ppm	0.0102 ppm	0.0052 ppm	0.1114 ppm
Concentration per Run	0.0053 ppm	0.1045 ppm	0.0036 ppm	0.0297 ppm	0.0103 ppm	0.0052 ppm	0.1188 ppm
Concentration per Run	0.0054 ppm	0.1036 ppm	0.0052 ppm	0.0314 ppm	0.0104 ppm	0.0052 ppm	0.1156 ppm
Recovery Percentage	105.678 %	102.972 %	87.988 %	102.852 %	102.971 %	103.988 %	115.278 %
Concentration RSD	1.7 %	1.9 %	18.0 %	3.1 %	0.9 %	0.5 %	3.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0043 ppm	0.0105 ppm	0.0109 ppm	0.0103 ppm	0.0610 ppm	2.6828 ppm	0.0108 ppm
Concentration per Run	0.0043 ppm	0.0111 ppm	0.0109 ppm	0.0102 ppm	0.0613 ppm	2.6966 ppm	0.0115 ppm
Concentration per Run	0.0043 ppm	0.0103 ppm	0.0112 ppm	0.0105 ppm	0.0618 ppm	2.6624 ppm	0.0104 ppm
Concentration per Run	0.0042 ppm	0.0102 ppm	0.0106 ppm	0.0103 ppm	0.0599 ppm	2.6893 ppm	0.0106 ppm
Recovery Percentage	106.629 %	105.444 %	109.151 %	103.403 %	122.069 %	107.312 %	108.221 %
Concentration RSD	2.3 %	4.8 %	2.7 %	1.5 %	1.6 %	0.7 %	5.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.1075 ppm	0.0103 ppm	0.0511 ppm	2.1106 ppm	0.0209 ppm	0.0105 ppm	0.0531 ppm
Concentration per Run	0.1069 ppm	0.0104 ppm	0.0514 ppm	2.0909 ppm	0.0205 ppm	0.0106 ppm	0.0544 ppm
Concentration per Run	0.1058 ppm	0.0102 ppm	0.0511 ppm	2.1053 ppm	0.0213 ppm	0.0107 ppm	0.0531 ppm
Concentration per Run	0.1099 ppm	0.0104 ppm	0.0508 ppm	2.1356 ppm	0.0207 ppm	0.0101 ppm	0.0519 ppm
Recovery Percentage	107.541 %	103.295 %	102.215 %	105.530 %	104.261 %	104.579 %	106.266 %
Concentration RSD	1.9 %	0.8 %	0.6 %	1.1 %	2.0 %	3.3 %	2.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0115 ppm	0.5483 ppm	0.0538 ppm	0.0102 ppm	0.0107 ppm	0.0200 ppm	0.0104 ppm
Concentration per Run	0.0117 ppm	0.5487 ppm	0.0542 ppm	0.0102 ppm	0.0107 ppm	0.0200 ppm	0.0103 ppm
Concentration per Run	0.0120 ppm	0.5487 ppm	0.0530 ppm	0.0101 ppm	0.0107 ppm	0.0196 ppm	0.0105 ppm
Concentration per Run	0.0108 ppm	0.5476 ppm	0.0542 ppm	0.0103 ppm	0.0107 ppm	0.0202 ppm	0.0104 ppm
Recovery Percentage	114.916 %	109.662 %	107.651 %	102.084 %	107.158 %	99.751 %	103.956 %
Concentration RSD	5.1 %	0.1 %	1.3 %	0.6 %	0.3 %	1.4 %	1.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0064 ppm	104.2395 %	103.4726 %	103.7593 %	102.0340 %	102.1786 %	101.2645 %
Concentration per Run	0.0065 ppm	103.6420 %	103.9190 %	102.7139 %	101.2938 %	101.5709 %	100.7584 %
Concentration per Run	0.0062 ppm	104.7387 %	102.9896 %	104.2245 %	102.9621 %	101.5205 %	102.1882 %
Concentration per Run	0.0066 ppm	104.3378 %	103.5092 %	104.3397 %	101.8461 %	103.4444 %	100.8470 %
Recovery Percentage	128.935 %						
Concentration RSD	3.4 %	0.5 %	0.5 %	0.9 %	0.8 %	1.1 %	0.8 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: ICSA
Analysis started at: 6/24/2025 7:52:23 AM
Rack: 0
Vial: 6
Comment: LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0015 ppm	527.9694 [SIC 1000]	-0.0042 ppm	0.0004 ppm	0.0020 ppm	0.0001 ppm	453.4614 ppm
Concentration per Run	0.0015 ppm	527.4710 ppm	-0.0043 ppm	-0.0018 ppm	0.0020 ppm	0.0001 ppm	454.2135 ppm
Concentration per Run	0.0011 ppm	528.3576 ppm	-0.0018 ppm	0.0011 ppm	0.0019 ppm	0.0001 ppm	453.0064 ppm
Concentration per Run	0.0020 ppm	528.0795 ppm	-0.0065 ppm	0.0020 ppm	0.0020 ppm	0.0001 ppm	453.1644 ppm
Recovery Percentage	30.613 %	527,969.361 %	-83.691 %	1.319 %	19.708 %	1.978 %	453,461.437 %
Concentration RSD	30.8 %	0.1 %	56.6 %	503.3 %	1.6 %	7.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0043 ppm	-0.0008 ppm	0.0001 ppm	-0.0116 ppm	188.1343 ppm	-0.0147 ppm	0.0001 ppm
Concentration per Run	-0.0042 ppm	-0.0009 ppm	0.0002 ppm	-0.0115 ppm	188.0974 ppm	-0.0141 ppm	0.0008 ppm
Concentration per Run	-0.0045 ppm	-0.0007 ppm	0.0003 ppm	-0.0118 ppm	187.8945 ppm	-0.0176 ppm	-0.0002 ppm
Concentration per Run	-0.0043 ppm	-0.0007 ppm	-0.0002 ppm	-0.0115 ppm	188.4110 ppm	-0.0124 ppm	-0.0004 ppm
Recovery Percentage	-108.745 %	-7.681 %	0.721 %	-115.814 %	376,268.512 %	-0.589 %	0.830 %
Concentration RSD	2.8 %	9.3 %	385.5 %	1.4 %	0.1 %	17.8 %	784.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	497.4589 ppm	0.0020 ppm	-0.0016 ppm	0.0195 ppm	0.0011 ppm	-0.0154 ppm	0.0012 ppm
Concentration per Run	504.3332 ppm	0.0021 ppm	-0.0012 ppm	0.0183 ppm	0.0012 ppm	-0.0180 ppm	0.0028 ppm
Concentration per Run	498.8203 ppm	0.0019 ppm	-0.0014 ppm	0.0199 ppm	0.0012 ppm	-0.0144 ppm	-0.0043 ppm
Concentration per Run	489.2232 ppm	0.0020 ppm	-0.0021 ppm	0.0203 ppm	0.0010 ppm	-0.0138 ppm	0.0051 ppm
Recovery Percentage	497,458.895 %	20.039 %	-3.127 %	0.975 %	4.496 %	-154.038 %	2.394 %
Concentration RSD	1.5 %	5.9 %	29.4 %	5.5 %	7.4 %	14.5 %	408.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	-0.0109 ppm	0.0009 ppm	0.0098 ppm	0.0010 ppm	0.0033 ppm	0.0003 ppm
Concentration per Run	0.0025 ppm	-0.0113 ppm	0.0011 ppm	0.0099 ppm	0.0014 ppm	0.0030 ppm	0.0007 ppm
Concentration per Run	-0.0020 ppm	-0.0126 ppm	0.0009 ppm	0.0098 ppm	0.0008 ppm	0.0047 ppm	0.0003 ppm
Concentration per Run	0.0009 ppm	-0.0089 ppm	0.0009 ppm	0.0098 ppm	0.0007 ppm	0.0021 ppm	0.0000 ppm
Recovery Percentage	4.561 %	-2.187 %	1.898 %	98.242 %	9.662 %	16.343 %	3.480 %
Concentration RSD	492.6 %	17.0 %	12.9 %	1.1 %	40.7 %	40.8 %	99.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0009 ppm	93.8640 %	93.3810 %	84.6448 %	90.5220 %	104.3557 %	92.4740 %
Concentration per Run	-0.0012 ppm	93.7229 %	93.7606 %	84.7140 %	90.6914 %	103.5136 %	93.6993 %
Concentration per Run	-0.0010 ppm	93.9374 %	93.3426 %	84.6474 %	90.5421 %	104.7865 %	91.7023 %
Concentration per Run	-0.0005 ppm	93.9316 %	93.0399 %	84.5729 %	90.3324 %	104.7670 %	92.0204 %
Recovery Percentage	-17.807 %						
Concentration RSD	38.4 %	0.1 %	0.4 %	0.1 %	0.2 %	0.7 %	1.2 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: SIC Multi
Analysis started at: 6/24/2025 7:57:49 AM
Rack: 0
Vial: 7
Comment: LDR +/-10%

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0011 ppm	0.0211 ppm	-0.0057 ppm	0.0015 ppm	0.0001 ppm	-0.0017 ppm	0.0014 ppm
Concentration per Run	-0.0009 ppm	0.0209 ppm	-0.0057 ppm	0.0018 ppm	0.0002 ppm	-0.0018 ppm	0.0033 ppm
Concentration per Run	-0.0013 ppm	0.0218 ppm	-0.0052 ppm	0.0012 ppm	0.0001 ppm	-0.0017 ppm	0.0010 ppm
Concentration per Run	-0.0012 ppm	0.0207 ppm	-0.0063 ppm	0.0017 ppm	0.0001 ppm	-0.0015 ppm	-0.0003 ppm
Recovery Percentage	-22.708 %	21.118 %	-114.620 %	5.115 %	1.295 %	-33.521 %	1.361 %
Concentration RSD	20.2 %	2.9 %	9.3 %	21.2 %	30.7 %	8.4 %	135.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0002 ppm	-0.0010 ppm	19.7249 ppm	-0.0018 ppm	0.0152 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run	-0.0002 ppm	-0.0015 ppm	19.5566 ppm	-0.0017 ppm	0.0161 ppm	0.0090 ppm	0.0000 ppm
Concentration per Run	-0.0002 ppm	-0.0001 ppm	19.8152 ppm	-0.0019 ppm	0.0150 ppm	-0.0067 ppm	0.0004 ppm
Concentration per Run	-0.0003 ppm	-0.0015 ppm	19.8027 ppm	-0.0019 ppm	0.0145 ppm	-0.0002 ppm	-0.0001 ppm
Recovery Percentage	-5.912 %	-10.150 %	197,248.515 %	-18.259 %	30.394 %	0.029 %	0.907 %
Concentration RSD	24.6 %	80.0 %	0.7 %	6.4 %	5.3 %	1,097.0 %	277.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0011 ppm	19.5502 ppm	0.0008 ppm	0.0048 ppm	0.0007 ppm	-0.0008 ppm	-0.0012 ppm
Concentration per Run	0.0020 ppm	19.3738 ppm	0.0007 ppm	0.0052 ppm	0.0006 ppm	-0.0010 ppm	0.0020 ppm
Concentration per Run	-0.0033 ppm	19.7186 ppm	0.0010 ppm	0.0045 ppm	0.0011 ppm	-0.0001 ppm	-0.0019 ppm
Concentration per Run	-0.0021 ppm	19.5581 ppm	0.0008 ppm	0.0047 ppm	0.0003 ppm	-0.0012 ppm	-0.0035 ppm
Recovery Percentage	-1.127 %	195,501.533 %	1.626 %	0.240 %	2.667 %	-7.850 %	-2.300 %
Concentration RSD	244.1 %	0.9 %	16.7 %	8.1 %	59.4 %	73.4 %	244.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0047 ppm	-0.0615 ppm	-0.0066 ppm	0.0001 ppm	19.3906 ppm	-0.0115 ppm	9.9236 ppm
Concentration per Run	0.0070 ppm	-0.0596 ppm	-0.0058 ppm	0.0001 ppm	19.2059 ppm	-0.0157 ppm	9.8808 ppm
Concentration per Run	0.0030 ppm	-0.0613 ppm	-0.0070 ppm	0.0001 ppm	19.4401 ppm	-0.0100 ppm	9.9409 ppm
Concentration per Run	0.0042 ppm	-0.0635 ppm	-0.0070 ppm	0.0000 ppm	19.5256 ppm	-0.0089 ppm	9.9492 ppm
Recovery Percentage	47.042 %	-12.292 %	-13.188 %	0.605 %	193,905.619 %	-57.634 %	99,236.317 %
Concentration RSD	43.4 %	3.2 %	10.1 %	35.9 %	0.9 %	31.5 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0016 ppm	109.1868 %	107.3605 %	87.8494 %	106.0876 %	106.6442 %	106.3658 %
Concentration per Run	-0.0015 ppm	109.8274 %	108.4248 %	88.3570 %	106.7500 %	106.9964 %	106.0806 %
Concentration per Run	-0.0018 ppm	108.7079 %	106.6010 %	87.3677 %	105.3633 %	105.5777 %	106.3826 %
Concentration per Run	-0.0016 ppm	109.0252 %	107.0556 %	87.8236 %	106.1495 %	107.3586 %	106.6342 %
Recovery Percentage	-32.871 %						
Concentration RSD	8.9 %	0.5 %	0.9 %	0.6 %	0.7 %	0.9 %	0.3 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: LDR Check
 Analysis started at: 6/24/2025 8:03:18 AM
 Rack: 0
 Vial: 8
 Comment: LDR +/-10%

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0008 ppm	-0.0116 ppm	5.7407 ppm	5.3708 [SIC 20]	10.1566 [SIC 20]	0.0017 ppm	0.0203 ppm
Concentration per Run	0.0007 ppm	-0.0060 ppm	5.7363 ppm	5.3699 ppm	10.1977 ppm	0.0017 ppm	0.0211 ppm
Concentration per Run	0.0011 ppm	-0.0095 ppm	5.7733 ppm	5.3774 ppm	10.1057 ppm	0.0016 ppm	0.0206 ppm
Concentration per Run	0.0007 ppm	-0.0192 ppm	5.7125 ppm	5.3651 ppm	10.1665 ppm	0.0017 ppm	0.0192 ppm
Recovery Percentage			114.813 %	107.416 %	101.566 %		0.000 %
Concentration RSD	29.3 %	59.0 %	0.5 %	0.1 %	0.5 %	2.2 %	4.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0015 ppm	0.0038 ppm	0.0010 ppm	20.5954 [SIC 40]	0.0082 ppm	318.1771 ppm	5.3220 ppm
Concentration per Run	0.0014 ppm	0.0039 ppm	0.0012 ppm	20.5710 ppm	0.0079 ppm	316.2144 ppm	5.3317 ppm
Concentration per Run	0.0015 ppm	0.0041 ppm	0.0009 ppm	20.6475 ppm	0.0077 ppm	319.6168 ppm	5.3627 ppm
Concentration per Run	0.0016 ppm	0.0035 ppm	0.0009 ppm	20.5677 ppm	0.0089 ppm	318.7002 ppm	5.2717 ppm
Recovery Percentage	0.000 %	0.000 %		102.977 %	0.000 %	106.059 %	106.440 %
Concentration RSD	5.8 %	7.2 %	16.6 %	0.2 %	7.9 %	0.6 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0002 ppm	0.0006 ppm	5.1245 [SIC 20]	460.3521 ppm	10.3998 [SIC 50]	52.3636 ppm	0.0224 ppm
Concentration per Run	-0.0004 ppm	0.0007 ppm	5.0206 ppm	459.9605 ppm	10.3763 ppm	52.4077 ppm	0.0229 ppm
Concentration per Run	0.0009 ppm	0.0005 ppm	5.1061 ppm	462.7163 ppm	10.4337 ppm	52.7107 ppm	0.0230 ppm
Concentration per Run	0.0002 ppm	0.0005 ppm	5.2469 ppm	458.3797 ppm	10.3893 ppm	51.9724 ppm	0.0213 ppm
Recovery Percentage		0.000 %	102.490 %	92.070 %	103.998 %	104.727 %	0.000 %
Concentration RSD	281.4 %	20.2 %	2.2 %	0.5 %	0.3 %	0.7 %	4.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0022 ppm	22.8871 [SIC 200]	0.0018 ppm	0.0020 ppm	0.0048 ppm	-0.0017 ppm	-0.0045 ppm
Concentration per Run	0.0030 ppm	22.8513 ppm	0.0020 ppm	0.0020 ppm	0.0056 ppm	-0.0026 ppm	-0.0049 ppm
Concentration per Run	0.0014 ppm	22.9765 ppm	0.0010 ppm	0.0020 ppm	0.0046 ppm	-0.0001 ppm	-0.0048 ppm
Concentration per Run	0.0022 ppm	22.8335 ppm	0.0023 ppm	0.0020 ppm	0.0043 ppm	-0.0023 ppm	-0.0039 ppm
Recovery Percentage	0.000 %	114.435 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	37.4 %	0.3 %	36.9 %	0.8 %	14.7 %	84.0 %	12.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	20.3030 [SIC 20]	97.7301 %	98.1742 %	92.0023 %	94.8711 %	96.1604 %	90.8718 %
Concentration per Run	20.3501 ppm	97.8711 %	98.0747 %	91.7907 %	94.8036 %	96.6823 %	90.9054 %
Concentration per Run	20.4152 ppm	97.5722 %	98.2735 %	91.6986 %	94.7817 %	97.0167 %	90.6450 %
Concentration per Run	20.1436 ppm	97.7472 %	98.1745 %	92.5178 %	95.0279 %	94.7821 %	91.0651 %
Recovery Percentage	101.515 %						
Concentration RSD	0.7 %	0.2 %	0.1 %	0.5 %	0.1 %	1.3 %	0.2 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: LLOQ .005
 Analysis started at: 6/24/2025 8:28:42 AM
 Rack: 1
 Vial: 1
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0051 ppm	0.0077 ppm	0.0036 ppm	0.0042 ppm	0.0051 ppm	0.0050 ppm	0.0144 ppm
Concentration per Run	0.0052 ppm	0.0080 ppm	0.0038 ppm	0.0048 ppm	0.0052 ppm	0.0050 ppm	0.0138 ppm
Concentration per Run	0.0052 ppm	0.0079 ppm	0.0037 ppm	0.0051 ppm	0.0051 ppm	0.0050 ppm	0.0141 ppm
Concentration per Run	0.0050 ppm	0.0072 ppm	0.0034 ppm	0.0027 ppm	0.0052 ppm	0.0050 ppm	0.0152 ppm
Recovery Percentage	102.395 %	0.000 %	72.567 %	0.000 %	0.000 %	100.007 %	0.000 %
Concentration RSD	1.6 %	5.4 %	6.1 %	31.0 %	1.4 %	0.9 %	5.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0050 ppm	0.0050 ppm	0.0054 ppm	0.0042 ppm	0.0064 ppm	0.0779 ppm	0.0052 ppm
Concentration per Run	0.0050 ppm	0.0049 ppm	0.0054 ppm	0.0041 ppm	0.0062 ppm	0.0753 ppm	0.0052 ppm
Concentration per Run	0.0050 ppm	0.0051 ppm	0.0056 ppm	0.0041 ppm	0.0055 ppm	0.0754 ppm	0.0050 ppm
Concentration per Run	0.0050 ppm	0.0049 ppm	0.0052 ppm	0.0045 ppm	0.0077 ppm	0.0831 ppm	0.0056 ppm
Recovery Percentage	100.109 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	0.9 %	2.5 %	3.7 %	5.7 %	17.4 %	5.8 %	5.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0064 ppm	0.0051 ppm	0.0046 ppm	0.1178 ppm	0.0057 ppm	0.0054 ppm	0.0069 ppm
Concentration per Run	0.0065 ppm	0.0051 ppm	0.0049 ppm	0.1169 ppm	0.0057 ppm	0.0051 ppm	0.0097 ppm
Concentration per Run	0.0073 ppm	0.0052 ppm	0.0045 ppm	0.1181 ppm	0.0055 ppm	0.0050 ppm	0.0041 ppm
Concentration per Run	0.0055 ppm	0.0052 ppm	0.0044 ppm	0.1182 ppm	0.0058 ppm	0.0061 ppm	0.0068 ppm
Recovery Percentage	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	13.8 %	0.5 %	6.2 %	0.6 %	2.7 %	10.7 %	40.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0064 ppm	0.0530 ppm	0.0053 ppm	0.0051 ppm	0.0055 ppm	0.0053 ppm	0.0052 ppm
Concentration per Run	0.0069 ppm	0.0527 ppm	0.0047 ppm	0.0051 ppm	0.0056 ppm	0.0043 ppm	0.0051 ppm
Concentration per Run	0.0051 ppm	0.0522 ppm	0.0053 ppm	0.0051 ppm	0.0055 ppm	0.0060 ppm	0.0052 ppm
Concentration per Run	0.0071 ppm	0.0542 ppm	0.0057 ppm	0.0051 ppm	0.0052 ppm	0.0058 ppm	0.0051 ppm
Recovery Percentage	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	16.9 %	2.0 %	10.0 %	0.3 %	3.7 %	17.0 %	1.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0054 ppm	113.5544 %	104.9331 %	110.8307 %	112.8223 %	106.2913 %	109.8701 %
Concentration per Run	0.0054 ppm	114.0761 %	104.7734 %	111.2445 %	112.5245 %	106.9768 %	110.6826 %
Concentration per Run	0.0054 ppm	112.7777 %	105.2771 %	110.6864 %	112.5856 %	106.0684 %	109.2482 %
Concentration per Run	0.0055 ppm	113.8093 %	104.7488 %	110.5612 %	113.3567 %	105.8287 %	109.6796 %
Recovery Percentage	108.245 %						
Concentration RSD	1.0 %	0.6 %	0.3 %	0.3 %	0.4 %	0.6 %	0.7 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: LLOQ .05
Analysis started at: 6/24/2025 8:32:15 AM
Rack: 1
Vial: 2
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0523 ppm	0.0487 ppm	0.0474 ppm	0.0504 ppm	0.0514 ppm	0.0509 ppm	0.0595 ppm
Concentration per Run	0.0524 ppm	0.0517 ppm	0.0466 ppm	0.0507 ppm	0.0517 ppm	0.0508 ppm	0.0601 ppm
Concentration per Run	0.0520 ppm	0.0457 ppm	0.0479 ppm	0.0501 ppm	0.0512 ppm	0.0510 ppm	0.0592 ppm
Concentration per Run	0.0523 ppm	0.0487 ppm	0.0477 ppm	0.0504 ppm	0.0514 ppm	0.0507 ppm	0.0590 ppm
Recovery Percentage	0.000 %	97.433 %	0.000 %	0.000 %	0.000 %	0.000 %	118.908 %
Concentration RSD	0.4 %	6.2 %	1.5 %	0.5 %	0.4 %	0.3 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0516 ppm	0.0520 ppm	0.0520 ppm	0.0514 ppm	0.0541 ppm	0.5423 ppm	0.0546 ppm
Concentration per Run	0.0517 ppm	0.0521 ppm	0.0522 ppm	0.0513 ppm	0.0547 ppm	0.5464 ppm	0.0552 ppm
Concentration per Run	0.0519 ppm	0.0523 ppm	0.0513 ppm	0.0515 ppm	0.0538 ppm	0.5352 ppm	0.0542 ppm
Concentration per Run	0.0512 ppm	0.0515 ppm	0.0523 ppm	0.0513 ppm	0.0537 ppm	0.5453 ppm	0.0543 ppm
Recovery Percentage	0.000 %	0.000 %	0.000 %	0.000 %	108.154 %	21.692 %	0.000 %
Concentration RSD	0.8 %	0.8 %	1.0 %	0.2 %	1.1 %	1.1 %	1.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0540 ppm	0.0508 ppm	0.0489 ppm	1.0663 ppm	0.0534 ppm	0.0516 ppm	0.0536 ppm
Concentration per Run	0.0538 ppm	0.0508 ppm	0.0487 ppm	1.0695 ppm	0.0540 ppm	0.0523 ppm	0.0513 ppm
Concentration per Run	0.0534 ppm	0.0511 ppm	0.0492 ppm	1.0570 ppm	0.0525 ppm	0.0513 ppm	0.0564 ppm
Concentration per Run	0.0547 ppm	0.0507 ppm	0.0488 ppm	1.0724 ppm	0.0539 ppm	0.0512 ppm	0.0530 ppm
Recovery Percentage	107.934 %	0.000 %	0.000 %	106.632 %	0.000 %	0.000 %	107.128 %
Concentration RSD	1.3 %	0.4 %	0.5 %	0.8 %	1.6 %	1.1 %	4.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0505 ppm	0.5568 ppm	0.0520 ppm	0.0512 ppm	0.0514 ppm	0.0502 ppm	0.0516 ppm
Concentration per Run	0.0487 ppm	0.5567 ppm	0.0526 ppm	0.0514 ppm	0.0520 ppm	0.0508 ppm	0.0516 ppm
Concentration per Run	0.0516 ppm	0.5595 ppm	0.0519 ppm	0.0511 ppm	0.0506 ppm	0.0500 ppm	0.0518 ppm
Concentration per Run	0.0511 ppm	0.5543 ppm	0.0515 ppm	0.0510 ppm	0.0516 ppm	0.0497 ppm	0.0514 ppm
Recovery Percentage	0.000 %	111.369 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	3.1 %	0.5 %	1.1 %	0.4 %	1.5 %	1.1 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0528 ppm	105.8544 %	104.3345 %	106.0263 %	104.8726 %	105.9970 %	105.0128 %
Concentration per Run	0.0535 ppm	104.8856 %	104.6450 %	105.6498 %	103.9062 %	107.0834 %	105.1404 %
Concentration per Run	0.0530 ppm	105.8522 %	103.8879 %	106.5622 %	104.7098 %	104.3373 %	105.2925 %
Concentration per Run	0.0520 ppm	106.8254 %	104.4707 %	105.8668 %	106.0018 %	106.5702 %	104.6057 %
Recovery Percentage	105.647 %						
Concentration RSD	1.5 %	0.9 %	0.4 %	0.4 %	1.0 %	1.4 %	0.3 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: LDR As 5
 Analysis started at: 6/24/2025 8:35:37 AM
 Rack: 1
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0012 ppm	4.9032 ppm	-0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0098 ppm
Concentration per Run	0.0002 ppm	0.0021 ppm	4.9159 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0095 ppm
Concentration per Run	0.0001 ppm	0.0009 ppm	4.8803 ppm	-0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0096 ppm
Concentration per Run	0.0000 ppm	0.0004 ppm	4.9133 ppm	-0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0103 ppm
Concentration RSD	127.0 %	72.4 %	0.4 %	76.8 %	302.9 %	55.6 %	4.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0018 ppm	0.0100 ppm	-0.0001 ppm
Concentration per Run	0.0000 ppm	-0.0007 ppm	-0.0001 ppm	-0.0003 ppm	0.0022 ppm	0.0115 ppm	-0.0006 ppm
Concentration per Run	0.0000 ppm	-0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0018 ppm	0.0073 ppm	-0.0001 ppm
Concentration per Run	0.0000 ppm	0.0002 ppm	-0.0001 ppm	-0.0002 ppm	0.0015 ppm	0.0112 ppm	0.0003 ppm
Concentration RSD	289.4 %	146.9 %	308.1 %	60.4 %	18.8 %	23.5 %	400.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0009 ppm	0.0001 ppm	-0.0004 ppm	0.0112 ppm	0.0001 ppm	0.0001 ppm	0.0061 ppm
Concentration per Run	0.0020 ppm	0.0003 ppm	-0.0006 ppm	0.0086 ppm	-0.0001 ppm	0.0002 ppm	0.0075 ppm
Concentration per Run	0.0008 ppm	0.0001 ppm	-0.0006 ppm	0.0137 ppm	0.0006 ppm	-0.0001 ppm	0.0084 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0114 ppm	0.0000 ppm	0.0001 ppm	0.0024 ppm
Concentration RSD	110.1 %	89.7 %	112.2 %	22.4 %	275.0 %	221.4 %	52.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0018 ppm	0.0012 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run	0.0022 ppm	0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run	0.0031 ppm	0.0014 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run	0.0003 ppm	0.0010 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0001 ppm
Concentration RSD	78.3 %	17.0 %	46.8 %	31.0 %	65.6 %	27.4 %	66.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	107.6327 %	106.9631 %	108.0087 %	107.3212 %	107.3084 %	108.7017 %
Concentration per Run	0.0011 ppm	107.4632 %	106.3675 %	106.6162 %	107.0805 %	107.7129 %	108.1462 %
Concentration per Run	0.0012 ppm	107.0890 %	107.7541 %	108.7940 %	106.6567 %	107.9171 %	108.8085 %
Concentration per Run	0.0014 ppm	108.3458 %	106.7677 %	108.6158 %	108.2263 %	106.2950 %	109.1503 %
Concentration RSD	14.0 %	0.6 %	0.7 %	1.1 %	0.8 %	0.8 %	0.5 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: IEC V 10
Analysis started at: 6/24/2025 8:39:00 AM
Rack: 1
Vial: 4
Comment: LDR +/-10%

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0091 ppm	-0.0031 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0094 ppm
Concentration per Run	-0.0003 ppm	0.0082 ppm	-0.0016 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0102 ppm
Concentration per Run	0.0000 ppm	0.0076 ppm	-0.0045 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0079 ppm
Concentration per Run	0.0001 ppm	0.0114 ppm	-0.0031 ppm	-0.0007 ppm	0.0000 ppm	-0.0001 ppm	0.0102 ppm
Recovery Percentage	-0.900 %	9.055 %	-61.121 %	-1.465 %	0.343 %	-1.541 %	9.430 %
Concentration RSD	438.3 %	22.2 %	46.8 %	164.8 %	29.3 %	45.3 %	14.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0012 ppm	0.0089 ppm	0.0045 ppm	0.0001 ppm
Concentration per Run	-0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0012 ppm	0.0069 ppm	0.0011 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0014 ppm	0.0123 ppm	0.0162 ppm	-0.0002 ppm
Concentration per Run	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0075 ppm	-0.0039 ppm	0.0005 ppm
Recovery Percentage	-0.987 %	0.176 %	-1.990 %	12.150 %	17.801 %	0.179 %	0.879 %
Concentration RSD	195.0 %	526.0 %	97.0 %	11.4 %	33.3 %	233.4 %	406.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0041 ppm	0.0001 ppm	-0.0006 ppm	0.0112 ppm	0.0002 ppm	-0.0005 ppm	0.0034 ppm
Concentration per Run	0.0036 ppm	0.0002 ppm	-0.0004 ppm	0.0091 ppm	0.0002 ppm	0.0002 ppm	0.0034 ppm
Concentration per Run	0.0028 ppm	0.0001 ppm	-0.0007 ppm	0.0108 ppm	0.0001 ppm	-0.0005 ppm	0.0033 ppm
Concentration per Run	0.0058 ppm	0.0001 ppm	-0.0006 ppm	0.0136 ppm	0.0002 ppm	-0.0011 ppm	0.0034 ppm
Recovery Percentage	4.067 %	0.869 %	-1.119 %	0.559 %	0.659 %	-4.745 %	6.761 %
Concentration RSD	38.2 %	64.3 %	24.9 %	20.4 %	56.2 %	136.3 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0014 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0013 ppm	10.2419 [SIC 10]
Concentration per Run	0.0002 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0007 ppm	0.0002 ppm	10.3361 ppm
Concentration per Run	0.0025 ppm	-0.0009 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0056 ppm	10.2797 ppm
Concentration per Run	0.0015 ppm	0.0026 ppm	0.0010 ppm	0.0001 ppm	0.0004 ppm	-0.0018 ppm	10.1100 ppm
Recovery Percentage	14.326 %	0.134 %	0.285 %	0.249 %	3.941 %	6.647 %	102,419.269 %
Concentration RSD	80.7 %	270.3 %	533.3 %	137.0 %	72.9 %	288.1 %	1.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	106.6159 %	105.4857 %	106.0691 %	105.8763 %	107.0214 %	106.4966 %
Concentration per Run	0.0007 ppm	106.1811 %	105.4592 %	105.9498 %	105.8345 %	107.1732 %	105.1212 %
Concentration per Run	0.0007 ppm	105.9406 %	105.4788 %	105.4312 %	105.4552 %	107.2945 %	105.8236 %
Concentration per Run	0.0006 ppm	107.7259 %	105.5192 %	106.8263 %	106.3390 %	106.5965 %	108.5451 %
Recovery Percentage	13.016 %						
Concentration RSD	8.9 %	0.9 %	0.0 %	0.7 %	0.4 %	0.3 %	1.7 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: IEC AI 500
 Analysis started at: 6/24/2025 8:42:23 AM
 Rack: 1
 Vial: 5
 Comment: LDR +/-10%

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	491.2561 ppm	-0.0014 ppm	0.0002 ppm	0.0028 ppm	0.0000 ppm	0.0772 ppm
Concentration per Run	-0.0006 ppm	490.0424 ppm	-0.0017 ppm	0.0003 ppm	0.0027 ppm	0.0000 ppm	0.0778 ppm
Concentration per Run	-0.0003 ppm	491.1023 ppm	-0.0006 ppm	-0.0032 ppm	0.0028 ppm	0.0000 ppm	0.0763 ppm
Concentration per Run	0.0000 ppm	492.6236 ppm	-0.0019 ppm	0.0036 ppm	0.0028 ppm	0.0000 ppm	0.0775 ppm
Recovery Percentage	-5.931 %	491,256.103 %	-27.154 %	0.743 %	27.907 %	0.467 %	77.169 %
Concentration RSD	91.7 %	0.3 %	51.3 %	1,507.0 %	2.5 %	80.4 %	1.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0007 ppm	0.0001 ppm	0.0008 ppm	-0.0042 ppm	-0.0234 ppm	0.0161 ppm	0.0001 ppm
Concentration per Run	-0.0008 ppm	0.0006 ppm	0.0007 ppm	-0.0045 ppm	-0.0232 ppm	0.0142 ppm	-0.0002 ppm
Concentration per Run	-0.0007 ppm	-0.0006 ppm	0.0008 ppm	-0.0042 ppm	-0.0237 ppm	0.0183 ppm	-0.0001 ppm
Concentration per Run	-0.0006 ppm	0.0002 ppm	0.0010 ppm	-0.0041 ppm	-0.0234 ppm	0.0159 ppm	0.0007 ppm
Recovery Percentage	-18.609 %	0.645 %	8.144 %	-42.488 %	-46.871 %	0.644 %	0.997 %
Concentration RSD	13.8 %	936.9 %	20.3 %	5.0 %	1.1 %	12.8 %	483.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0042 ppm	0.0005 ppm	-0.0011 ppm	0.1177 ppm	0.0008 ppm	-0.0019 ppm	-0.0059 ppm
Concentration per Run	0.0024 ppm	0.0005 ppm	-0.0013 ppm	0.1161 ppm	0.0012 ppm	-0.0018 ppm	-0.0072 ppm
Concentration per Run	0.0039 ppm	0.0005 ppm	-0.0006 ppm	0.1174 ppm	0.0005 ppm	-0.0016 ppm	-0.0034 ppm
Concentration per Run	0.0064 ppm	0.0005 ppm	-0.0013 ppm	0.1196 ppm	0.0007 ppm	-0.0022 ppm	-0.0069 ppm
Recovery Percentage	4.231 %	4.875 %	-2.153 %	5.885 %	3.251 %	-18.664 %	-11.706 %
Concentration RSD	47.8 %	7.9 %	34.8 %	1.5 %	47.0 %	16.4 %	35.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0016 ppm	-0.0228 ppm	0.0010 ppm	0.0002 ppm	0.0009 ppm	0.0032 ppm	0.0007 ppm
Concentration per Run	0.0017 ppm	-0.0231 ppm	0.0002 ppm	0.0001 ppm	0.0007 ppm	0.0037 ppm	0.0008 ppm
Concentration per Run	0.0011 ppm	-0.0195 ppm	0.0012 ppm	0.0002 ppm	0.0007 ppm	0.0021 ppm	0.0006 ppm
Concentration per Run	0.0021 ppm	-0.0258 ppm	0.0015 ppm	0.0002 ppm	0.0011 ppm	0.0037 ppm	0.0006 ppm
Recovery Percentage	16.216 %	-4.555 %	1.924 %	1.602 %	8.635 %	15.871 %	7.045 %
Concentration RSD	29.8 %	13.9 %	71.7 %	7.8 %	26.5 %	28.7 %	16.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	101.2570 %	103.7408 %	103.0517 %	100.5074 %	118.6876 %	112.6113 %
Concentration per Run	0.0006 ppm	99.5440 %	103.8772 %	103.5993 %	99.1061 %	119.3736 %	112.1711 %
Concentration per Run	0.0008 ppm	101.8564 %	103.6171 %	102.3137 %	101.1790 %	118.0992 %	114.6590 %
Concentration per Run	0.0008 ppm	102.3705 %	103.7280 %	103.2420 %	101.2371 %	118.5901 %	111.0039 %
Recovery Percentage	15.038 %						
Concentration RSD	13.8 %	1.5 %	0.1 %	0.6 %	1.2 %	0.5 %	1.7 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: IEC Cr 20
 Analysis started at: 6/24/2025 9:09:37 AM
 Rack: 1
 Vial: 6
 Comment: LDR +/-10%

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	0.0003 ppm	0.0003 ppm	-0.0003 ppm	0.0006 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run	-0.0002 ppm	-0.0004 ppm	0.0003 ppm	-0.0006 ppm	0.0006 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run	-0.0001 ppm	0.0006 ppm	-0.0016 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run	-0.0004 ppm	0.0006 ppm	0.0022 ppm	-0.0004 ppm	0.0006 ppm	0.0000 ppm	0.0028 ppm
Recovery Percentage	-5.169 %	0.256 %	5.517 %	-1.004 %	6.023 %	0.178 %	2.270 %
Concentration RSD	61.3 %	226.9 %	678.1 %	107.3 %	1.7 %	43.6 %	21.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0002 ppm	-0.0012 ppm	20.1953 ppm	-0.0017 ppm	0.0271 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run	-0.0002 ppm	-0.0013 ppm	20.1957 ppm	-0.0017 ppm	0.0272 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run	-0.0001 ppm	-0.0013 ppm	20.3223 ppm	-0.0019 ppm	0.0270 ppm	0.0010 ppm	-0.0003 ppm
Concentration per Run	-0.0001 ppm	-0.0011 ppm	20.0678 ppm	-0.0017 ppm	0.0272 ppm	0.0021 ppm	0.0006 ppm
Recovery Percentage	-3.806 %	-12.332 %	201,952.594 %	-17.405 %	54.259 %	0.047 %	1.160 %
Concentration RSD	19.7 %	9.4 %	0.6 %	7.3 %	0.5 %	73.6 %	401.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0009 ppm	0.0007 ppm	0.0005 ppm	0.0246 ppm	0.0005 ppm	-0.0001 ppm	0.0011 ppm
Concentration per Run	-0.0016 ppm	0.0007 ppm	0.0005 ppm	0.0217 ppm	0.0007 ppm	0.0002 ppm	0.0013 ppm
Concentration per Run	-0.0002 ppm	0.0007 ppm	0.0006 ppm	0.0258 ppm	0.0007 ppm	-0.0003 ppm	-0.0043 ppm
Concentration per Run	-0.0008 ppm	0.0007 ppm	0.0003 ppm	0.0265 ppm	0.0001 ppm	0.0000 ppm	0.0064 ppm
Recovery Percentage	-0.867 %	6.741 %	0.962 %	1.232 %	1.967 %	-0.538 %	2.258 %
Concentration RSD	81.1 %	2.9 %	39.3 %	10.5 %	75.7 %	404.5 %	473.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0017 ppm	0.0073 ppm	0.0005 ppm	0.0009 ppm	0.0003 ppm	-0.0014 ppm	-0.0058 ppm
Concentration per Run	0.0013 ppm	0.0110 ppm	0.0006 ppm	0.0009 ppm	0.0003 ppm	-0.0016 ppm	-0.0056 ppm
Concentration per Run	0.0018 ppm	0.0056 ppm	0.0009 ppm	0.0008 ppm	0.0002 ppm	-0.0007 ppm	-0.0059 ppm
Concentration per Run	0.0020 ppm	0.0053 ppm	-0.0001 ppm	0.0009 ppm	0.0004 ppm	-0.0019 ppm	-0.0058 ppm
Recovery Percentage	17.277 %	1.466 %	0.935 %	8.765 %	3.280 %	-7.089 %	-57.773 %
Concentration RSD	20.5 %	43.7 %	108.5 %	4.0 %	32.1 %	45.2 %	3.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	114.2276 %	105.0642 %	110.4619 %	112.2131 %	105.5239 %	111.1759 %
Concentration per Run	-0.0003 ppm	114.9052 %	104.6075 %	110.7509 %	112.9024 %	104.1642 %	111.2225 %
Concentration per Run	-0.0003 ppm	113.7052 %	105.4619 %	111.1263 %	111.8724 %	105.8414 %	111.8505 %
Concentration per Run	-0.0003 ppm	114.0723 %	105.1232 %	109.5084 %	111.8645 %	106.5661 %	110.4546 %
Recovery Percentage	-5.922 %						
Concentration RSD	10.2 %	0.5 %	0.4 %	0.8 %	0.5 %	1.2 %	0.6 %

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LabBook: WG2082583_06242025T8.imexp

Sample: CCV
 Analysis started at: 6/24/2025 9:21:17 AM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.4972 ppm	0.4736 ppm	0.4580 ppm	0.4820 ppm	0.5006 ppm	0.5060 ppm	0.4980 ppm
Concentration per Run	0.4954 ppm	0.4727 ppm	0.4568 ppm	0.4795 ppm	0.5030 ppm	0.5056 ppm	0.4942 ppm
Concentration per Run	0.4976 ppm	0.4722 ppm	0.4595 ppm	0.4816 ppm	0.4982 ppm	0.5059 ppm	0.5022 ppm
Concentration per Run	0.4985 ppm	0.4760 ppm	0.4578 ppm	0.4848 ppm	0.5007 ppm	0.5064 ppm	0.4977 ppm
Recovery Percentage	99.431 %	94.724 %	91.601 %	96.396 %	100.124 %	101.197 %	99.605 %
Concentration RSD	0.3 %	0.4 %	0.3 %	0.6 %	0.5 %	0.1 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4819 ppm	0.4940 ppm	0.5031 ppm	0.5043 ppm	0.5033 ppm	5.0845 ppm	0.4964 ppm
Concentration per Run	0.4796 ppm	0.4928 ppm	0.5014 ppm	0.5023 ppm	0.5038 ppm	5.0762 ppm	0.4973 ppm
Concentration per Run	0.4813 ppm	0.4935 ppm	0.5050 ppm	0.5052 ppm	0.5039 ppm	5.0716 ppm	0.4897 ppm
Concentration per Run	0.4849 ppm	0.4956 ppm	0.5029 ppm	0.5055 ppm	0.5024 ppm	5.1057 ppm	0.5022 ppm
Recovery Percentage	96.384 %	98.794 %	100.618 %	100.869 %	100.668 %	101.690 %	99.278 %
Concentration RSD	0.6 %	0.3 %	0.4 %	0.4 %	0.2 %	0.4 %	1.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.4929 ppm	0.5063 ppm	0.4818 ppm	10.2056 ppm	0.5014 ppm	0.4984 ppm	0.4853 ppm
Concentration per Run	0.4886 ppm	0.5038 ppm	0.4785 ppm	10.1418 ppm	0.4988 ppm	0.4980 ppm	0.4797 ppm
Concentration per Run	0.4979 ppm	0.5074 ppm	0.4809 ppm	10.2364 ppm	0.5037 ppm	0.4978 ppm	0.4908 ppm
Concentration per Run	0.4922 ppm	0.5077 ppm	0.4861 ppm	10.2386 ppm	0.5016 ppm	0.4995 ppm	0.4856 ppm
Recovery Percentage	98.583 %	101.258 %	96.361 %	102.056 %	100.274 %	99.685 %	97.068 %
Concentration RSD	0.9 %	0.4 %	0.8 %	0.5 %	0.5 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4639 ppm	5.3825 ppm	0.5068 ppm	0.4966 ppm	0.5143 ppm	0.5077 ppm	0.5078 ppm
Concentration per Run	0.4627 ppm	5.3679 ppm	0.5054 ppm	0.4977 ppm	0.5125 ppm	0.5057 ppm	0.5062 ppm
Concentration per Run	0.4650 ppm	5.3958 ppm	0.5104 ppm	0.4957 ppm	0.5184 ppm	0.5072 ppm	0.5082 ppm
Concentration per Run	0.4640 ppm	5.3837 ppm	0.5047 ppm	0.4965 ppm	0.5121 ppm	0.5102 ppm	0.5090 ppm
Recovery Percentage	92.782 %	102.523 %	101.363 %	99.329 %	102.869 %	101.545 %	101.556 %
Concentration RSD	0.3 %	0.3 %	0.6 %	0.2 %	0.7 %	0.4 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4857 ppm	114.1145 %	105.4702 %	109.4317 %	110.3972 %	104.9466 %	109.4543 %
Concentration per Run	0.4836 ppm	114.8322 %	106.0142 %	110.1119 %	110.7815 %	105.0373 %	109.4592 %
Concentration per Run	0.4874 ppm	114.3537 %	105.1894 %	109.1534 %	110.5150 %	104.9830 %	109.2760 %
Concentration per Run	0.4860 ppm	113.1577 %	105.2069 %	109.0297 %	109.8951 %	104.8196 %	109.6277 %
Recovery Percentage	97.133 %						
Concentration RSD	0.4 %	0.8 %	0.4 %	0.5 %	0.4 %	0.1 %	0.2 %

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LabBook: WG2082583_06242025T8.imexp

Sample: CCB
 Analysis started at: 6/24/2025 9:24:52 AM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0005 ppm	-0.0015 ppm	0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run	-0.0006 ppm	-0.0031 ppm	-0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run	-0.0004 ppm	0.0012 ppm	0.0010 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run	-0.0005 ppm	-0.0024 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0044 ppm
Recovery Percentage	-9.834 %	-1.463 %	8.759 %	-0.435 %	0.621 %	0.513 %	3.712 %
Concentration RSD	25.3 %	156.4 %	203.8 %	172.0 %	45.4 %	100.5 %	19.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0006 ppm	0.0087 ppm	0.0002 ppm
Concentration per Run	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0012 ppm	0.0024 ppm	0.0003 ppm
Concentration per Run	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0073 ppm	-0.0001 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0004 ppm	0.0165 ppm	0.0004 ppm
Recovery Percentage	0.611 %	0.282 %	1.553 %	2.094 %	1.253 %	0.350 %	1.891 %
Concentration RSD	76.5 %	563.6 %	84.5 %	152.1 %	80.8 %	81.7 %	122.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0011 ppm	0.0024 ppm	0.0002 ppm	0.0005 ppm	-0.0006 ppm
Concentration per Run	-0.0026 ppm	-0.0001 ppm	0.0011 ppm	0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0014 ppm
Concentration per Run	0.0016 ppm	-0.0001 ppm	0.0008 ppm	0.0056 ppm	-0.0001 ppm	0.0011 ppm	-0.0030 ppm
Concentration per Run	0.0003 ppm	0.0001 ppm	0.0015 ppm	0.0014 ppm	0.0005 ppm	-0.0002 ppm	-0.0003 ppm
Recovery Percentage	-0.227 %	-0.342 %	2.247 %	0.120 %	0.995 %	4.655 %	-1.244 %
Concentration RSD	943.3 %	247.7 %	29.1 %	119.9 %	125.8 %	140.8 %	361.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0026 ppm	-0.0003 ppm	0.0009 ppm	0.0000 ppm	0.0008 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run	0.0028 ppm	0.0007 ppm	0.0006 ppm	0.0000 ppm	0.0007 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run	0.0028 ppm	-0.0012 ppm	0.0010 ppm	0.0000 ppm	0.0008 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run	0.0021 ppm	-0.0005 ppm	0.0011 ppm	0.0000 ppm	0.0007 ppm	0.0011 ppm	0.0003 ppm
Recovery Percentage	25.980 %	-0.069 %	1.795 %	0.019 %	7.506 %	3.941 %	1.452 %
Concentration RSD	15.3 %	280.4 %	25.5 %	851.5 %	2.5 %	44.7 %	135.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	98.6350 %	99.8084 %	98.1174 %	99.2246 %	102.1344 %	100.5680 %
Concentration per Run	0.0002 ppm	98.3503 %	99.7090 %	97.1300 %	99.0523 %	102.9223 %	100.2338 %
Concentration per Run	0.0001 ppm	98.5847 %	100.1245 %	98.7067 %	99.4117 %	102.1832 %	100.4841 %
Concentration per Run	0.0001 ppm	98.9699 %	99.5918 %	98.5157 %	99.2098 %	101.2977 %	100.9862 %
Recovery Percentage	2.839 %						
Concentration RSD	33.1 %	0.3 %	0.3 %	0.9 %	0.2 %	0.8 %	0.4 %

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LabBook: WG2082583_06242025T8.imexp

Sample: WG2082423-1 WG2082423
 Analysis started at: 6/24/2025 9:35:29 AM
 Rack: 1
 Vial: 7
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0004 ppm	0.0083 ppm	0.0002 ppm	0.0004 ppm	0.0012 ppm	0.0000 ppm	0.2930 ppm
Concentration per Run	-0.0004 ppm	0.0068 ppm	-0.0001 ppm	0.0002 ppm	0.0012 ppm	0.0000 ppm	0.2935 ppm
Concentration per Run	-0.0003 ppm	0.0108 ppm	0.0006 ppm	0.0009 ppm	0.0012 ppm	0.0000 ppm	0.2954 ppm
Concentration per Run	-0.0004 ppm	0.0073 ppm	0.0002 ppm	0.0000 ppm	0.0012 ppm	0.0000 ppm	0.2901 ppm
Concentration RSD	25.7 %	26.2 %	140.8 %	125.9 %	0.8 %	26.2 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0838 ppm	0.0400 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	-0.0002 ppm	0.0007 ppm	-0.0001 ppm	0.0851 ppm	0.0389 ppm	-0.0004 ppm
Concentration per Run	0.0000 ppm	0.0006 ppm	0.0003 ppm	-0.0001 ppm	0.0834 ppm	0.0373 ppm	0.0003 ppm
Concentration per Run	0.0001 ppm	-0.0002 ppm	0.0004 ppm	-0.0001 ppm	0.0828 ppm	0.0438 ppm	0.0000 ppm
Concentration RSD	38.6 %	619.9 %	47.5 %	41.5 %	1.4 %	8.5 %	1,290.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0618 ppm	0.0009 ppm	0.0003 ppm	0.4729 ppm	0.0002 ppm	0.0007 ppm	0.0023 ppm
Concentration per Run	0.0616 ppm	0.0009 ppm	0.0005 ppm	0.4697 ppm	0.0000 ppm	0.0007 ppm	0.0011 ppm
Concentration per Run	0.0617 ppm	0.0008 ppm	0.0002 ppm	0.4745 ppm	-0.0003 ppm	0.0010 ppm	0.0029 ppm
Concentration per Run	0.0621 ppm	0.0009 ppm	0.0002 ppm	0.4744 ppm	0.0008 ppm	0.0003 ppm	0.0029 ppm
Concentration RSD	0.4 %	6.9 %	57.4 %	0.6 %	347.6 %	46.7 %	45.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0014 ppm	0.0208 ppm	-0.0002 ppm	0.0025 ppm	0.0008 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run	0.0009 ppm	0.0216 ppm	-0.0004 ppm	0.0025 ppm	0.0009 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run	0.0020 ppm	0.0208 ppm	0.0000 ppm	0.0024 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run	0.0012 ppm	0.0201 ppm	-0.0003 ppm	0.0025 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm
Concentration RSD	40.9 %	3.5 %	94.0 %	2.5 %	9.2 %	167.3 %	44.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0042 ppm	109.5664 %	103.5551 %	107.1210 %	108.7527 %	104.3770 %	106.9530 %
Concentration per Run	0.0042 ppm	109.7090 %	102.8373 %	106.5118 %	109.4349 %	104.0573 %	106.2902 %
Concentration per Run	0.0039 ppm	109.5992 %	103.4408 %	108.1142 %	108.4620 %	103.8495 %	107.3582 %
Concentration per Run	0.0044 ppm	109.3910 %	104.3871 %	106.7369 %	108.3612 %	105.2243 %	107.2105 %
Concentration RSD	5.2 %	0.1 %	0.8 %	0.8 %	0.5 %	0.7 %	0.5 %

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LabBook: WG2082583_06242025T8.imexp

Sample: WG2082423-2 WG2082423
 Analysis started at: 6/24/2025 9:39:04 AM
 Rack: 1
 Vial: 8
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0582 ppm	2.2636 ppm	0.1215 ppm	1.0414 ppm	2.2631 ppm	0.0550 ppm	10.3262 ppm
Concentration per Run	0.0586 ppm	2.2766 ppm	0.1206 ppm	1.0448 ppm	2.2549 ppm	0.0551 ppm	10.3435 ppm
Concentration per Run	0.0583 ppm	2.2576 ppm	0.1213 ppm	1.0464 ppm	2.2741 ppm	0.0549 ppm	10.2946 ppm
Concentration per Run	0.0575 ppm	2.2566 ppm	0.1226 ppm	1.0331 ppm	2.2604 ppm	0.0551 ppm	10.3406 ppm
Concentration RSD	1.0 %	0.5 %	0.8 %	0.7 %	0.4 %	0.2 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0525 ppm	0.5546 ppm	0.2256 ppm	0.2847 ppm	1.1288 ppm	10.5842 ppm	-0.0004 ppm
Concentration per Run	0.0529 ppm	0.5565 ppm	0.2284 ppm	0.2848 ppm	1.1299 ppm	10.5745 ppm	-0.0002 ppm
Concentration per Run	0.0525 ppm	0.5541 ppm	0.2255 ppm	0.2851 ppm	1.1264 ppm	10.5690 ppm	-0.0008 ppm
Concentration per Run	0.0521 ppm	0.5531 ppm	0.2230 ppm	0.2842 ppm	1.1300 ppm	10.6090 ppm	-0.0001 ppm
Concentration RSD	0.8 %	0.3 %	1.2 %	0.2 %	0.2 %	0.2 %	92.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	10.4606 ppm	0.5510 ppm	0.9753 ppm	10.8173 ppm	0.5684 ppm	0.5441 ppm	0.4504 ppm
Concentration per Run	10.5838 ppm	0.5518 ppm	0.9746 ppm	10.8539 ppm	0.5722 ppm	0.5428 ppm	0.4504 ppm
Concentration per Run	10.4711 ppm	0.5495 ppm	0.9731 ppm	10.8047 ppm	0.5679 ppm	0.5433 ppm	0.4494 ppm
Concentration per Run	10.3269 ppm	0.5517 ppm	0.9782 ppm	10.7934 ppm	0.5651 ppm	0.5461 ppm	0.4514 ppm
Concentration RSD	1.2 %	0.2 %	0.3 %	0.3 %	0.6 %	0.3 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1248 ppm	1.2184 ppm	1.0155 [SIC 20]	1.0169 ppm	1.0715 ppm	0.1248 ppm	0.5810 ppm
Concentration per Run	0.1246 ppm	1.2253 ppm	1.0171 ppm	1.0137 ppm	1.0805 ppm	0.1261 ppm	0.5834 ppm
Concentration per Run	0.1239 ppm	1.2196 ppm	1.0183 ppm	1.0181 ppm	1.0712 ppm	0.1247 ppm	0.5811 ppm
Concentration per Run	0.1260 ppm	1.2102 ppm	1.0110 ppm	1.0189 ppm	1.0627 ppm	0.1236 ppm	0.5783 ppm
Concentration RSD	0.9 %	0.6 %	0.4 %	0.3 %	0.8 %	1.0 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5641 ppm	100.1643 %	99.7881 %	95.9460 %	98.1809 %	99.6301 %	97.9463 %
Concentration per Run	0.5680 ppm	99.2536 %	99.6334 %	95.8190 %	97.2859 %	100.0568 %	98.0358 %
Concentration per Run	0.5623 ppm	100.2024 %	99.8478 %	96.3462 %	98.0235 %	98.8569 %	97.7283 %
Concentration per Run	0.5619 ppm	101.0369 %	99.8829 %	95.6728 %	99.2332 %	99.9765 %	98.0747 %
Concentration RSD	0.6 %	0.9 %	0.1 %	0.4 %	1.0 %	0.7 %	0.2 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: blank spot
Analysis started at: 6/24/2025 9:42:29 AM
Rack: 1
Vial: 14
Comment: <Comment>

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2539226-01 WG2082423
 Analysis started at: 6/24/2025 9:45:51 AM
 Rack: 1
 Vial: 9
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	0.4697 ppm	0.0010 ppm	0.0350 ppm	0.0489 ppm	0.0000 ppm	16.9051 ppm
Concentration per Run	-0.0003 ppm	0.4748 ppm	0.0008 ppm	0.0345 ppm	0.0492 ppm	0.0000 ppm	16.9627 ppm
Concentration per Run	-0.0004 ppm	0.4690 ppm	0.0010 ppm	0.0355 ppm	0.0492 ppm	0.0000 ppm	16.8834 ppm
Concentration per Run	-0.0002 ppm	0.4654 ppm	0.0011 ppm	0.0351 ppm	0.0485 ppm	0.0000 ppm	16.8691 ppm
Concentration RSD	39.1 %	1.0 %	16.6 %	1.6 %	0.9 %	17.4 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0157 ppm	0.4083 ppm	8.2875 ppm	0.0026 ppm
Concentration per Run	0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0156 ppm	0.4086 ppm	8.3287 ppm	0.0029 ppm
Concentration per Run	-0.0001 ppm	-0.0001 ppm	0.0013 ppm	0.0157 ppm	0.4075 ppm	8.2919 ppm	0.0028 ppm
Concentration per Run	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0160 ppm	0.4087 ppm	8.2419 ppm	0.0023 ppm
Concentration RSD	821.0 %	278.6 %	35.3 %	1.3 %	0.2 %	0.5 %	10.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	1.1456 ppm	0.0261 ppm	0.0110 ppm	43.4004 ppm	0.0029 ppm	0.0148 ppm	0.0069 ppm
Concentration per Run	1.1561 ppm	0.0263 ppm	0.0117 ppm	43.4427 ppm	0.0029 ppm	0.0142 ppm	0.0074 ppm
Concentration per Run	1.1411 ppm	0.0261 ppm	0.0109 ppm	43.1766 ppm	0.0023 ppm	0.0156 ppm	0.0065 ppm
Concentration per Run	1.1396 ppm	0.0261 ppm	0.0105 ppm	43.5817 ppm	0.0036 ppm	0.0147 ppm	0.0067 ppm
Concentration RSD	0.8 %	0.4 %	5.4 %	0.5 %	21.5 %	4.7 %	6.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0031 ppm	1.2760 ppm	0.0028 ppm	0.1816 ppm	0.0116 ppm	0.0003 ppm	0.0038 ppm
Concentration per Run	0.0037 ppm	1.2880 ppm	0.0030 ppm	0.1817 ppm	0.0116 ppm	0.0002 ppm	0.0039 ppm
Concentration per Run	0.0046 ppm	1.2761 ppm	0.0026 ppm	0.1830 ppm	0.0117 ppm	-0.0011 ppm	0.0036 ppm
Concentration per Run	0.0010 ppm	1.2638 ppm	0.0028 ppm	0.1802 ppm	0.0114 ppm	0.0019 ppm	0.0038 ppm
Concentration RSD	61.3 %	0.9 %	6.8 %	0.7 %	1.0 %	479.6 %	3.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0158 ppm	104.2563 %	103.8792 %	101.8068 %	103.0680 %	103.9428 %	103.2985 %
Concentration per Run	0.0158 ppm	103.5871 %	103.4141 %	102.2409 %	102.8192 %	103.6682 %	104.5865 %
Concentration per Run	0.0158 ppm	104.3769 %	104.2543 %	101.3937 %	102.8526 %	103.5747 %	102.7426 %
Concentration per Run	0.0159 ppm	104.8049 %	103.9692 %	101.7857 %	103.5321 %	104.5856 %	102.5664 %
Concentration RSD	0.3 %	0.6 %	0.4 %	0.4 %	0.4 %	0.5 %	1.1 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2082423-3 WG2082423
 Analysis started at: 6/24/2025 9:49:15 AM
 Rack: 1
 Vial: 10
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0618 ppm	2.9090 ppm	0.1317 ppm	1.1488 ppm	2.4431 ppm	0.0585 ppm	28.0159 ppm
Concentration per Run	0.0624 ppm	2.8816 ppm	0.1319 ppm	1.1540 ppm	2.4218 ppm	0.0583 ppm	27.9124 ppm
Concentration per Run	0.0617 ppm	2.9199 ppm	0.1305 ppm	1.1493 ppm	2.4451 ppm	0.0588 ppm	28.1457 ppm
Concentration per Run	0.0614 ppm	2.9255 ppm	0.1326 ppm	1.1430 ppm	2.4624 ppm	0.0586 ppm	27.9895 ppm
Concentration RSD	0.8 %	0.8 %	0.8 %	0.5 %	0.8 %	0.4 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0549 ppm	0.5817 ppm	0.2376 ppm	0.3213 ppm	1.6094 ppm	19.9575 ppm	0.0023 ppm
Concentration per Run	0.0557 ppm	0.5870 ppm	0.2386 ppm	0.3231 ppm	1.6032 ppm	19.7940 ppm	0.0024 ppm
Concentration per Run	0.0548 ppm	0.5823 ppm	0.2374 ppm	0.3214 ppm	1.6123 ppm	20.0199 ppm	0.0024 ppm
Concentration per Run	0.0542 ppm	0.5757 ppm	0.2368 ppm	0.3194 ppm	1.6127 ppm	20.0586 ppm	0.0020 ppm
Concentration RSD	1.4 %	1.0 %	0.4 %	0.6 %	0.3 %	0.7 %	9.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	12.0169 ppm	0.6005 ppm	1.0268 [SIC 20]	56.5919 ppm	0.5981 ppm	0.5768 ppm	0.4953 ppm
Concentration per Run	12.0973 ppm	0.5972 ppm	1.0282 ppm	55.9232 ppm	0.6029 ppm	0.5744 ppm	0.4936 ppm
Concentration per Run	11.9344 ppm	0.6036 ppm	1.0266 ppm	56.6281 ppm	0.5965 ppm	0.5803 ppm	0.4967 ppm
Concentration per Run	12.0189 ppm	0.6007 ppm	1.0256 ppm	57.2244 ppm	0.5950 ppm	0.5758 ppm	0.4957 ppm
Concentration RSD	0.7 %	0.5 %	0.1 %	1.2 %	0.7 %	0.5 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1340 ppm	2.6936 ppm	1.0474 [SIC 20]	1.2542 ppm	1.1441 ppm	0.1300 ppm	0.6179 ppm
Concentration per Run	0.1352 ppm	2.7224 ppm	1.0541 ppm	1.2427 ppm	1.1461 ppm	0.1297 ppm	0.6225 ppm
Concentration per Run	0.1343 ppm	2.6919 ppm	1.0460 ppm	1.2591 ppm	1.1385 ppm	0.1302 ppm	0.6170 ppm
Concentration per Run	0.1327 ppm	2.6664 ppm	1.0422 ppm	1.2607 ppm	1.1477 ppm	0.1301 ppm	0.6142 ppm
Concentration RSD	0.9 %	1.0 %	0.6 %	0.8 %	0.4 %	0.2 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6086 ppm	100.1723 %	100.6846 %	96.4248 %	98.5630 %	100.6338 %	98.5544 %
Concentration per Run	0.6151 ppm	99.1140 %	101.1758 %	96.5525 %	97.4099 %	100.9319 %	98.7790 %
Concentration per Run	0.6081 ppm	100.5107 %	100.2025 %	95.5998 %	98.7512 %	100.6487 %	98.1256 %
Concentration per Run	0.6028 ppm	100.8923 %	100.6755 %	97.1220 %	99.5278 %	100.3207 %	98.7587 %
Concentration RSD	1.0 %	0.9 %	0.5 %	0.8 %	1.1 %	0.3 %	0.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2082423-4 WG2082423
 Analysis started at: 6/24/2025 9:52:40 AM
 Rack: 1
 Vial: 11
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0005 ppm	0.4757 ppm	0.0023 ppm	0.0351 ppm	0.0484 ppm	0.0000 ppm	16.6688 ppm
Concentration per Run	-0.0003 ppm	0.4762 ppm	0.0031 ppm	0.0351 ppm	0.0484 ppm	0.0000 ppm	16.6820 ppm
Concentration per Run	-0.0006 ppm	0.4753 ppm	0.0018 ppm	0.0359 ppm	0.0485 ppm	0.0000 ppm	16.6073 ppm
Concentration per Run	-0.0006 ppm	0.4756 ppm	0.0021 ppm	0.0341 ppm	0.0482 ppm	0.0000 ppm	16.7171 ppm
Concentration RSD	36.5 %	0.1 %	29.4 %	2.6 %	0.3 %	79.1 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0011 ppm	0.0156 ppm	0.4241 ppm	8.2253 ppm	0.0025 ppm
Concentration per Run	0.0000 ppm	0.0002 ppm	0.0010 ppm	0.0155 ppm	0.4236 ppm	8.2405 ppm	0.0032 ppm
Concentration per Run	0.0000 ppm	-0.0003 ppm	0.0010 ppm	0.0157 ppm	0.4254 ppm	8.2465 ppm	0.0017 ppm
Concentration per Run	-0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0155 ppm	0.4233 ppm	8.1887 ppm	0.0027 ppm
Concentration RSD	143.6 %	542.9 %	13.6 %	0.9 %	0.3 %	0.4 %	29.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	1.1329 ppm	0.0259 ppm	0.0193 ppm	42.9434 ppm	0.0024 ppm	0.0147 ppm	0.0143 ppm
Concentration per Run	1.1357 ppm	0.0258 ppm	0.0198 ppm	42.9580 ppm	0.0025 ppm	0.0143 ppm	0.0161 ppm
Concentration per Run	1.1362 ppm	0.0259 ppm	0.0194 ppm	43.0019 ppm	0.0023 ppm	0.0154 ppm	0.0138 ppm
Concentration per Run	1.1268 ppm	0.0259 ppm	0.0188 ppm	42.8703 ppm	0.0024 ppm	0.0142 ppm	0.0129 ppm
Concentration RSD	0.5 %	0.2 %	2.7 %	0.2 %	5.4 %	4.6 %	11.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0022 ppm	1.2864 ppm	0.0069 ppm	0.1792 ppm	0.0125 ppm	0.0009 ppm	0.0036 ppm
Concentration per Run	0.0023 ppm	1.2744 ppm	0.0070 ppm	0.1785 ppm	0.0124 ppm	0.0012 ppm	0.0037 ppm
Concentration per Run	0.0017 ppm	1.2878 ppm	0.0070 ppm	0.1803 ppm	0.0124 ppm	0.0005 ppm	0.0036 ppm
Concentration per Run	0.0027 ppm	1.2971 ppm	0.0067 ppm	0.1789 ppm	0.0128 ppm	0.0009 ppm	0.0037 ppm
Concentration RSD	22.1 %	0.9 %	3.0 %	0.5 %	1.8 %	39.9 %	1.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0159 ppm	102.1850 %	101.6499 %	99.0940 %	101.1212 %	101.8313 %	100.6342 %
Concentration per Run	0.0159 ppm	101.8812 %	101.9302 %	99.1903 %	101.0678 %	101.7332 %	100.7105 %
Concentration per Run	0.0158 ppm	102.0641 %	101.8326 %	98.7419 %	101.1291 %	102.8820 %	100.7025 %
Concentration per Run	0.0159 ppm	102.6096 %	101.1869 %	99.3498 %	101.1668 %	100.8786 %	100.4897 %
Concentration RSD	0.4 %	0.4 %	0.4 %	0.3 %	0.0 %	1.0 %	0.1 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2082423-5 WG2082423
 Analysis started at: 6/24/2025 9:56:05 AM
 Rack: 1
 Vial: 12
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0569 ppm	2.7313 ppm	0.1357 ppm	1.1968 ppm	2.2840 ppm	0.0548 ppm	28.2554 ppm
Concentration per Run	0.0567 ppm	2.7328 ppm	0.1363 ppm	1.1895 ppm	2.2749 ppm	0.0549 ppm	28.3204 ppm
Concentration per Run	0.0571 ppm	2.7362 ppm	0.1333 ppm	1.1955 ppm	2.2944 ppm	0.0547 ppm	28.3227 ppm
Concentration per Run	0.0570 ppm	2.7248 ppm	0.1375 ppm	1.2053 ppm	2.2827 ppm	0.0547 ppm	28.1230 ppm
Concentration RSD	0.3 %	0.2 %	1.6 %	0.7 %	0.4 %	0.2 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0575 ppm	0.5517 ppm	0.2253 ppm	0.3047 ppm	1.5310 ppm	20.1798 ppm	0.0023 ppm
Concentration per Run	0.0579 ppm	0.5541 ppm	0.2256 ppm	0.3037 ppm	1.5343 ppm	20.1652 ppm	0.0025 ppm
Concentration per Run	0.0563 ppm	0.5451 ppm	0.2230 ppm	0.3038 ppm	1.5318 ppm	20.1994 ppm	0.0018 ppm
Concentration per Run	0.0583 ppm	0.5557 ppm	0.2273 ppm	0.3065 ppm	1.5269 ppm	20.1747 ppm	0.0027 ppm
Concentration RSD	1.8 %	1.0 %	1.0 %	0.5 %	0.2 %	0.1 %	19.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	12.5734 ppm	0.5631 ppm	1.0864 [SIC 20]	55.4815 ppm	0.5693 ppm	0.6062 ppm	0.4596 ppm
Concentration per Run	12.5958 ppm	0.5647 ppm	1.0771 ppm	55.3788 ppm	0.5688 ppm	0.6104 ppm	0.4530 ppm
Concentration per Run	12.3936 ppm	0.5640 ppm	1.0812 ppm	55.4359 ppm	0.5648 ppm	0.6048 ppm	0.4570 ppm
Concentration per Run	12.7307 ppm	0.5608 ppm	1.1010 ppm	55.6299 ppm	0.5742 ppm	0.6032 ppm	0.4688 ppm
Concentration RSD	1.3 %	0.4 %	1.2 %	0.2 %	0.8 %	0.6 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1375 ppm	2.7270 ppm	1.1123 [SIC 20]	1.2911 ppm	1.1976 ppm	0.1340 ppm	0.5860 ppm
Concentration per Run	0.1375 ppm	2.7244 ppm	1.1090 ppm	1.2863 ppm	1.1932 ppm	0.1332 ppm	0.5864 ppm
Concentration per Run	0.1374 ppm	2.7183 ppm	1.1066 ppm	1.2969 ppm	1.1916 ppm	0.1340 ppm	0.5826 ppm
Concentration per Run	0.1378 ppm	2.7382 ppm	1.1213 ppm	1.2901 ppm	1.2081 ppm	0.1349 ppm	0.5892 ppm
Concentration RSD	0.1 %	0.4 %	0.7 %	0.4 %	0.8 %	0.6 %	0.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5791 ppm	96.8269 %	98.9360 %	93.0911 %	94.8971 %	98.3294 %	94.9487 %
Concentration per Run	0.5812 ppm	96.2661 %	98.7263 %	91.9103 %	94.2002 %	98.7190 %	93.8716 %
Concentration per Run	0.5726 ppm	98.0288 %	98.7214 %	94.1284 %	96.1427 %	97.5927 %	95.2742 %
Concentration per Run	0.5836 ppm	96.1859 %	99.3604 %	93.2345 %	94.3485 %	98.6764 %	95.7004 %
Concentration RSD	1.0 %	1.1 %	0.4 %	1.2 %	1.1 %	0.6 %	1.0 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2082423-6d5 WG2082423
 Analysis started at: 6/24/2025 9:59:31 AM
 Rack: 1
 Vial: 13
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0002 ppm	0.0913 ppm	-0.0010 ppm	0.0069 ppm	0.0095 ppm	0.0000 ppm	3.3289 ppm
Concentration per Run	-0.0002 ppm	0.0914 ppm	-0.0012 ppm	0.0074 ppm	0.0096 ppm	0.0000 ppm	3.3396 ppm
Concentration per Run	-0.0004 ppm	0.0883 ppm	-0.0006 ppm	0.0074 ppm	0.0094 ppm	0.0000 ppm	3.3327 ppm
Concentration per Run	-0.0001 ppm	0.0943 ppm	-0.0010 ppm	0.0061 ppm	0.0096 ppm	0.0000 ppm	3.3143 ppm
Concentration RSD	82.7 %	3.3 %	32.6 %	10.6 %	0.9 %	1,298.2 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0027 ppm	0.0840 ppm	1.6288 ppm	0.0007 ppm
Concentration per Run	-0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0030 ppm	0.0845 ppm	1.6355 ppm	0.0005 ppm
Concentration per Run	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0026 ppm	0.0835 ppm	1.6288 ppm	0.0010 ppm
Concentration per Run	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0026 ppm	0.0841 ppm	1.6221 ppm	0.0008 ppm
Concentration RSD	446.2 %	29.4 %	61.9 %	9.4 %	0.6 %	0.4 %	37.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.2266 ppm	0.0052 ppm	0.0127 ppm	8.5626 ppm	0.0009 ppm	0.0034 ppm	0.0302 ppm
Concentration per Run	0.2266 ppm	0.0054 ppm	0.0142 ppm	8.5949 ppm	0.0013 ppm	0.0039 ppm	0.0306 ppm
Concentration per Run	0.2254 ppm	0.0053 ppm	0.0125 ppm	8.5021 ppm	0.0004 ppm	0.0037 ppm	0.0319 ppm
Concentration per Run	0.2277 ppm	0.0051 ppm	0.0115 ppm	8.5908 ppm	0.0011 ppm	0.0026 ppm	0.0279 ppm
Concentration RSD	0.5 %	2.6 %	10.7 %	0.6 %	52.5 %	20.1 %	6.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0027 ppm	0.2403 ppm	0.0091 ppm	0.0350 ppm	0.0036 ppm	0.0003 ppm	0.0008 ppm
Concentration per Run	0.0041 ppm	0.2370 ppm	0.0100 ppm	0.0352 ppm	0.0036 ppm	0.0004 ppm	0.0010 ppm
Concentration per Run	0.0018 ppm	0.2401 ppm	0.0097 ppm	0.0349 ppm	0.0037 ppm	0.0012 ppm	0.0008 ppm
Concentration per Run	0.0024 ppm	0.2439 ppm	0.0077 ppm	0.0350 ppm	0.0034 ppm	-0.0007 ppm	0.0007 ppm
Concentration RSD	43.0 %	1.5 %	13.7 %	0.4 %	3.5 %	319.6 %	19.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0039 ppm	107.4911 %	105.4503 %	105.7735 %	105.2532 %	104.7069 %	105.9910 %
Concentration per Run	0.0040 ppm	107.4357 %	105.3420 %	105.8446 %	105.4643 %	105.4230 %	105.7672 %
Concentration per Run	0.0038 ppm	108.0165 %	105.2883 %	105.5530 %	105.6082 %	104.8006 %	106.2870 %
Concentration per Run	0.0039 ppm	107.0210 %	105.7208 %	105.9228 %	104.6870 %	103.8972 %	105.9190 %
Concentration RSD	2.5 %	0.5 %	0.2 %	0.2 %	0.5 %	0.7 %	0.3 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCV
Analysis started at: 6/24/2025 10:02:53 AM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5236 ppm	0.4859 ppm	0.4912 ppm	0.5145 ppm	0.5154 ppm	0.5150 ppm	0.5019 ppm
Concentration per Run	0.5228 ppm	0.4862 ppm	0.4916 ppm	0.5146 ppm	0.5166 ppm	0.5153 ppm	0.5023 ppm
Concentration per Run	0.5245 ppm	0.4849 ppm	0.4911 ppm	0.5129 ppm	0.5128 ppm	0.5135 ppm	0.5011 ppm
Concentration per Run	0.5236 ppm	0.4866 ppm	0.4910 ppm	0.5161 ppm	0.5167 ppm	0.5163 ppm	0.5022 ppm
Recovery Percentage	104.728 %	97.179 %	98.246 %	102.906 %	103.080 %	103.008 %	100.374 %
Concentration RSD	0.2 %	0.2 %	0.1 %	0.3 %	0.4 %	0.3 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5140 ppm	0.5191 ppm	0.5196 ppm	0.5231 ppm	0.5141 ppm	5.2058 ppm	0.5144 ppm
Concentration per Run	0.5148 ppm	0.5203 ppm	0.5186 ppm	0.5224 ppm	0.5098 ppm	5.1941 ppm	0.5136 ppm
Concentration per Run	0.5162 ppm	0.5210 ppm	0.5218 ppm	0.5218 ppm	0.5137 ppm	5.2253 ppm	0.5146 ppm
Concentration per Run	0.5109 ppm	0.5159 ppm	0.5184 ppm	0.5250 ppm	0.5187 ppm	5.1979 ppm	0.5151 ppm
Recovery Percentage	102.794 %	103.817 %	103.923 %	104.617 %	102.815 %	104.115 %	102.883 %
Concentration RSD	0.5 %	0.5 %	0.4 %	0.3 %	0.9 %	0.3 %	0.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5174 ppm	0.5122 ppm	0.5072 ppm	10.3891 ppm	0.5260 ppm	0.5137 ppm	0.5357 ppm
Concentration per Run	0.5155 ppm	0.5123 ppm	0.5061 ppm	10.3255 ppm	0.5262 ppm	0.5129 ppm	0.5364 ppm
Concentration per Run	0.5223 ppm	0.5118 ppm	0.5096 ppm	10.4388 ppm	0.5284 ppm	0.5152 ppm	0.5348 ppm
Concentration per Run	0.5143 ppm	0.5124 ppm	0.5059 ppm	10.4030 ppm	0.5233 ppm	0.5131 ppm	0.5360 ppm
Recovery Percentage	103.476 %	102.435 %	101.440 %	103.891 %	105.195 %	102.749 %	107.147 %
Concentration RSD	0.8 %	0.1 %	0.4 %	0.6 %	0.5 %	0.3 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.5033 ppm	5.7106 ppm	0.5310 ppm	0.5121 ppm	0.5297 ppm	0.5129 ppm	0.5258 ppm
Concentration per Run	0.5016 ppm	5.7194 ppm	0.5337 ppm	0.5132 ppm	0.5301 ppm	0.5135 ppm	0.5259 ppm
Concentration per Run	0.5049 ppm	5.7080 ppm	0.5299 ppm	0.5100 ppm	0.5306 ppm	0.5124 ppm	0.5272 ppm
Concentration per Run	0.5034 ppm	5.7043 ppm	0.5292 ppm	0.5129 ppm	0.5284 ppm	0.5126 ppm	0.5245 ppm
Recovery Percentage	100.663 %	108.773 %	106.191 %	102.410 %	105.942 %	102.571 %	105.169 %
Concentration RSD	0.3 %	0.1 %	0.5 %	0.3 %	0.2 %	0.1 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5195 ppm	104.5067 %	104.3081 %	101.3861 %	101.4974 %	103.8337 %	101.5656 %
Concentration per Run	0.5234 ppm	104.0667 %	104.5015 %	101.6845 %	101.1186 %	103.6985 %	101.8576 %
Concentration per Run	0.5208 ppm	104.4774 %	104.0481 %	101.1529 %	101.3201 %	104.3866 %	100.6991 %
Concentration per Run	0.5143 ppm	104.9761 %	104.3747 %	101.3208 %	102.0536 %	103.4158 %	102.1402 %
Recovery Percentage	103.905 %						
Concentration RSD	0.9 %	0.4 %	0.2 %	0.3 %	0.5 %	0.5 %	0.8 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCB
Analysis started at: 6/24/2025 10:06:16 AM
Rack: 0
Vial: 4
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0004 ppm	0.0009 ppm	-0.0009 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0050 ppm
Concentration per Run	-0.0004 ppm	0.0000 ppm	-0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0044 ppm
Concentration per Run	-0.0005 ppm	0.0014 ppm	-0.0011 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0054 ppm
Concentration per Run	-0.0003 ppm	0.0012 ppm	-0.0009 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0052 ppm
Recovery Percentage	-8.104 %	0.874 %	-17.263 %	-0.590 %	-0.072 %	0.359 %	4.988 %
Concentration RSD	23.5 %	85.5 %	27.6 %	10.9 %	371.8 %	50.2 %	10.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0073 ppm	0.0002 ppm
Concentration per Run	0.0001 ppm	-0.0008 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0105 ppm	0.0003 ppm
Concentration per Run	0.0000 ppm	-0.0007 ppm	0.0006 ppm	0.0000 ppm	-0.0006 ppm	0.0091 ppm	0.0000 ppm
Concentration per Run	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0001 ppm	-0.0003 ppm	0.0022 ppm	0.0002 ppm
Recovery Percentage	1.290 %	-4.027 %	2.331 %	0.125 %	-0.399 %	0.291 %	1.717 %
Concentration RSD	76.9 %	140.9 %	174.8 %	694.9 %	206.3 %	61.6 %	77.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0006 ppm	0.0001 ppm	0.0028 ppm	0.0087 ppm	0.0004 ppm	0.0003 ppm	0.0042 ppm
Concentration per Run	0.0002 ppm	0.0000 ppm	0.0028 ppm	0.0094 ppm	0.0010 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run	-0.0006 ppm	0.0001 ppm	0.0025 ppm	0.0093 ppm	-0.0001 ppm	0.0004 ppm	0.0058 ppm
Concentration per Run	0.0022 ppm	0.0001 ppm	0.0030 ppm	0.0073 ppm	0.0005 ppm	0.0004 ppm	0.0066 ppm
Recovery Percentage	0.577 %	0.719 %	5.545 %	0.434 %	1.710 %	3.452 %	8.435 %
Concentration RSD	250.1 %	48.6 %	9.1 %	14.0 %	128.2 %	32.9 %	81.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0022 ppm	0.0009 ppm	0.0021 ppm	0.0000 ppm	0.0009 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run	0.0021 ppm	0.0000 ppm	0.0021 ppm	0.0000 ppm	0.0011 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run	0.0012 ppm	0.0003 ppm	0.0026 ppm	0.0000 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run	0.0031 ppm	0.0023 ppm	0.0018 ppm	0.0000 ppm	0.0009 ppm	0.0011 ppm	0.0002 ppm
Recovery Percentage	21.518 %	0.175 %	4.293 %	0.054 %	9.345 %	1.645 %	0.678 %
Concentration RSD	44.6 %	139.9 %	19.8 %	387.7 %	20.4 %	193.1 %	239.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	102.4721 %	102.6356 %	100.8167 %	102.4374 %	104.4776 %	102.8608 %
Concentration per Run	0.0004 ppm	102.3351 %	102.8541 %	100.8218 %	102.1982 %	104.0919 %	102.4700 %
Concentration per Run	0.0002 ppm	103.2411 %	102.6048 %	100.9272 %	103.4186 %	104.8268 %	103.3193 %
Concentration per Run	0.0002 ppm	101.8401 %	102.4479 %	100.7011 %	101.6954 %	104.5141 %	102.7931 %
Recovery Percentage	5.384 %						
Concentration RSD	30.3 %	0.7 %	0.2 %	0.1 %	0.9 %	0.4 %	0.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: SIC Zn 20 no IECs
 Analysis started at: 6/24/2025 10:15:51 AM
 Rack: 1
 Vial: 15
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0002 ppm	-0.0004 ppm	-0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0071 ppm
Concentration per Run	-0.0002 ppm	-0.0038 ppm	0.0012 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run	-0.0003 ppm	-0.0011 ppm	0.0004 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0078 ppm
Concentration per Run	-0.0003 ppm	0.0036 ppm	-0.0020 ppm	-0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0069 ppm
Concentration RSD	28.7 %	879.0 %	1,105.3 %	111.3 %	19.8 %	224.9 %	9.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0005 ppm	0.0003 ppm	-0.0010 ppm	0.0006 ppm	0.0068 ppm	-0.0002 ppm
Concentration per Run	0.0001 ppm	-0.0006 ppm	0.0001 ppm	-0.0010 ppm	0.0004 ppm	0.0027 ppm	0.0001 ppm
Concentration per Run	0.0001 ppm	-0.0002 ppm	0.0004 ppm	-0.0010 ppm	0.0010 ppm	0.0072 ppm	-0.0005 ppm
Concentration per Run	0.0001 ppm	-0.0006 ppm	0.0004 ppm	-0.0009 ppm	0.0003 ppm	0.0105 ppm	-0.0002 ppm
Concentration RSD	11.8 %	53.1 %	72.5 %	4.7 %	67.5 %	56.9 %	132.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0015 ppm	0.0000 ppm	0.0004 ppm	0.0085 ppm	0.0006 ppm	0.0004 ppm	0.0037 ppm
Concentration per Run	0.0007 ppm	0.0000 ppm	0.0006 ppm	0.0085 ppm	0.0007 ppm	0.0006 ppm	0.0042 ppm
Concentration per Run	0.0013 ppm	-0.0002 ppm	0.0007 ppm	0.0096 ppm	0.0004 ppm	-0.0002 ppm	0.0045 ppm
Concentration per Run	0.0026 ppm	0.0000 ppm	0.0001 ppm	0.0074 ppm	0.0006 ppm	0.0007 ppm	0.0024 ppm
Concentration RSD	61.1 %	341.1 %	73.5 %	12.6 %	24.0 %	129.9 %	30.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0018 ppm	0.0013 ppm	0.0010 ppm	0.0000 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run	-0.0016 ppm	0.0023 ppm	0.0007 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run	0.0038 ppm	0.0005 ppm	0.0008 ppm	0.0000 ppm	0.0008 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run	0.0033 ppm	0.0011 ppm	0.0014 ppm	0.0000 ppm	0.0005 ppm	0.0010 ppm	0.0001 ppm
Concentration RSD	163.4 %	72.7 %	37.3 %	84.3 %	24.2 %	280.4 %	383.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	19.0482 ppm	110.3298 %	99.2573 %	109.1051 %	109.6403 %	100.3043 %	108.7519 %
Concentration per Run	18.9591 ppm	111.2672 %	98.9744 %	107.3368 %	110.3882 %	99.8650 %	106.7861 %
Concentration per Run	19.1232 ppm	109.9217 %	99.1877 %	107.5358 %	109.3680 %	100.7281 %	107.4854 %
Concentration per Run	19.0625 ppm	109.8004 %	99.6098 %	112.4426 %	109.1649 %	100.3198 %	111.9841 %
Concentration RSD	0.4 %	0.7 %	0.3 %	2.7 %	0.6 %	0.4 %	2.6 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: eL2537380-01d2 WG2082501
 Analysis started at: 6/24/2025 10:50:49 AM
 Rack: 1
 Vial: 23
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0071 ppm	524.4435 [SIC 1000]	0.0085 ppm	0.5850 ppm	4.1978 ppm	0.0428 ppm	432.1097 ppm
Concentration per Run	-0.0085 ppm	524.0078 ppm	0.0079 ppm	0.5871 ppm	4.1562 ppm	0.0426 ppm	431.3253 ppm
Concentration per Run	-0.0059 ppm	523.0236 ppm	0.0088 ppm	0.5814 ppm	4.2382 ppm	0.0427 ppm	432.5341 ppm
Concentration per Run	-0.0070 ppm	526.2990 ppm	0.0087 ppm	0.5865 ppm	4.1991 ppm	0.0430 ppm	432.4698 ppm
Concentration RSD	18.4 %	0.3 %	5.8 %	0.5 %	1.0 %	0.5 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0119 ppm	0.1581 ppm	0.7277 ppm	0.1369 ppm	860.5108 [SIC 500]	65.2702 ppm	0.4888 ppm
Concentration per Run	-0.0121 ppm	0.1578 ppm	0.7346 ppm	0.1358 ppm	855.4510 ppm	64.6232 ppm	0.4790 ppm
Concentration per Run	-0.0120 ppm	0.1571 ppm	0.7215 ppm	0.1366 ppm	860.0501 ppm	65.2882 ppm	0.4936 ppm
Concentration per Run	-0.0117 ppm	0.1595 ppm	0.7270 ppm	0.1383 ppm	866.0314 ppm	65.8992 ppm	0.4937 ppm
Concentration RSD	1.6 %	0.8 %	0.9 %	0.9 %	0.6 %	1.0 %	1.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	31.9922 ppm	2.3383 ppm	0.0098 ppm	18.6704 ppm	0.4905 ppm	0.0440 ppm	0.0410 ppm
Concentration per Run	32.4544 ppm	2.3361 ppm	0.0104 ppm	18.6011 ppm	0.4931 ppm	0.0446 ppm	0.0366 ppm
Concentration per Run	31.5640 ppm	2.3320 ppm	0.0088 ppm	18.5392 ppm	0.4875 ppm	0.0423 ppm	0.0410 ppm
Concentration per Run	31.9582 ppm	2.3469 ppm	0.0102 ppm	18.8708 ppm	0.4908 ppm	0.0450 ppm	0.0455 ppm
Concentration RSD	1.4 %	0.3 %	8.9 %	0.9 %	0.6 %	3.3 %	10.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0035 ppm	27.8914 [SIC 200]	0.0116 ppm	3.1343 ppm	14.7139 ppm	0.0068 ppm	1.0364 ppm
Concentration per Run	0.0009 ppm	28.0311 ppm	0.0111 ppm	3.1123 ppm	14.8877 ppm	0.0024 ppm	1.0417 ppm
Concentration per Run	0.0023 ppm	27.8243 ppm	0.0122 ppm	3.1458 ppm	14.5256 ppm	0.0089 ppm	1.0282 ppm
Concentration per Run	0.0074 ppm	27.8188 ppm	0.0114 ppm	3.1446 ppm	14.7284 ppm	0.0090 ppm	1.0393 ppm
Concentration RSD	98.4 %	0.4 %	4.7 %	0.6 %	1.2 %	55.7 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2100 ppm	120.4485 %	112.6418 %	78.6370 %	197.1480 %	224.5908 %	219.0389 %
Concentration per Run	0.2097 ppm	120.0144 %	112.9737 %	78.3365 %	196.0035 %	224.3246 %	220.4068 %
Concentration per Run	0.2104 ppm	121.4043 %	113.4090 %	78.9051 %	198.3056 %	223.9577 %	218.5974 %
Concentration per Run	0.2100 ppm	119.9268 %	111.5427 %	78.6694 %	197.1348 %	225.4900 %	218.1124 %
Concentration RSD	0.2 %	0.7 %	0.9 %	0.4 %	0.6 %	0.4 %	0.6 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537486-01d2 WG2082501
 Analysis started at: 6/24/2025 10:54:25 AM
 Rack: 1
 Vial: 24
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0038 ppm	65.4933 ppm	0.2211 ppm	0.1055 ppm	0.4407 ppm	0.0086 ppm	19.0840 ppm
Concentration per Run	0.0037 ppm	65.7059 ppm	0.2254 ppm	0.1045 ppm	0.4404 ppm	0.0086 ppm	19.0041 ppm
Concentration per Run	0.0041 ppm	65.4277 ppm	0.2220 ppm	0.1060 ppm	0.4424 ppm	0.0086 ppm	19.0462 ppm
Concentration per Run	0.0035 ppm	65.3462 ppm	0.2160 ppm	0.1061 ppm	0.4394 ppm	0.0086 ppm	19.2016 ppm
Concentration RSD	8.5 %	0.3 %	2.2 %	0.9 %	0.3 %	0.2 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0021 ppm	0.0274 ppm	0.3362 ppm	0.0640 ppm	285.6356 ppm	25.2727 ppm	0.0380 ppm
Concentration per Run	-0.0021 ppm	0.0274 ppm	0.3356 ppm	0.0635 ppm	284.9844 ppm	25.3430 ppm	0.0388 ppm
Concentration per Run	-0.0022 ppm	0.0275 ppm	0.3338 ppm	0.0639 ppm	285.0511 ppm	25.2377 ppm	0.0380 ppm
Concentration per Run	-0.0020 ppm	0.0272 ppm	0.3392 ppm	0.0646 ppm	286.8714 ppm	25.2373 ppm	0.0372 ppm
Concentration RSD	5.2 %	0.6 %	0.8 %	0.9 %	0.4 %	0.2 %	2.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	13.1367 ppm	1.2204 ppm	0.0018 ppm	0.2021 ppm	0.0546 ppm	0.1191 ppm	0.0160 ppm
Concentration per Run	13.1436 ppm	1.2197 ppm	0.0020 ppm	0.2049 ppm	0.0549 ppm	0.1209 ppm	0.0121 ppm
Concentration per Run	13.1104 ppm	1.2188 ppm	0.0020 ppm	0.2025 ppm	0.0538 ppm	0.1186 ppm	0.0165 ppm
Concentration per Run	13.1562 ppm	1.2226 ppm	0.0015 ppm	0.1988 ppm	0.0551 ppm	0.1179 ppm	0.0193 ppm
Concentration RSD	0.2 %	0.2 %	16.1 %	1.5 %	1.2 %	1.3 %	22.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0060 ppm	4.2195 ppm	0.0096 ppm	0.0992 ppm	0.6638 ppm	0.0038 ppm	0.2948 ppm
Concentration per Run	0.0058 ppm	4.1982 ppm	0.0096 ppm	0.0991 ppm	0.6656 ppm	0.0037 ppm	0.2945 ppm
Concentration per Run	0.0055 ppm	4.1951 ppm	0.0104 ppm	0.0993 ppm	0.6607 ppm	0.0024 ppm	0.2941 ppm
Concentration per Run	0.0067 ppm	4.2651 ppm	0.0088 ppm	0.0993 ppm	0.6652 ppm	0.0052 ppm	0.2958 ppm
Concentration RSD	10.1 %	0.9 %	8.5 %	0.1 %	0.4 %	36.9 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3479 ppm	103.5360 %	104.7420 %	95.8273 %	137.0401 %	142.3669 %	139.7348 %
Concentration per Run	0.3480 ppm	103.6794 %	104.2018 %	95.8906 %	136.9435 %	141.5899 %	139.0834 %
Concentration per Run	0.3491 ppm	103.2653 %	105.3391 %	95.5274 %	136.4677 %	143.0806 %	137.9736 %
Concentration per Run	0.3464 ppm	103.6634 %	104.6850 %	96.0639 %	137.7090 %	142.4303 %	142.1474 %
Concentration RSD	0.4 %	0.2 %	0.5 %	0.3 %	0.5 %	0.5 %	1.5 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537486-02d2 WG2082501
 Analysis started at: 6/24/2025 10:57:49 AM
 Rack: 1
 Vial: 25
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0035 ppm	66.0594 ppm	0.2337 ppm	0.1015 ppm	0.3925 ppm	0.0078 ppm	20.2993 ppm
Concentration per Run	0.0034 ppm	65.9201 ppm	0.2318 ppm	0.1026 ppm	0.3902 ppm	0.0078 ppm	20.2189 ppm
Concentration per Run	0.0032 ppm	66.0883 ppm	0.2344 ppm	0.1020 ppm	0.3930 ppm	0.0079 ppm	20.3269 ppm
Concentration per Run	0.0038 ppm	66.1697 ppm	0.2349 ppm	0.0998 ppm	0.3942 ppm	0.0078 ppm	20.3523 ppm
Concentration RSD	8.3 %	0.2 %	0.7 %	1.4 %	0.5 %	0.3 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0023 ppm	0.0251 ppm	0.3248 ppm	0.0455 ppm	282.4844 ppm	24.8143 ppm	0.0403 ppm
Concentration per Run	-0.0023 ppm	0.0255 ppm	0.3291 ppm	0.0460 ppm	280.6951 ppm	24.7158 ppm	0.0411 ppm
Concentration per Run	-0.0024 ppm	0.0251 ppm	0.3282 ppm	0.0457 ppm	284.1478 ppm	24.8613 ppm	0.0399 ppm
Concentration per Run	-0.0022 ppm	0.0248 ppm	0.3170 ppm	0.0449 ppm	282.6103 ppm	24.8659 ppm	0.0398 ppm
Concentration RSD	5.0 %	1.4 %	2.1 %	1.3 %	0.6 %	0.3 %	1.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	13.4553 ppm	0.9614 ppm	0.0020 ppm	0.1917 ppm	0.0514 ppm	0.0967 ppm	0.0152 ppm
Concentration per Run	13.6078 ppm	0.9554 ppm	0.0016 ppm	0.1924 ppm	0.0520 ppm	0.0963 ppm	0.0145 ppm
Concentration per Run	13.5749 ppm	0.9651 ppm	0.0026 ppm	0.1919 ppm	0.0516 ppm	0.0953 ppm	0.0162 ppm
Concentration per Run	13.1832 ppm	0.9636 ppm	0.0017 ppm	0.1908 ppm	0.0506 ppm	0.0985 ppm	0.0148 ppm
Concentration RSD	1.8 %	0.5 %	27.2 %	0.4 %	1.4 %	1.7 %	5.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0057 ppm	5.5215 ppm	0.0093 ppm	0.1032 ppm	0.7524 ppm	0.0019 ppm	0.2874 ppm
Concentration per Run	0.0075 ppm	5.5948 ppm	0.0091 ppm	0.1028 ppm	0.7615 ppm	0.0014 ppm	0.2906 ppm
Concentration per Run	0.0041 ppm	5.5209 ppm	0.0093 ppm	0.1034 ppm	0.7535 ppm	0.0022 ppm	0.2890 ppm
Concentration per Run	0.0056 ppm	5.4487 ppm	0.0095 ppm	0.1033 ppm	0.7421 ppm	0.0020 ppm	0.2827 ppm
Concentration RSD	29.1 %	1.3 %	2.6 %	0.3 %	1.3 %	22.2 %	1.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3167 ppm	106.5768 %	108.4794 %	98.6719 %	134.6994 %	141.1454 %	137.6088 %
Concentration per Run	0.3201 ppm	105.7566 %	109.1211 %	98.6032 %	134.2270 %	142.0659 %	137.4961 %
Concentration per Run	0.3169 ppm	106.4727 %	108.1980 %	98.4005 %	134.9280 %	141.0080 %	136.8174 %
Concentration per Run	0.3131 ppm	107.5011 %	108.1190 %	99.0120 %	134.9432 %	140.3622 %	138.5129 %
Concentration RSD	1.1 %	0.8 %	0.5 %	0.3 %	0.3 %	0.6 %	0.6 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2538764-01d2 WG2082501
 Analysis started at: 6/24/2025 11:01:11 AM
 Rack: 1
 Vial: 26
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0028 ppm	83.2501 ppm	0.1994 ppm	0.0219 ppm	0.7695 ppm	0.0040 ppm	30.0134 ppm
Concentration per Run	0.0027 ppm	83.3436 ppm	0.2004 ppm	0.0231 ppm	0.7689 ppm	0.0040 ppm	30.0398 ppm
Concentration per Run	0.0028 ppm	83.5712 ppm	0.1975 ppm	0.0214 ppm	0.7740 ppm	0.0040 ppm	29.7920 ppm
Concentration per Run	0.0030 ppm	82.8355 ppm	0.2004 ppm	0.0212 ppm	0.7655 ppm	0.0040 ppm	30.2085 ppm
Concentration RSD	5.4 %	0.5 %	0.8 %	4.9 %	0.6 %	0.9 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0015 ppm	0.0620 ppm	0.3007 ppm	2.2813 ppm	161.7242 ppm	30.0082 ppm	0.1922 ppm
Concentration per Run	0.0016 ppm	0.0621 ppm	0.3049 ppm	2.2900 ppm	161.6554 ppm	29.8367 ppm	0.1917 ppm
Concentration per Run	0.0014 ppm	0.0615 ppm	0.2966 ppm	2.2749 ppm	161.3685 ppm	30.2563 ppm	0.1948 ppm
Concentration per Run	0.0016 ppm	0.0625 ppm	0.3007 ppm	2.2791 ppm	162.1486 ppm	29.9316 ppm	0.1903 ppm
Concentration RSD	6.4 %	0.8 %	1.4 %	0.3 %	0.2 %	0.7 %	1.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	42.2794 ppm	1.9653 ppm	0.0199 ppm	15.8393 ppm	0.3639 ppm	1.3008 ppm	0.0196 ppm
Concentration per Run	42.3212 ppm	1.9656 ppm	0.0196 ppm	15.8467 ppm	0.3622 ppm	1.3101 ppm	0.0220 ppm
Concentration per Run	41.9369 ppm	1.9612 ppm	0.0197 ppm	15.9786 ppm	0.3624 ppm	1.2931 ppm	0.0174 ppm
Concentration per Run	42.5802 ppm	1.9692 ppm	0.0202 ppm	15.6925 ppm	0.3671 ppm	1.2993 ppm	0.0195 ppm
Concentration RSD	0.8 %	0.2 %	1.6 %	0.9 %	0.8 %	0.7 %	11.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0071 ppm	9.2113 ppm	0.0553 ppm	0.2955 ppm	7.2898 ppm	-0.0027 ppm	0.2688 ppm
Concentration per Run	0.0059 ppm	9.1188 ppm	0.0554 ppm	0.2937 ppm	7.3294 ppm	-0.0037 ppm	0.2681 ppm
Concentration per Run	0.0077 ppm	9.2637 ppm	0.0548 ppm	0.2978 ppm	7.2133 ppm	-0.0021 ppm	0.2687 ppm
Concentration per Run	0.0076 ppm	9.2513 ppm	0.0558 ppm	0.2951 ppm	7.3267 ppm	-0.0025 ppm	0.2696 ppm
Concentration RSD	14.5 %	0.9 %	0.9 %	0.7 %	0.9 %	30.2 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	3.1584 ppm	105.8421 %	109.0397 %	92.5544 %	118.1826 %	125.4305 %	120.6790 %
Concentration per Run	3.1406 ppm	106.6495 %	109.2321 %	91.9712 %	119.0593 %	126.0125 %	120.5514 %
Concentration per Run	3.1600 ppm	105.6164 %	109.0950 %	93.0139 %	117.5531 %	126.1988 %	120.4111 %
Concentration per Run	3.1747 ppm	105.2604 %	108.7919 %	92.6780 %	117.9352 %	124.0801 %	121.0744 %
Concentration RSD	0.5 %	0.7 %	0.2 %	0.6 %	0.7 %	0.9 %	0.3 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2538818-01d2 WG2082501
 Analysis started at: 6/24/2025 11:04:33 AM
 Rack: 1
 Vial: 27
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0007 ppm	33.7199 ppm	0.0316 ppm	0.0064 ppm	0.3237 ppm	0.0021 ppm	6.3213 ppm
Concentration per Run	0.0007 ppm	33.7141 ppm	0.0309 ppm	0.0066 ppm	0.3257 ppm	0.0022 ppm	6.3120 ppm
Concentration per Run	0.0007 ppm	33.7144 ppm	0.0304 ppm	0.0069 ppm	0.3233 ppm	0.0021 ppm	6.3179 ppm
Concentration per Run	0.0008 ppm	33.7313 ppm	0.0336 ppm	0.0058 ppm	0.3220 ppm	0.0021 ppm	6.3340 ppm
Concentration RSD	6.9 %	0.0 %	5.4 %	9.0 %	0.6 %	1.1 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0025 ppm	0.0104 ppm	0.0549 ppm	0.1429 ppm	57.9499 ppm	1.7935 ppm	0.0362 ppm
Concentration per Run	0.0025 ppm	0.0110 ppm	0.0551 ppm	0.1433 ppm	57.8777 ppm	1.8270 ppm	0.0366 ppm
Concentration per Run	0.0025 ppm	0.0102 ppm	0.0549 ppm	0.1428 ppm	58.0025 ppm	1.7817 ppm	0.0359 ppm
Concentration per Run	0.0025 ppm	0.0102 ppm	0.0545 ppm	0.1426 ppm	57.9695 ppm	1.7718 ppm	0.0360 ppm
Concentration RSD	0.6 %	4.3 %	0.5 %	0.2 %	0.1 %	1.6 %	1.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	5.0463 ppm	0.5633 ppm	0.0019 ppm	0.1320 ppm	0.0427 ppm	1.0269 ppm	0.0157 ppm
Concentration per Run	5.0447 ppm	0.5623 ppm	0.0019 ppm	0.1350 ppm	0.0429 ppm	1.0412 ppm	0.0144 ppm
Concentration per Run	5.0606 ppm	0.5628 ppm	0.0017 ppm	0.1323 ppm	0.0426 ppm	1.0126 ppm	0.0154 ppm
Concentration per Run	5.0337 ppm	0.5647 ppm	0.0022 ppm	0.1288 ppm	0.0426 ppm	1.0269 ppm	0.0174 ppm
Concentration RSD	0.3 %	0.2 %	12.3 %	2.4 %	0.4 %	1.4 %	9.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0032 ppm	6.2176 ppm	0.0375 ppm	0.0382 ppm	0.5266 ppm	0.0008 ppm	0.0895 ppm
Concentration per Run	0.0039 ppm	6.2528 ppm	0.0373 ppm	0.0381 ppm	0.5285 ppm	0.0012 ppm	0.0897 ppm
Concentration per Run	0.0029 ppm	6.1468 ppm	0.0385 ppm	0.0384 ppm	0.5227 ppm	0.0015 ppm	0.0894 ppm
Concentration per Run	0.0029 ppm	6.2532 ppm	0.0367 ppm	0.0382 ppm	0.5287 ppm	-0.0003 ppm	0.0894 ppm
Concentration RSD	18.4 %	1.0 %	2.3 %	0.3 %	0.6 %	117.4 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	3.6970 ppm	103.1015 %	105.8597 %	99.9878 %	106.7863 %	111.6882 %	109.5627 %
Concentration per Run	3.7155 ppm	103.2796 %	105.7577 %	98.6184 %	106.7186 %	111.1857 %	108.5756 %
Concentration per Run	3.6786 ppm	103.3352 %	106.0749 %	101.2015 %	107.3047 %	111.2608 %	110.7221 %
Concentration per Run	3.6969 ppm	102.6896 %	105.7466 %	100.1435 %	106.3355 %	112.6180 %	109.3904 %
Concentration RSD	0.5 %	0.3 %	0.2 %	1.3 %	0.5 %	0.7 %	1.0 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2538818-02d2 WG2082501
 Analysis started at: 6/24/2025 11:07:54 AM
 Rack: 1
 Vial: 28
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0005 ppm	27.8254 ppm	0.0195 ppm	0.0042 ppm	0.1958 ppm	0.0014 ppm	1.9251 ppm
Concentration per Run	0.0004 ppm	27.8444 ppm	0.0187 ppm	0.0039 ppm	0.1958 ppm	0.0014 ppm	1.9232 ppm
Concentration per Run	0.0006 ppm	27.7986 ppm	0.0206 ppm	0.0051 ppm	0.1953 ppm	0.0014 ppm	1.9142 ppm
Concentration per Run	0.0004 ppm	27.8333 ppm	0.0192 ppm	0.0036 ppm	0.1963 ppm	0.0014 ppm	1.9380 ppm
Concentration RSD	20.6 %	0.1 %	5.1 %	18.9 %	0.3 %	0.9 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0005 ppm	0.0127 ppm	0.0591 ppm	0.0453 ppm	63.7269 ppm	1.6176 ppm	0.0311 ppm
Concentration per Run	0.0005 ppm	0.0126 ppm	0.0596 ppm	0.0454 ppm	63.6682 ppm	1.6327 ppm	0.0320 ppm
Concentration per Run	0.0006 ppm	0.0126 ppm	0.0592 ppm	0.0451 ppm	63.4551 ppm	1.6152 ppm	0.0311 ppm
Concentration per Run	0.0005 ppm	0.0128 ppm	0.0587 ppm	0.0453 ppm	64.0575 ppm	1.6048 ppm	0.0303 ppm
Concentration RSD	12.5 %	1.0 %	0.8 %	0.3 %	0.5 %	0.9 %	2.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	5.5849 ppm	0.3130 ppm	0.0018 ppm	0.0978 ppm	0.0374 ppm	0.0486 ppm	0.0110 ppm
Concentration per Run	5.5880 ppm	0.3135 ppm	0.0021 ppm	0.0981 ppm	0.0375 ppm	0.0473 ppm	0.0123 ppm
Concentration per Run	5.5965 ppm	0.3118 ppm	0.0013 ppm	0.0995 ppm	0.0378 ppm	0.0489 ppm	0.0103 ppm
Concentration per Run	5.5702 ppm	0.3137 ppm	0.0021 ppm	0.0959 ppm	0.0369 ppm	0.0496 ppm	0.0103 ppm
Concentration RSD	0.2 %	0.3 %	24.0 %	1.9 %	1.2 %	2.5 %	10.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0023 ppm	4.1775 ppm	0.0047 ppm	0.0158 ppm	0.4632 ppm	0.0013 ppm	0.0792 ppm
Concentration per Run	0.0001 ppm	4.1918 ppm	0.0062 ppm	0.0159 ppm	0.4711 ppm	0.0014 ppm	0.0796 ppm
Concentration per Run	0.0046 ppm	4.1881 ppm	0.0044 ppm	0.0158 ppm	0.4567 ppm	0.0006 ppm	0.0788 ppm
Concentration per Run	0.0023 ppm	4.1526 ppm	0.0036 ppm	0.0157 ppm	0.4618 ppm	0.0020 ppm	0.0793 ppm
Concentration RSD	95.0 %	0.5 %	28.8 %	0.8 %	1.6 %	50.3 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5525 ppm	104.6195 %	106.0086 %	100.8378 %	105.3662 %	108.5276 %	107.0924 %
Concentration per Run	0.5534 ppm	104.4190 %	106.6615 %	100.8009 %	104.9797 %	109.2635 %	107.0085 %
Concentration per Run	0.5530 ppm	104.5239 %	106.1501 %	100.8820 %	105.5576 %	108.7806 %	106.5880 %
Concentration per Run	0.5510 ppm	104.9157 %	105.2141 %	100.8306 %	105.5613 %	107.5387 %	107.6807 %
Concentration RSD	0.2 %	0.3 %	0.7 %	0.0 %	0.3 %	0.8 %	0.5 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCV
 Analysis started at: 6/24/2025 11:11:17 AM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5217 ppm	0.4854 ppm	0.4846 ppm	0.5126 ppm	0.5141 ppm	0.5116 ppm	0.4982 ppm
Concentration per Run	0.5205 ppm	0.4876 ppm	0.4865 ppm	0.5143 ppm	0.5122 ppm	0.5100 ppm	0.4981 ppm
Concentration per Run	0.5205 ppm	0.4851 ppm	0.4832 ppm	0.5119 ppm	0.5149 ppm	0.5105 ppm	0.4969 ppm
Concentration per Run	0.5242 ppm	0.4836 ppm	0.4841 ppm	0.5116 ppm	0.5152 ppm	0.5142 ppm	0.4995 ppm
Recovery Percentage	104.343 %	97.088 %	96.916 %	102.522 %	102.820 %	102.317 %	99.635 %
Concentration RSD	0.4 %	0.4 %	0.4 %	0.3 %	0.3 %	0.5 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5045 ppm	0.5150 ppm	0.5185 ppm	0.5211 ppm	0.5187 ppm	5.1083 ppm	0.5131 ppm
Concentration per Run	0.4963 ppm	0.5103 ppm	0.5128 ppm	0.5190 ppm	0.5198 ppm	5.1156 ppm	0.5124 ppm
Concentration per Run	0.5057 ppm	0.5164 ppm	0.5190 ppm	0.5212 ppm	0.5166 ppm	5.1111 ppm	0.5168 ppm
Concentration per Run	0.5117 ppm	0.5183 ppm	0.5236 ppm	0.5232 ppm	0.5195 ppm	5.0981 ppm	0.5101 ppm
Recovery Percentage	100.909 %	103.003 %	103.692 %	104.222 %	103.731 %	102.165 %	102.622 %
Concentration RSD	1.5 %	0.8 %	1.1 %	0.4 %	0.3 %	0.2 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5129 ppm	0.5063 ppm	0.4976 ppm	10.3945 ppm	0.5216 ppm	0.5068 ppm	0.5099 ppm
Concentration per Run	0.5088 ppm	0.5057 ppm	0.4916 ppm	10.4011 ppm	0.5186 ppm	0.5070 ppm	0.5034 ppm
Concentration per Run	0.5151 ppm	0.5048 ppm	0.4976 ppm	10.3888 ppm	0.5217 ppm	0.5067 ppm	0.5091 ppm
Concentration per Run	0.5147 ppm	0.5084 ppm	0.5037 ppm	10.3937 ppm	0.5246 ppm	0.5067 ppm	0.5172 ppm
Recovery Percentage	102.574 %	101.260 %	99.526 %	103.945 %	104.326 %	101.356 %	101.986 %
Concentration RSD	0.7 %	0.4 %	1.2 %	0.1 %	0.6 %	0.0 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.5004 ppm	5.6823 ppm	0.5221 ppm	0.5111 ppm	0.5274 ppm	0.5041 ppm	0.5229 ppm
Concentration per Run	0.5010 ppm	5.6537 ppm	0.5170 ppm	0.5090 ppm	0.5213 ppm	0.5030 ppm	0.5205 ppm
Concentration per Run	0.5002 ppm	5.6882 ppm	0.5255 ppm	0.5113 ppm	0.5287 ppm	0.5027 ppm	0.5230 ppm
Concentration per Run	0.4999 ppm	5.7049 ppm	0.5239 ppm	0.5131 ppm	0.5323 ppm	0.5067 ppm	0.5251 ppm
Recovery Percentage	100.072 %	108.234 %	104.423 %	102.221 %	105.485 %	100.828 %	104.573 %
Concentration RSD	0.1 %	0.5 %	0.9 %	0.4 %	1.1 %	0.4 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5148 ppm	104.9184 %	104.4480 %	101.7390 %	102.8454 %	105.3822 %	103.8260 %
Concentration per Run	0.5119 ppm	105.0174 %	104.5926 %	101.6714 %	102.7511 %	105.6553 %	102.9901 %
Concentration per Run	0.5128 ppm	104.9270 %	104.8548 %	101.7271 %	103.0639 %	105.1664 %	104.1817 %
Concentration per Run	0.5197 ppm	104.8107 %	103.8968 %	101.8184 %	102.7211 %	105.3248 %	104.3062 %
Recovery Percentage	102.965 %						
Concentration RSD	0.8 %	0.1 %	0.5 %	0.1 %	0.2 %	0.2 %	0.7 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCB
 Analysis started at: 6/24/2025 11:14:40 AM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0004 ppm	0.0015 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run	-0.0007 ppm	0.0042 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run	-0.0003 ppm	0.0005 ppm	-0.0005 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run	-0.0001 ppm	-0.0002 ppm	-0.0006 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0058 ppm
Recovery Percentage	-7.314 %	1.483 %	-8.173 %	-0.305 %	-0.017 %	0.391 %	4.227 %
Concentration RSD	89.7 %	160.3 %	60.2 %	489.3 %	2,399.6 %	78.9 %	37.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0005 ppm	0.0003 ppm	0.0000 ppm	0.0025 ppm	-0.0146 ppm	0.0002 ppm
Concentration per Run	0.0000 ppm	-0.0006 ppm	0.0002 ppm	-0.0001 ppm	0.0033 ppm	-0.0136 ppm	0.0001 ppm
Concentration per Run	-0.0001 ppm	-0.0005 ppm	0.0004 ppm	-0.0001 ppm	0.0021 ppm	-0.0132 ppm	0.0001 ppm
Concentration per Run	0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0002 ppm	0.0019 ppm	-0.0172 ppm	0.0003 ppm
Recovery Percentage	0.542 %	-5.042 %	3.049 %	0.035 %	4.916 %	-0.586 %	1.643 %
Concentration RSD	337.6 %	18.6 %	35.8 %	4,178.0 %	29.9 %	15.2 %	84.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0007 ppm	0.0000 ppm	0.0011 ppm	0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0022 ppm
Concentration per Run	0.0013 ppm	0.0000 ppm	0.0016 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0006 ppm	-0.0005 ppm	0.0007 ppm	0.0000 ppm	0.0028 ppm
Concentration per Run	0.0008 ppm	0.0000 ppm	0.0012 ppm	0.0011 ppm	-0.0003 ppm	0.0005 ppm	0.0020 ppm
Recovery Percentage	0.703 %	-0.040 %	2.283 %	0.020 %	0.246 %	1.850 %	4.391 %
Concentration RSD	91.1 %	1,037.6 %	45.7 %	212.5 %	868.6 %	159.4 %	25.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0020 ppm	0.0034 ppm	0.0005 ppm	0.0000 ppm	0.0009 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run	0.0019 ppm	0.0037 ppm	0.0010 ppm	0.0000 ppm	0.0008 ppm	0.0008 ppm	-0.0001 ppm
Concentration per Run	0.0021 ppm	0.0035 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run	0.0021 ppm	0.0031 ppm	0.0004 ppm	0.0001 ppm	0.0009 ppm	0.0008 ppm	0.0001 ppm
Recovery Percentage	20.043 %	0.686 %	1.020 %	0.391 %	8.865 %	3.911 %	-0.434 %
Concentration RSD	6.5 %	8.2 %	86.1 %	56.9 %	12.2 %	4.8 %	276.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	104.8212 %	105.6556 %	104.4992 %	105.1693 %	107.7525 %	107.1750 %
Concentration per Run	0.0001 ppm	103.0747 %	105.5857 %	104.0419 %	103.9395 %	106.8909 %	106.2740 %
Concentration per Run	0.0000 ppm	105.2136 %	105.9007 %	104.8147 %	105.3905 %	108.1610 %	107.3599 %
Concentration per Run	0.0001 ppm	106.1752 %	105.4805 %	104.6410 %	106.1780 %	108.2055 %	107.8911 %
Recovery Percentage	1.843 %						
Concentration RSD	56.6 %	1.5 %	0.2 %	0.4 %	1.1 %	0.7 %	0.8 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2082501-1 WG2082501
 Analysis started at: 6/24/2025 11:36:11 AM
 Rack: 1
 Vial: 16
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0058 ppm	-0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0205 ppm
Concentration per Run	-0.0001 ppm	0.0055 ppm	-0.0004 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0207 ppm
Concentration per Run	-0.0001 ppm	0.0049 ppm	0.0007 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0219 ppm
Concentration per Run	-0.0002 ppm	0.0069 ppm	-0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0188 ppm
Concentration RSD	54.7 %	17.5 %	335.0 %	525.3 %	48.4 %	186.8 %	7.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0006 ppm	0.0008 ppm	-0.0008 ppm	0.0152 ppm	-0.0028 ppm	0.0001 ppm
Concentration per Run	0.0000 ppm	-0.0006 ppm	0.0009 ppm	-0.0009 ppm	0.0149 ppm	0.0042 ppm	0.0003 ppm
Concentration per Run	0.0000 ppm	-0.0005 ppm	0.0005 ppm	-0.0009 ppm	0.0149 ppm	0.0011 ppm	-0.0003 ppm
Concentration per Run	0.0001 ppm	-0.0006 ppm	0.0008 ppm	-0.0006 ppm	0.0157 ppm	-0.0136 ppm	0.0003 ppm
Concentration RSD	187.3 %	11.4 %	26.7 %	17.6 %	2.9 %	345.4 %	435.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0051 ppm	0.0005 ppm	-0.0002 ppm	0.0069 ppm	0.0003 ppm	0.0006 ppm	0.0023 ppm
Concentration per Run	0.0046 ppm	0.0005 ppm	-0.0001 ppm	0.0066 ppm	0.0004 ppm	0.0010 ppm	0.0019 ppm
Concentration per Run	0.0059 ppm	0.0005 ppm	0.0000 ppm	0.0068 ppm	0.0000 ppm	0.0008 ppm	0.0015 ppm
Concentration per Run	0.0047 ppm	0.0005 ppm	-0.0005 ppm	0.0074 ppm	0.0006 ppm	0.0001 ppm	0.0036 ppm
Concentration RSD	13.7 %	1.4 %	131.6 %	6.3 %	90.8 %	76.9 %	48.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0024 ppm	0.0124 ppm	0.0081 ppm	0.0001 ppm	0.0013 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run	0.0011 ppm	0.0119 ppm	0.0079 ppm	0.0000 ppm	0.0010 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run	0.0040 ppm	0.0134 ppm	0.0082 ppm	0.0001 ppm	0.0016 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run	0.0022 ppm	0.0118 ppm	0.0081 ppm	0.0001 ppm	0.0014 ppm	-0.0013 ppm	0.0000 ppm
Concentration RSD	59.7 %	7.1 %	1.8 %	41.0 %	24.1 %	132.4 %	583.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	113.2654 %	104.6385 %	108.3275 %	111.8669 %	103.7822 %	108.4191 %
Concentration per Run	0.0011 ppm	113.1052 %	104.6744 %	108.0408 %	111.2731 %	104.0815 %	107.1798 %
Concentration per Run	0.0010 ppm	113.5294 %	104.6773 %	108.4193 %	112.1957 %	103.9952 %	107.9209 %
Concentration per Run	0.0011 ppm	113.1616 %	104.5638 %	108.5223 %	112.1320 %	103.2699 %	110.1566 %
Concentration RSD	1.7 %	0.2 %	0.1 %	0.2 %	0.5 %	0.4 %	1.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2082501-2d2 WG2082501
 Analysis started at: 6/24/2025 11:55:56 AM
 Rack: 1
 Vial: 17
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0548 ppm	2.2493 ppm	0.1135 ppm	0.9872 ppm	2.2698 ppm	0.0557 ppm	10.1437 ppm
Concentration per Run	0.0551 ppm	2.2484 ppm	0.1147 ppm	0.9880 ppm	2.2652 ppm	0.0557 ppm	10.1001 ppm
Concentration per Run	0.0548 ppm	2.2558 ppm	0.1114 ppm	0.9882 ppm	2.2794 ppm	0.0558 ppm	10.1704 ppm
Concentration per Run	0.0545 ppm	2.2438 ppm	0.1145 ppm	0.9853 ppm	2.2648 ppm	0.0557 ppm	10.1604 ppm
Concentration RSD	0.5 %	0.3 %	1.6 %	0.2 %	0.4 %	0.2 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0477 ppm	0.5301 ppm	0.2165 ppm	0.2761 ppm	1.1583 ppm	10.3914 ppm	0.0003 ppm
Concentration per Run	0.0473 ppm	0.5276 ppm	0.2173 ppm	0.2756 ppm	1.1581 ppm	10.4220 ppm	0.0007 ppm
Concentration per Run	0.0477 ppm	0.5301 ppm	0.2155 ppm	0.2754 ppm	1.1618 ppm	10.4287 ppm	-0.0002 ppm
Concentration per Run	0.0481 ppm	0.5328 ppm	0.2167 ppm	0.2773 ppm	1.1550 ppm	10.3235 ppm	0.0003 ppm
Concentration RSD	0.8 %	0.5 %	0.4 %	0.4 %	0.3 %	0.6 %	161.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	9.8496 ppm	0.5518 ppm	0.9512 ppm	10.6901 ppm	0.5391 ppm	0.5188 ppm	0.4803 ppm
Concentration per Run	9.8335 ppm	0.5500 ppm	0.9499 ppm	10.6957 ppm	0.5390 ppm	0.5207 ppm	0.4818 ppm
Concentration per Run	9.8491 ppm	0.5520 ppm	0.9483 ppm	10.7045 ppm	0.5392 ppm	0.5182 ppm	0.4792 ppm
Concentration per Run	9.8662 ppm	0.5534 ppm	0.9553 ppm	10.6700 ppm	0.5391 ppm	0.5175 ppm	0.4799 ppm
Concentration RSD	0.2 %	0.3 %	0.4 %	0.2 %	0.0 %	0.3 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1176 ppm	1.0982 ppm	0.9767 ppm	1.0066 ppm	1.0394 ppm	0.1215 ppm	0.5604 ppm
Concentration per Run	0.1169 ppm	1.0976 ppm	0.9777 ppm	1.0063 ppm	1.0418 ppm	0.1216 ppm	0.5605 ppm
Concentration per Run	0.1176 ppm	1.0967 ppm	0.9745 ppm	1.0104 ppm	1.0374 ppm	0.1213 ppm	0.5601 ppm
Concentration per Run	0.1184 ppm	1.1003 ppm	0.9779 ppm	1.0031 ppm	1.0388 ppm	0.1218 ppm	0.5608 ppm
Concentration RSD	0.6 %	0.2 %	0.2 %	0.4 %	0.2 %	0.2 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5313 ppm	109.8948 %	102.6362 %	103.7194 %	108.0811 %	103.3753 %	104.2370 %
Concentration per Run	0.5299 ppm	109.8271 %	102.7752 %	103.7009 %	108.1643 %	103.7955 %	102.9033 %
Concentration per Run	0.5328 ppm	109.9326 %	102.5362 %	103.6593 %	107.9956 %	102.7477 %	104.7710 %
Concentration per Run	0.5313 ppm	109.9246 %	102.5972 %	103.7980 %	108.0833 %	103.5826 %	105.0366 %
Concentration RSD	0.3 %	0.1 %	0.1 %	0.1 %	0.1 %	0.5 %	1.1 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2535812-02d2 WG2082501
 Analysis started at: 6/24/2025 12:33:47 PM
 Rack: 1
 Vial: 18
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0008 ppm	45.5317 ppm	0.0224 ppm	0.0032 ppm	0.4984 ppm	0.0016 ppm	8.1314 ppm
Concentration per Run	0.0011 ppm	45.4183 ppm	0.0225 ppm	0.0035 ppm	0.4989 ppm	0.0016 ppm	8.1255 ppm
Concentration per Run	0.0008 ppm	45.6361 ppm	0.0217 ppm	0.0030 ppm	0.4973 ppm	0.0016 ppm	8.1436 ppm
Concentration per Run	0.0006 ppm	45.5408 ppm	0.0230 ppm	0.0031 ppm	0.4990 ppm	0.0016 ppm	8.1250 ppm
Concentration RSD	29.1 %	0.2 %	2.9 %	8.9 %	0.2 %	1.8 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0002 ppm	0.0204 ppm	0.0661 ppm	0.0637 ppm	64.5720 ppm	1.6806 ppm	0.0355 ppm
Concentration per Run	0.0001 ppm	0.0202 ppm	0.0658 ppm	0.0633 ppm	64.5306 ppm	1.7138 ppm	0.0360 ppm
Concentration per Run	0.0002 ppm	0.0205 ppm	0.0657 ppm	0.0640 ppm	64.6188 ppm	1.6646 ppm	0.0351 ppm
Concentration per Run	0.0002 ppm	0.0204 ppm	0.0667 ppm	0.0637 ppm	64.5665 ppm	1.6635 ppm	0.0352 ppm
Concentration RSD	23.7 %	0.7 %	0.8 %	0.5 %	0.1 %	1.7 %	1.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	5.4936 ppm	0.5296 ppm	0.0030 ppm	0.2145 ppm	0.0734 ppm	0.3557 ppm	0.0058 ppm
Concentration per Run	5.4199 ppm	0.5293 ppm	0.0030 ppm	0.2152 ppm	0.0735 ppm	0.3572 ppm	0.0067 ppm
Concentration per Run	5.4900 ppm	0.5305 ppm	0.0032 ppm	0.2161 ppm	0.0731 ppm	0.3547 ppm	0.0068 ppm
Concentration per Run	5.5709 ppm	0.5290 ppm	0.0027 ppm	0.2121 ppm	0.0735 ppm	0.3551 ppm	0.0038 ppm
Concentration RSD	1.4 %	0.1 %	8.1 %	1.0 %	0.4 %	0.4 %	28.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0047 ppm	3.0461 ppm	0.0121 ppm	0.0571 ppm	1.4792 ppm	0.0008 ppm	0.0778 ppm
Concentration per Run	0.0036 ppm	3.0236 ppm	0.0123 ppm	0.0573 ppm	1.4670 ppm	0.0006 ppm	0.0775 ppm
Concentration per Run	0.0074 ppm	3.0623 ppm	0.0122 ppm	0.0571 ppm	1.4717 ppm	0.0008 ppm	0.0779 ppm
Concentration per Run	0.0029 ppm	3.0525 ppm	0.0118 ppm	0.0570 ppm	1.4988 ppm	0.0009 ppm	0.0781 ppm
Concentration RSD	51.1 %	0.7 %	2.1 %	0.3 %	1.2 %	23.6 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4345 ppm	111.2076 %	103.6144 %	102.8019 %	110.9461 %	106.3114 %	109.0288 %
Concentration per Run	0.4339 ppm	111.6030 %	103.7765 %	103.1344 %	110.5505 %	105.5983 %	110.2148 %
Concentration per Run	0.4336 ppm	111.4429 %	103.2273 %	102.9210 %	111.5949 %	106.4316 %	107.0441 %
Concentration per Run	0.4359 ppm	110.5768 %	103.8393 %	102.3504 %	110.6928 %	106.9045 %	109.8276 %
Concentration RSD	0.3 %	0.5 %	0.3 %	0.4 %	0.5 %	0.6 %	1.6 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2082501-3d2 WG2082501
 Analysis started at: 6/24/2025 12:37:23 PM
 Rack: 1
 Vial: 19
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0581 ppm	58.7889 ppm	0.1429 ppm	0.9651 ppm	2.7056 ppm	0.0566 ppm	17.6949 ppm
Concentration per Run	0.0582 ppm	58.9174 ppm	0.1434 ppm	0.9608 ppm	2.7053 ppm	0.0568 ppm	17.6114 ppm
Concentration per Run	0.0581 ppm	58.7118 ppm	0.1424 ppm	0.9657 ppm	2.6951 ppm	0.0566 ppm	17.6781 ppm
Concentration per Run	0.0579 ppm	58.7374 ppm	0.1429 ppm	0.9690 ppm	2.7163 ppm	0.0566 ppm	17.7951 ppm
Concentration RSD	0.3 %	0.2 %	0.4 %	0.4 %	0.4 %	0.2 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0499 ppm	0.5701 ppm	0.2958 ppm	0.3648 ppm	68.4477 ppm	11.9913 ppm	0.0524 ppm
Concentration per Run	0.0504 ppm	0.5704 ppm	0.2967 ppm	0.3659 ppm	68.5817 ppm	12.0706 ppm	0.0531 ppm
Concentration per Run	0.0502 ppm	0.5743 ppm	0.2977 ppm	0.3652 ppm	68.4017 ppm	11.9489 ppm	0.0525 ppm
Concentration per Run	0.0491 ppm	0.5655 ppm	0.2931 ppm	0.3634 ppm	68.3597 ppm	11.9545 ppm	0.0517 ppm
Concentration RSD	1.4 %	0.8 %	0.8 %	0.4 %	0.2 %	0.6 %	1.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	16.8904 ppm	1.4333 ppm	0.9492 ppm	10.6299 ppm	0.6500 ppm	0.9348 ppm	0.2469 ppm
Concentration per Run	16.9562 ppm	1.4302 ppm	0.9486 ppm	10.6797 ppm	0.6516 ppm	0.9367 ppm	0.2453 ppm
Concentration per Run	17.0470 ppm	1.4350 ppm	0.9550 ppm	10.6220 ppm	0.6522 ppm	0.9337 ppm	0.2491 ppm
Concentration per Run	16.6681 ppm	1.4346 ppm	0.9440 ppm	10.5880 ppm	0.6463 ppm	0.9341 ppm	0.2464 ppm
Concentration RSD	1.2 %	0.2 %	0.6 %	0.4 %	0.5 %	0.2 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1210 ppm	6.6706 ppm	0.8896 ppm	1.0515 ppm	2.6985 ppm	0.1188 ppm	0.6601 ppm
Concentration per Run	0.1213 ppm	6.6982 ppm	0.8921 ppm	1.0551 ppm	2.7081 ppm	0.1191 ppm	0.6608 ppm
Concentration per Run	0.1198 ppm	6.6994 ppm	0.8960 ppm	1.0491 ppm	2.7183 ppm	0.1192 ppm	0.6617 ppm
Concentration per Run	0.1217 ppm	6.6141 ppm	0.8806 ppm	1.0503 ppm	2.6691 ppm	0.1181 ppm	0.6577 ppm
Concentration RSD	0.8 %	0.7 %	0.9 %	0.3 %	1.0 %	0.5 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1332 ppm	101.8625 %	102.8914 %	94.6807 %	103.3905 %	107.2485 %	103.4861 %
Concentration per Run	1.1323 ppm	101.7825 %	102.8452 %	94.6568 %	103.2749 %	107.8261 %	103.2881 %
Concentration per Run	1.1359 ppm	101.2391 %	102.8619 %	94.4177 %	102.9158 %	107.4011 %	103.9265 %
Concentration per Run	1.1314 ppm	102.5658 %	102.9672 %	94.9675 %	103.9807 %	106.5184 %	103.2436 %
Concentration RSD	0.2 %	0.7 %	0.1 %	0.3 %	0.5 %	0.6 %	0.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2082501-4d2 WG2082501
 Analysis started at: 6/24/2025 12:40:46 PM
 Rack: 1
 Vial: 20
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0011 ppm	50.7648 ppm	0.0248 ppm	0.0050 ppm	0.5020 ppm	0.0017 ppm	8.2574 ppm
Concentration per Run	0.0013 ppm	50.7403 ppm	0.0252 ppm	0.0047 ppm	0.4983 ppm	0.0017 ppm	8.2729 ppm
Concentration per Run	0.0007 ppm	50.7241 ppm	0.0229 ppm	0.0046 ppm	0.5053 ppm	0.0017 ppm	8.2598 ppm
Concentration per Run	0.0013 ppm	50.8300 ppm	0.0262 ppm	0.0056 ppm	0.5025 ppm	0.0017 ppm	8.2394 ppm
Concentration RSD	31.1 %	0.1 %	6.7 %	11.1 %	0.7 %	0.6 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0003 ppm	0.0241 ppm	0.0764 ppm	0.0715 ppm	65.0630 ppm	1.7863 ppm	0.0378 ppm
Concentration per Run	0.0002 ppm	0.0241 ppm	0.0760 ppm	0.0713 ppm	64.9885 ppm	1.8031 ppm	0.0382 ppm
Concentration per Run	0.0002 ppm	0.0242 ppm	0.0772 ppm	0.0717 ppm	65.0247 ppm	1.7748 ppm	0.0379 ppm
Concentration per Run	0.0003 ppm	0.0240 ppm	0.0759 ppm	0.0713 ppm	65.1758 ppm	1.7810 ppm	0.0372 ppm
Concentration RSD	14.6 %	0.4 %	0.9 %	0.3 %	0.2 %	0.8 %	1.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	6.3508 ppm	0.5683 ppm	0.0056 ppm	0.2164 ppm	0.0835 ppm	0.4015 ppm	0.0066 ppm
Concentration per Run	6.3888 ppm	0.5692 ppm	0.0056 ppm	0.2169 ppm	0.0839 ppm	0.4012 ppm	0.0068 ppm
Concentration per Run	6.3787 ppm	0.5686 ppm	0.0059 ppm	0.2161 ppm	0.0832 ppm	0.4022 ppm	0.0078 ppm
Concentration per Run	6.2848 ppm	0.5672 ppm	0.0051 ppm	0.2162 ppm	0.0832 ppm	0.4010 ppm	0.0053 ppm
Concentration RSD	0.9 %	0.2 %	7.2 %	0.2 %	0.5 %	0.2 %	19.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0038 ppm	4.0009 ppm	0.0189 ppm	0.0603 ppm	1.7428 ppm	0.0008 ppm	0.0876 ppm
Concentration per Run	0.0039 ppm	4.0053 ppm	0.0195 ppm	0.0602 ppm	1.7465 ppm	0.0007 ppm	0.0876 ppm
Concentration per Run	0.0052 ppm	3.9986 ppm	0.0184 ppm	0.0603 ppm	1.7479 ppm	0.0007 ppm	0.0878 ppm
Concentration per Run	0.0022 ppm	3.9987 ppm	0.0187 ppm	0.0604 ppm	1.7341 ppm	0.0008 ppm	0.0874 ppm
Concentration RSD	39.5 %	0.1 %	3.1 %	0.2 %	0.4 %	8.0 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5060 ppm	102.7691 %	104.3383 %	97.4293 %	104.3829 %	106.9098 %	104.7275 %
Concentration per Run	0.5069 ppm	102.9756 %	104.0677 %	97.1392 %	104.3799 %	106.9409 %	105.6753 %
Concentration per Run	0.5076 ppm	101.9335 %	104.4475 %	97.2417 %	103.7193 %	106.0423 %	103.9528 %
Concentration per Run	0.5035 ppm	103.3980 %	104.4998 %	97.9071 %	105.0494 %	107.7463 %	104.5545 %
Concentration RSD	0.4 %	0.7 %	0.2 %	0.4 %	0.6 %	0.8 %	0.8 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2082501-5d2 WG2082501
 Analysis started at: 6/24/2025 12:44:09 PM
 Rack: 1
 Vial: 21
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0551 ppm	47.0840 ppm	0.1540 ppm	1.1016 ppm	2.6402 ppm	0.0542 ppm	18.7710 ppm
Concentration per Run	0.0549 ppm	47.2373 ppm	0.1528 ppm	1.0897 ppm	2.6308 ppm	0.0546 ppm	18.9387 ppm
Concentration per Run	0.0552 ppm	46.9801 ppm	0.1547 ppm	1.1110 ppm	2.6371 ppm	0.0540 ppm	18.6417 ppm
Concentration per Run	0.0552 ppm	47.0346 ppm	0.1547 ppm	1.1041 ppm	2.6527 ppm	0.0540 ppm	18.7327 ppm
Concentration RSD	0.3 %	0.3 %	0.7 %	1.0 %	0.4 %	0.6 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0535 ppm	0.5414 ppm	0.2781 ppm	0.3416 ppm	64.0440 ppm	12.8334 ppm	0.0348 ppm
Concentration per Run	0.0527 ppm	0.5367 ppm	0.2750 ppm	0.3382 ppm	64.4743 ppm	12.8758 ppm	0.0355 ppm
Concentration per Run	0.0541 ppm	0.5460 ppm	0.2801 ppm	0.3438 ppm	63.7838 ppm	12.8096 ppm	0.0346 ppm
Concentration per Run	0.0535 ppm	0.5415 ppm	0.2791 ppm	0.3429 ppm	63.8739 ppm	12.8149 ppm	0.0343 ppm
Concentration RSD	1.3 %	0.9 %	1.0 %	0.9 %	0.6 %	0.3 %	1.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	16.5040 ppm	1.0487 ppm	1.0534 [SIC 20]	11.5786 ppm	0.6057 ppm	0.9328 ppm	0.5239 ppm
Concentration per Run	16.3132 ppm	1.0556 ppm	1.0407 ppm	11.5876 ppm	0.6008 ppm	0.9324 ppm	0.5195 ppm
Concentration per Run	16.6869 ppm	1.0437 ppm	1.0635 ppm	11.6009 ppm	0.6127 ppm	0.9372 ppm	0.5281 ppm
Concentration per Run	16.5118 ppm	1.0469 ppm	1.0558 ppm	11.5472 ppm	0.6036 ppm	0.9287 ppm	0.5240 ppm
Concentration RSD	1.1 %	0.6 %	1.1 %	0.2 %	1.0 %	0.5 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1354 ppm	4.7452 ppm	1.0571 [SIC 20]	1.1378 ppm	2.5969 ppm	0.1303 ppm	0.6303 ppm
Concentration per Run	0.1363 ppm	4.6813 ppm	1.0494 ppm	1.1359 ppm	2.5689 ppm	0.1297 ppm	0.6248 ppm
Concentration per Run	0.1360 ppm	4.7678 ppm	1.0692 ppm	1.1369 ppm	2.6146 ppm	0.1312 ppm	0.6349 ppm
Concentration per Run	0.1338 ppm	4.7867 ppm	1.0527 ppm	1.1407 ppm	2.6070 ppm	0.1299 ppm	0.6313 ppm
Concentration RSD	1.0 %	1.2 %	1.0 %	0.2 %	0.9 %	0.6 %	0.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9933 ppm	99.7865 %	101.1953 %	93.0171 %	100.5903 %	103.4671 %	101.5697 %
Concentration per Run	0.9855 ppm	100.7137 %	100.3019 %	93.3677 %	101.4496 %	103.4905 %	99.5771 %
Concentration per Run	1.0009 ppm	98.9505 %	101.8366 %	92.5946 %	99.9302 %	104.2295 %	101.6611 %
Concentration per Run	0.9933 ppm	99.6952 %	101.4473 %	93.0891 %	100.3909 %	102.6812 %	103.4709 %
Concentration RSD	0.8 %	0.9 %	0.8 %	0.4 %	0.8 %	0.7 %	1.9 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2082501-6d10 WG2082501
 Analysis started at: 6/24/2025 12:47:33 PM
 Rack: 1
 Vial: 22
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	9.3631 ppm	0.0052 ppm	0.0016 ppm	0.1021 ppm	0.0003 ppm	1.6494 ppm
Concentration per Run	-0.0001 ppm	9.3700 ppm	0.0052 ppm	0.0027 ppm	0.1022 ppm	0.0003 ppm	1.6582 ppm
Concentration per Run	-0.0001 ppm	9.3646 ppm	0.0048 ppm	0.0008 ppm	0.1023 ppm	0.0003 ppm	1.6610 ppm
Concentration per Run	-0.0002 ppm	9.3548 ppm	0.0056 ppm	0.0014 ppm	0.1019 ppm	0.0004 ppm	1.6291 ppm
Concentration RSD	22.3 %	0.1 %	7.7 %	60.2 %	0.2 %	13.3 %	1.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0041 ppm	0.0139 ppm	0.0133 ppm	13.5292 ppm	0.3331 ppm	0.0074 ppm
Concentration per Run	0.0001 ppm	0.0040 ppm	0.0140 ppm	0.0131 ppm	13.5604 ppm	0.3453 ppm	0.0075 ppm
Concentration per Run	0.0001 ppm	0.0044 ppm	0.0139 ppm	0.0136 ppm	13.5679 ppm	0.3260 ppm	0.0076 ppm
Concentration per Run	0.0001 ppm	0.0039 ppm	0.0138 ppm	0.0133 ppm	13.4592 ppm	0.3280 ppm	0.0070 ppm
Concentration RSD	10.6 %	6.7 %	0.7 %	1.8 %	0.4 %	3.2 %	4.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	1.1992 ppm	0.1077 ppm	0.0040 ppm	0.0457 ppm	0.0164 ppm	0.0727 ppm	0.0028 ppm
Concentration per Run	1.1944 ppm	0.1082 ppm	0.0040 ppm	0.0472 ppm	0.0160 ppm	0.0731 ppm	0.0004 ppm
Concentration per Run	1.1997 ppm	0.1078 ppm	0.0045 ppm	0.0451 ppm	0.0162 ppm	0.0729 ppm	0.0044 ppm
Concentration per Run	1.2035 ppm	0.1072 ppm	0.0035 ppm	0.0450 ppm	0.0171 ppm	0.0720 ppm	0.0035 ppm
Concentration RSD	0.4 %	0.4 %	11.7 %	2.7 %	3.7 %	0.8 %	75.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0026 ppm	0.7047 ppm	0.0033 ppm	0.0116 ppm	0.3134 ppm	0.0008 ppm	0.0165 ppm
Concentration per Run	0.0023 ppm	0.7199 ppm	0.0023 ppm	0.0117 ppm	0.3129 ppm	0.0003 ppm	0.0163 ppm
Concentration per Run	0.0022 ppm	0.6871 ppm	0.0039 ppm	0.0116 ppm	0.3135 ppm	0.0008 ppm	0.0165 ppm
Concentration per Run	0.0034 ppm	0.7071 ppm	0.0039 ppm	0.0116 ppm	0.3139 ppm	0.0013 ppm	0.0167 ppm
Concentration RSD	24.7 %	2.3 %	27.3 %	0.4 %	0.2 %	66.2 %	1.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0964 ppm	101.2455 %	102.7406 %	99.8761 %	100.8629 %	103.0006 %	100.7377 %
Concentration per Run	0.0960 ppm	101.5476 %	102.6965 %	100.1483 %	101.4195 %	102.9615 %	102.2844 %
Concentration per Run	0.0965 ppm	100.7038 %	102.5317 %	99.5982 %	100.0322 %	102.2721 %	100.0027 %
Concentration per Run	0.0967 ppm	101.4853 %	102.9935 %	99.8819 %	101.1369 %	103.7681 %	99.9259 %
Concentration RSD	0.4 %	0.5 %	0.2 %	0.3 %	0.7 %	0.7 %	1.3 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCV
Analysis started at: 6/24/2025 12:50:58 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5386 ppm	0.5013 ppm	0.5017 ppm	0.5309 ppm	0.5265 ppm	0.5214 ppm	0.5194 ppm
Concentration per Run	0.5381 ppm	0.5028 ppm	0.4996 ppm	0.5285 ppm	0.5291 ppm	0.5203 ppm	0.5146 ppm
Concentration per Run	0.5389 ppm	0.4983 ppm	0.5050 ppm	0.5300 ppm	0.5266 ppm	0.5203 ppm	0.5153 ppm
Concentration per Run	0.5388 ppm	0.5029 ppm	0.5005 ppm	0.5342 ppm	0.5237 ppm	0.5235 ppm	0.5282 ppm
Recovery Percentage	107.720 %	100.259 %	100.338 %	106.180 %	105.291 %	104.272 %	103.878 %
Concentration RSD	0.1 %	0.5 %	0.6 %	0.6 %	0.5 %	0.4 %	1.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5205 ppm	0.5302 ppm	0.5332 ppm	0.5347 ppm	0.5384 ppm	5.3168 ppm	0.5174 ppm
Concentration per Run	0.5194 ppm	0.5291 ppm	0.5312 ppm	0.5349 ppm	0.5379 ppm	5.3398 ppm	0.5193 ppm
Concentration per Run	0.5193 ppm	0.5288 ppm	0.5329 ppm	0.5351 ppm	0.5353 ppm	5.2981 ppm	0.5212 ppm
Concentration per Run	0.5228 ppm	0.5326 ppm	0.5356 ppm	0.5342 ppm	0.5418 ppm	5.3126 ppm	0.5119 ppm
Recovery Percentage	104.100 %	106.034 %	106.643 %	106.945 %	107.673 %	106.336 %	103.490 %
Concentration RSD	0.4 %	0.4 %	0.4 %	0.1 %	0.6 %	0.4 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5396 ppm	0.5289 ppm	0.5139 ppm	10.6784 ppm	0.5350 ppm	0.5190 ppm	0.5342 ppm
Concentration per Run	0.5403 ppm	0.5272 ppm	0.5100 ppm	10.7511 ppm	0.5335 ppm	0.5203 ppm	0.5371 ppm
Concentration per Run	0.5373 ppm	0.5260 ppm	0.5141 ppm	10.6309 ppm	0.5354 ppm	0.5199 ppm	0.5351 ppm
Concentration per Run	0.5412 ppm	0.5334 ppm	0.5175 ppm	10.6533 ppm	0.5361 ppm	0.5169 ppm	0.5303 ppm
Recovery Percentage	107.919 %	105.771 %	102.776 %	106.784 %	107.002 %	103.800 %	106.841 %
Concentration RSD	0.4 %	0.7 %	0.7 %	0.6 %	0.3 %	0.4 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.5178 ppm	5.8669 ppm	0.5308 ppm	0.5297 ppm	0.5470 ppm	0.5225 ppm	0.5429 ppm
Concentration per Run	0.5187 ppm	5.8574 ppm	0.5282 ppm	0.5321 ppm	0.5456 ppm	0.5234 ppm	0.5419 ppm
Concentration per Run	0.5192 ppm	5.8659 ppm	0.5317 ppm	0.5285 ppm	0.5477 ppm	0.5239 ppm	0.5428 ppm
Concentration per Run	0.5154 ppm	5.8775 ppm	0.5325 ppm	0.5286 ppm	0.5477 ppm	0.5202 ppm	0.5440 ppm
Recovery Percentage	103.554 %	111.751 %	106.165 %	105.948 %	109.402 %	104.499 %	108.581 %
Concentration RSD	0.4 %	0.2 %	0.4 %	0.4 %	0.2 %	0.4 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5378 ppm	101.1002 %	101.9225 %	99.5457 %	99.2488 %	101.0609 %	99.8123 %
Concentration per Run	0.5371 ppm	100.8879 %	102.0264 %	99.0424 %	98.8197 %	101.9820 %	101.1406 %
Concentration per Run	0.5358 ppm	101.4897 %	102.2805 %	99.6202 %	99.8366 %	100.3212 %	99.3527 %
Concentration per Run	0.5405 ppm	100.9232 %	101.4606 %	99.9746 %	99.0900 %	100.8795 %	98.9438 %
Recovery Percentage	107.554 %						
Concentration RSD	0.5 %	0.3 %	0.4 %	0.5 %	0.5 %	0.8 %	1.2 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCB
 Analysis started at: 6/24/2025 12:54:21 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	0.0005 ppm	-0.0008 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0076 ppm
Concentration per Run	-0.0003 ppm	-0.0003 ppm	-0.0011 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0078 ppm
Concentration per Run	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0073 ppm
Concentration per Run	-0.0004 ppm	0.0016 ppm	-0.0014 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0076 ppm
Recovery Percentage	-5.401 %	0.501 %	-16.636 %	2.545 %	-0.040 %	0.346 %	7.556 %
Concentration RSD	54.4 %	192.6 %	92.7 %	35.3 %	1,053.2 %	74.0 %	3.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0005 ppm	0.0001 ppm	-0.0003 ppm	0.0012 ppm	-0.0176 ppm	0.0002 ppm
Concentration per Run	0.0000 ppm	-0.0008 ppm	-0.0001 ppm	-0.0002 ppm	0.0008 ppm	-0.0129 ppm	0.0001 ppm
Concentration per Run	0.0000 ppm	-0.0004 ppm	0.0004 ppm	-0.0002 ppm	0.0011 ppm	-0.0267 ppm	0.0000 ppm
Concentration per Run	0.0002 ppm	-0.0003 ppm	0.0000 ppm	-0.0004 ppm	0.0016 ppm	-0.0131 ppm	0.0005 ppm
Recovery Percentage	2.022 %	-4.926 %	0.933 %	-2.739 %	2.357 %	-0.702 %	1.829 %
Concentration RSD	98.6 %	55.9 %	250.5 %	46.0 %	31.6 %	44.9 %	132.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0016 ppm	0.0001 ppm	0.0021 ppm	-0.0043 ppm	0.0001 ppm	-0.0002 ppm	0.0039 ppm
Concentration per Run	0.0033 ppm	0.0002 ppm	0.0020 ppm	-0.0014 ppm	0.0003 ppm	-0.0005 ppm	0.0059 ppm
Concentration per Run	0.0009 ppm	0.0000 ppm	0.0026 ppm	-0.0056 ppm	0.0001 ppm	0.0011 ppm	0.0038 ppm
Concentration per Run	0.0008 ppm	0.0001 ppm	0.0018 ppm	-0.0059 ppm	0.0000 ppm	-0.0012 ppm	0.0019 ppm
Recovery Percentage	1.650 %	1.387 %	4.253 %	-0.215 %	0.425 %	-2.031 %	7.778 %
Concentration RSD	88.5 %	69.3 %	19.6 %	58.0 %	152.0 %	560.5 %	51.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0021 ppm	0.0022 ppm	0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0017 ppm	0.0001 ppm
Concentration per Run	0.0017 ppm	0.0032 ppm	0.0003 ppm	0.0000 ppm	0.0014 ppm	0.0024 ppm	0.0001 ppm
Concentration per Run	0.0020 ppm	0.0017 ppm	0.0011 ppm	0.0000 ppm	0.0014 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run	0.0025 ppm	0.0017 ppm	-0.0007 ppm	0.0001 ppm	0.0012 ppm	0.0015 ppm	0.0000 ppm
Recovery Percentage	20.610 %	0.442 %	0.386 %	0.156 %	13.362 %	8.490 %	0.822 %
Concentration RSD	20.2 %	39.2 %	466.3 %	246.5 %	9.2 %	38.4 %	125.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	99.0895 %	100.4084 %	97.9147 %	99.6000 %	101.5901 %	98.4234 %
Concentration per Run	0.0003 ppm	99.8955 %	100.7461 %	97.9874 %	100.7065 %	101.8477 %	97.9543 %
Concentration per Run	0.0002 ppm	98.8328 %	100.5265 %	97.9461 %	99.2264 %	101.3361 %	98.9017 %
Concentration per Run	0.0001 ppm	98.5403 %	99.9525 %	97.8106 %	98.8670 %	101.5865 %	98.4142 %
Recovery Percentage	3.865 %						
Concentration RSD	42.5 %	0.7 %	0.4 %	0.1 %	1.0 %	0.3 %	0.5 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: LDR Fe 500
 Analysis started at: 6/24/2025 2:25:55 PM
 Rack: 1
 Vial: 30
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0045 ppm	0.0417 ppm	-0.0068 ppm	0.0012 ppm	0.0005 ppm	0.0000 ppm	0.0145 ppm
Concentration per Run	0.0047 ppm	0.0413 ppm	-0.0074 ppm	0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0143 ppm
Concentration per Run	0.0049 ppm	0.0398 ppm	-0.0082 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm	0.0138 ppm
Concentration per Run	0.0038 ppm	0.0441 ppm	-0.0049 ppm	0.0024 ppm	0.0005 ppm	0.0000 ppm	0.0155 ppm
Concentration RSD	13.3 %	5.2 %	24.7 %	91.3 %	6.6 %	488.0 %	6.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0050 ppm	-0.0026 ppm	0.0002 ppm	-0.0266 ppm	502.3034 [SIC 500]	-0.1077 ppm	0.0006 ppm
Concentration per Run	-0.0049 ppm	-0.0028 ppm	0.0002 ppm	-0.0267 ppm	501.6545 ppm	-0.1048 ppm	0.0006 ppm
Concentration per Run	-0.0050 ppm	-0.0025 ppm	0.0003 ppm	-0.0264 ppm	501.6269 ppm	-0.1138 ppm	0.0005 ppm
Concentration per Run	-0.0050 ppm	-0.0027 ppm	0.0001 ppm	-0.0267 ppm	503.6289 ppm	-0.1046 ppm	0.0007 ppm
Concentration RSD	1.0 %	4.7 %	45.3 %	0.7 %	0.2 %	4.9 %	17.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0771 ppm	0.0010 ppm	-0.0036 ppm	0.0033 ppm	-0.0016 ppm	0.0017 ppm	0.0243 ppm
Concentration per Run	-0.0769 ppm	0.0010 ppm	-0.0034 ppm	0.0044 ppm	-0.0023 ppm	0.0020 ppm	0.0264 ppm
Concentration per Run	-0.0785 ppm	0.0010 ppm	-0.0039 ppm	0.0031 ppm	-0.0013 ppm	0.0011 ppm	0.0234 ppm
Concentration per Run	-0.0760 ppm	0.0008 ppm	-0.0036 ppm	0.0022 ppm	-0.0011 ppm	0.0020 ppm	0.0230 ppm
Concentration RSD	1.7 %	11.7 %	7.1 %	34.3 %	40.7 %	31.8 %	7.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0041 ppm	0.0016 ppm	0.0020 ppm	0.0010 ppm	0.0009 ppm	0.0033 ppm	0.0016 ppm
Concentration per Run	0.0044 ppm	0.0010 ppm	0.0018 ppm	0.0010 ppm	0.0010 ppm	0.0028 ppm	0.0015 ppm
Concentration per Run	0.0056 ppm	0.0033 ppm	0.0024 ppm	0.0012 ppm	0.0009 ppm	0.0044 ppm	0.0016 ppm
Concentration per Run	0.0023 ppm	0.0007 ppm	0.0019 ppm	0.0010 ppm	0.0009 ppm	0.0026 ppm	0.0017 ppm
Concentration RSD	40.9 %	87.1 %	15.2 %	11.1 %	7.0 %	30.5 %	7.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	106.6902 %	99.7507 %	94.6840 %	102.8303 %	99.2728 %	105.6119 %
Concentration per Run	0.0001 ppm	107.1712 %	99.8316 %	94.6929 %	102.8194 %	99.9280 %	105.7755 %
Concentration per Run	0.0002 ppm	106.2899 %	99.7331 %	94.6432 %	102.6109 %	99.7894 %	106.2124 %
Concentration per Run	0.0002 ppm	106.6093 %	99.6875 %	94.7158 %	103.0605 %	98.1010 %	104.8479 %
Concentration RSD	19.2 %	0.4 %	0.1 %	0.0 %	0.2 %	1.0 %	0.7 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: eL2537380-01d5 WG2082501
 Analysis started at: 6/24/2025 2:29:31 PM
 Rack: 1
 Vial: 29
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0033 ppm	240.1059 ppm	-0.0016 ppm	0.3154 ppm	1.8252 ppm	0.0197 ppm	206.8122 ppm
Concentration per Run	-0.0034 ppm	240.5858 ppm	-0.0020 ppm	0.3164 ppm	1.8168 ppm	0.0198 ppm	206.3356 ppm
Concentration per Run	-0.0033 ppm	239.2753 ppm	-0.0009 ppm	0.3149 ppm	1.8251 ppm	0.0196 ppm	207.0955 ppm
Concentration per Run	-0.0030 ppm	240.4566 ppm	-0.0018 ppm	0.3149 ppm	1.8337 ppm	0.0197 ppm	207.0055 ppm
Concentration RSD	6.6 %	0.3 %	35.9 %	0.3 %	0.5 %	0.5 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0076 ppm	0.0762 ppm	0.3726 ppm	0.0615 ppm	522.1690 [SIC 500]	28.3778 ppm	0.2075 ppm
Concentration per Run	-0.0077 ppm	0.0762 ppm	0.3746 ppm	0.0609 ppm	522.3568 ppm	28.2145 ppm	0.2071 ppm
Concentration per Run	-0.0077 ppm	0.0759 ppm	0.3736 ppm	0.0616 ppm	521.3640 ppm	28.3198 ppm	0.2075 ppm
Concentration per Run	-0.0075 ppm	0.0764 ppm	0.3697 ppm	0.0619 ppm	522.7861 ppm	28.5992 ppm	0.2079 ppm
Concentration RSD	1.5 %	0.3 %	0.7 %	0.9 %	0.1 %	0.7 %	0.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	17.6764 ppm	1.1129 ppm	0.0037 ppm	8.4623 ppm	0.2567 ppm	0.0156 ppm	0.0223 ppm
Concentration per Run	17.7424 ppm	1.1149 ppm	0.0039 ppm	8.4800 ppm	0.2577 ppm	0.0143 ppm	0.0227 ppm
Concentration per Run	17.7705 ppm	1.1116 ppm	0.0043 ppm	8.4138 ppm	0.2576 ppm	0.0155 ppm	0.0190 ppm
Concentration per Run	17.5162 ppm	1.1122 ppm	0.0030 ppm	8.4932 ppm	0.2549 ppm	0.0172 ppm	0.0253 ppm
Concentration RSD	0.8 %	0.2 %	18.8 %	0.5 %	0.6 %	9.1 %	14.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0039 ppm	13.5249 [SIC 200]	0.0040 ppm	1.3976 ppm	7.6097 ppm	-0.0020 ppm	0.5084 ppm
Concentration per Run	0.0039 ppm	13.5645 ppm	0.0035 ppm	1.3969 ppm	7.6390 ppm	-0.0012 ppm	0.5102 ppm
Concentration per Run	0.0055 ppm	13.5170 ppm	0.0051 ppm	1.3939 ppm	7.6206 ppm	-0.0022 ppm	0.5084 ppm
Concentration per Run	0.0022 ppm	13.4931 ppm	0.0034 ppm	1.4019 ppm	7.5694 ppm	-0.0026 ppm	0.5066 ppm
Concentration RSD	42.7 %	0.3 %	23.2 %	0.3 %	0.5 %	37.5 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1133 ppm	99.7707 %	100.1731 %	86.4311 %	128.3629 %	164.6707 %	154.2496 %
Concentration per Run	0.1146 ppm	99.3649 %	99.6958 %	86.8072 %	127.6631 %	165.8979 %	154.3727 %
Concentration per Run	0.1136 ppm	99.5723 %	100.9386 %	86.0780 %	128.1542 %	164.6798 %	153.6817 %
Concentration per Run	0.1117 ppm	100.3749 %	99.8849 %	86.4082 %	129.2712 %	163.4344 %	154.6944 %
Concentration RSD	1.3 %	0.5 %	0.7 %	0.4 %	0.6 %	0.7 %	0.3 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537380-01d10 WG2082501
 Analysis started at: 6/24/2025 2:38:48 PM
 Rack: 1
 Vial: 31
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0005 ppm	126.3510 ppm	0.0002 ppm	0.1595 ppm	1.0229 ppm	0.0104 ppm	115.9140 ppm
Concentration per Run	-0.0007 ppm	128.0270 ppm	0.0014 ppm	0.1560 ppm	1.0001 ppm	0.0107 ppm	114.4076 ppm
Concentration per Run	-0.0001 ppm	122.5144 ppm	-0.0013 ppm	0.1616 ppm	1.0777 ppm	0.0099 ppm	118.8445 ppm
Concentration per Run	-0.0007 ppm	128.5115 ppm	0.0005 ppm	0.1610 ppm	0.9909 ppm	0.0107 ppm	114.4899 ppm
Concentration RSD	66.9 %	2.6 %	702.1 %	1.9 %	4.7 %	4.5 %	2.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0040 ppm	0.0401 ppm	0.1942 ppm	0.0328 ppm	309.9768 ppm	15.0478 ppm	0.1146 ppm
Concentration per Run	-0.0039 ppm	0.0395 ppm	0.1922 ppm	0.0326 ppm	314.4732 ppm	15.0569 ppm	0.1109 ppm
Concentration per Run	-0.0042 ppm	0.0399 ppm	0.1950 ppm	0.0329 ppm	300.1741 ppm	14.9398 ppm	0.1238 ppm
Concentration per Run	-0.0039 ppm	0.0409 ppm	0.1954 ppm	0.0330 ppm	315.2831 ppm	15.1467 ppm	0.1091 ppm
Concentration RSD	4.6 %	1.8 %	0.9 %	0.6 %	2.7 %	0.7 %	7.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	9.2281 ppm	0.6088 ppm	0.0016 ppm	4.3417 ppm	0.1343 ppm	0.0084 ppm	0.0129 ppm
Concentration per Run	9.1267 ppm	0.6098 ppm	0.0016 ppm	4.4670 ppm	0.1332 ppm	0.0087 ppm	0.0142 ppm
Concentration per Run	9.2482 ppm	0.6038 ppm	0.0018 ppm	4.0522 ppm	0.1350 ppm	0.0075 ppm	0.0131 ppm
Concentration per Run	9.3095 ppm	0.6127 ppm	0.0014 ppm	4.5058 ppm	0.1347 ppm	0.0090 ppm	0.0115 ppm
Concentration RSD	1.0 %	0.7 %	14.3 %	5.8 %	0.7 %	9.8 %	10.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0015 ppm	7.0611 ppm	0.0018 ppm	0.7638 ppm	3.9896 ppm	0.0007 ppm	0.2661 ppm
Concentration per Run	0.0040 ppm	7.0062 ppm	0.0020 ppm	0.7609 ppm	3.9511 ppm	0.0010 ppm	0.2639 ppm
Concentration per Run	0.0007 ppm	7.0886 ppm	0.0015 ppm	0.7715 ppm	3.9963 ppm	0.0005 ppm	0.2668 ppm
Concentration per Run	-0.0002 ppm	7.0883 ppm	0.0017 ppm	0.7592 ppm	4.0214 ppm	0.0006 ppm	0.2676 ppm
Concentration RSD	144.8 %	0.7 %	14.4 %	0.9 %	0.9 %	33.9 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0596 ppm	103.4702 %	99.2428 %	93.4652 %	117.6293 %	132.1216 %	135.8844 %
Concentration per Run	0.0594 ppm	104.4661 %	96.8716 %	94.0051 %	118.2330 %	138.6088 %	136.1806 %
Concentration per Run	0.0598 ppm	103.3728 %	104.9141 %	93.2979 %	117.3118 %	118.7109 %	135.1933 %
Concentration per Run	0.0597 ppm	102.5715 %	95.9427 %	93.0926 %	117.3433 %	139.0452 %	136.2791 %
Concentration RSD	0.3 %	0.9 %	5.0 %	0.5 %	0.4 %	8.8 %	0.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCV
 Analysis started at: 6/24/2025 2:44:24 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5434 ppm	0.5083 ppm	0.5029 ppm	0.5373 ppm	0.5371 ppm	0.5305 ppm	0.5310 ppm
Concentration per Run	0.5454 ppm	0.5081 ppm	0.5015 ppm	0.5376 ppm	0.5337 ppm	0.5291 ppm	0.5286 ppm
Concentration per Run	0.5426 ppm	0.5118 ppm	0.5055 ppm	0.5348 ppm	0.5381 ppm	0.5296 ppm	0.5277 ppm
Concentration per Run	0.5422 ppm	0.5050 ppm	0.5017 ppm	0.5394 ppm	0.5395 ppm	0.5329 ppm	0.5368 ppm
Recovery Percentage	108.682 %	101.659 %	100.579 %	107.452 %	107.416 %	106.105 %	106.206 %
Concentration RSD	0.3 %	0.7 %	0.4 %	0.4 %	0.6 %	0.4 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5125 ppm	0.5288 ppm	0.5302 ppm	0.5391 ppm	0.5528 ppm	5.3796 ppm	0.5478 ppm
Concentration per Run	0.5143 ppm	0.5304 ppm	0.5326 ppm	0.5409 ppm	0.5549 ppm	5.3866 ppm	0.5441 ppm
Concentration per Run	0.5136 ppm	0.5283 ppm	0.5300 ppm	0.5391 ppm	0.5530 ppm	5.3819 ppm	0.5519 ppm
Concentration per Run	0.5095 ppm	0.5279 ppm	0.5279 ppm	0.5374 ppm	0.5505 ppm	5.3704 ppm	0.5475 ppm
Recovery Percentage	102.494 %	105.769 %	106.033 %	107.825 %	110.563 %	107.592 %	109.565 %
Concentration RSD	0.5 %	0.2 %	0.4 %	0.3 %	0.4 %	0.2 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5349 ppm	0.5380 ppm	0.5095 ppm	10.8254 ppm	0.5323 ppm	0.5239 ppm	0.5294 ppm
Concentration per Run	0.5410 ppm	0.5371 ppm	0.5081 ppm	10.8579 ppm	0.5328 ppm	0.5262 ppm	0.5309 ppm
Concentration per Run	0.5343 ppm	0.5368 ppm	0.5092 ppm	10.8351 ppm	0.5317 ppm	0.5241 ppm	0.5319 ppm
Concentration per Run	0.5293 ppm	0.5400 ppm	0.5113 ppm	10.7832 ppm	0.5323 ppm	0.5213 ppm	0.5255 ppm
Recovery Percentage	106.974 %	107.595 %	101.908 %	108.254 %	106.457 %	104.778 %	105.883 %
Concentration RSD	1.1 %	0.3 %	0.3 %	0.4 %	0.1 %	0.5 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.5207 ppm	5.9306 ppm	0.5114 ppm	0.5424 ppm	0.5453 ppm	0.5262 ppm	0.5455 ppm
Concentration per Run	0.5201 ppm	5.9428 ppm	0.5136 ppm	0.5401 ppm	0.5480 ppm	0.5291 ppm	0.5459 ppm
Concentration per Run	0.5208 ppm	5.9263 ppm	0.5102 ppm	0.5430 ppm	0.5458 ppm	0.5260 ppm	0.5455 ppm
Concentration per Run	0.5214 ppm	5.9226 ppm	0.5104 ppm	0.5440 ppm	0.5421 ppm	0.5235 ppm	0.5452 ppm
Recovery Percentage	104.149 %	112.963 %	102.274 %	108.475 %	109.053 %	105.240 %	109.105 %
Concentration RSD	0.1 %	0.2 %	0.4 %	0.4 %	0.5 %	0.5 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5355 ppm	100.1529 %	99.4320 %	97.6457 %	98.2316 %	98.0521 %	96.8585 %
Concentration per Run	0.5363 ppm	100.5183 %	99.4040 %	97.4090 %	98.7968 %	98.9583 %	96.5529 %
Concentration per Run	0.5345 ppm	99.6511 %	99.7625 %	97.3411 %	97.8092 %	98.1485 %	97.1000 %
Concentration per Run	0.5357 ppm	100.2894 %	99.1297 %	98.1869 %	98.0889 %	97.0497 %	96.9225 %
Recovery Percentage	107.098 %						
Concentration RSD	0.2 %	0.4 %	0.3 %	0.5 %	0.5 %	1.0 %	0.3 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCB
 Analysis started at: 6/24/2025 2:47:51 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0002 ppm	0.0021 ppm	-0.0007 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0088 ppm
Concentration per Run	-0.0002 ppm	0.0026 ppm	-0.0006 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0090 ppm
Concentration per Run	-0.0001 ppm	0.0030 ppm	-0.0017 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0083 ppm
Concentration per Run	-0.0004 ppm	0.0007 ppm	0.0004 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0092 ppm
Recovery Percentage	-4.260 %	2.077 %	-13.148 %	3.079 %	0.461 %	0.462 %	8.846 %
Concentration RSD	71.2 %	59.8 %	156.0 %	66.1 %	39.8 %	65.3 %	5.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0039 ppm	-0.0199 ppm	0.0005 ppm
Concentration per Run	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0030 ppm	-0.0175 ppm	0.0006 ppm
Concentration per Run	0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0054 ppm	-0.0146 ppm	0.0006 ppm
Concentration per Run	0.0001 ppm	-0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0032 ppm	-0.0276 ppm	0.0003 ppm
Recovery Percentage	2.810 %	-3.680 %	0.468 %	-0.683 %	7.754 %	-0.795 %	5.003 %
Concentration RSD	26.9 %	44.1 %	196.2 %	286.4 %	34.9 %	34.3 %	36.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0015 ppm	0.0001 ppm	0.0018 ppm	-0.0053 ppm	0.0000 ppm	0.0005 ppm	0.0023 ppm
Concentration per Run	0.0018 ppm	0.0001 ppm	0.0021 ppm	-0.0055 ppm	0.0003 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run	0.0016 ppm	0.0001 ppm	0.0017 ppm	-0.0051 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run	0.0012 ppm	0.0001 ppm	0.0015 ppm	-0.0053 ppm	-0.0002 ppm	0.0009 ppm	0.0054 ppm
Recovery Percentage	1.520 %	1.388 %	3.509 %	-0.266 %	0.163 %	5.476 %	4.574 %
Concentration RSD	20.2 %	4.8 %	17.9 %	4.6 %	614.0 %	76.4 %	116.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0034 ppm	0.0023 ppm	0.0003 ppm	0.0000 ppm	0.0013 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run	0.0039 ppm	0.0022 ppm	0.0005 ppm	0.0000 ppm	0.0013 ppm	0.0017 ppm	0.0003 ppm
Concentration per Run	0.0036 ppm	0.0023 ppm	0.0004 ppm	0.0000 ppm	0.0014 ppm	0.0027 ppm	0.0002 ppm
Concentration per Run	0.0027 ppm	0.0024 ppm	-0.0001 ppm	0.0000 ppm	0.0012 ppm	0.0002 ppm	0.0005 ppm
Recovery Percentage	34.059 %	0.458 %	0.512 %	0.254 %	13.279 %	7.667 %	3.087 %
Concentration RSD	17.6 %	4.7 %	123.8 %	46.2 %	7.8 %	83.5 %	42.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	96.7742 %	97.5749 %	95.8568 %	97.5227 %	98.3442 %	97.2931 %
Concentration per Run	0.0003 ppm	96.2995 %	97.4755 %	95.9063 %	97.3579 %	98.0572 %	96.8326 %
Concentration per Run	0.0002 ppm	96.7759 %	97.7695 %	96.4593 %	97.3731 %	97.6178 %	98.7812 %
Concentration per Run	0.0000 ppm	97.2473 %	97.4796 %	95.2046 %	97.8371 %	99.3577 %	96.2655 %
Recovery Percentage	3.224 %						
Concentration RSD	96.1 %	0.5 %	0.2 %	0.7 %	0.3 %	0.9 %	1.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCV
 Analysis started at: 6/24/2025 2:54:24 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5186 ppm	0.4975 ppm	0.4730 ppm	0.4997 ppm	0.5302 ppm	0.5239 ppm	0.5291 ppm
Concentration per Run	0.5192 ppm	0.5009 ppm	0.4710 ppm	0.4970 ppm	0.5287 ppm	0.5245 ppm	0.5306 ppm
Concentration per Run	0.5190 ppm	0.4968 ppm	0.4751 ppm	0.5008 ppm	0.5303 ppm	0.5237 ppm	0.5277 ppm
Concentration per Run	0.5178 ppm	0.4948 ppm	0.4729 ppm	0.5013 ppm	0.5315 ppm	0.5236 ppm	0.5292 ppm
Recovery Percentage	103.729 %	99.496 %	94.600 %	99.945 %	106.033 %	104.788 %	105.830 %
Concentration RSD	0.2 %	0.6 %	0.4 %	0.5 %	0.3 %	0.1 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4841 ppm	0.5078 ppm	0.5121 ppm	0.5237 ppm	0.5404 ppm	5.2784 ppm	0.5294 ppm
Concentration per Run	0.4843 ppm	0.5079 ppm	0.5165 ppm	0.5224 ppm	0.5441 ppm	5.3125 ppm	0.5276 ppm
Concentration per Run	0.4847 ppm	0.5081 ppm	0.5108 ppm	0.5247 ppm	0.5370 ppm	5.2721 ppm	0.5290 ppm
Concentration per Run	0.4832 ppm	0.5073 ppm	0.5091 ppm	0.5239 ppm	0.5400 ppm	5.2504 ppm	0.5318 ppm
Recovery Percentage	96.813 %	101.556 %	102.428 %	104.738 %	108.073 %	105.567 %	105.887 %
Concentration RSD	0.2 %	0.1 %	0.8 %	0.2 %	0.7 %	0.6 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5078 ppm	0.5316 ppm	0.4921 ppm	10.6364 ppm	0.5097 ppm	0.5095 ppm	0.4952 ppm
Concentration per Run	0.5121 ppm	0.5325 ppm	0.4913 ppm	10.6723 ppm	0.5113 ppm	0.5105 ppm	0.4980 ppm
Concentration per Run	0.5065 ppm	0.5306 ppm	0.4925 ppm	10.6251 ppm	0.5089 ppm	0.5082 ppm	0.4963 ppm
Concentration per Run	0.5047 ppm	0.5316 ppm	0.4926 ppm	10.6118 ppm	0.5090 ppm	0.5097 ppm	0.4914 ppm
Recovery Percentage	101.557 %	106.311 %	98.425 %	106.364 %	101.941 %	101.897 %	99.044 %
Concentration RSD	0.8 %	0.2 %	0.2 %	0.3 %	0.3 %	0.2 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4846 ppm	5.5575 ppm	0.5017 ppm	0.5312 ppm	0.5321 ppm	0.5201 ppm	0.5265 ppm
Concentration per Run	0.4825 ppm	5.5618 ppm	0.5052 ppm	0.5307 ppm	0.5385 ppm	0.5215 ppm	0.5272 ppm
Concentration per Run	0.4859 ppm	5.5566 ppm	0.4998 ppm	0.5313 ppm	0.5280 ppm	0.5199 ppm	0.5267 ppm
Concentration per Run	0.4853 ppm	5.5542 ppm	0.5002 ppm	0.5317 ppm	0.5299 ppm	0.5191 ppm	0.5254 ppm
Recovery Percentage	96.918 %	105.858 %	100.344 %	106.249 %	106.428 %	104.028 %	105.292 %
Concentration RSD	0.4 %	0.1 %	0.6 %	0.1 %	1.0 %	0.2 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5018 ppm	109.9203 %	101.3217 %	104.3480 %	107.1248 %	100.1418 %	102.9073 %
Concentration per Run	0.5010 ppm	110.1708 %	101.4767 %	104.3054 %	107.2694 %	101.1326 %	102.6983 %
Concentration per Run	0.5024 ppm	109.8115 %	101.2107 %	104.3267 %	106.8362 %	99.5075 %	103.2781 %
Concentration per Run	0.5020 ppm	109.7787 %	101.2778 %	104.4119 %	107.2689 %	99.7854 %	102.7454 %
Recovery Percentage	100.364 %						
Concentration RSD	0.1 %	0.2 %	0.1 %	0.1 %	0.2 %	0.9 %	0.3 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCB
 Analysis started at: 6/24/2025 2:58:00 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	-0.0008 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0080 ppm
Concentration per Run	-0.0002 ppm	-0.0015 ppm	0.0002 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0073 ppm
Concentration per Run	-0.0005 ppm	-0.0003 ppm	0.0011 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0085 ppm
Concentration per Run	-0.0002 ppm	-0.0006 ppm	-0.0005 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0083 ppm
Recovery Percentage	-6.000 %	-0.816 %	5.185 %	1.457 %	-0.309 %	0.147 %	8.040 %
Concentration RSD	67.3 %	78.2 %	303.1 %	210.3 %	54.6 %	222.3 %	8.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0016 ppm	-0.0197 ppm	0.0003 ppm
Concentration per Run	0.0000 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0013 ppm	-0.0300 ppm	0.0005 ppm
Concentration per Run	0.0000 ppm	-0.0004 ppm	0.0000 ppm	-0.0003 ppm	0.0020 ppm	-0.0146 ppm	-0.0003 ppm
Concentration per Run	0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0013 ppm	-0.0143 ppm	0.0006 ppm
Recovery Percentage	1.043 %	-4.127 %	0.287 %	-0.643 %	3.109 %	-0.786 %	2.838 %
Concentration RSD	141.0 %	7.9 %	303.2 %	300.5 %	27.4 %	45.7 %	179.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0010 ppm	0.0001 ppm	0.0018 ppm	-0.0044 ppm	0.0003 ppm	-0.0007 ppm	0.0021 ppm
Concentration per Run	0.0008 ppm	0.0001 ppm	0.0018 ppm	-0.0045 ppm	0.0004 ppm	0.0001 ppm	0.0030 ppm
Concentration per Run	0.0000 ppm	0.0001 ppm	0.0021 ppm	-0.0029 ppm	0.0005 ppm	-0.0010 ppm	0.0012 ppm
Concentration per Run	0.0023 ppm	0.0001 ppm	0.0014 ppm	-0.0058 ppm	-0.0001 ppm	-0.0011 ppm	0.0020 ppm
Recovery Percentage	1.010 %	1.378 %	3.541 %	-0.219 %	1.111 %	-6.802 %	4.154 %
Concentration RSD	116.3 %	5.0 %	20.3 %	33.3 %	110.9 %	96.7 %	44.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0038 ppm	0.0031 ppm	0.0007 ppm	0.0000 ppm	0.0012 ppm	0.0023 ppm	0.0003 ppm
Concentration per Run	0.0041 ppm	0.0043 ppm	0.0006 ppm	0.0000 ppm	0.0011 ppm	0.0027 ppm	0.0003 ppm
Concentration per Run	0.0020 ppm	0.0033 ppm	0.0008 ppm	0.0000 ppm	0.0012 ppm	0.0018 ppm	0.0003 ppm
Concentration per Run	0.0054 ppm	0.0017 ppm	0.0007 ppm	0.0000 ppm	0.0011 ppm	0.0024 ppm	0.0003 ppm
Recovery Percentage	38.377 %	0.616 %	1.386 %	0.198 %	11.515 %	11.443 %	2.781 %
Concentration RSD	45.7 %	42.7 %	13.7 %	47.5 %	3.6 %	21.3 %	8.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	100.4368 %	100.2424 %	98.8456 %	101.5652 %	102.4683 %	101.4817 %
Concentration per Run	0.0002 ppm	100.7551 %	100.5222 %	98.9699 %	101.8446 %	102.3234 %	101.6356 %
Concentration per Run	0.0002 ppm	100.0773 %	100.5497 %	98.7694 %	101.2113 %	102.4057 %	100.8493 %
Concentration per Run	0.0001 ppm	100.4778 %	99.6554 %	98.7975 %	101.6398 %	102.6757 %	101.9601 %
Recovery Percentage	3.159 %						
Concentration RSD	40.8 %	0.3 %	0.5 %	0.1 %	0.3 %	0.2 %	0.6 %

ICP DataTrace 8

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LabBook: WG2082583_06242025T8.imexp

Sample: WG2082496-1 WG2082496
 Analysis started at: 6/24/2025 3:23:06 PM
 Rack: 1
 Vial: 32
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0005 ppm	0.2083 ppm	0.0012 ppm	0.0006 ppm	0.0175 ppm	0.0000 ppm	0.4498 ppm
Concentration per Run	-0.0006 ppm	0.2091 ppm	0.0021 ppm	0.0008 ppm	0.0175 ppm	0.0000 ppm	0.4499 ppm
Concentration per Run	-0.0002 ppm	0.2101 ppm	0.0022 ppm	0.0007 ppm	0.0175 ppm	0.0000 ppm	0.4499 ppm
Concentration per Run	-0.0006 ppm	0.2056 ppm	-0.0008 ppm	0.0004 ppm	0.0175 ppm	0.0000 ppm	0.4496 ppm
Recovery Percentage	-9.036 %	208.258 %	23.297 %	2.084 %	175.289 %	0.162 %	449.801 %
Concentration RSD	55.4 %	1.1 %	145.8 %	29.8 %	0.1 %	177.5 %	0.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0181 ppm	0.0216 ppm	1.4558 ppm	0.0179 ppm	0.0005 ppm
Concentration per Run	0.0000 ppm	-0.0002 ppm	0.0182 ppm	0.0217 ppm	1.4534 ppm	0.0217 ppm	0.0005 ppm
Concentration per Run	0.0002 ppm	-0.0003 ppm	0.0180 ppm	0.0215 ppm	1.4553 ppm	0.0194 ppm	0.0007 ppm
Concentration per Run	0.0002 ppm	-0.0002 ppm	0.0181 ppm	0.0217 ppm	1.4587 ppm	0.0125 ppm	0.0004 ppm
Recovery Percentage	2.830 %	-2.436 %	181.369 %	216.053 %	2,911.536 %	0.715 %	5.437 %
Concentration RSD	82.5 %	22.8 %	0.6 %	0.4 %	0.2 %	27.0 %	23.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.1033 ppm	0.0147 ppm	0.0007 ppm	0.0227 ppm	0.0101 ppm	0.0043 ppm	0.0013 ppm
Concentration per Run	0.1032 ppm	0.0147 ppm	0.0004 ppm	0.0229 ppm	0.0102 ppm	0.0044 ppm	0.0025 ppm
Concentration per Run	0.1032 ppm	0.0147 ppm	0.0011 ppm	0.0216 ppm	0.0097 ppm	0.0046 ppm	0.0023 ppm
Concentration per Run	0.1035 ppm	0.0147 ppm	0.0005 ppm	0.0235 ppm	0.0104 ppm	0.0038 ppm	-0.0010 ppm
Recovery Percentage	103.326 %	146.833 %	1.346 %	1.133 %	40.377 %	42.583 %	2.553 %
Concentration RSD	0.2 %	0.2 %	55.2 %	4.2 %	3.7 %	9.6 %	153.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0021 ppm	0.1796 ppm	0.0086 ppm	0.0018 ppm	0.0135 ppm	0.0003 ppm	0.0057 ppm
Concentration per Run	0.0018 ppm	0.1775 ppm	0.0087 ppm	0.0019 ppm	0.0133 ppm	0.0004 ppm	0.0059 ppm
Concentration per Run	0.0026 ppm	0.1739 ppm	0.0087 ppm	0.0018 ppm	0.0132 ppm	0.0009 ppm	0.0057 ppm
Concentration per Run	0.0018 ppm	0.1875 ppm	0.0085 ppm	0.0018 ppm	0.0138 ppm	-0.0004 ppm	0.0055 ppm
Recovery Percentage	20.742 %	35.921 %	17.263 %	18.462 %	134.650 %	1.623 %	56.871 %
Concentration RSD	23.7 %	3.9 %	1.4 %	1.0 %	2.2 %	196.1 %	3.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0328 ppm	110.1633 %	102.5019 %	104.4434 %	109.8066 %	103.1104 %	105.6797 %
Concentration per Run	0.0330 ppm	109.7578 %	102.6007 %	104.2814 %	109.2045 %	103.5509 %	104.3759 %
Concentration per Run	0.0328 ppm	110.5300 %	102.3418 %	104.5202 %	109.9180 %	102.8185 %	105.8153 %
Concentration per Run	0.0328 ppm	110.2021 %	102.5630 %	104.5284 %	110.2973 %	102.9617 %	106.8478 %
Recovery Percentage	656.936 %						
Concentration RSD	0.4 %	0.4 %	0.1 %	0.1 %	0.5 %	0.4 %	1.2 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: xWG2082496-1 WG2082496
 Analysis started at: 6/24/2025 3:32:26 PM
 Rack: 1
 Vial: 51
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0002 ppm	0.2095 ppm	0.0008 ppm	0.0001 ppm	0.0281 ppm	0.0000 ppm	0.4724 ppm
Concentration per Run	-0.0005 ppm	0.2104 ppm	-0.0001 ppm	0.0006 ppm	0.0280 ppm	0.0000 ppm	0.4679 ppm
Concentration per Run	0.0000 ppm	0.2076 ppm	0.0006 ppm	0.0003 ppm	0.0282 ppm	0.0000 ppm	0.4752 ppm
Concentration per Run	-0.0002 ppm	0.2105 ppm	0.0017 ppm	-0.0006 ppm	0.0281 ppm	0.0000 ppm	0.4740 ppm
Recovery Percentage	-4.559 %	209.510 %	15.097 %	0.371 %	280.831 %	0.192 %	472.353 %
Concentration RSD	108.6 %	0.8 %	123.0 %	583.1 %	0.3 %	53.4 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0184 ppm	0.0221 ppm	1.4506 ppm	0.0155 ppm	0.0005 ppm
Concentration per Run	0.0000 ppm	-0.0004 ppm	0.0183 ppm	0.0219 ppm	1.4426 ppm	0.0225 ppm	0.0003 ppm
Concentration per Run	-0.0001 ppm	0.0001 ppm	0.0184 ppm	0.0223 ppm	1.4506 ppm	0.0108 ppm	0.0004 ppm
Concentration per Run	0.0000 ppm	-0.0006 ppm	0.0186 ppm	0.0221 ppm	1.4585 ppm	0.0131 ppm	0.0008 ppm
Recovery Percentage	-0.953 %	-2.935 %	184.492 %	220.570 %	2,901.133 %	0.619 %	4.950 %
Concentration RSD	207.1 %	112.1 %	0.8 %	0.9 %	0.5 %	40.2 %	49.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.1029 ppm	0.0149 ppm	0.0009 ppm	0.0225 ppm	0.0108 ppm	0.0045 ppm	0.0030 ppm
Concentration per Run	0.1026 ppm	0.0148 ppm	0.0004 ppm	0.0232 ppm	0.0106 ppm	0.0045 ppm	0.0020 ppm
Concentration per Run	0.1039 ppm	0.0149 ppm	0.0010 ppm	0.0229 ppm	0.0109 ppm	0.0050 ppm	0.0030 ppm
Concentration per Run	0.1020 ppm	0.0150 ppm	0.0012 ppm	0.0215 ppm	0.0110 ppm	0.0039 ppm	0.0039 ppm
Recovery Percentage	102.856 %	148.773 %	1.708 %	1.125 %	43.311 %	44.613 %	5.934 %
Concentration RSD	1.0 %	0.6 %	43.4 %	4.1 %	2.0 %	13.2 %	31.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0022 ppm	0.1859 ppm	0.0088 ppm	0.0021 ppm	0.0138 ppm	0.0006 ppm	0.0059 ppm
Concentration per Run	0.0008 ppm	0.1854 ppm	0.0085 ppm	0.0020 ppm	0.0136 ppm	0.0006 ppm	0.0058 ppm
Concentration per Run	0.0031 ppm	0.1831 ppm	0.0088 ppm	0.0020 ppm	0.0141 ppm	0.0006 ppm	0.0059 ppm
Concentration per Run	0.0027 ppm	0.1892 ppm	0.0091 ppm	0.0021 ppm	0.0138 ppm	0.0007 ppm	0.0059 ppm
Recovery Percentage	22.321 %	37.177 %	17.669 %	20.525 %	138.460 %	3.160 %	58.804 %
Concentration RSD	56.0 %	1.7 %	3.4 %	1.8 %	1.9 %	10.5 %	1.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0337 ppm	108.6699 %	102.6665 %	103.3038 %	107.9059 %	104.2047 %	104.0626 %
Concentration per Run	0.0335 ppm	109.2576 %	103.5827 %	101.5620 %	108.7975 %	104.3637 %	102.2905 %
Concentration per Run	0.0337 ppm	108.6572 %	102.2684 %	103.9198 %	107.9053 %	104.2072 %	104.8867 %
Concentration per Run	0.0340 ppm	108.0948 %	102.1484 %	104.4296 %	107.0150 %	104.0433 %	105.0106 %
Recovery Percentage	674.279 %						
Concentration RSD	0.7 %	0.5 %	0.8 %	1.5 %	0.8 %	0.2 %	1.5 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2082496-2d2 WG2082496
 Analysis started at: 6/24/2025 3:36:02 PM
 Rack: 1
 Vial: 33
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.3472 ppm	18.6555 ppm	0.8262 ppm	0.8085 ppm	1.1413 ppm	0.6847 ppm	17.7798 ppm
Concentration per Run	0.3472 ppm	18.6136 ppm	0.8246 ppm	0.8100 ppm	1.1364 ppm	0.6850 ppm	17.9127 ppm
Concentration per Run	0.3468 ppm	18.7297 ppm	0.8260 ppm	0.8102 ppm	1.1428 ppm	0.6848 ppm	17.7788 ppm
Concentration per Run	0.3475 ppm	18.6230 ppm	0.8280 ppm	0.8055 ppm	1.1448 ppm	0.6842 ppm	17.6479 ppm
Concentration RSD	0.1 %	0.3 %	0.2 %	0.3 %	0.4 %	0.1 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5072 ppm	1.0573 ppm	0.7054 ppm	0.4151 ppm	22.5817 ppm	6.2997 ppm	0.4158 ppm
Concentration per Run	0.5082 ppm	1.0576 ppm	0.7072 ppm	0.4149 ppm	22.6346 ppm	6.3140 ppm	0.4169 ppm
Concentration per Run	0.5061 ppm	1.0570 ppm	0.7059 ppm	0.4152 ppm	22.6523 ppm	6.2948 ppm	0.4159 ppm
Concentration per Run	0.5074 ppm	1.0574 ppm	0.7030 ppm	0.4152 ppm	22.4584 ppm	6.2901 ppm	0.4146 ppm
Concentration RSD	0.2 %	0.0 %	0.3 %	0.0 %	0.5 %	0.2 %	0.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	6.9174 ppm	1.6975 ppm	0.6120 ppm	8.7150 ppm	0.6806 ppm	0.6035 ppm	0.4774 ppm
Concentration per Run	6.9389 ppm	1.7040 ppm	0.6107 ppm	8.6597 ppm	0.6809 ppm	0.6065 ppm	0.4742 ppm
Concentration per Run	6.8846 ppm	1.7019 ppm	0.6119 ppm	8.7561 ppm	0.6808 ppm	0.6004 ppm	0.4781 ppm
Concentration per Run	6.9286 ppm	1.6866 ppm	0.6133 ppm	8.7291 ppm	0.6801 ppm	0.6036 ppm	0.4799 ppm
Concentration RSD	0.4 %	0.6 %	0.2 %	0.6 %	0.1 %	0.5 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4276 ppm	7.1595 ppm	0.4113 ppm	0.9934 ppm	1.4453 ppm	0.8455 ppm	0.7125 ppm
Concentration per Run	0.4287 ppm	7.1270 ppm	0.4147 ppm	0.9923 ppm	1.4466 ppm	0.8454 ppm	0.7108 ppm
Concentration per Run	0.4248 ppm	7.1039 ppm	0.4101 ppm	0.9941 ppm	1.4412 ppm	0.8457 ppm	0.7120 ppm
Concentration per Run	0.4294 ppm	7.2476 ppm	0.4091 ppm	0.9938 ppm	1.4481 ppm	0.8454 ppm	0.7148 ppm
Concentration RSD	0.6 %	1.1 %	0.7 %	0.1 %	0.2 %	0.0 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.3205 ppm	103.4647 %	102.0127 %	97.1113 %	107.8839 %	109.9135 %	107.3026 %
Concentration per Run	1.3221 ppm	103.2012 %	101.7899 %	97.3472 %	107.5150 %	110.1360 %	107.5531 %
Concentration per Run	1.3182 ppm	103.7789 %	102.0838 %	97.1502 %	108.0697 %	110.4201 %	107.5091 %
Concentration per Run	1.3211 ppm	103.4141 %	102.1645 %	96.8366 %	108.0671 %	109.1844 %	106.8455 %
Concentration RSD	0.2 %	0.3 %	0.2 %	0.3 %	0.3 %	0.6 %	0.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2082496-3d2 WG2082496
 Analysis started at: 6/24/2025 3:39:26 PM
 Rack: 1
 Vial: 34
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.3257 ppm	16.4899 ppm	0.7771 ppm	0.7435 ppm	0.9271 ppm	0.6240 ppm	16.9421 ppm
Concentration per Run	0.3258 ppm	16.4499 ppm	0.7774 ppm	0.7457 ppm	0.9239 ppm	0.6228 ppm	17.0072 ppm
Concentration per Run	0.3254 ppm	16.4590 ppm	0.7763 ppm	0.7436 ppm	0.9308 ppm	0.6226 ppm	16.7937 ppm
Concentration per Run	0.3258 ppm	16.5608 ppm	0.7775 ppm	0.7413 ppm	0.9265 ppm	0.6267 ppm	17.0255 ppm
Concentration RSD	0.1 %	0.4 %	0.1 %	0.3 %	0.4 %	0.4 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4666 ppm	0.9747 ppm	0.6414 ppm	0.3851 ppm	21.4940 ppm	5.7078 ppm	0.3936 ppm
Concentration per Run	0.4692 ppm	0.9778 ppm	0.6444 ppm	0.3847 ppm	21.5703 ppm	5.7007 ppm	0.3912 ppm
Concentration per Run	0.4662 ppm	0.9708 ppm	0.6407 ppm	0.3846 ppm	21.3038 ppm	5.7025 ppm	0.3965 ppm
Concentration per Run	0.4645 ppm	0.9756 ppm	0.6392 ppm	0.3860 ppm	21.6078 ppm	5.7201 ppm	0.3933 ppm
Concentration RSD	0.5 %	0.4 %	0.4 %	0.2 %	0.8 %	0.2 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	6.4346 ppm	1.6658 ppm	0.5623 ppm	8.4167 ppm	0.6220 ppm	0.5654 ppm	0.4307 ppm
Concentration per Run	6.4928 ppm	1.6744 ppm	0.5626 ppm	8.4092 ppm	0.6249 ppm	0.5667 ppm	0.4269 ppm
Concentration per Run	6.4281 ppm	1.6487 ppm	0.5626 ppm	8.3868 ppm	0.6212 ppm	0.5644 ppm	0.4323 ppm
Concentration per Run	6.3830 ppm	1.6745 ppm	0.5618 ppm	8.4541 ppm	0.6200 ppm	0.5651 ppm	0.4327 ppm
Concentration RSD	0.9 %	0.9 %	0.1 %	0.4 %	0.4 %	0.2 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4018 ppm	3.7495 ppm	0.3873 ppm	0.8366 ppm	1.2998 ppm	0.7789 ppm	0.6565 ppm
Concentration per Run	0.4024 ppm	3.7161 ppm	0.3881 ppm	0.8320 ppm	1.3028 ppm	0.7800 ppm	0.6581 ppm
Concentration per Run	0.4014 ppm	3.7658 ppm	0.3870 ppm	0.8397 ppm	1.3000 ppm	0.7804 ppm	0.6569 ppm
Concentration per Run	0.4017 ppm	3.7665 ppm	0.3867 ppm	0.8382 ppm	1.2967 ppm	0.7763 ppm	0.6544 ppm
Concentration RSD	0.1 %	0.8 %	0.2 %	0.5 %	0.2 %	0.3 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2450 ppm	103.2617 %	102.8928 %	98.0350 %	107.8172 %	110.4265 %	106.3812 %
Concentration per Run	1.2483 ppm	103.1005 %	103.2702 %	98.3251 %	107.6645 %	110.9440 %	106.7670 %
Concentration per Run	1.2457 ppm	102.9539 %	103.3738 %	97.6064 %	107.6084 %	110.4810 %	106.0084 %
Concentration per Run	1.2411 ppm	103.7307 %	102.0344 %	98.1735 %	108.1787 %	109.8544 %	106.3680 %
Concentration RSD	0.3 %	0.4 %	0.7 %	0.4 %	0.3 %	0.5 %	0.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2535825-01d2 WG2082496
 Analysis started at: 6/24/2025 3:52:42 PM
 Rack: 1
 Vial: 35
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0134 ppm	86.5081 ppm	0.1302 ppm	0.0699 ppm	2.1177 ppm	0.0144 ppm	40.3108 ppm
Concentration per Run	0.0133 ppm	86.8259 ppm	0.1307 ppm	0.0703 ppm	2.1282 ppm	0.0144 ppm	40.3843 ppm
Concentration per Run	0.0136 ppm	86.6094 ppm	0.1299 ppm	0.0703 ppm	2.1157 ppm	0.0144 ppm	40.2306 ppm
Concentration per Run	0.0133 ppm	86.0890 ppm	0.1300 ppm	0.0690 ppm	2.1093 ppm	0.0144 ppm	40.3175 ppm
Concentration RSD	1.3 %	0.4 %	0.3 %	1.0 %	0.5 %	0.1 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0089 ppm	0.0986 ppm	0.3107 ppm	2.3545 ppm	183.0249 ppm	11.0873 ppm	0.1315 ppm
Concentration per Run	0.0091 ppm	0.0993 ppm	0.3128 ppm	2.3602 ppm	183.4186 ppm	11.1550 ppm	0.1329 ppm
Concentration per Run	0.0088 ppm	0.0983 ppm	0.3113 ppm	2.3613 ppm	182.8811 ppm	11.0975 ppm	0.1312 ppm
Concentration per Run	0.0089 ppm	0.0981 ppm	0.3079 ppm	2.3419 ppm	182.7749 ppm	11.0095 ppm	0.1305 ppm
Concentration RSD	1.5 %	0.7 %	0.8 %	0.5 %	0.2 %	0.7 %	1.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	26.3357 ppm	2.6845 ppm	0.0314 ppm	4.8259 ppm	0.3369 ppm	4.0280 ppm	0.0371 ppm
Concentration per Run	26.5073 ppm	2.6937 ppm	0.0321 ppm	4.8481 ppm	0.3394 ppm	4.0278 ppm	0.0340 ppm
Concentration per Run	26.3697 ppm	2.6724 ppm	0.0311 ppm	4.8453 ppm	0.3367 ppm	4.0334 ppm	0.0385 ppm
Concentration per Run	26.1300 ppm	2.6875 ppm	0.0310 ppm	4.7842 ppm	0.3347 ppm	4.0228 ppm	0.0388 ppm
Concentration RSD	0.7 %	0.4 %	2.1 %	0.7 %	0.7 %	0.1 %	7.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0224 ppm	7.5479 ppm	0.3170 ppm	0.4429 ppm	4.1750 ppm	0.0066 ppm	0.9127 ppm
Concentration per Run	0.0217 ppm	7.6559 ppm	0.3192 ppm	0.4441 ppm	4.2048 ppm	0.0066 ppm	0.9181 ppm
Concentration per Run	0.0226 ppm	7.5835 ppm	0.3171 ppm	0.4433 ppm	4.1874 ppm	0.0059 ppm	0.9116 ppm
Concentration per Run	0.0229 ppm	7.4042 ppm	0.3148 ppm	0.4411 ppm	4.1328 ppm	0.0072 ppm	0.9084 ppm
Concentration RSD	2.8 %	1.7 %	0.7 %	0.3 %	0.9 %	10.0 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	5.9067 ppm	113.3024 %	106.2021 %	97.4657 %	139.0822 %	132.1154 %	134.9302 %
Concentration per Run	5.9370 ppm	113.5997 %	106.1692 %	97.4704 %	139.4475 %	132.4471 %	134.6501 %
Concentration per Run	5.8992 ppm	113.0304 %	105.9801 %	97.1640 %	139.0153 %	132.3619 %	134.8131 %
Concentration per Run	5.8838 ppm	113.2771 %	106.4571 %	97.7627 %	138.7838 %	131.5372 %	135.3275 %
Concentration RSD	0.5 %	0.3 %	0.2 %	0.3 %	0.2 %	0.4 %	0.3 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537372-01d2 WG2082496
 Analysis started at: 6/24/2025 3:56:20 PM
 Rack: 1
 Vial: 36
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	63.1902 ppm	0.0460 ppm	0.0047 ppm	0.2323 ppm	0.0035 ppm	1.6167 ppm
Concentration per Run	-0.0003 ppm	62.7235 ppm	0.0456 ppm	0.0054 ppm	0.2394 ppm	0.0033 ppm	1.6473 ppm
Concentration per Run	-0.0007 ppm	64.8891 ppm	0.0462 ppm	0.0030 ppm	0.2199 ppm	0.0039 ppm	1.5654 ppm
Concentration per Run	0.0001 ppm	61.9580 ppm	0.0463 ppm	0.0056 ppm	0.2375 ppm	0.0033 ppm	1.6373 ppm
Concentration RSD	123.5 %	2.4 %	0.7 %	30.3 %	4.6 %	10.1 %	2.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0017 ppm	0.0387 ppm	0.0838 ppm	0.0885 ppm	137.4105 ppm	5.1695 ppm	0.0717 ppm
Concentration per Run	-0.0017 ppm	0.0391 ppm	0.0837 ppm	0.0895 ppm	136.4539 ppm	5.1993 ppm	0.0755 ppm
Concentration per Run	-0.0017 ppm	0.0384 ppm	0.0840 ppm	0.0882 ppm	140.0283 ppm	5.2071 ppm	0.0664 ppm
Concentration per Run	-0.0017 ppm	0.0386 ppm	0.0838 ppm	0.0879 ppm	135.7492 ppm	5.1019 ppm	0.0733 ppm
Concentration RSD	1.5 %	0.9 %	0.2 %	1.0 %	1.7 %	1.1 %	6.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	22.8017 ppm	2.4689 ppm	0.0040 ppm	0.3159 ppm	0.0761 ppm	0.0836 ppm	0.0059 ppm
Concentration per Run	22.7829 ppm	2.4644 ppm	0.0035 ppm	0.3084 ppm	0.0764 ppm	0.0842 ppm	0.0032 ppm
Concentration per Run	22.8411 ppm	2.4864 ppm	0.0042 ppm	0.3351 ppm	0.0760 ppm	0.0847 ppm	0.0084 ppm
Concentration per Run	22.7812 ppm	2.4558 ppm	0.0043 ppm	0.3042 ppm	0.0757 ppm	0.0818 ppm	0.0061 ppm
Concentration RSD	0.1 %	0.6 %	10.0 %	5.3 %	0.5 %	1.8 %	44.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0020 ppm	5.2948 ppm	0.0044 ppm	0.0718 ppm	4.0814 ppm	0.0012 ppm	0.1008 ppm
Concentration per Run	-0.0004 ppm	5.4414 ppm	0.0041 ppm	0.0722 ppm	4.0790 ppm	0.0007 ppm	0.1008 ppm
Concentration per Run	0.0026 ppm	5.3077 ppm	0.0051 ppm	0.0714 ppm	4.0905 ppm	0.0018 ppm	0.1010 ppm
Concentration per Run	0.0039 ppm	5.1354 ppm	0.0039 ppm	0.0719 ppm	4.0749 ppm	0.0011 ppm	0.1007 ppm
Concentration RSD	108.7 %	2.9 %	14.9 %	0.6 %	0.2 %	48.8 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2460 ppm	93.6752 %	99.5688 %	91.7951 %	130.5807 %	149.2588 %	152.2257 %
Concentration per Run	0.2461 ppm	94.1330 %	102.5758 %	91.5461 %	131.4990 %	142.4441 %	152.4759 %
Concentration per Run	0.2459 ppm	93.6468 %	93.9319 %	91.8491 %	130.6609 %	163.4162 %	151.2953 %
Concentration per Run	0.2459 ppm	93.2458 %	102.1986 %	91.9902 %	129.5823 %	141.9160 %	152.9059 %
Concentration RSD	0.0 %	0.5 %	4.9 %	0.2 %	0.7 %	8.2 %	0.5 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537372-02d2 WG2082496
 Analysis started at: 6/24/2025 3:59:45 PM
 Rack: 1
 Vial: 37
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	41.9310 ppm	0.0183 ppm	0.0025 ppm	0.0875 ppm	0.0026 ppm	9.7383 ppm
Concentration per Run	0.0004 ppm	42.1297 ppm	0.0185 ppm	0.0029 ppm	0.0891 ppm	0.0026 ppm	9.7868 ppm
Concentration per Run	0.0002 ppm	41.9881 ppm	0.0184 ppm	0.0023 ppm	0.0873 ppm	0.0026 ppm	9.6910 ppm
Concentration per Run	0.0004 ppm	41.6752 ppm	0.0181 ppm	0.0022 ppm	0.0862 ppm	0.0026 ppm	9.7371 ppm
Concentration RSD	35.5 %	0.6 %	1.1 %	14.8 %	1.7 %	0.6 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0004 ppm	0.0306 ppm	0.0478 ppm	0.0465 ppm	71.4518 ppm	2.8032 ppm	0.0412 ppm
Concentration per Run	-0.0005 ppm	0.0312 ppm	0.0474 ppm	0.0466 ppm	71.5060 ppm	2.8615 ppm	0.0430 ppm
Concentration per Run	-0.0003 ppm	0.0306 ppm	0.0482 ppm	0.0465 ppm	71.4751 ppm	2.7981 ppm	0.0401 ppm
Concentration per Run	-0.0006 ppm	0.0299 ppm	0.0479 ppm	0.0463 ppm	71.3742 ppm	2.7498 ppm	0.0405 ppm
Concentration RSD	33.6 %	2.0 %	0.8 %	0.4 %	0.1 %	2.0 %	3.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	12.1206 ppm	1.1546 ppm	0.0021 ppm	0.4271 ppm	0.0455 ppm	0.0354 ppm	0.0043 ppm
Concentration per Run	12.0729 ppm	1.1547 ppm	0.0025 ppm	0.4391 ppm	0.0461 ppm	0.0347 ppm	0.0020 ppm
Concentration per Run	12.1001 ppm	1.1545 ppm	0.0016 ppm	0.4268 ppm	0.0436 ppm	0.0357 ppm	0.0042 ppm
Concentration per Run	12.1887 ppm	1.1547 ppm	0.0021 ppm	0.4153 ppm	0.0467 ppm	0.0359 ppm	0.0067 ppm
Concentration RSD	0.5 %	0.0 %	20.7 %	2.8 %	3.6 %	1.7 %	54.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0027 ppm	8.0464 ppm	0.0047 ppm	0.0403 ppm	2.5367 ppm	0.0004 ppm	0.0937 ppm
Concentration per Run	0.0013 ppm	8.3219 ppm	0.0047 ppm	0.0408 ppm	2.5348 ppm	0.0000 ppm	0.0935 ppm
Concentration per Run	0.0034 ppm	8.0466 ppm	0.0048 ppm	0.0402 ppm	2.5426 ppm	0.0002 ppm	0.0941 ppm
Concentration per Run	0.0035 ppm	7.7707 ppm	0.0048 ppm	0.0398 ppm	2.5328 ppm	0.0011 ppm	0.0934 ppm
Concentration RSD	44.5 %	3.4 %	1.6 %	1.2 %	0.2 %	142.2 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1941 ppm	100.2054 %	100.9326 %	94.8380 %	116.0739 %	117.8734 %	118.5343 %
Concentration per Run	0.1953 ppm	100.6942 %	101.1728 %	94.9235 %	116.2701 %	117.7703 %	118.5403 %
Concentration per Run	0.1937 ppm	99.8985 %	100.9720 %	94.7712 %	115.9201 %	118.7190 %	118.4443 %
Concentration per Run	0.1932 ppm	100.0234 %	100.6529 %	94.8192 %	116.0315 %	117.1308 %	118.6183 %
Concentration RSD	0.6 %	0.4 %	0.3 %	0.1 %	0.2 %	0.7 %	0.1 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537387-01d2 WG2082496
 Analysis started at: 6/24/2025 4:03:07 PM
 Rack: 1
 Vial: 38
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0008 ppm	59.7081 ppm	0.0251 ppm	0.0056 ppm	0.2177 ppm	0.0055 ppm	8.0500 ppm
Concentration per Run	0.0007 ppm	60.1272 ppm	0.0261 ppm	0.0050 ppm	0.2205 ppm	0.0055 ppm	8.1042 ppm
Concentration per Run	0.0010 ppm	59.8084 ppm	0.0245 ppm	0.0053 ppm	0.2172 ppm	0.0054 ppm	8.1257 ppm
Concentration per Run	0.0007 ppm	59.1888 ppm	0.0247 ppm	0.0065 ppm	0.2156 ppm	0.0054 ppm	7.9201 ppm
Concentration RSD	22.3 %	0.8 %	3.5 %	13.8 %	1.1 %	1.3 %	1.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0004 ppm	0.0346 ppm	0.0786 ppm	0.0890 ppm	109.5778 ppm	3.2001 ppm	0.0622 ppm
Concentration per Run	-0.0005 ppm	0.0348 ppm	0.0796 ppm	0.0899 ppm	110.3789 ppm	3.2388 ppm	0.0635 ppm
Concentration per Run	-0.0003 ppm	0.0344 ppm	0.0788 ppm	0.0894 ppm	110.0648 ppm	3.2045 ppm	0.0622 ppm
Concentration per Run	-0.0006 ppm	0.0345 ppm	0.0774 ppm	0.0878 ppm	108.2897 ppm	3.1571 ppm	0.0611 ppm
Concentration RSD	35.6 %	0.6 %	1.4 %	1.2 %	1.0 %	1.3 %	1.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	17.0996 ppm	1.9249 ppm	0.0087 ppm	2.0730 ppm	0.0554 ppm	0.1955 ppm	0.0076 ppm
Concentration per Run	17.3748 ppm	1.9391 ppm	0.0085 ppm	2.0892 ppm	0.0559 ppm	0.1976 ppm	0.0085 ppm
Concentration per Run	17.0957 ppm	1.9358 ppm	0.0086 ppm	2.0763 ppm	0.0552 ppm	0.1959 ppm	0.0074 ppm
Concentration per Run	16.8284 ppm	1.8998 ppm	0.0090 ppm	2.0536 ppm	0.0549 ppm	0.1931 ppm	0.0069 ppm
Concentration RSD	1.6 %	1.1 %	3.0 %	0.9 %	0.9 %	1.2 %	10.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0050 ppm	6.8484 ppm	0.0130 ppm	0.0496 ppm	3.3748 ppm	0.0022 ppm	0.1455 ppm
Concentration per Run	0.0064 ppm	7.0761 ppm	0.0127 ppm	0.0501 ppm	3.4275 ppm	0.0020 ppm	0.1473 ppm
Concentration per Run	0.0049 ppm	6.8520 ppm	0.0140 ppm	0.0497 ppm	3.3763 ppm	0.0023 ppm	0.1458 ppm
Concentration per Run	0.0036 ppm	6.6173 ppm	0.0124 ppm	0.0491 ppm	3.3205 ppm	0.0022 ppm	0.1435 ppm
Concentration RSD	27.5 %	3.3 %	6.3 %	1.0 %	1.6 %	6.4 %	1.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3989 ppm	104.2862 %	105.3007 %	96.4635 %	142.7758 %	144.7814 %	142.1994 %
Concentration per Run	0.4035 ppm	104.2550 %	105.6294 %	95.8502 %	143.1247 %	145.5834 %	142.2475 %
Concentration per Run	0.3990 ppm	104.5030 %	104.5492 %	96.8629 %	143.4253 %	143.6179 %	143.5667 %
Concentration per Run	0.3942 ppm	104.1007 %	105.7234 %	96.6774 %	141.7774 %	145.1431 %	140.7840 %
Concentration RSD	1.2 %	0.2 %	0.6 %	0.6 %	0.6 %	0.7 %	1.0 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537387-02d2 WG2082496
 Analysis started at: 6/24/2025 4:14:17 PM
 Rack: 1
 Vial: 39
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	57.7433 ppm	0.0206 ppm	0.0044 ppm	0.2759 ppm	0.0033 ppm	4.8659 ppm
Concentration per Run	0.0005 ppm	57.6894 ppm	0.0208 ppm	0.0046 ppm	0.2770 ppm	0.0034 ppm	4.8429 ppm
Concentration per Run	0.0004 ppm	57.9375 ppm	0.0204 ppm	0.0041 ppm	0.2738 ppm	0.0033 ppm	4.8892 ppm
Concentration per Run	0.0004 ppm	57.6029 ppm	0.0206 ppm	0.0044 ppm	0.2768 ppm	0.0034 ppm	4.8657 ppm
Concentration RSD	13.4 %	0.3 %	0.9 %	6.0 %	0.6 %	1.2 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0003 ppm	0.0185 ppm	0.0440 ppm	0.0217 ppm	56.5487 ppm	3.1572 ppm	0.0571 ppm
Concentration per Run	-0.0003 ppm	0.0180 ppm	0.0441 ppm	0.0217 ppm	56.3973 ppm	3.1777 ppm	0.0583 ppm
Concentration per Run	-0.0002 ppm	0.0185 ppm	0.0439 ppm	0.0219 ppm	56.7656 ppm	3.1743 ppm	0.0568 ppm
Concentration per Run	-0.0003 ppm	0.0190 ppm	0.0439 ppm	0.0217 ppm	56.4833 ppm	3.1196 ppm	0.0563 ppm
Concentration RSD	20.7 %	2.7 %	0.2 %	0.5 %	0.3 %	1.0 %	1.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	6.0905 ppm	0.6250 ppm	0.0050 ppm	7.3677 ppm	0.0269 ppm	0.0898 ppm	0.0037 ppm
Concentration per Run	6.0880 ppm	0.6237 ppm	0.0049 ppm	7.4319 ppm	0.0265 ppm	0.0892 ppm	0.0050 ppm
Concentration per Run	6.0676 ppm	0.6263 ppm	0.0050 ppm	7.3399 ppm	0.0276 ppm	0.0901 ppm	0.0050 ppm
Concentration per Run	6.1160 ppm	0.6249 ppm	0.0050 ppm	7.3314 ppm	0.0267 ppm	0.0901 ppm	0.0013 ppm
Concentration RSD	0.4 %	0.2 %	1.3 %	0.8 %	2.1 %	0.6 %	57.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0036 ppm	17.2555 [SIC 200]	0.0129 ppm	0.0715 ppm	2.5047 ppm	0.0013 ppm	0.0837 ppm
Concentration per Run	0.0024 ppm	17.0592 ppm	0.0128 ppm	0.0714 ppm	2.4855 ppm	0.0013 ppm	0.0835 ppm
Concentration per Run	0.0039 ppm	17.3401 ppm	0.0125 ppm	0.0716 ppm	2.5015 ppm	0.0020 ppm	0.0836 ppm
Concentration per Run	0.0046 ppm	17.3673 ppm	0.0133 ppm	0.0715 ppm	2.5271 ppm	0.0007 ppm	0.0840 ppm
Concentration RSD	30.0 %	1.0 %	2.9 %	0.1 %	0.8 %	46.3 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1676 ppm	111.5881 %	103.0952 %	101.9890 %	137.8607 %	131.9060 %	134.7039 %
Concentration per Run	0.1664 ppm	111.8863 %	103.5089 %	102.1757 %	137.8685 %	133.1746 %	134.2106 %
Concentration per Run	0.1674 ppm	112.0924 %	102.6195 %	102.2754 %	138.7101 %	131.6172 %	134.2283 %
Concentration per Run	0.1690 ppm	110.7856 %	103.1573 %	101.5157 %	137.0034 %	130.9263 %	135.6727 %
Concentration RSD	0.8 %	0.6 %	0.4 %	0.4 %	0.6 %	0.9 %	0.6 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537389-01d2 WG2082496
 Analysis started at: 6/24/2025 4:17:52 PM
 Rack: 1
 Vial: 40
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0017 ppm	76.8302 ppm	0.0529 ppm	0.0059 ppm	0.4129 ppm	0.0033 ppm	8.5650 ppm
Concentration per Run	0.0017 ppm	77.4782 ppm	0.0512 ppm	0.0050 ppm	0.4170 ppm	0.0033 ppm	8.6472 ppm
Concentration per Run	0.0019 ppm	76.6577 ppm	0.0531 ppm	0.0071 ppm	0.4114 ppm	0.0033 ppm	8.5658 ppm
Concentration per Run	0.0017 ppm	76.3546 ppm	0.0542 ppm	0.0055 ppm	0.4105 ppm	0.0033 ppm	8.4820 ppm
Concentration RSD	7.6 %	0.8 %	2.9 %	19.2 %	0.9 %	0.8 %	1.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0029 ppm	0.0370 ppm	0.0861 ppm	0.3988 ppm	114.5972 ppm	2.4542 ppm	0.0813 ppm
Concentration per Run	0.0028 ppm	0.0373 ppm	0.0862 ppm	0.3986 ppm	115.7297 ppm	2.4804 ppm	0.0820 ppm
Concentration per Run	0.0028 ppm	0.0371 ppm	0.0869 ppm	0.3996 ppm	114.7383 ppm	2.4573 ppm	0.0808 ppm
Concentration per Run	0.0029 ppm	0.0365 ppm	0.0853 ppm	0.3981 ppm	113.3236 ppm	2.4248 ppm	0.0810 ppm
Concentration RSD	2.0 %	1.1 %	0.9 %	0.2 %	1.1 %	1.1 %	0.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	17.0476 ppm	1.9018 ppm	0.0073 ppm	2.6716 ppm	0.0769 ppm	1.9245 ppm	0.0186 ppm
Concentration per Run	17.1362 ppm	1.9157 ppm	0.0074 ppm	2.6887 ppm	0.0772 ppm	1.9386 ppm	0.0183 ppm
Concentration per Run	17.1100 ppm	1.9045 ppm	0.0071 ppm	2.6680 ppm	0.0768 ppm	1.9194 ppm	0.0185 ppm
Concentration per Run	16.8966 ppm	1.8853 ppm	0.0073 ppm	2.6580 ppm	0.0766 ppm	1.9155 ppm	0.0189 ppm
Concentration RSD	0.8 %	0.8 %	2.3 %	0.6 %	0.4 %	0.6 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0078 ppm	6.8042 ppm	0.0733 ppm	0.0849 ppm	2.9058 ppm	0.0003 ppm	0.1498 ppm
Concentration per Run	0.0071 ppm	6.9649 ppm	0.0737 ppm	0.0852 ppm	2.9184 ppm	-0.0002 ppm	0.1500 ppm
Concentration per Run	0.0070 ppm	6.8058 ppm	0.0732 ppm	0.0850 ppm	2.9264 ppm	0.0017 ppm	0.1501 ppm
Concentration per Run	0.0092 ppm	6.6420 ppm	0.0732 ppm	0.0845 ppm	2.8725 ppm	-0.0005 ppm	0.1493 ppm
Concentration RSD	16.0 %	2.4 %	0.4 %	0.5 %	1.0 %	345.1 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2765 ppm	104.2231 %	105.2406 %	96.7227 %	116.6179 %	119.5431 %	115.1499 %
Concentration per Run	1.2811 ppm	103.8143 %	104.8753 %	96.8777 %	115.7533 %	119.1458 %	115.1862 %
Concentration per Run	1.2699 ppm	104.8124 %	105.3208 %	96.5912 %	117.5948 %	119.8039 %	115.5837 %
Concentration per Run	1.2784 ppm	104.0425 %	105.5257 %	96.6992 %	116.5057 %	119.6796 %	114.6798 %
Concentration RSD	0.5 %	0.5 %	0.3 %	0.1 %	0.8 %	0.3 %	0.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCV
Analysis started at: 6/24/2025 4:21:15 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5325 ppm	0.4975 ppm	0.4852 ppm	0.5311 ppm	0.5228 ppm	0.5189 ppm	0.5162 ppm
Concentration per Run	0.5326 ppm	0.4945 ppm	0.4857 ppm	0.5318 ppm	0.5224 ppm	0.5180 ppm	0.5208 ppm
Concentration per Run	0.5335 ppm	0.4995 ppm	0.4863 ppm	0.5319 ppm	0.5226 ppm	0.5195 ppm	0.5170 ppm
Concentration per Run	0.5313 ppm	0.4985 ppm	0.4836 ppm	0.5298 ppm	0.5235 ppm	0.5193 ppm	0.5107 ppm
Recovery Percentage	106.491 %	99.504 %	97.035 %	106.227 %	104.564 %	103.788 %	103.237 %
Concentration RSD	0.2 %	0.5 %	0.3 %	0.2 %	0.1 %	0.2 %	1.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4976 ppm	0.5232 ppm	0.5319 ppm	0.5343 ppm	0.5416 ppm	5.2657 ppm	0.5256 ppm
Concentration per Run	0.4999 ppm	0.5252 ppm	0.5350 ppm	0.5343 ppm	0.5440 ppm	5.2859 ppm	0.5304 ppm
Concentration per Run	0.4991 ppm	0.5248 ppm	0.5341 ppm	0.5337 ppm	0.5435 ppm	5.2801 ppm	0.5248 ppm
Concentration per Run	0.4940 ppm	0.5196 ppm	0.5266 ppm	0.5347 ppm	0.5372 ppm	5.2311 ppm	0.5215 ppm
Recovery Percentage	99.528 %	104.644 %	106.384 %	106.851 %	108.321 %	105.314 %	105.114 %
Concentration RSD	0.6 %	0.6 %	0.9 %	0.1 %	0.7 %	0.6 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5323 ppm	0.5216 ppm	0.4968 ppm	10.6460 ppm	0.5286 ppm	0.5063 ppm	0.5167 ppm
Concentration per Run	0.5395 ppm	0.5226 ppm	0.4971 ppm	10.6593 ppm	0.5294 ppm	0.5101 ppm	0.5161 ppm
Concentration per Run	0.5316 ppm	0.5220 ppm	0.4990 ppm	10.6459 ppm	0.5299 ppm	0.5043 ppm	0.5204 ppm
Concentration per Run	0.5258 ppm	0.5202 ppm	0.4943 ppm	10.6329 ppm	0.5267 ppm	0.5046 ppm	0.5135 ppm
Recovery Percentage	106.460 %	104.329 %	99.357 %	106.460 %	105.730 %	101.266 %	103.334 %
Concentration RSD	1.3 %	0.2 %	0.5 %	0.1 %	0.3 %	0.6 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.5046 ppm	5.8082 ppm	0.5212 ppm	0.5213 ppm	0.5499 ppm	0.5068 ppm	0.5381 ppm
Concentration per Run	0.5075 ppm	5.8104 ppm	0.5234 ppm	0.5201 ppm	0.5534 ppm	0.5058 ppm	0.5392 ppm
Concentration per Run	0.5025 ppm	5.8160 ppm	0.5241 ppm	0.5216 ppm	0.5533 ppm	0.5080 ppm	0.5385 ppm
Concentration per Run	0.5039 ppm	5.7982 ppm	0.5160 ppm	0.5222 ppm	0.5429 ppm	0.5065 ppm	0.5365 ppm
Recovery Percentage	100.926 %	110.632 %	104.237 %	104.256 %	109.979 %	101.359 %	107.613 %
Concentration RSD	0.5 %	0.2 %	0.9 %	0.2 %	1.1 %	0.2 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5267 ppm	102.1517 %	101.9944 %	100.3129 %	101.3523 %	102.7212 %	100.4972 %
Concentration per Run	0.5291 ppm	101.7482 %	101.8078 %	100.4497 %	101.1452 %	102.7566 %	101.3970 %
Concentration per Run	0.5269 ppm	102.0617 %	101.9494 %	100.6523 %	101.3163 %	102.2616 %	99.8764 %
Concentration per Run	0.5242 ppm	102.6452 %	102.2259 %	99.8366 %	101.5954 %	103.1453 %	100.2183 %
Recovery Percentage	105.346 %						
Concentration RSD	0.5 %	0.4 %	0.2 %	0.4 %	0.2 %	0.4 %	0.8 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCB
 Analysis started at: 6/24/2025 4:24:39 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0004 ppm	0.0006 ppm	-0.0008 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0086 ppm
Concentration per Run	0.0000 ppm	0.0013 ppm	0.0011 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0083 ppm
Concentration per Run	-0.0006 ppm	0.0004 ppm	-0.0020 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0083 ppm
Concentration per Run	-0.0005 ppm	0.0000 ppm	-0.0015 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0093 ppm
Recovery Percentage	-7.082 %	0.587 %	-15.968 %	2.368 %	0.065 %	0.236 %	8.621 %
Concentration RSD	81.1 %	115.7 %	206.0 %	135.9 %	372.9 %	68.5 %	6.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0001 ppm	-0.0002 ppm	0.0028 ppm	-0.0240 ppm	-0.0001 ppm
Concentration per Run	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0022 ppm	-0.0191 ppm	-0.0004 ppm
Concentration per Run	0.0001 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0033 ppm	-0.0269 ppm	-0.0001 ppm
Concentration per Run	0.0001 ppm	-0.0004 ppm	0.0003 ppm	-0.0005 ppm	0.0030 ppm	-0.0259 ppm	0.0002 ppm
Recovery Percentage	2.162 %	-4.114 %	1.418 %	-1.722 %	5.629 %	-0.958 %	-1.125 %
Concentration RSD	71.4 %	71.9 %	81.8 %	150.5 %	20.8 %	17.8 %	275.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0008 ppm	0.0001 ppm	0.0013 ppm	-0.0038 ppm	0.0001 ppm	0.0004 ppm	0.0034 ppm
Concentration per Run	0.0006 ppm	-0.0001 ppm	0.0012 ppm	-0.0037 ppm	0.0003 ppm	0.0012 ppm	0.0053 ppm
Concentration per Run	0.0011 ppm	0.0002 ppm	0.0018 ppm	-0.0033 ppm	-0.0003 ppm	-0.0003 ppm	0.0030 ppm
Concentration per Run	0.0009 ppm	0.0002 ppm	0.0009 ppm	-0.0044 ppm	0.0003 ppm	0.0004 ppm	0.0019 ppm
Recovery Percentage	0.837 %	0.922 %	2.593 %	-0.191 %	0.464 %	4.290 %	6.734 %
Concentration RSD	30.7 %	138.0 %	33.8 %	13.7 %	303.1 %	176.4 %	51.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0032 ppm	0.0074 ppm	0.0004 ppm	0.0000 ppm	0.0012 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run	0.0031 ppm	0.0085 ppm	0.0003 ppm	0.0000 ppm	0.0014 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run	0.0042 ppm	0.0076 ppm	0.0004 ppm	0.0000 ppm	0.0011 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run	0.0023 ppm	0.0062 ppm	0.0006 ppm	0.0000 ppm	0.0011 ppm	0.0018 ppm	0.0000 ppm
Recovery Percentage	32.145 %	1.486 %	0.818 %	0.101 %	11.996 %	3.994 %	0.446 %
Concentration RSD	30.0 %	16.2 %	34.1 %	233.4 %	15.5 %	118.0 %	158.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	99.7656 %	100.9297 %	99.0736 %	101.4967 %	103.6776 %	100.2379 %
Concentration per Run	0.0004 ppm	99.3664 %	101.5977 %	99.3925 %	101.7035 %	103.9706 %	100.3241 %
Concentration per Run	0.0003 ppm	100.1719 %	99.9606 %	98.9790 %	101.6863 %	103.5816 %	99.2666 %
Concentration per Run	0.0005 ppm	99.7584 %	101.2308 %	98.8495 %	101.1004 %	103.4806 %	101.1230 %
Recovery Percentage	7.939 %						
Concentration RSD	29.5 %	0.4 %	0.9 %	0.3 %	0.3 %	0.2 %	0.9 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537389-02d2 WG2082496
 Analysis started at: 6/24/2025 4:28:51 PM
 Rack: 1
 Vial: 41
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0005 ppm	25.6184 ppm	0.0183 ppm	0.0067 ppm	0.1007 ppm	0.0037 ppm	12.0329 ppm
Concentration per Run	0.0005 ppm	25.6619 ppm	0.0169 ppm	0.0078 ppm	0.1011 ppm	0.0037 ppm	12.1507 ppm
Concentration per Run	0.0003 ppm	25.7624 ppm	0.0189 ppm	0.0058 ppm	0.1014 ppm	0.0037 ppm	11.9810 ppm
Concentration per Run	0.0006 ppm	25.4309 ppm	0.0190 ppm	0.0066 ppm	0.0995 ppm	0.0037 ppm	11.9669 ppm
Concentration RSD	27.4 %	0.7 %	6.7 %	14.3 %	1.0 %	0.5 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0024 ppm	0.0063 ppm	0.0598 ppm	0.0362 ppm	26.4906 ppm	0.5117 ppm	0.0137 ppm
Concentration per Run	0.0025 ppm	0.0065 ppm	0.0601 ppm	0.0364 ppm	26.6676 ppm	0.5284 ppm	0.0145 ppm
Concentration per Run	0.0024 ppm	0.0063 ppm	0.0593 ppm	0.0363 ppm	26.5165 ppm	0.5039 ppm	0.0132 ppm
Concentration per Run	0.0024 ppm	0.0061 ppm	0.0600 ppm	0.0361 ppm	26.2876 ppm	0.5027 ppm	0.0134 ppm
Concentration RSD	1.7 %	2.9 %	0.7 %	0.4 %	0.7 %	2.8 %	5.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.7256 ppm	1.4376 ppm	0.0266 ppm	3.6952 ppm	0.0163 ppm	0.0405 ppm	0.0055 ppm
Concentration per Run	3.7504 ppm	1.4518 ppm	0.0269 ppm	3.7048 ppm	0.0161 ppm	0.0416 ppm	0.0041 ppm
Concentration per Run	3.7149 ppm	1.4352 ppm	0.0267 ppm	3.7207 ppm	0.0165 ppm	0.0393 ppm	0.0100 ppm
Concentration per Run	3.7115 ppm	1.4260 ppm	0.0261 ppm	3.6601 ppm	0.0161 ppm	0.0407 ppm	0.0024 ppm
Concentration RSD	0.6 %	0.9 %	1.5 %	0.9 %	1.5 %	3.0 %	72.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0159 ppm	9.3999 ppm	0.0042 ppm	0.1204 ppm	0.9727 ppm	0.0027 ppm	0.0569 ppm
Concentration per Run	0.0150 ppm	9.6508 ppm	0.0042 ppm	0.1209 ppm	0.9788 ppm	0.0013 ppm	0.0573 ppm
Concentration per Run	0.0140 ppm	9.3687 ppm	0.0047 ppm	0.1211 ppm	0.9668 ppm	0.0036 ppm	0.0567 ppm
Concentration per Run	0.0186 ppm	9.1801 ppm	0.0037 ppm	0.1193 ppm	0.9726 ppm	0.0032 ppm	0.0568 ppm
Concentration RSD	15.3 %	2.5 %	11.9 %	0.8 %	0.6 %	44.6 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1179 ppm	103.5638 %	102.7154 %	97.1553 %	132.3630 %	131.9628 %	129.8798 %
Concentration per Run	0.1187 ppm	103.5680 %	102.8351 %	97.2469 %	132.5124 %	132.5535 %	129.4046 %
Concentration per Run	0.1177 ppm	103.8982 %	102.4845 %	97.1156 %	133.2688 %	132.0213 %	129.6659 %
Concentration per Run	0.1174 ppm	103.2253 %	102.8266 %	97.1033 %	131.3077 %	131.3135 %	130.5690 %
Concentration RSD	0.6 %	0.3 %	0.2 %	0.1 %	0.7 %	0.5 %	0.5 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537389-03d2 WG2082496
 Analysis started at: 6/24/2025 4:32:14 PM
 Rack: 1
 Vial: 42
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0007 ppm	49.2923 ppm	0.0171 ppm	0.0020 ppm	0.2115 ppm	0.0043 ppm	9.8987 ppm
Concentration per Run	0.0008 ppm	49.7155 ppm	0.0194 ppm	0.0016 ppm	0.2132 ppm	0.0043 ppm	10.0019 ppm
Concentration per Run	0.0006 ppm	49.2603 ppm	0.0157 ppm	0.0024 ppm	0.2123 ppm	0.0043 ppm	9.8842 ppm
Concentration per Run	0.0006 ppm	48.9011 ppm	0.0162 ppm	0.0019 ppm	0.2090 ppm	0.0042 ppm	9.8102 ppm
Concentration RSD	14.1 %	0.8 %	11.8 %	19.7 %	1.0 %	0.9 %	1.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0005 ppm	0.0262 ppm	0.0664 ppm	0.0401 ppm	94.4582 ppm	3.3298 ppm	0.0482 ppm
Concentration per Run	-0.0006 ppm	0.0262 ppm	0.0668 ppm	0.0400 ppm	95.2548 ppm	3.4283 ppm	0.0489 ppm
Concentration per Run	-0.0004 ppm	0.0265 ppm	0.0664 ppm	0.0399 ppm	94.3480 ppm	3.3151 ppm	0.0483 ppm
Concentration per Run	-0.0006 ppm	0.0260 ppm	0.0660 ppm	0.0404 ppm	93.7716 ppm	3.2461 ppm	0.0473 ppm
Concentration RSD	20.0 %	1.0 %	0.6 %	0.7 %	0.8 %	2.8 %	1.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	15.3691 ppm	1.2942 ppm	0.0043 ppm	0.7548 ppm	0.0440 ppm	0.0885 ppm	0.0054 ppm
Concentration per Run	15.5794 ppm	1.3030 ppm	0.0047 ppm	0.7995 ppm	0.0437 ppm	0.0898 ppm	0.0060 ppm
Concentration per Run	15.3132 ppm	1.2930 ppm	0.0043 ppm	0.7555 ppm	0.0437 ppm	0.0882 ppm	0.0048 ppm
Concentration per Run	15.2148 ppm	1.2866 ppm	0.0039 ppm	0.7095 ppm	0.0445 ppm	0.0873 ppm	0.0055 ppm
Concentration RSD	1.2 %	0.6 %	10.0 %	6.0 %	1.1 %	1.4 %	10.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0034 ppm	13.3782 [SIC 200]	0.0091 ppm	0.0417 ppm	2.7046 ppm	0.0000 ppm	0.1112 ppm
Concentration per Run	0.0029 ppm	14.0679 ppm	0.0086 ppm	0.0422 ppm	2.7295 ppm	-0.0009 ppm	0.1116 ppm
Concentration per Run	0.0047 ppm	13.3975 ppm	0.0097 ppm	0.0417 ppm	2.7145 ppm	0.0015 ppm	0.1114 ppm
Concentration per Run	0.0026 ppm	12.6693 ppm	0.0091 ppm	0.0413 ppm	2.6699 ppm	-0.0005 ppm	0.1107 ppm
Concentration RSD	33.7 %	5.2 %	5.9 %	1.1 %	1.1 %	10,332.7 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2423 ppm	104.3265 %	104.2944 %	97.3476 %	130.3041 %	132.7986 %	129.6634 %
Concentration per Run	0.2444 ppm	103.7199 %	103.8578 %	97.5345 %	130.1444 %	132.5380 %	130.0566 %
Concentration per Run	0.2410 ppm	104.9529 %	104.4492 %	97.1569 %	130.6752 %	132.5693 %	129.5681 %
Concentration per Run	0.2413 ppm	104.3067 %	104.5764 %	97.3513 %	130.0929 %	133.2885 %	129.3656 %
Concentration RSD	0.8 %	0.6 %	0.4 %	0.2 %	0.2 %	0.3 %	0.3 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537450-01d2 WG2082496
 Analysis started at: 6/24/2025 4:35:38 PM
 Rack: 1
 Vial: 43
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0014 ppm	95.7142 ppm	0.0906 ppm	0.0506 ppm	3.5176 ppm	0.0034 ppm	72.7934 ppm
Concentration per Run	0.0015 ppm	96.1437 ppm	0.0886 ppm	0.0504 ppm	3.5379 ppm	0.0034 ppm	73.1445 ppm
Concentration per Run	0.0018 ppm	95.8921 ppm	0.0927 ppm	0.0500 ppm	3.5283 ppm	0.0035 ppm	72.9679 ppm
Concentration per Run	0.0010 ppm	95.1067 ppm	0.0905 ppm	0.0514 ppm	3.4867 ppm	0.0034 ppm	72.2676 ppm
Concentration RSD	27.4 %	0.6 %	2.3 %	1.4 %	0.8 %	0.8 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0041 ppm	0.0383 ppm	0.2595 ppm	0.5043 ppm	105.0449 ppm	14.3101 ppm	0.1206 ppm
Concentration per Run	0.0041 ppm	0.0384 ppm	0.2602 ppm	0.5069 ppm	105.3909 ppm	14.3561 ppm	0.1221 ppm
Concentration per Run	0.0041 ppm	0.0380 ppm	0.2583 ppm	0.5032 ppm	105.2953 ppm	14.3681 ppm	0.1210 ppm
Concentration per Run	0.0041 ppm	0.0386 ppm	0.2599 ppm	0.5027 ppm	104.4485 ppm	14.2061 ppm	0.1186 ppm
Concentration RSD	0.5 %	0.8 %	0.4 %	0.5 %	0.5 %	0.6 %	1.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	25.9251 ppm	1.2209 ppm	0.0060 ppm	5.2079 ppm	0.1210 ppm	2.3681 ppm	0.0169 ppm
Concentration per Run	26.0285 ppm	1.2272 ppm	0.0061 ppm	5.2278 ppm	0.1218 ppm	2.3840 ppm	0.0164 ppm
Concentration per Run	25.6861 ppm	1.2212 ppm	0.0060 ppm	5.2118 ppm	0.1202 ppm	2.3648 ppm	0.0149 ppm
Concentration per Run	26.0606 ppm	1.2142 ppm	0.0060 ppm	5.1841 ppm	0.1211 ppm	2.3554 ppm	0.0194 ppm
Concentration RSD	0.8 %	0.5 %	1.3 %	0.4 %	0.7 %	0.6 %	13.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0088 ppm	11.7131 [SIC 200]	0.0486 ppm	0.3664 ppm	4.4305 ppm	0.0006 ppm	0.1898 ppm
Concentration per Run	0.0122 ppm	11.8606 ppm	0.0484 ppm	0.3674 ppm	4.4503 ppm	0.0003 ppm	0.1907 ppm
Concentration per Run	0.0058 ppm	11.7355 ppm	0.0477 ppm	0.3680 ppm	4.4188 ppm	0.0003 ppm	0.1890 ppm
Concentration per Run	0.0084 ppm	11.5430 ppm	0.0498 ppm	0.3638 ppm	4.4222 ppm	0.0013 ppm	0.1897 ppm
Concentration RSD	36.8 %	1.4 %	2.2 %	0.6 %	0.4 %	93.1 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	2.7264 ppm	101.4281 %	102.4707 %	90.8026 %	110.9649 %	113.4210 %	109.8388 %
Concentration per Run	2.7384 ppm	101.1999 %	102.7714 %	90.4518 %	110.8072 %	113.2264 %	110.3846 %
Concentration per Run	2.7012 ppm	102.4746 %	102.1400 %	90.8931 %	112.2631 %	112.4656 %	110.1585 %
Concentration per Run	2.7394 ppm	100.6098 %	102.5007 %	91.0628 %	109.8245 %	114.5710 %	108.9735 %
Concentration RSD	0.8 %	0.9 %	0.3 %	0.3 %	1.1 %	0.9 %	0.7 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537450-02d2 WG2082496
 Analysis started at: 6/24/2025 4:39:01 PM
 Rack: 1
 Vial: 44
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0016 ppm	215.9213 ppm	0.0701 ppm	0.0228 ppm	1.0785 ppm	0.0102 ppm	23.5152 ppm
Concentration per Run	-0.0015 ppm	219.3098 ppm	0.0695 ppm	0.0227 ppm	1.0617 ppm	0.0110 ppm	23.1357 ppm
Concentration per Run	-0.0019 ppm	218.8997 ppm	0.0701 ppm	0.0224 ppm	1.0449 ppm	0.0109 ppm	23.4011 ppm
Concentration per Run	-0.0014 ppm	209.5544 ppm	0.0706 ppm	0.0231 ppm	1.1290 ppm	0.0087 ppm	24.0086 ppm
Concentration RSD	16.1 %	2.6 %	0.8 %	1.6 %	4.1 %	12.7 %	1.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0037 ppm	0.1330 ppm	0.5513 ppm	0.3158 ppm	295.1357 ppm	78.9516 ppm	0.4132 ppm
Concentration per Run	-0.0037 ppm	0.1324 ppm	0.5475 ppm	0.3171 ppm	299.3657 ppm	79.3741 ppm	0.4011 ppm
Concentration per Run	-0.0036 ppm	0.1325 ppm	0.5534 ppm	0.3139 ppm	298.6109 ppm	79.3785 ppm	0.3925 ppm
Concentration per Run	-0.0038 ppm	0.1340 ppm	0.5530 ppm	0.3164 ppm	287.4305 ppm	78.1021 ppm	0.4461 ppm
Concentration RSD	2.8 %	0.7 %	0.6 %	0.5 %	2.3 %	0.9 %	7.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	118.7186 ppm	3.7909 ppm	0.0052 ppm	4.0388 ppm	0.3639 ppm	0.2059 ppm	0.0049 ppm
Concentration per Run	117.7881 ppm	3.8092 ppm	0.0055 ppm	4.1801 ppm	0.3631 ppm	0.2078 ppm	0.0062 ppm
Concentration per Run	118.9828 ppm	3.8124 ppm	0.0047 ppm	4.1600 ppm	0.3646 ppm	0.2079 ppm	0.0030 ppm
Concentration per Run	119.3849 ppm	3.7511 ppm	0.0053 ppm	3.7763 ppm	0.3641 ppm	0.2021 ppm	0.0057 ppm
Concentration RSD	0.7 %	0.9 %	8.2 %	5.6 %	0.2 %	1.6 %	34.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0034 ppm	2.9365 ppm	0.0152 ppm	0.1666 ppm	15.9906 ppm	-0.0011 ppm	0.6141 ppm
Concentration per Run	0.0033 ppm	2.9707 ppm	0.0154 ppm	0.1674 ppm	15.9068 ppm	0.0000 ppm	0.6137 ppm
Concentration per Run	0.0016 ppm	2.9539 ppm	0.0141 ppm	0.1653 ppm	16.0047 ppm	-0.0002 ppm	0.6140 ppm
Concentration per Run	0.0054 ppm	2.8849 ppm	0.0162 ppm	0.1670 ppm	16.0603 ppm	-0.0032 ppm	0.6147 ppm
Concentration RSD	54.5 %	1.5 %	7.2 %	0.7 %	0.5 %	159.7 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8334 ppm	102.6805 %	106.5563 %	84.2871 %	128.9307 %	155.7115 %	148.4158 %
Concentration per Run	0.8313 ppm	103.5044 %	103.5061 %	84.3771 %	129.9575 %	163.5897 %	148.8181 %
Concentration per Run	0.8356 ppm	102.4781 %	103.1803 %	84.1859 %	128.5064 %	162.0616 %	147.4197 %
Concentration per Run	0.8333 ppm	102.0590 %	112.9825 %	84.2983 %	128.3281 %	141.4832 %	149.0097 %
Concentration RSD	0.3 %	0.7 %	5.2 %	0.1 %	0.7 %	7.9 %	0.6 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537450-03d2 WG2082496
 Analysis started at: 6/24/2025 4:42:25 PM
 Rack: 1
 Vial: 45
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0005 ppm	96.5604 ppm	0.0418 ppm	0.0127 ppm	0.3036 ppm	0.0026 ppm	42.8451 ppm
Concentration per Run	0.0006 ppm	97.1607 ppm	0.0425 ppm	0.0140 ppm	0.3060 ppm	0.0026 ppm	42.7513 ppm
Concentration per Run	0.0004 ppm	96.5042 ppm	0.0418 ppm	0.0115 ppm	0.3017 ppm	0.0026 ppm	42.9153 ppm
Concentration per Run	0.0006 ppm	96.0165 ppm	0.0411 ppm	0.0125 ppm	0.3030 ppm	0.0025 ppm	42.8687 ppm
Concentration RSD	26.3 %	0.6 %	1.7 %	9.7 %	0.7 %	1.1 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0018 ppm	0.0289 ppm	0.2914 ppm	0.3643 ppm	71.5866 ppm	6.9522 ppm	0.1285 ppm
Concentration per Run	0.0018 ppm	0.0284 ppm	0.2900 ppm	0.3652 ppm	71.6359 ppm	7.0054 ppm	0.1308 ppm
Concentration per Run	0.0018 ppm	0.0293 ppm	0.2906 ppm	0.3650 ppm	71.6995 ppm	6.9466 ppm	0.1271 ppm
Concentration per Run	0.0019 ppm	0.0290 ppm	0.2934 ppm	0.3627 ppm	71.4244 ppm	6.9045 ppm	0.1276 ppm
Concentration RSD	2.9 %	1.6 %	0.6 %	0.4 %	0.2 %	0.7 %	1.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	25.3980 ppm	0.8142 ppm	0.0031 ppm	1.3032 ppm	0.0911 ppm	0.6627 ppm	0.0771 ppm
Concentration per Run	25.3736 ppm	0.8156 ppm	0.0035 ppm	1.3207 ppm	0.0911 ppm	0.6665 ppm	0.0790 ppm
Concentration per Run	25.2449 ppm	0.8142 ppm	0.0032 ppm	1.2979 ppm	0.0904 ppm	0.6613 ppm	0.0749 ppm
Concentration per Run	25.5754 ppm	0.8128 ppm	0.0026 ppm	1.2909 ppm	0.0918 ppm	0.6602 ppm	0.0774 ppm
Concentration RSD	0.7 %	0.2 %	14.2 %	1.2 %	0.8 %	0.5 %	2.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0066 ppm	9.3180 ppm	0.0264 ppm	0.2910 ppm	3.7571 ppm	0.0004 ppm	0.1592 ppm
Concentration per Run	0.0059 ppm	9.4646 ppm	0.0269 ppm	0.2927 ppm	3.7484 ppm	0.0000 ppm	0.1595 ppm
Concentration per Run	0.0082 ppm	9.3368 ppm	0.0259 ppm	0.2894 ppm	3.7347 ppm	0.0009 ppm	0.1590 ppm
Concentration per Run	0.0057 ppm	9.1528 ppm	0.0263 ppm	0.2908 ppm	3.7882 ppm	0.0003 ppm	0.1590 ppm
Concentration RSD	21.3 %	1.7 %	1.8 %	0.6 %	0.7 %	127.7 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.8380 ppm	101.1107 %	102.0898 %	92.0031 %	114.0992 %	116.5315 %	113.1961 %
Concentration per Run	1.8423 ppm	101.4241 %	102.2230 %	91.8460 %	114.2021 %	117.2408 %	113.7195 %
Concentration per Run	1.8348 ppm	101.3198 %	101.8335 %	92.3138 %	114.4793 %	116.4739 %	112.5305 %
Concentration per Run	1.8368 ppm	100.5882 %	102.2129 %	91.8496 %	113.6163 %	115.8797 %	113.3382 %
Concentration RSD	0.2 %	0.5 %	0.2 %	0.3 %	0.4 %	0.6 %	0.5 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537450-04d2 WG2082496
 Analysis started at: 6/24/2025 4:45:49 PM
 Rack: 1
 Vial: 46
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	30.9913 ppm	0.0076 ppm	0.0009 ppm	0.1152 ppm	0.0012 ppm	7.6866 ppm
Concentration per Run	-0.0003 ppm	31.2850 ppm	0.0075 ppm	0.0007 ppm	0.1165 ppm	0.0012 ppm	7.7298 ppm
Concentration per Run	0.0000 ppm	30.9364 ppm	0.0076 ppm	0.0004 ppm	0.1146 ppm	0.0012 ppm	7.6873 ppm
Concentration per Run	0.0000 ppm	30.7526 ppm	0.0076 ppm	0.0015 ppm	0.1145 ppm	0.0012 ppm	7.6426 ppm
Concentration RSD	181.4 %	0.9 %	0.6 %	68.7 %	1.0 %	0.8 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0275 ppm	0.0738 ppm	0.0813 ppm	36.7297 ppm	5.9938 ppm	0.0641 ppm
Concentration per Run	-0.0001 ppm	0.0276 ppm	0.0741 ppm	0.0809 ppm	37.0089 ppm	6.0545 ppm	0.0656 ppm
Concentration per Run	-0.0002 ppm	0.0279 ppm	0.0739 ppm	0.0822 ppm	36.8426 ppm	5.9846 ppm	0.0638 ppm
Concentration per Run	-0.0001 ppm	0.0271 ppm	0.0733 ppm	0.0808 ppm	36.3374 ppm	5.9423 ppm	0.0628 ppm
Concentration RSD	72.7 %	1.4 %	0.6 %	0.9 %	1.0 %	0.9 %	2.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	14.6515 ppm	0.4915 ppm	0.0028 ppm	0.7064 ppm	0.0604 ppm	0.0220 ppm	0.0067 ppm
Concentration per Run	14.7200 ppm	0.4946 ppm	0.0022 ppm	0.7154 ppm	0.0604 ppm	0.0211 ppm	0.0073 ppm
Concentration per Run	14.6808 ppm	0.4921 ppm	0.0028 ppm	0.7079 ppm	0.0602 ppm	0.0218 ppm	0.0051 ppm
Concentration per Run	14.5536 ppm	0.4877 ppm	0.0034 ppm	0.6959 ppm	0.0607 ppm	0.0231 ppm	0.0076 ppm
Concentration RSD	0.6 %	0.7 %	21.2 %	1.4 %	0.4 %	4.7 %	20.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0031 ppm	3.6396 ppm	0.0056 ppm	0.0190 ppm	1.9178 ppm	0.0001 ppm	0.0691 ppm
Concentration per Run	0.0036 ppm	3.7045 ppm	0.0047 ppm	0.0193 ppm	1.9205 ppm	0.0012 ppm	0.0697 ppm
Concentration per Run	0.0057 ppm	3.6625 ppm	0.0062 ppm	0.0189 ppm	1.9270 ppm	-0.0022 ppm	0.0691 ppm
Concentration per Run	0.0000 ppm	3.5519 ppm	0.0060 ppm	0.0188 ppm	1.9058 ppm	0.0014 ppm	0.0685 ppm
Concentration RSD	93.0 %	2.2 %	14.5 %	1.4 %	0.6 %	1,665.7 %	0.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1453 ppm	103.0996 %	103.0475 %	97.9738 %	108.0983 %	108.7739 %	108.1852 %
Concentration per Run	0.1468 ppm	102.6573 %	103.4078 %	98.1802 %	107.4153 %	108.5173 %	109.1454 %
Concentration per Run	0.1448 ppm	103.1732 %	103.0588 %	98.0650 %	108.3214 %	109.0857 %	107.6250 %
Concentration per Run	0.1444 ppm	103.4682 %	102.6758 %	97.6763 %	108.5583 %	108.7187 %	107.7851 %
Concentration RSD	0.9 %	0.4 %	0.4 %	0.3 %	0.6 %	0.3 %	0.8 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537450-05d2 WG2082496
 Analysis started at: 6/24/2025 4:49:14 PM
 Rack: 1
 Vial: 47
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0007 ppm	98.6819 ppm	0.0681 ppm	0.0541 ppm	0.5883 ppm	0.0041 ppm	185.4979 ppm
Concentration per Run	0.0009 ppm	99.4548 ppm	0.0698 ppm	0.0540 ppm	0.5909 ppm	0.0042 ppm	186.9960 ppm
Concentration per Run	0.0005 ppm	98.8258 ppm	0.0682 ppm	0.0545 ppm	0.5901 ppm	0.0041 ppm	185.4995 ppm
Concentration per Run	0.0008 ppm	97.7651 ppm	0.0662 ppm	0.0537 ppm	0.5838 ppm	0.0041 ppm	183.9981 ppm
Concentration RSD	33.0 %	0.9 %	2.6 %	0.8 %	0.7 %	1.2 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0015 ppm	0.0329 ppm	0.4595 ppm	0.2735 ppm	82.1129 ppm	11.0361 ppm	0.1547 ppm
Concentration per Run	0.0016 ppm	0.0328 ppm	0.4595 ppm	0.2745 ppm	82.6950 ppm	11.0634 ppm	0.1555 ppm
Concentration per Run	0.0015 ppm	0.0331 ppm	0.4609 ppm	0.2726 ppm	82.1164 ppm	11.0645 ppm	0.1560 ppm
Concentration per Run	0.0015 ppm	0.0326 ppm	0.4580 ppm	0.2733 ppm	81.5273 ppm	10.9803 ppm	0.1526 ppm
Concentration RSD	3.0 %	0.7 %	0.3 %	0.3 %	0.7 %	0.4 %	1.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	37.4711 ppm	1.7642 ppm	0.0074 ppm	3.0234 ppm	0.1248 ppm	0.4517 ppm	0.0935 ppm
Concentration per Run	37.5144 ppm	1.7785 ppm	0.0076 ppm	3.0381 ppm	0.1257 ppm	0.4534 ppm	0.0929 ppm
Concentration per Run	37.6689 ppm	1.7635 ppm	0.0067 ppm	3.0255 ppm	0.1248 ppm	0.4525 ppm	0.0920 ppm
Concentration per Run	37.2300 ppm	1.7506 ppm	0.0078 ppm	3.0064 ppm	0.1238 ppm	0.4494 ppm	0.0954 ppm
Concentration RSD	0.6 %	0.8 %	7.7 %	0.5 %	0.8 %	0.5 %	1.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0076 ppm	11.6511 [SIC 200]	0.0391 ppm	1.4458 ppm	3.9067 ppm	0.0017 ppm	0.1820 ppm
Concentration per Run	0.0083 ppm	11.7627 ppm	0.0382 ppm	1.4534 ppm	3.9048 ppm	0.0018 ppm	0.1825 ppm
Concentration per Run	0.0079 ppm	11.6522 ppm	0.0410 ppm	1.4507 ppm	3.9282 ppm	0.0010 ppm	0.1824 ppm
Concentration per Run	0.0065 ppm	11.5384 ppm	0.0380 ppm	1.4334 ppm	3.8870 ppm	0.0023 ppm	0.1812 ppm
Concentration RSD	12.1 %	1.0 %	4.3 %	0.8 %	0.5 %	39.6 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	2.0839 ppm	99.8250 %	102.3203 %	89.5891 %	113.1036 %	116.4873 %	111.6159 %
Concentration per Run	2.0832 ppm	99.9396 %	101.9912 %	89.2184 %	113.1978 %	117.0013 %	111.1401 %
Concentration per Run	2.0977 ppm	99.6265 %	102.4315 %	89.6085 %	112.8293 %	116.0262 %	111.8814 %
Concentration per Run	2.0709 ppm	99.9089 %	102.5382 %	89.9405 %	113.2837 %	116.4344 %	111.8262 %
Concentration RSD	0.6 %	0.2 %	0.3 %	0.4 %	0.2 %	0.4 %	0.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537450-06d2 WG2082496
 Analysis started at: 6/24/2025 4:52:38 PM
 Rack: 1
 Vial: 48
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	27.9236 ppm	0.0180 ppm	0.0005 ppm	0.1224 ppm	0.0012 ppm	7.8527 ppm
Concentration per Run	-0.0004 ppm	28.1282 ppm	0.0183 ppm	0.0009 ppm	0.1232 ppm	0.0012 ppm	7.8798 ppm
Concentration per Run	0.0000 ppm	27.8809 ppm	0.0182 ppm	0.0008 ppm	0.1223 ppm	0.0011 ppm	7.8746 ppm
Concentration per Run	0.0003 ppm	27.7619 ppm	0.0175 ppm	-0.0002 ppm	0.1216 ppm	0.0012 ppm	7.8038 ppm
Concentration RSD	1,511.9 %	0.7 %	2.5 %	129.8 %	0.6 %	3.0 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0007 ppm	0.0355 ppm	0.0609 ppm	0.0960 ppm	29.8600 ppm	4.7417 ppm	0.0516 ppm
Concentration per Run	0.0006 ppm	0.0355 ppm	0.0612 ppm	0.0961 ppm	30.0059 ppm	4.7824 ppm	0.0520 ppm
Concentration per Run	0.0007 ppm	0.0354 ppm	0.0611 ppm	0.0956 ppm	29.9727 ppm	4.7532 ppm	0.0517 ppm
Concentration per Run	0.0007 ppm	0.0357 ppm	0.0605 ppm	0.0964 ppm	29.6013 ppm	4.6897 ppm	0.0510 ppm
Concentration RSD	8.1 %	0.4 %	0.7 %	0.4 %	0.8 %	1.0 %	1.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	11.3554 ppm	0.3731 ppm	0.0033 ppm	0.4626 ppm	0.0676 ppm	0.0276 ppm	0.0063 ppm
Concentration per Run	11.4582 ppm	0.3754 ppm	0.0034 ppm	0.4704 ppm	0.0682 ppm	0.0279 ppm	0.0068 ppm
Concentration per Run	11.2854 ppm	0.3738 ppm	0.0035 ppm	0.4607 ppm	0.0674 ppm	0.0274 ppm	0.0049 ppm
Concentration per Run	11.3227 ppm	0.3701 ppm	0.0030 ppm	0.4567 ppm	0.0672 ppm	0.0276 ppm	0.0072 ppm
Concentration RSD	0.8 %	0.7 %	9.3 %	1.5 %	0.8 %	0.9 %	19.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0029 ppm	2.6621 ppm	0.0045 ppm	0.0234 ppm	1.8568 ppm	0.0010 ppm	0.0733 ppm
Concentration per Run	0.0027 ppm	2.7454 ppm	0.0039 ppm	0.0235 ppm	1.8681 ppm	0.0009 ppm	0.0736 ppm
Concentration per Run	0.0032 ppm	2.6709 ppm	0.0047 ppm	0.0234 ppm	1.8509 ppm	0.0012 ppm	0.0730 ppm
Concentration per Run	0.0026 ppm	2.5700 ppm	0.0048 ppm	0.0231 ppm	1.8515 ppm	0.0008 ppm	0.0732 ppm
Concentration RSD	10.9 %	3.3 %	10.2 %	0.9 %	0.5 %	22.2 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1048 ppm	103.3362 %	104.3580 %	98.0563 %	110.0554 %	112.2636 %	110.1822 %
Concentration per Run	0.1054 ppm	102.9359 %	104.1177 %	97.7175 %	109.3848 %	113.0635 %	109.7064 %
Concentration per Run	0.1051 ppm	103.1836 %	103.9772 %	98.0134 %	109.8716 %	111.7428 %	110.5262 %
Concentration per Run	0.1038 ppm	103.8889 %	104.9792 %	98.4379 %	110.9098 %	111.9846 %	110.3139 %
Concentration RSD	0.8 %	0.5 %	0.5 %	0.4 %	0.7 %	0.6 %	0.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537450-07d2 WG2082496
 Analysis started at: 6/24/2025 4:56:04 PM
 Rack: 1
 Vial: 49
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0010 ppm	72.6996 ppm	0.0691 ppm	0.0342 ppm	0.4928 ppm	0.0043 ppm	122.9535 ppm
Concentration per Run	0.0012 ppm	73.0039 ppm	0.0708 ppm	0.0348 ppm	0.4938 ppm	0.0043 ppm	123.9434 ppm
Concentration per Run	0.0007 ppm	72.3668 ppm	0.0679 ppm	0.0330 ppm	0.4913 ppm	0.0043 ppm	122.5259 ppm
Concentration per Run	0.0012 ppm	72.7282 ppm	0.0685 ppm	0.0348 ppm	0.4934 ppm	0.0043 ppm	122.3910 ppm
Concentration RSD	27.4 %	0.4 %	2.2 %	3.1 %	0.3 %	0.5 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0107 ppm	0.0381 ppm	0.6214 ppm	1.1970 ppm	91.1070 ppm	8.0055 ppm	0.0995 ppm
Concentration per Run	0.0106 ppm	0.0389 ppm	0.6221 ppm	1.1989 ppm	91.6851 ppm	8.0297 ppm	0.1001 ppm
Concentration per Run	0.0104 ppm	0.0378 ppm	0.6216 ppm	1.1988 ppm	90.7462 ppm	7.9811 ppm	0.0990 ppm
Concentration per Run	0.0110 ppm	0.0377 ppm	0.6207 ppm	1.1932 ppm	90.8899 ppm	8.0057 ppm	0.0992 ppm
Concentration RSD	2.7 %	1.7 %	0.1 %	0.3 %	0.6 %	0.3 %	0.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	20.1282 ppm	1.4321 ppm	0.0065 ppm	2.5353 ppm	0.0833 ppm	1.2897 ppm	0.2026 ppm
Concentration per Run	20.1413 ppm	1.4435 ppm	0.0063 ppm	2.5376 ppm	0.0825 ppm	1.2918 ppm	0.2006 ppm
Concentration per Run	20.0975 ppm	1.4266 ppm	0.0061 ppm	2.5250 ppm	0.0834 ppm	1.2882 ppm	0.2041 ppm
Concentration per Run	20.1457 ppm	1.4263 ppm	0.0070 ppm	2.5433 ppm	0.0840 ppm	1.2891 ppm	0.2030 ppm
Concentration RSD	0.1 %	0.7 %	7.7 %	0.4 %	0.9 %	0.1 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0083 ppm	7.9111 ppm	0.0982 ppm	0.8666 ppm	2.5156 ppm	0.0003 ppm	0.1437 ppm
Concentration per Run	0.0085 ppm	7.9498 ppm	0.0974 ppm	0.8675 ppm	2.5240 ppm	0.0030 ppm	0.1439 ppm
Concentration per Run	0.0086 ppm	7.8644 ppm	0.0977 ppm	0.8642 ppm	2.5144 ppm	-0.0008 ppm	0.1439 ppm
Concentration per Run	0.0079 ppm	7.9190 ppm	0.0995 ppm	0.8680 ppm	2.5085 ppm	-0.0012 ppm	0.1434 ppm
Concentration RSD	4.1 %	0.5 %	1.1 %	0.2 %	0.3 %	722.5 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	6.1757 ppm	102.3590 %	103.6766 %	92.8876 %	117.1168 %	121.4939 %	115.3600 %
Concentration per Run	6.1729 ppm	102.6341 %	102.8763 %	92.7859 %	117.8728 %	121.3461 %	116.0332 %
Concentration per Run	6.1772 ppm	102.2070 %	104.2917 %	92.8460 %	117.0913 %	121.1585 %	116.1111 %
Concentration per Run	6.1769 ppm	102.2358 %	103.8620 %	93.0309 %	116.3862 %	121.9772 %	113.9356 %
Concentration RSD	0.0 %	0.2 %	0.7 %	0.1 %	0.6 %	0.4 %	1.1 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2537450-08d2 WG2082496
 Analysis started at: 6/24/2025 4:59:27 PM
 Rack: 1
 Vial: 50
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	49.5344 ppm	0.0184 ppm	0.0030 ppm	0.1710 ppm	0.0013 ppm	9.9126 ppm
Concentration per Run	0.0001 ppm	49.4364 ppm	0.0180 ppm	0.0041 ppm	0.1714 ppm	0.0013 ppm	9.9002 ppm
Concentration per Run	0.0000 ppm	49.6944 ppm	0.0190 ppm	0.0024 ppm	0.1716 ppm	0.0013 ppm	9.8987 ppm
Concentration per Run	0.0005 ppm	49.4724 ppm	0.0182 ppm	0.0024 ppm	0.1699 ppm	0.0013 ppm	9.9389 ppm
Concentration RSD	113.7 %	0.3 %	3.1 %	33.9 %	0.5 %	2.1 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0002 ppm	0.0344 ppm	0.0947 ppm	0.1058 ppm	49.5595 ppm	6.9716 ppm	0.0923 ppm
Concentration per Run	0.0002 ppm	0.0347 ppm	0.0945 ppm	0.1060 ppm	49.3608 ppm	6.9719 ppm	0.0940 ppm
Concentration per Run	0.0002 ppm	0.0339 ppm	0.0945 ppm	0.1058 ppm	49.6885 ppm	6.9720 ppm	0.0922 ppm
Concentration per Run	0.0003 ppm	0.0347 ppm	0.0952 ppm	0.1057 ppm	49.6291 ppm	6.9711 ppm	0.0906 ppm
Concentration RSD	21.6 %	1.4 %	0.5 %	0.1 %	0.4 %	0.0 %	1.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	19.0588 ppm	0.5533 ppm	0.0032 ppm	0.7336 ppm	0.0837 ppm	0.0414 ppm	0.0048 ppm
Concentration per Run	19.1456 ppm	0.5523 ppm	0.0035 ppm	0.7346 ppm	0.0838 ppm	0.0420 ppm	0.0059 ppm
Concentration per Run	18.9251 ppm	0.5540 ppm	0.0028 ppm	0.7380 ppm	0.0831 ppm	0.0411 ppm	0.0041 ppm
Concentration per Run	19.1056 ppm	0.5537 ppm	0.0035 ppm	0.7281 ppm	0.0843 ppm	0.0410 ppm	0.0044 ppm
Concentration RSD	0.6 %	0.2 %	11.8 %	0.7 %	0.7 %	1.3 %	19.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0029 ppm	3.0578 ppm	0.0054 ppm	0.0353 ppm	2.5331 ppm	-0.0009 ppm	0.1139 ppm
Concentration per Run	0.0007 ppm	3.0330 ppm	0.0053 ppm	0.0352 ppm	2.5357 ppm	-0.0006 ppm	0.1141 ppm
Concentration per Run	0.0048 ppm	3.0759 ppm	0.0048 ppm	0.0354 ppm	2.5161 ppm	-0.0018 ppm	0.1134 ppm
Concentration per Run	0.0030 ppm	3.0646 ppm	0.0060 ppm	0.0351 ppm	2.5476 ppm	-0.0004 ppm	0.1141 ppm
Concentration RSD	73.3 %	0.7 %	11.1 %	0.5 %	0.6 %	81.3 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1692 ppm	103.3019 %	102.7928 %	96.1918 %	109.9854 %	110.3724 %	108.6713 %
Concentration per Run	0.1701 ppm	103.2940 %	103.0608 %	97.1555 %	110.1643 %	111.1769 %	108.8857 %
Concentration per Run	0.1682 ppm	103.7664 %	102.7089 %	94.6246 %	110.1278 %	111.1604 %	107.7503 %
Concentration per Run	0.1692 ppm	102.8453 %	102.6086 %	96.7952 %	109.6642 %	108.7799 %	109.3778 %
Concentration RSD	0.5 %	0.4 %	0.2 %	1.4 %	0.3 %	1.2 %	0.8 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCV
Analysis started at: 6/24/2025 5:02:50 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5347 ppm	0.5000 ppm	0.4900 ppm	0.5258 ppm	0.5307 ppm	0.5260 ppm	0.5184 ppm
Concentration per Run	0.5362 ppm	0.5037 ppm	0.4879 ppm	0.5272 ppm	0.5299 ppm	0.5252 ppm	0.5206 ppm
Concentration per Run	0.5331 ppm	0.4980 ppm	0.4925 ppm	0.5240 ppm	0.5307 ppm	0.5264 ppm	0.5169 ppm
Concentration per Run	0.5347 ppm	0.4984 ppm	0.4896 ppm	0.5261 ppm	0.5315 ppm	0.5263 ppm	0.5176 ppm
Recovery Percentage	106.932 %	100.006 %	98.001 %	105.156 %	106.142 %	105.198 %	103.676 %
Concentration RSD	0.3 %	0.6 %	0.5 %	0.3 %	0.1 %	0.1 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5062 ppm	0.5288 ppm	0.5317 ppm	0.5405 ppm	0.5408 ppm	5.2828 ppm	0.5372 ppm
Concentration per Run	0.5068 ppm	0.5277 ppm	0.5333 ppm	0.5419 ppm	0.5436 ppm	5.2808 ppm	0.5367 ppm
Concentration per Run	0.5044 ppm	0.5286 ppm	0.5309 ppm	0.5386 ppm	0.5409 ppm	5.3020 ppm	0.5362 ppm
Concentration per Run	0.5073 ppm	0.5302 ppm	0.5310 ppm	0.5410 ppm	0.5379 ppm	5.2657 ppm	0.5386 ppm
Recovery Percentage	101.238 %	105.768 %	106.347 %	108.098 %	108.164 %	105.656 %	107.434 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.3 %	0.5 %	0.3 %	0.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5269 ppm	0.5238 ppm	0.5054 ppm	10.6777 ppm	0.5311 ppm	0.5139 ppm	0.5218 ppm
Concentration per Run	0.5280 ppm	0.5248 ppm	0.5037 ppm	10.6496 ppm	0.5315 ppm	0.5121 ppm	0.5208 ppm
Concentration per Run	0.5241 ppm	0.5234 ppm	0.5045 ppm	10.6982 ppm	0.5304 ppm	0.5159 ppm	0.5190 ppm
Concentration per Run	0.5285 ppm	0.5232 ppm	0.5081 ppm	10.6853 ppm	0.5316 ppm	0.5136 ppm	0.5258 ppm
Recovery Percentage	105.378 %	104.755 %	101.085 %	106.777 %	106.229 %	102.770 %	104.370 %
Concentration RSD	0.5 %	0.2 %	0.5 %	0.2 %	0.1 %	0.4 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.5100 ppm	5.8287 ppm	0.5237 ppm	0.5265 ppm	0.5451 ppm	0.5130 ppm	0.5393 ppm
Concentration per Run	0.5104 ppm	5.8339 ppm	0.5260 ppm	0.5247 ppm	0.5483 ppm	0.5135 ppm	0.5402 ppm
Concentration per Run	0.5089 ppm	5.8150 ppm	0.5207 ppm	0.5289 ppm	0.5433 ppm	0.5099 ppm	0.5389 ppm
Concentration per Run	0.5108 ppm	5.8372 ppm	0.5245 ppm	0.5259 ppm	0.5438 ppm	0.5155 ppm	0.5389 ppm
Recovery Percentage	102.003 %	111.023 %	104.743 %	105.300 %	109.020 %	102.591 %	107.868 %
Concentration RSD	0.2 %	0.2 %	0.5 %	0.4 %	0.5 %	0.5 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5230 ppm	101.9338 %	101.6845 %	99.2667 %	100.6913 %	102.1072 %	98.7491 %
Concentration per Run	0.5221 ppm	101.8051 %	101.8534 %	99.1202 %	100.8806 %	101.3308 %	99.3208 %
Concentration per Run	0.5234 ppm	102.2045 %	101.7226 %	99.2656 %	100.9533 %	102.7699 %	97.7873 %
Concentration per Run	0.5235 ppm	101.7918 %	101.4775 %	99.4142 %	100.2399 %	102.2208 %	99.1390 %
Recovery Percentage	104.596 %						
Concentration RSD	0.2 %	0.2 %	0.2 %	0.1 %	0.4 %	0.7 %	0.8 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCB
 Analysis started at: 6/24/2025 5:06:15 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0006 ppm	0.0005 ppm	-0.0009 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0091 ppm
Concentration per Run	-0.0009 ppm	-0.0027 ppm	-0.0025 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run	-0.0001 ppm	0.0029 ppm	0.0000 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0094 ppm
Concentration per Run	-0.0006 ppm	0.0011 ppm	-0.0003 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0108 ppm
Recovery Percentage	-11.325 %	0.452 %	-18.418 %	-2.727 %	-0.103 %	0.188 %	9.066 %
Concentration RSD	70.0 %	633.5 %	152.2 %	42.4 %	482.8 %	131.8 %	21.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0021 ppm	-0.0227 ppm	-0.0003 ppm
Concentration per Run	0.0000 ppm	-0.0007 ppm	-0.0001 ppm	0.0002 ppm	0.0019 ppm	-0.0133 ppm	-0.0004 ppm
Concentration per Run	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0002 ppm	0.0018 ppm	-0.0294 ppm	0.0003 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0027 ppm	-0.0253 ppm	-0.0010 ppm
Recovery Percentage	0.162 %	-3.304 %	0.894 %	2.528 %	4.271 %	-0.908 %	-3.456 %
Concentration RSD	415.2 %	106.4 %	312.2 %	49.8 %	21.5 %	36.8 %	185.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0008 ppm	0.0001 ppm	0.0013 ppm	-0.0007 ppm	0.0005 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run	-0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0013 ppm	-0.0002 ppm	0.0002 ppm	0.0039 ppm
Concentration per Run	0.0008 ppm	0.0001 ppm	0.0014 ppm	-0.0024 ppm	0.0002 ppm	0.0003 ppm	0.0014 ppm
Concentration per Run	0.0017 ppm	0.0001 ppm	0.0011 ppm	-0.0010 ppm	0.0014 ppm	-0.0006 ppm	0.0033 ppm
Recovery Percentage	0.803 %	0.974 %	2.544 %	-0.036 %	1.941 %	-0.164 %	5.723 %
Concentration RSD	116.6 %	27.3 %	14.6 %	262.2 %	174.6 %	2,958.6 %	44.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0022 ppm	0.0140 ppm	0.0003 ppm	0.0000 ppm	0.0011 ppm	0.0017 ppm	-0.0001 ppm
Concentration per Run	0.0011 ppm	0.0135 ppm	-0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run	0.0042 ppm	0.0144 ppm	0.0010 ppm	0.0000 ppm	0.0012 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run	0.0013 ppm	0.0141 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm	0.0025 ppm	-0.0002 ppm
Recovery Percentage	22.071 %	2.806 %	0.557 %	0.108 %	11.289 %	8.255 %	-1.333 %
Concentration RSD	76.8 %	3.3 %	208.7 %	256.8 %	3.2 %	42.9 %	84.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	95.7366 %	96.8002 %	94.2468 %	96.7249 %	98.5690 %	96.0287 %
Concentration per Run	0.0004 ppm	95.4566 %	96.3075 %	93.7614 %	96.7436 %	97.8445 %	94.8995 %
Concentration per Run	0.0003 ppm	96.1018 %	97.5005 %	94.3213 %	96.6487 %	99.8887 %	95.9994 %
Concentration per Run	0.0006 ppm	95.6514 %	96.5927 %	94.6577 %	96.7824 %	97.9739 %	97.1872 %
Recovery Percentage	9.091 %						
Concentration RSD	25.8 %	0.3 %	0.6 %	0.5 %	0.1 %	1.2 %	1.2 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2080064-1 WG2080064
 Analysis started at: 6/24/2025 5:28:39 PM
 Rack: 1
 Vial: 52
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	0.0015 ppm	-0.0006 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0116 ppm
Concentration per Run	-0.0004 ppm	0.0012 ppm	-0.0004 ppm	-0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0100 ppm
Concentration per Run	-0.0006 ppm	0.0041 ppm	-0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0123 ppm
Concentration per Run	0.0001 ppm	-0.0008 ppm	-0.0006 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0123 ppm
Recovery Percentage	-6.168 %	1.533 %	-12.024 %	-1.845 %	0.218 %	-0.265 %	11.552 %
Concentration RSD	106.3 %	160.1 %	41.7 %	182.8 %	181.6 %	146.8 %	11.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0007 ppm	0.0002 ppm	-0.0004 ppm	0.0120 ppm	-0.0231 ppm	-0.0004 ppm
Concentration per Run	0.0001 ppm	-0.0004 ppm	0.0004 ppm	-0.0003 ppm	0.0108 ppm	-0.0164 ppm	-0.0005 ppm
Concentration per Run	-0.0001 ppm	-0.0010 ppm	0.0004 ppm	-0.0002 ppm	0.0125 ppm	-0.0245 ppm	-0.0008 ppm
Concentration per Run	0.0001 ppm	-0.0008 ppm	-0.0003 ppm	-0.0007 ppm	0.0128 ppm	-0.0284 ppm	0.0000 ppm
Recovery Percentage	0.606 %	-7.249 %	1.576 %	-4.255 %	24.023 %	-0.924 %	-4.199 %
Concentration RSD	478.5 %	37.2 %	232.7 %	57.6 %	8.8 %	26.7 %	98.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0022 ppm	0.0003 ppm	-0.0002 ppm	0.0008 ppm	-0.0002 ppm	-0.0009 ppm	0.0013 ppm
Concentration per Run	0.0028 ppm	0.0003 ppm	0.0002 ppm	0.0033 ppm	0.0002 ppm	-0.0006 ppm	0.0013 ppm
Concentration per Run	0.0021 ppm	0.0003 ppm	0.0003 ppm	-0.0010 ppm	-0.0005 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run	0.0017 ppm	0.0002 ppm	-0.0011 ppm	0.0003 ppm	-0.0003 ppm	-0.0010 ppm	0.0023 ppm
Recovery Percentage	2.205 %	2.505 %	-0.414 %	0.042 %	-0.743 %	-8.676 %	2.512 %
Concentration RSD	25.2 %	31.8 %	382.4 %	263.3 %	205.0 %	25.2 %	88.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0017 ppm	0.0169 ppm	-0.0002 ppm	0.0000 ppm	0.0009 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run	0.0023 ppm	0.0188 ppm	-0.0003 ppm	0.0000 ppm	0.0008 ppm	0.0012 ppm	-0.0001 ppm
Concentration per Run	0.0023 ppm	0.0155 ppm	-0.0001 ppm	0.0000 ppm	0.0010 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run	0.0006 ppm	0.0166 ppm	-0.0003 ppm	0.0000 ppm	0.0008 ppm	0.0009 ppm	0.0001 ppm
Recovery Percentage	17.303 %	3.390 %	-0.461 %	-0.003 %	8.746 %	4.552 %	-0.790 %
Concentration RSD	56.1 %	9.9 %	68.0 %	2,685.2 %	15.6 %	30.1 %	194.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	104.8737 %	98.3971 %	101.7439 %	107.3814 %	98.0063 %	102.3739 %
Concentration per Run	0.0003 ppm	104.5856 %	98.0092 %	101.5905 %	107.3800 %	97.7572 %	102.1126 %
Concentration per Run	0.0002 ppm	104.8244 %	99.1782 %	101.9551 %	107.0050 %	97.3355 %	102.5747 %
Concentration per Run	0.0003 ppm	105.2111 %	98.0039 %	101.6862 %	107.7593 %	98.9262 %	102.4345 %
Recovery Percentage	4.764 %						
Concentration RSD	25.0 %	0.3 %	0.7 %	0.2 %	0.4 %	0.8 %	0.2 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2080064-2 WG2080064
 Analysis started at: 6/24/2025 5:32:16 PM
 Rack: 1
 Vial: 53
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0559 ppm	2.2307 ppm	0.1232 ppm	1.0642 ppm	2.2391 ppm	0.0537 ppm	10.5726 ppm
Concentration per Run	0.0560 ppm	2.2349 ppm	0.1207 ppm	1.0678 ppm	2.2293 ppm	0.0536 ppm	10.5119 ppm
Concentration per Run	0.0561 ppm	2.2252 ppm	0.1239 ppm	1.0614 ppm	2.2438 ppm	0.0536 ppm	10.5873 ppm
Concentration per Run	0.0557 ppm	2.2322 ppm	0.1252 ppm	1.0634 ppm	2.2441 ppm	0.0538 ppm	10.6186 ppm
Concentration RSD	0.3 %	0.2 %	1.9 %	0.3 %	0.4 %	0.2 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0549 ppm	0.5371 ppm	0.2149 ppm	0.2791 ppm	1.1078 ppm	10.9468 ppm	-0.0003 ppm
Concentration per Run	0.0547 ppm	0.5372 ppm	0.2136 ppm	0.2796 ppm	1.1091 ppm	10.9366 ppm	-0.0002 ppm
Concentration per Run	0.0547 ppm	0.5370 ppm	0.2151 ppm	0.2780 ppm	1.1015 ppm	10.8971 ppm	-0.0005 ppm
Concentration per Run	0.0552 ppm	0.5371 ppm	0.2162 ppm	0.2798 ppm	1.1129 ppm	11.0066 ppm	-0.0001 ppm
Concentration RSD	0.5 %	0.0 %	0.6 %	0.3 %	0.5 %	0.5 %	82.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	10.5427 ppm	0.5376 ppm	0.9834 ppm	11.2019 ppm	0.5451 ppm	0.5609 ppm	0.4698 ppm
Concentration per Run	10.4671 ppm	0.5354 ppm	0.9760 ppm	11.2249 ppm	0.5422 ppm	0.5624 ppm	0.4608 ppm
Concentration per Run	10.5454 ppm	0.5375 ppm	0.9847 ppm	11.1359 ppm	0.5461 ppm	0.5607 ppm	0.4690 ppm
Concentration per Run	10.6156 ppm	0.5400 ppm	0.9896 ppm	11.2447 ppm	0.5468 ppm	0.5597 ppm	0.4797 ppm
Concentration RSD	0.7 %	0.4 %	0.7 %	0.5 %	0.5 %	0.2 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1295 ppm	1.1417 ppm	0.9954 ppm	1.0603 ppm	1.0806 ppm	0.1274 ppm	0.5650 ppm
Concentration per Run	0.1299 ppm	1.1379 ppm	0.9896 ppm	1.0574 ppm	1.0740 ppm	0.1267 ppm	0.5642 ppm
Concentration per Run	0.1289 ppm	1.1414 ppm	0.9919 ppm	1.0609 ppm	1.0782 ppm	0.1288 ppm	0.5649 ppm
Concentration per Run	0.1296 ppm	1.1456 ppm	1.0046 ppm	1.0626 ppm	1.0896 ppm	0.1266 ppm	0.5659 ppm
Concentration RSD	0.4 %	0.3 %	0.8 %	0.3 %	0.7 %	1.0 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5413 ppm	99.9579 %	99.6958 %	95.8871 %	98.8014 %	98.7273 %	95.4952 %
Concentration per Run	0.5417 ppm	100.3703 %	100.2240 %	96.1860 %	99.1943 %	100.1698 %	94.6046 %
Concentration per Run	0.5420 ppm	99.9601 %	99.7358 %	95.3462 %	98.8406 %	97.7312 %	96.0909 %
Concentration per Run	0.5402 ppm	99.5431 %	99.1277 %	96.1291 %	98.3692 %	98.2810 %	95.7903 %
Concentration RSD	0.2 %	0.4 %	0.6 %	0.5 %	0.4 %	1.3 %	0.8 %

ICP DataTrace 8

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LabBook: WG2082583_06242025T8.imexp

Sample: L2534635-24 WG2080064
 Analysis started at: 6/24/2025 5:35:39 PM
 Rack: 1
 Vial: 54
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0004 ppm	0.0038 ppm	0.0050 ppm	0.1088 ppm	0.0606 ppm	0.0000 ppm	191.9979 ppm
Concentration per Run	-0.0006 ppm	0.0025 ppm	0.0042 ppm	0.1076 ppm	0.0608 ppm	0.0000 ppm	191.9243 ppm
Concentration per Run	-0.0006 ppm	0.0021 ppm	0.0034 ppm	0.1095 ppm	0.0605 ppm	0.0000 ppm	191.8774 ppm
Concentration per Run	-0.0001 ppm	0.0068 ppm	0.0074 ppm	0.1093 ppm	0.0606 ppm	0.0000 ppm	192.1921 ppm
Concentration RSD	70.7 %	69.1 %	41.6 %	0.9 %	0.3 %	10.6 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0009 ppm	0.0015 ppm	0.0005 ppm	0.0002 ppm	14.4401 ppm	16.0011 ppm	0.0054 ppm
Concentration per Run	-0.0008 ppm	0.0014 ppm	0.0004 ppm	0.0003 ppm	14.4708 ppm	15.9965 ppm	0.0064 ppm
Concentration per Run	-0.0010 ppm	0.0015 ppm	0.0007 ppm	0.0002 ppm	14.3940 ppm	15.9790 ppm	0.0049 ppm
Concentration per Run	-0.0009 ppm	0.0017 ppm	0.0003 ppm	0.0001 ppm	14.4555 ppm	16.0277 ppm	0.0049 ppm
Concentration RSD	9.4 %	9.0 %	47.7 %	63.8 %	0.3 %	0.2 %	15.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	37.6888 ppm	1.1852 ppm	0.0065 ppm	12.6048 ppm	0.0050 ppm	-0.0009 ppm	0.0120 ppm
Concentration per Run	37.8052 ppm	1.1885 ppm	0.0070 ppm	12.6066 ppm	0.0055 ppm	-0.0003 ppm	0.0128 ppm
Concentration per Run	38.0245 ppm	1.1827 ppm	0.0063 ppm	12.5803 ppm	0.0044 ppm	-0.0009 ppm	0.0138 ppm
Concentration per Run	37.2368 ppm	1.1843 ppm	0.0063 ppm	12.6274 ppm	0.0051 ppm	-0.0017 ppm	0.0093 ppm
Concentration RSD	1.1 %	0.3 %	6.3 %	0.2 %	11.7 %	72.5 %	19.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0035 ppm	8.8671 ppm	0.0049 ppm	0.6817 ppm	0.0012 ppm	0.0011 ppm	0.0000 ppm
Concentration per Run	0.0037 ppm	8.8839 ppm	0.0047 ppm	0.6811 ppm	0.0014 ppm	0.0020 ppm	-0.0001 ppm
Concentration per Run	0.0035 ppm	8.8909 ppm	0.0050 ppm	0.6812 ppm	0.0013 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run	0.0032 ppm	8.8266 ppm	0.0050 ppm	0.6827 ppm	0.0010 ppm	0.0005 ppm	0.0001 ppm
Concentration RSD	6.5 %	0.4 %	3.1 %	0.1 %	14.1 %	77.4 %	228.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	96.7110 %	96.6981 %	90.9140 %	95.5771 %	95.1595 %	91.8289 %
Concentration per Run	0.0008 ppm	96.4434 %	96.4337 %	91.0782 %	95.3371 %	95.4123 %	91.6639 %
Concentration per Run	0.0008 ppm	96.6621 %	97.3036 %	90.4808 %	95.8298 %	95.4268 %	91.4230 %
Concentration per Run	0.0007 ppm	97.0275 %	96.3569 %	91.1831 %	95.5643 %	94.6394 %	92.3998 %
Concentration RSD	8.5 %	0.3 %	0.5 %	0.4 %	0.3 %	0.5 %	0.6 %

ICP DataTrace 8

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LabBook: WG2082583_06242025T8.imexp

Sample: WG2080064-3 WG2080064
 Analysis started at: 6/24/2025 5:39:03 PM
 Rack: 1
 Vial: 55
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0591 ppm	2.3232 ppm	0.1403 ppm	1.2197 ppm	2.3470 ppm	0.0542 ppm	198.8712 ppm
Concentration per Run	0.0596 ppm	2.3295 ppm	0.1397 ppm	1.2190 ppm	2.3544 ppm	0.0542 ppm	198.4436 ppm
Concentration per Run	0.0588 ppm	2.3185 ppm	0.1405 ppm	1.2162 ppm	2.3445 ppm	0.0541 ppm	197.9460 ppm
Concentration per Run	0.0588 ppm	2.3216 ppm	0.1406 ppm	1.2238 ppm	2.3422 ppm	0.0543 ppm	200.2241 ppm
Concentration RSD	0.8 %	0.2 %	0.3 %	0.3 %	0.3 %	0.3 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0531 ppm	0.5347 ppm	0.2175 ppm	0.2922 ppm	15.3970 ppm	27.7754 ppm	0.0054 ppm
Concentration per Run	0.0531 ppm	0.5367 ppm	0.2192 ppm	0.2933 ppm	15.3806 ppm	27.7031 ppm	0.0066 ppm
Concentration per Run	0.0537 ppm	0.5356 ppm	0.2177 ppm	0.2923 ppm	15.3578 ppm	27.7930 ppm	0.0049 ppm
Concentration per Run	0.0526 ppm	0.5318 ppm	0.2156 ppm	0.2909 ppm	15.4527 ppm	27.8302 ppm	0.0047 ppm
Concentration RSD	1.1 %	0.5 %	0.8 %	0.4 %	0.3 %	0.2 %	19.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	48.5630 ppm	1.7055 ppm	1.0011 [SIC 20]	24.4318 ppm	0.5426 ppm	0.5736 ppm	0.5582 ppm
Concentration per Run	48.9365 ppm	1.7089 ppm	0.9973 ppm	24.4071 ppm	0.5467 ppm	0.5746 ppm	0.5559 ppm
Concentration per Run	48.6039 ppm	1.7013 ppm	1.0057 ppm	24.4746 ppm	0.5417 ppm	0.5729 ppm	0.5622 ppm
Concentration per Run	48.1487 ppm	1.7065 ppm	1.0004 ppm	24.4139 ppm	0.5395 ppm	0.5733 ppm	0.5566 ppm
Concentration RSD	0.8 %	0.2 %	0.4 %	0.2 %	0.7 %	0.2 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1430 ppm	10.0991 [SIC 200]	1.0026 [SIC 20]	1.7647 ppm	1.1172 ppm	0.1342 ppm	0.5789 ppm
Concentration per Run	0.1447 ppm	10.1270 ppm	1.0056 ppm	1.7662 ppm	1.1263 ppm	0.1354 ppm	0.5812 ppm
Concentration per Run	0.1420 ppm	10.1008 ppm	1.0071 ppm	1.7658 ppm	1.1171 ppm	0.1318 ppm	0.5789 ppm
Concentration per Run	0.1423 ppm	10.0696 ppm	0.9952 ppm	1.7620 ppm	1.1080 ppm	0.1352 ppm	0.5767 ppm
Concentration RSD	1.1 %	0.3 %	0.6 %	0.1 %	0.8 %	1.5 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5293 ppm	94.7056 %	95.5427 %	87.1010 %	93.3986 %	93.8809 %	90.3501 %
Concentration per Run	0.5302 ppm	94.7926 %	95.6749 %	86.7497 %	93.8976 %	94.1766 %	89.8660 %
Concentration per Run	0.5310 ppm	94.6007 %	96.0568 %	87.3568 %	93.0371 %	94.7430 %	90.3054 %
Concentration per Run	0.5265 ppm	94.7234 %	94.8964 %	87.1965 %	93.2611 %	92.7231 %	90.8789 %
Concentration RSD	0.4 %	0.1 %	0.6 %	0.4 %	0.5 %	1.1 %	0.6 %

ICP DataTrace 8

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LabBook: WG2082583_06242025T8.imexp

Sample: WG2080064-4 WG2080064
 Analysis started at: 6/24/2025 5:42:27 PM
 Rack: 1
 Vial: 56
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0570 ppm	2.2484 ppm	0.1340 ppm	1.1714 ppm	2.2694 ppm	0.0526 ppm	196.2861 ppm
Concentration per Run	0.0570 ppm	2.2636 ppm	0.1345 ppm	1.1705 ppm	2.2725 ppm	0.0530 ppm	197.1749 ppm
Concentration per Run	0.0570 ppm	2.2270 ppm	0.1308 ppm	1.1718 ppm	2.2544 ppm	0.0519 ppm	193.4974 ppm
Concentration per Run	0.0570 ppm	2.2545 ppm	0.1367 ppm	1.1720 ppm	2.2811 ppm	0.0529 ppm	198.1860 ppm
Concentration RSD	0.1 %	0.8 %	2.2 %	0.1 %	0.6 %	1.1 %	1.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0506 ppm	0.5091 ppm	0.2073 ppm	0.2791 ppm	15.2072 ppm	27.2471 ppm	0.0047 ppm
Concentration per Run	0.0506 ppm	0.5091 ppm	0.2088 ppm	0.2793 ppm	15.2947 ppm	27.2942 ppm	0.0056 ppm
Concentration per Run	0.0505 ppm	0.5099 ppm	0.2061 ppm	0.2791 ppm	15.0105 ppm	27.0108 ppm	0.0045 ppm
Concentration per Run	0.0507 ppm	0.5084 ppm	0.2070 ppm	0.2789 ppm	15.3165 ppm	27.4362 ppm	0.0040 ppm
Concentration RSD	0.2 %	0.1 %	0.7 %	0.1 %	1.1 %	0.8 %	17.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	46.6584 ppm	1.6766 ppm	0.9569 ppm	23.9691 ppm	0.5179 ppm	0.5495 ppm	0.5353 ppm
Concentration per Run	46.8845 ppm	1.6841 ppm	0.9504 ppm	24.1224 ppm	0.5194 ppm	0.5507 ppm	0.5410 ppm
Concentration per Run	46.5038 ppm	1.6550 ppm	0.9547 ppm	23.7788 ppm	0.5167 ppm	0.5397 ppm	0.5300 ppm
Concentration per Run	46.5870 ppm	1.6905 ppm	0.9656 ppm	24.0061 ppm	0.5176 ppm	0.5581 ppm	0.5350 ppm
Concentration RSD	0.4 %	1.1 %	0.8 %	0.7 %	0.3 %	1.7 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1363 ppm	9.8050 ppm	0.9559 ppm	1.7197 ppm	1.0643 ppm	0.1291 ppm	0.5526 ppm
Concentration per Run	0.1382 ppm	9.8274 ppm	0.9593 ppm	1.7252 ppm	1.0714 ppm	0.1296 ppm	0.5534 ppm
Concentration per Run	0.1324 ppm	9.7899 ppm	0.9534 ppm	1.7049 ppm	1.0588 ppm	0.1279 ppm	0.5519 ppm
Concentration per Run	0.1382 ppm	9.7976 ppm	0.9549 ppm	1.7288 ppm	1.0627 ppm	0.1298 ppm	0.5525 ppm
Concentration RSD	2.5 %	0.2 %	0.3 %	0.8 %	0.6 %	0.8 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5032 ppm	97.4201 %	96.7857 %	89.2142 %	95.8204 %	96.3686 %	91.6990 %
Concentration per Run	0.5022 ppm	97.4754 %	96.2385 %	89.0989 %	95.9600 %	96.7447 %	92.3359 %
Concentration per Run	0.5037 ppm	97.1356 %	97.9524 %	90.3116 %	95.6444 %	96.4491 %	92.5220 %
Concentration per Run	0.5038 ppm	97.6494 %	96.1663 %	88.2320 %	95.8567 %	95.9121 %	90.2391 %
Concentration RSD	0.2 %	0.3 %	1.0 %	1.2 %	0.2 %	0.4 %	1.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2080064-5 WG2080064
 Analysis started at: 6/24/2025 5:45:51 PM
 Rack: 1
 Vial: 57
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0567 ppm	2.2585 ppm	0.1405 ppm	1.2469 ppm	2.2721 ppm	0.0523 ppm	197.0486 ppm
Concentration per Run	0.0573 ppm	2.2619 ppm	0.1434 ppm	1.2505 ppm	2.2785 ppm	0.0523 ppm	196.9003 ppm
Concentration per Run	0.0567 ppm	2.2543 ppm	0.1386 ppm	1.2539 ppm	2.2676 ppm	0.0523 ppm	197.5185 ppm
Concentration per Run	0.0563 ppm	2.2592 ppm	0.1395 ppm	1.2363 ppm	2.2703 ppm	0.0522 ppm	196.7271 ppm
Concentration RSD	0.9 %	0.2 %	1.8 %	0.7 %	0.3 %	0.1 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0524 ppm	0.5263 ppm	0.2155 ppm	0.2887 ppm	15.3427 ppm	27.7823 ppm	0.0053 ppm
Concentration per Run	0.0531 ppm	0.5301 ppm	0.2180 ppm	0.2899 ppm	15.3236 ppm	27.7169 ppm	0.0061 ppm
Concentration per Run	0.0523 ppm	0.5258 ppm	0.2162 ppm	0.2891 ppm	15.3553 ppm	27.8277 ppm	0.0050 ppm
Concentration per Run	0.0520 ppm	0.5231 ppm	0.2123 ppm	0.2872 ppm	15.3494 ppm	27.8022 ppm	0.0047 ppm
Concentration RSD	1.0 %	0.7 %	1.4 %	0.5 %	0.1 %	0.2 %	13.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	48.6195 ppm	1.6784 ppm	1.0322 [SIC 20]	24.5975 ppm	0.5366 ppm	0.5795 ppm	0.4279 ppm
Concentration per Run	49.2152 ppm	1.6758 ppm	1.0329 ppm	24.5287 ppm	0.5396 ppm	0.5869 ppm	0.4245 ppm
Concentration per Run	48.6785 ppm	1.6834 ppm	1.0320 ppm	24.6075 ppm	0.5383 ppm	0.5730 ppm	0.4282 ppm
Concentration per Run	47.9648 ppm	1.6759 ppm	1.0315 ppm	24.6564 ppm	0.5320 ppm	0.5785 ppm	0.4308 ppm
Concentration RSD	1.3 %	0.3 %	0.1 %	0.3 %	0.8 %	1.2 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1406 ppm	10.1954 [SIC 200]	1.0347 [SIC 20]	1.7741 ppm	1.1454 ppm	0.1323 ppm	0.5717 ppm
Concentration per Run	0.1394 ppm	10.2553 ppm	1.0434 ppm	1.7763 ppm	1.1577 ppm	0.1351 ppm	0.5748 ppm
Concentration per Run	0.1406 ppm	10.2032 ppm	1.0312 ppm	1.7718 ppm	1.1489 ppm	0.1316 ppm	0.5723 ppm
Concentration per Run	0.1418 ppm	10.1278 ppm	1.0294 ppm	1.7742 ppm	1.1297 ppm	0.1303 ppm	0.5679 ppm
Concentration RSD	0.9 %	0.6 %	0.7 %	0.1 %	1.2 %	1.9 %	0.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5230 ppm	94.7237 %	95.9335 %	87.0850 %	93.2226 %	95.3115 %	88.9196 %
Concentration per Run	0.5260 ppm	94.3771 %	96.1775 %	86.7747 %	93.1043 %	95.3935 %	87.5637 %
Concentration per Run	0.5219 ppm	94.4437 %	95.6910 %	87.6099 %	92.9629 %	94.9125 %	89.9802 %
Concentration per Run	0.5212 ppm	95.3504 %	95.9321 %	86.8705 %	93.6006 %	95.6283 %	89.2150 %
Concentration RSD	0.5 %	0.6 %	0.3 %	0.5 %	0.4 %	0.4 %	1.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: WG2080064-6 WG2080064
 Analysis started at: 6/24/2025 5:49:16 PM
 Rack: 1
 Vial: 58
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	0.0009 ppm	0.0009 ppm	0.0221 ppm	0.0119 ppm	0.0000 ppm	38.0574 ppm
Concentration per Run	-0.0002 ppm	0.0007 ppm	0.0011 ppm	0.0230 ppm	0.0119 ppm	0.0000 ppm	38.1406 ppm
Concentration per Run	-0.0003 ppm	0.0005 ppm	0.0000 ppm	0.0218 ppm	0.0121 ppm	0.0000 ppm	37.7911 ppm
Concentration per Run	-0.0006 ppm	0.0016 ppm	0.0017 ppm	0.0215 ppm	0.0119 ppm	0.0000 ppm	38.2407 ppm
Concentration RSD	59.3 %	67.1 %	88.7 %	3.6 %	1.0 %	4.6 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	2.8550 ppm	3.1097 ppm	0.0011 ppm
Concentration per Run	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	2.8623 ppm	3.1516 ppm	0.0012 ppm
Concentration per Run	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	2.8477 ppm	3.1205 ppm	0.0010 ppm
Concentration per Run	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	2.8550 ppm	3.0571 ppm	0.0010 ppm
Concentration RSD	52.0 %	149.1 %	66.8 %	76.8 %	0.3 %	1.5 %	12.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	7.5732 ppm	0.2347 ppm	0.0100 ppm	2.4753 ppm	0.0012 ppm	0.0005 ppm	0.0293 ppm
Concentration per Run	7.6371 ppm	0.2356 ppm	0.0107 ppm	2.4819 ppm	0.0012 ppm	0.0003 ppm	0.0299 ppm
Concentration per Run	7.5690 ppm	0.2335 ppm	0.0099 ppm	2.4899 ppm	0.0009 ppm	0.0002 ppm	0.0311 ppm
Concentration per Run	7.5135 ppm	0.2349 ppm	0.0095 ppm	2.4541 ppm	0.0015 ppm	0.0011 ppm	0.0268 ppm
Concentration RSD	0.8 %	0.4 %	6.0 %	0.8 %	25.2 %	83.7 %	7.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0020 ppm	1.6806 ppm	0.0144 ppm	0.1358 ppm	0.0013 ppm	0.0012 ppm	0.0000 ppm
Concentration per Run	0.0007 ppm	1.6879 ppm	0.0163 ppm	0.1360 ppm	0.0011 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run	0.0027 ppm	1.6821 ppm	0.0141 ppm	0.1366 ppm	0.0012 ppm	0.0014 ppm	-0.0001 ppm
Concentration per Run	0.0028 ppm	1.6718 ppm	0.0128 ppm	0.1347 ppm	0.0015 ppm	0.0012 ppm	0.0002 ppm
Concentration RSD	57.8 %	0.5 %	12.3 %	0.7 %	16.0 %	26.7 %	478.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	100.7657 %	100.4234 %	98.1333 %	99.6713 %	99.3778 %	96.9668 %
Concentration per Run	0.0005 ppm	99.8383 %	100.1826 %	98.5873 %	98.9662 %	99.1965 %	97.4665 %
Concentration per Run	0.0006 ppm	100.7176 %	100.7092 %	98.1060 %	99.4492 %	100.0074 %	96.8292 %
Concentration per Run	0.0004 ppm	101.7412 %	100.3783 %	97.7064 %	100.5985 %	98.9296 %	96.6047 %
Concentration RSD	24.3 %	0.9 %	0.3 %	0.4 %	0.8 %	0.6 %	0.5 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2534635-25 WG2080064
Analysis started at: 6/24/2025 5:52:42 PM
Rack: 1
Vial: 59
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0005 ppm	0.0047 ppm	0.0041 ppm	0.1073 ppm	0.0612 ppm	0.0000 ppm	190.1629 ppm
Concentration per Run	-0.0003 ppm	0.0043 ppm	0.0035 ppm	0.1090 ppm	0.0611 ppm	0.0000 ppm	189.8317 ppm
Concentration per Run	-0.0006 ppm	0.0033 ppm	0.0044 ppm	0.1074 ppm	0.0614 ppm	0.0000 ppm	189.9519 ppm
Concentration per Run	-0.0005 ppm	0.0067 ppm	0.0044 ppm	0.1055 ppm	0.0611 ppm	0.0000 ppm	190.7051 ppm
Concentration RSD	29.7 %	36.9 %	13.1 %	1.6 %	0.3 %	18.8 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0008 ppm	0.0013 ppm	0.0004 ppm	0.0005 ppm	14.4119 ppm	15.9880 ppm	0.0050 ppm
Concentration per Run	-0.0008 ppm	0.0013 ppm	0.0007 ppm	0.0007 ppm	14.3930 ppm	15.9769 ppm	0.0055 ppm
Concentration per Run	-0.0007 ppm	0.0012 ppm	0.0005 ppm	0.0004 ppm	14.3345 ppm	15.9608 ppm	0.0045 ppm
Concentration per Run	-0.0009 ppm	0.0014 ppm	0.0001 ppm	0.0005 ppm	14.5083 ppm	16.0264 ppm	0.0050 ppm
Concentration RSD	9.6 %	4.3 %	62.8 %	27.2 %	0.6 %	0.2 %	10.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	37.6289 ppm	1.1674 ppm	0.0018 ppm	12.6585 ppm	0.0047 ppm	0.0000 ppm	0.0083 ppm
Concentration per Run	37.9620 ppm	1.1673 ppm	0.0021 ppm	12.7045 ppm	0.0045 ppm	-0.0003 ppm	0.0085 ppm
Concentration per Run	37.7922 ppm	1.1637 ppm	0.0021 ppm	12.5682 ppm	0.0048 ppm	0.0001 ppm	0.0066 ppm
Concentration per Run	37.1325 ppm	1.1712 ppm	0.0012 ppm	12.7027 ppm	0.0048 ppm	0.0002 ppm	0.0098 ppm
Concentration RSD	1.2 %	0.3 %	28.7 %	0.6 %	3.3 %	2,124.4 %	19.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0028 ppm	8.8411 ppm	0.0021 ppm	0.6884 ppm	0.0012 ppm	0.0018 ppm	0.0001 ppm
Concentration per Run	0.0009 ppm	8.8616 ppm	0.0023 ppm	0.6861 ppm	0.0011 ppm	0.0026 ppm	0.0001 ppm
Concentration per Run	0.0029 ppm	8.8609 ppm	0.0021 ppm	0.6892 ppm	0.0014 ppm	0.0019 ppm	0.0001 ppm
Concentration per Run	0.0046 ppm	8.8008 ppm	0.0020 ppm	0.6897 ppm	0.0012 ppm	0.0010 ppm	0.0002 ppm
Concentration RSD	67.4 %	0.4 %	8.1 %	0.3 %	13.5 %	45.6 %	54.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	98.6972 %	98.3591 %	92.7316 %	97.3481 %	96.9389 %	92.5821 %
Concentration per Run	0.0011 ppm	98.2827 %	98.1473 %	92.3993 %	97.2294 %	97.5864 %	92.1778 %
Concentration per Run	0.0010 ppm	98.4810 %	98.8236 %	92.7301 %	97.3318 %	95.9523 %	92.8844 %
Concentration per Run	0.0013 ppm	99.3280 %	98.1063 %	93.0653 %	97.4829 %	97.2781 %	92.6840 %
Concentration RSD	10.1 %	0.6 %	0.4 %	0.4 %	0.1 %	0.9 %	0.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2535209-01 WG2080064
 Analysis started at: 6/24/2025 5:56:07 PM
 Rack: 1
 Vial: 60
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0004 ppm	0.2015 ppm	0.0002 ppm	0.0239 ppm	0.0179 ppm	0.0003 ppm	5.0344 ppm
Concentration per Run	-0.0004 ppm	0.2023 ppm	-0.0007 ppm	0.0234 ppm	0.0180 ppm	0.0003 ppm	5.0464 ppm
Concentration per Run	-0.0006 ppm	0.1992 ppm	0.0014 ppm	0.0236 ppm	0.0177 ppm	0.0003 ppm	5.0164 ppm
Concentration per Run	-0.0004 ppm	0.2029 ppm	0.0000 ppm	0.0246 ppm	0.0179 ppm	0.0003 ppm	5.0404 ppm
Concentration RSD	23.5 %	1.0 %	483.5 %	2.7 %	0.6 %	3.1 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0009 ppm	0.0120 ppm	0.5822 ppm	0.0003 ppm
Concentration per Run	0.0000 ppm	-0.0004 ppm	0.0004 ppm	0.0010 ppm	0.0127 ppm	0.6160 ppm	0.0004 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0009 ppm	0.0120 ppm	0.5662 ppm	0.0004 ppm
Concentration per Run	0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.0010 ppm	0.0114 ppm	0.5643 ppm	0.0001 ppm
Concentration RSD	187.7 %	113.8 %	27.8 %	7.7 %	5.6 %	5.0 %	65.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	1.5327 ppm	0.0484 ppm	0.0005 ppm	9.5073 ppm	0.0004 ppm	0.0001 ppm	0.0047 ppm
Concentration per Run	1.5448 ppm	0.0486 ppm	0.0008 ppm	9.5233 ppm	0.0002 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run	1.5241 ppm	0.0481 ppm	0.0001 ppm	9.4902 ppm	0.0007 ppm	0.0002 ppm	0.0036 ppm
Concentration per Run	1.5291 ppm	0.0485 ppm	0.0006 ppm	9.5084 ppm	0.0003 ppm	-0.0001 ppm	0.0070 ppm
Concentration RSD	0.7 %	0.6 %	78.3 %	0.2 %	59.6 %	253.5 %	42.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0032 ppm	5.4007 ppm	0.0008 ppm	0.0454 ppm	0.0009 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run	0.0045 ppm	5.4082 ppm	0.0007 ppm	0.0456 ppm	0.0011 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run	0.0026 ppm	5.3934 ppm	0.0001 ppm	0.0452 ppm	0.0012 ppm	0.0011 ppm	0.0000 ppm
Concentration per Run	0.0025 ppm	5.4005 ppm	0.0017 ppm	0.0454 ppm	0.0006 ppm	0.0007 ppm	0.0001 ppm
Concentration RSD	36.2 %	0.1 %	93.3 %	0.5 %	32.5 %	27.1 %	140.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0027 ppm	103.1201 %	103.2766 %	100.9460 %	104.5868 %	104.4687 %	103.0642 %
Concentration per Run	0.0028 ppm	103.0612 %	103.0843 %	100.4871 %	104.7293 %	105.5267 %	102.7887 %
Concentration per Run	0.0027 ppm	103.0986 %	103.7870 %	101.4934 %	104.4444 %	103.7863 %	103.5527 %
Concentration per Run	0.0028 ppm	103.2005 %	102.9584 %	100.8576 %	104.5866 %	104.0932 %	102.8512 %
Concentration RSD	3.2 %	0.1 %	0.4 %	0.5 %	0.1 %	0.9 %	0.4 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: L2535209-02 WG2080064
 Analysis started at: 6/24/2025 5:59:33 PM
 Rack: 2
 Vial: 1
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0004 ppm	0.0050 ppm	0.0022 ppm	0.0423 ppm	0.0819 ppm	0.0000 ppm	16.9492 ppm
Concentration per Run	-0.0004 ppm	0.0033 ppm	0.0025 ppm	0.0430 ppm	0.0825 ppm	0.0000 ppm	16.8040 ppm
Concentration per Run	-0.0003 ppm	0.0066 ppm	0.0023 ppm	0.0418 ppm	0.0813 ppm	0.0000 ppm	17.0758 ppm
Concentration per Run	-0.0006 ppm	0.0051 ppm	0.0019 ppm	0.0420 ppm	0.0818 ppm	0.0000 ppm	16.9679 ppm
Concentration RSD	27.3 %	32.3 %	13.5 %	1.5 %	0.8 %	139.8 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0002 ppm	0.0077 ppm	0.0004 ppm	0.0002 ppm	11.4771 ppm	10.5958 ppm	0.0000 ppm
Concentration per Run	-0.0003 ppm	0.0077 ppm	0.0005 ppm	0.0003 ppm	11.4748 ppm	10.7413 ppm	0.0000 ppm
Concentration per Run	-0.0002 ppm	0.0080 ppm	0.0003 ppm	0.0002 ppm	11.5010 ppm	10.5264 ppm	-0.0001 ppm
Concentration per Run	-0.0001 ppm	0.0073 ppm	0.0003 ppm	0.0000 ppm	11.4555 ppm	10.5199 ppm	0.0002 ppm
Concentration RSD	64.9 %	4.4 %	41.5 %	91.1 %	0.2 %	1.2 %	967.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	4.1948 ppm	1.7471 ppm	0.0004 ppm	9.9514 ppm	0.0072 ppm	-0.0002 ppm	0.0026 ppm
Concentration per Run	4.2179 ppm	1.7488 ppm	0.0005 ppm	10.0607 ppm	0.0073 ppm	-0.0004 ppm	0.0055 ppm
Concentration per Run	4.1734 ppm	1.7448 ppm	0.0007 ppm	9.8180 ppm	0.0072 ppm	-0.0005 ppm	0.0007 ppm
Concentration per Run	4.1930 ppm	1.7478 ppm	0.0000 ppm	9.9755 ppm	0.0070 ppm	0.0002 ppm	0.0015 ppm
Concentration RSD	0.5 %	0.1 %	84.5 %	1.2 %	2.4 %	167.0 %	99.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0006 ppm	5.2352 ppm	0.0009 ppm	0.1073 ppm	0.0009 ppm	0.0026 ppm	0.0001 ppm
Concentration per Run	-0.0002 ppm	5.2371 ppm	0.0014 ppm	0.1081 ppm	0.0011 ppm	0.0026 ppm	0.0003 ppm
Concentration per Run	0.0036 ppm	5.2171 ppm	0.0003 ppm	0.1067 ppm	0.0007 ppm	0.0034 ppm	0.0001 ppm
Concentration per Run	-0.0016 ppm	5.2515 ppm	0.0009 ppm	0.1070 ppm	0.0010 ppm	0.0019 ppm	0.0000 ppm
Concentration RSD	469.6 %	0.3 %	68.4 %	0.7 %	24.0 %	29.4 %	98.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	96.3489 %	95.9605 %	92.8025 %	95.2139 %	94.7129 %	91.5213 %
Concentration per Run	0.0010 ppm	96.3476 %	95.9433 %	92.6668 %	95.3976 %	95.9731 %	91.6075 %
Concentration per Run	0.0010 ppm	96.8369 %	95.9740 %	92.9627 %	95.8083 %	94.3640 %	90.8331 %
Concentration per Run	0.0012 ppm	95.8620 %	95.9642 %	92.7780 %	94.4357 %	93.8015 %	92.1234 %
Concentration RSD	9.5 %	0.5 %	0.0 %	0.2 %	0.7 %	1.2 %	0.7 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCV
Analysis started at: 6/24/2025 6:02:56 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5548 ppm	0.5178 ppm	0.5106 ppm	0.5435 ppm	0.5510 ppm	0.5434 ppm	0.5340 ppm
Concentration per Run	0.5529 ppm	0.5184 ppm	0.5101 ppm	0.5402 ppm	0.5497 ppm	0.5416 ppm	0.5352 ppm
Concentration per Run	0.5554 ppm	0.5160 ppm	0.5101 ppm	0.5463 ppm	0.5505 ppm	0.5424 ppm	0.5336 ppm
Concentration per Run	0.5560 ppm	0.5188 ppm	0.5117 ppm	0.5439 ppm	0.5527 ppm	0.5463 ppm	0.5330 ppm
Recovery Percentage	110.953 %	103.551 %	102.125 %	108.698 %	110.196 %	108.686 %	106.791 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.6 %	0.3 %	0.5 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5322 ppm	0.5487 ppm	0.5503 ppm	0.5590 ppm	0.5521 ppm	5.5578 ppm	0.5555 ppm
Concentration per Run	0.5338 ppm	0.5476 ppm	0.5486 ppm	0.5568 ppm	0.5471 ppm	5.5792 ppm	0.5575 ppm
Concentration per Run	0.5316 ppm	0.5493 ppm	0.5496 ppm	0.5597 ppm	0.5527 ppm	5.5145 ppm	0.5532 ppm
Concentration per Run	0.5312 ppm	0.5492 ppm	0.5527 ppm	0.5605 ppm	0.5565 ppm	5.5797 ppm	0.5559 ppm
Recovery Percentage	106.442 %	109.742 %	110.058 %	111.802 %	110.419 %	111.156 %	111.108 %
Concentration RSD	0.3 %	0.2 %	0.4 %	0.4 %	0.9 %	0.7 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5431 ppm	0.5410 ppm	0.5270 ppm	11.0763 ppm	0.5501 ppm	0.5391 ppm	0.5476 ppm
Concentration per Run	0.5404 ppm	0.5405 ppm	0.5266 ppm	11.0412 ppm	0.5504 ppm	0.5404 ppm	0.5462 ppm
Concentration per Run	0.5428 ppm	0.5411 ppm	0.5262 ppm	11.0115 ppm	0.5500 ppm	0.5381 ppm	0.5485 ppm
Concentration per Run	0.5463 ppm	0.5414 ppm	0.5283 ppm	11.1762 ppm	0.5497 ppm	0.5388 ppm	0.5482 ppm
Recovery Percentage	108.630 %	108.200 %	105.409 %	110.763 %	110.011 %	107.820 %	109.523 %
Concentration RSD	0.6 %	0.1 %	0.2 %	0.8 %	0.1 %	0.2 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.5316 ppm	6.0246 ppm	0.5435 ppm	0.5487 ppm	0.5601 ppm	0.5358 ppm	0.5600 ppm
Concentration per Run	0.5331 ppm	6.0057 ppm	0.5426 ppm	0.5473 ppm	0.5568 ppm	0.5355 ppm	0.5591 ppm
Concentration per Run	0.5310 ppm	6.0361 ppm	0.5422 ppm	0.5483 ppm	0.5578 ppm	0.5351 ppm	0.5606 ppm
Concentration per Run	0.5307 ppm	6.0319 ppm	0.5456 ppm	0.5506 ppm	0.5655 ppm	0.5367 ppm	0.5605 ppm
Recovery Percentage	106.317 %	114.753 %	108.699 %	109.747 %	112.011 %	107.155 %	112.008 %
Concentration RSD	0.2 %	0.3 %	0.3 %	0.3 %	0.8 %	0.2 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5411 ppm	97.6607 %	97.9855 %	94.6513 %	95.4279 %	95.4448 %	92.3675 %
Concentration per Run	0.5414 ppm	97.7124 %	98.0071 %	94.7379 %	95.4523 %	94.0222 %	91.7313 %
Concentration per Run	0.5425 ppm	97.4385 %	98.4268 %	94.9402 %	95.1624 %	95.3163 %	92.8262 %
Concentration per Run	0.5393 ppm	97.8312 %	97.5225 %	94.2758 %	95.6692 %	96.9958 %	92.5450 %
Recovery Percentage	108.212 %						
Concentration RSD	0.3 %	0.2 %	0.5 %	0.4 %	0.3 %	1.6 %	0.6 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCB
 Analysis started at: 6/24/2025 6:06:21 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0007 ppm	-0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run	-0.0007 ppm	0.0011 ppm	-0.0001 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0046 ppm
Concentration per Run	-0.0001 ppm	-0.0012 ppm	-0.0006 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0061 ppm
Concentration per Run	-0.0013 ppm	-0.0004 ppm	0.0003 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0078 ppm
Recovery Percentage	-13.475 %	-0.159 %	-2.717 %	0.705 %	0.163 %	0.303 %	6.157 %
Concentration RSD	87.7 %	713.3 %	326.5 %	531.0 %	123.1 %	129.8 %	25.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0013 ppm	0.0192 ppm	-0.0003 ppm
Concentration per Run	0.0000 ppm	-0.0005 ppm	0.0000 ppm	0.0008 ppm	0.0007 ppm	0.0264 ppm	-0.0004 ppm
Concentration per Run	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0017 ppm	0.0144 ppm	-0.0004 ppm
Concentration per Run	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0015 ppm	0.0169 ppm	-0.0002 ppm
Recovery Percentage	1.406 %	-1.539 %	1.571 %	4.140 %	2.542 %	0.768 %	-3.283 %
Concentration RSD	84.0 %	197.1 %	96.5 %	75.8 %	40.7 %	33.1 %	43.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0015 ppm	0.0001 ppm	0.0020 ppm	0.0092 ppm	-0.0001 ppm	0.0005 ppm	0.0051 ppm
Concentration per Run	0.0016 ppm	0.0001 ppm	0.0026 ppm	0.0071 ppm	-0.0006 ppm	-0.0007 ppm	0.0031 ppm
Concentration per Run	0.0021 ppm	0.0000 ppm	0.0016 ppm	0.0110 ppm	0.0001 ppm	0.0007 ppm	0.0060 ppm
Concentration per Run	0.0008 ppm	0.0001 ppm	0.0018 ppm	0.0096 ppm	0.0002 ppm	0.0013 ppm	0.0063 ppm
Recovery Percentage	1.494 %	0.667 %	4.030 %	0.462 %	-0.396 %	4.722 %	10.246 %
Concentration RSD	45.6 %	71.3 %	27.4 %	21.2 %	401.7 %	216.9 %	34.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0027 ppm	0.0047 ppm	0.0011 ppm	0.0000 ppm	0.0008 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run	0.0025 ppm	0.0043 ppm	0.0010 ppm	0.0000 ppm	0.0009 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run	0.0031 ppm	0.0034 ppm	0.0011 ppm	0.0001 ppm	0.0009 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run	0.0025 ppm	0.0062 ppm	0.0013 ppm	0.0001 ppm	0.0005 ppm	-0.0003 ppm	0.0000 ppm
Recovery Percentage	27.149 %	0.935 %	2.280 %	0.445 %	7.703 %	-2.895 %	0.452 %
Concentration RSD	12.8 %	30.6 %	12.3 %	55.6 %	27.8 %	67.7 %	209.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	92.9170 %	93.9766 %	91.8632 %	93.1213 %	94.1625 %	91.0335 %
Concentration per Run	0.0004 ppm	92.5817 %	93.9189 %	91.1263 %	92.8536 %	93.3898 %	90.2037 %
Concentration per Run	0.0006 ppm	93.0546 %	94.1380 %	92.3492 %	93.1656 %	94.4820 %	91.8589 %
Concentration per Run	0.0003 ppm	93.1147 %	93.8729 %	92.1142 %	93.3448 %	94.6158 %	91.0377 %
Recovery Percentage	8.642 %						
Concentration RSD	44.3 %	0.3 %	0.2 %	0.7 %	0.3 %	0.7 %	0.9 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCV
Analysis started at: 6/24/2025 6:24:56 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5566 ppm	0.5366 ppm	0.5076 ppm	0.5298 ppm	0.5695 ppm	0.5660 ppm	0.5569 ppm
Concentration per Run	0.5583 ppm	0.5379 ppm	0.5040 ppm	0.5295 ppm	0.5708 ppm	0.5636 ppm	0.5546 ppm
Concentration per Run	0.5554 ppm	0.5378 ppm	0.5115 ppm	0.5301 ppm	0.5689 ppm	0.5662 ppm	0.5590 ppm
Concentration per Run	0.5562 ppm	0.5343 ppm	0.5072 ppm	0.5297 ppm	0.5688 ppm	0.5681 ppm	0.5572 ppm
Recovery Percentage	111.326 %	107.325 %	101.520 %	105.952 %	113.899 %	113.193 %	111.383 %
Concentration RSD	0.3 %	0.4 %	0.7 %	0.1 %	0.2 %	0.4 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5323 ppm	0.5526 ppm	0.5533 ppm	0.5706 ppm	0.5643 ppm	5.7491 ppm	0.5685 ppm
Concentration per Run	0.5316 ppm	0.5541 ppm	0.5546 ppm	0.5727 ppm	0.5638 ppm	5.7474 ppm	0.5701 ppm
Concentration per Run	0.5335 ppm	0.5511 ppm	0.5550 ppm	0.5671 ppm	0.5632 ppm	5.7413 ppm	0.5647 ppm
Concentration per Run	0.5319 ppm	0.5525 ppm	0.5502 ppm	0.5720 ppm	0.5660 ppm	5.7587 ppm	0.5707 ppm
Recovery Percentage	106.460 %	110.511 %	110.652 %	114.128 %	112.864 %	114.983 %	113.702 %
Concentration RSD	0.2 %	0.3 %	0.5 %	0.5 %	0.3 %	0.2 %	0.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5396 ppm	0.5638 ppm	0.5301 ppm	11.4636 ppm	0.5498 ppm	0.5575 ppm	0.5333 ppm
Concentration per Run	0.5402 ppm	0.5613 ppm	0.5282 ppm	11.4291 ppm	0.5504 ppm	0.5577 ppm	0.5377 ppm
Concentration per Run	0.5431 ppm	0.5647 ppm	0.5311 ppm	11.3882 ppm	0.5508 ppm	0.5581 ppm	0.5283 ppm
Concentration per Run	0.5355 ppm	0.5655 ppm	0.5308 ppm	11.5734 ppm	0.5481 ppm	0.5566 ppm	0.5339 ppm
Recovery Percentage	107.913 %	112.767 %	106.010 %	114.636 %	109.953 %	111.493 %	106.660 %
Concentration RSD	0.7 %	0.4 %	0.3 %	0.8 %	0.3 %	0.1 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.5211 ppm	5.9890 ppm	0.5420 ppm	0.5690 ppm	0.5638 ppm	0.5604 ppm	0.5696 ppm
Concentration per Run	0.5203 ppm	5.9974 ppm	0.5408 ppm	0.5697 ppm	0.5617 ppm	0.5610 ppm	0.5699 ppm
Concentration per Run	0.5212 ppm	5.9837 ppm	0.5437 ppm	0.5685 ppm	0.5662 ppm	0.5593 ppm	0.5695 ppm
Concentration per Run	0.5218 ppm	5.9860 ppm	0.5414 ppm	0.5689 ppm	0.5634 ppm	0.5607 ppm	0.5693 ppm
Recovery Percentage	104.223 %	114.076 %	108.391 %	113.806 %	112.755 %	112.070 %	113.914 %
Concentration RSD	0.1 %	0.1 %	0.3 %	0.1 %	0.4 %	0.2 %	0.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5326 ppm	101.8211 %	93.3634 %	96.3899 %	99.3944 %	90.6024 %	94.6642 %
Concentration per Run	0.5319 ppm	101.5764 %	94.1882 %	96.5245 %	99.1979 %	90.8635 %	95.8430 %
Concentration per Run	0.5354 ppm	101.2527 %	93.3176 %	96.4442 %	98.9107 %	90.1604 %	94.6029 %
Concentration per Run	0.5305 ppm	102.6343 %	92.5844 %	96.2010 %	100.0744 %	90.7833 %	93.5469 %
Recovery Percentage	106.523 %						
Concentration RSD	0.5 %	0.7 %	0.9 %	0.2 %	0.6 %	0.4 %	1.2 %

ICP DataTrace 8

6/25/2025 1:19:31 PM



LabBook: WG2082583_06242025T8.imexp

Sample: CCB
Analysis started at: 6/24/2025 6:28:15 PM
Rack: 0
Vial: 4
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	-0.0020 ppm	-0.0011 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0056 ppm
Concentration per Run	-0.0001 ppm	0.0009 ppm	-0.0012 ppm	0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run	-0.0004 ppm	-0.0035 ppm	-0.0014 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0044 ppm
Concentration per Run	-0.0004 ppm	-0.0032 ppm	-0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0059 ppm
Recovery Percentage	-5.802 %	-1.961 %	-21.350 %	2.302 %	0.507 %	0.538 %	5.567 %
Concentration RSD	64.4 %	126.1 %	39.6 %	139.0 %	23.3 %	107.7 %	18.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0004 ppm	0.0007 ppm	0.0002 ppm	0.0234 ppm	-0.0001 ppm
Concentration per Run	0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0268 ppm	-0.0001 ppm
Concentration per Run	0.0001 ppm	-0.0006 ppm	0.0005 ppm	0.0010 ppm	-0.0003 ppm	0.0189 ppm	0.0002 ppm
Concentration per Run	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0004 ppm	0.0007 ppm	0.0246 ppm	-0.0003 ppm
Recovery Percentage	1.218 %	-3.518 %	3.630 %	6.738 %	0.355 %	0.938 %	-0.529 %
Concentration RSD	140.0 %	74.1 %	35.4 %	47.2 %	265.5 %	17.4 %	450.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0005 ppm	0.0000 ppm	0.0017 ppm	0.0086 ppm	0.0003 ppm	-0.0005 ppm	0.0027 ppm
Concentration per Run	-0.0002 ppm	0.0000 ppm	0.0021 ppm	0.0077 ppm	0.0000 ppm	-0.0011 ppm	0.0040 ppm
Concentration per Run	-0.0006 ppm	0.0000 ppm	0.0015 ppm	0.0081 ppm	0.0006 ppm	-0.0004 ppm	0.0015 ppm
Concentration per Run	-0.0005 ppm	0.0001 ppm	0.0014 ppm	0.0099 ppm	0.0001 ppm	-0.0001 ppm	0.0027 ppm
Recovery Percentage	-0.453 %	0.146 %	3.336 %	0.428 %	1.012 %	-5.151 %	5.482 %
Concentration RSD	42.7 %	302.9 %	23.6 %	13.9 %	123.2 %	105.2 %	45.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0030 ppm	0.0027 ppm	0.0005 ppm	0.0000 ppm	0.0007 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run	0.0015 ppm	0.0034 ppm	0.0010 ppm	0.0001 ppm	0.0005 ppm	0.0011 ppm	0.0001 ppm
Concentration per Run	0.0046 ppm	0.0034 ppm	-0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run	0.0029 ppm	0.0013 ppm	0.0005 ppm	0.0000 ppm	0.0008 ppm	-0.0006 ppm	0.0001 ppm
Recovery Percentage	29.999 %	0.538 %	0.927 %	0.398 %	6.672 %	2.466 %	0.964 %
Concentration RSD	51.4 %	45.0 %	110.5 %	49.1 %	22.0 %	197.1 %	29.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	93.1984 %	93.7912 %	91.5768 %	93.1933 %	93.5288 %	91.9437 %
Concentration per Run	0.0005 ppm	92.5130 %	93.7235 %	92.5154 %	92.5568 %	94.4396 %	92.4007 %
Concentration per Run	0.0004 ppm	93.6607 %	94.0360 %	91.1001 %	93.8555 %	93.3894 %	92.1463 %
Concentration per Run	0.0004 ppm	93.4216 %	93.6140 %	91.1148 %	93.1678 %	92.7575 %	91.2842 %
Recovery Percentage	8.675 %						
Concentration RSD	13.6 %	0.6 %	0.2 %	0.9 %	0.7 %	0.9 %	0.6 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: Blank DMC Trace6
 Analysis started at: 6/26/2025 6:02:27 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	-1.9 %	-9.1 %	-0.1 %	0.1 %	0.0 %	0.1 %	0.0 %

	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)	Mg 279.079 {121} (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 %	0.6 %	-0.9 %	0.0 %	0.6 %	0.1 %	-0.2 %

	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)	Se 196.090 {472} (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 %	0.7 %	0.2 %	-0.1 %	-0.1 %	0.0 %	-3.8 %

	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)	Zn 206.200 {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	0.0 %	0.1 %	12.5 %	-0.3 %	-0.1 %	0.0 %	0.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	-4.9 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: ICAL
Analysis started at: 6/26/2025 6:09:09 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	1.0002 ppm	24.7501 ppm	0.9966 ppm	0.9987 ppm	0.9853 ppm	0.9878 ppm	9.9124 ppm
Concentration per Run 2	0.9959 ppm	25.1057 ppm	1.0033 ppm	1.0023 ppm	1.0078 ppm	1.0006 ppm	9.9476 ppm
Concentration per Run 3	1.0040 ppm	25.1442 ppm	1.0001 ppm	0.9990 ppm	1.0069 ppm	1.0116 ppm	10.1400 ppm
Concentration RSD	0.4 %	0.9 %	0.3 %	0.2 %	1.3 %	1.2 %	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)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9996 ppm	0.9997 ppm	1.0050 ppm	0.9946 ppm	24.7205 ppm	34.8391 ppm	10.0167 ppm
Concentration per Run 2	0.9963 ppm	0.9991 ppm	0.9985 ppm	0.9983 ppm	24.9726 ppm	35.1856 ppm	9.9737 ppm
Concentration per Run 3	1.0042 ppm	1.0013 ppm	0.9965 ppm	1.0071 ppm	25.3069 ppm	34.9753 ppm	10.0096 ppm
Concentration RSD	0.4 %	0.1 %	0.4 %	0.6 %	1.2 %	0.5 %	0.2 %

	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)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9903 ppm	0.9968 ppm	24.8607 ppm	0.9964 ppm	0.9977 ppm	0.9974 ppm	0.9971 ppm
Concentration per Run 2	0.9982 ppm	1.0012 ppm	25.1564 ppm	1.0001 ppm	1.0001 ppm	1.0027 ppm	1.0014 ppm
Concentration per Run 3	1.0115 ppm	1.0020 ppm	24.9829 ppm	1.0035 ppm	1.0021 ppm	0.9998 ppm	1.0015 ppm
Concentration RSD	1.1 %	0.3 %	0.6 %	0.4 %	0.2 %	0.3 %	0.3 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9833 ppm	0.9965 ppm	0.9854 ppm	1.0018 ppm	0.9958 ppm	1.0031 ppm	0.9984 ppm
Concentration per Run 2	10.0194 ppm	1.0005 ppm	1.0071 ppm	0.9996 ppm	1.0036 ppm	0.9987 ppm	0.9970 ppm
Concentration per Run 3	9.9973 ppm	1.0030 ppm	1.0076 ppm	0.9986 ppm	1.0006 ppm	0.9982 ppm	1.0045 ppm
Concentration RSD	0.2 %	0.3 %	1.3 %	0.2 %	0.4 %	0.3 %	0.4 %

	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)	Li 670.784 {50} (Radial)
Concentration average	97.2482 %	94.9433 %	95.8890 %	101.6361 %	84.4427 %	95.8967 %	1.0000 ppm
Concentration per Run 1	97.9641 %	94.9912 %	96.2941 %	102.8021 %	84.7495 %	96.1431 %	0.9934 ppm
Concentration per Run 2	97.1021 %	94.8904 %	95.4823 %	101.6991 %	84.2524 %	95.7085 %	1.0099 ppm
Concentration per Run 3	96.6785 %	94.9483 %	95.8905 %	100.4070 %	84.3261 %	95.8384 %	0.9968 ppm
Concentration RSD	0.7 %	0.1 %	0.4 %	1.2 %	0.3 %	0.2 %	0.9 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: ICV
Analysis started at: 6/26/2025 6:32:07 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	0.5162 ppm	0.5081 ppm	0.4902 ppm	0.5134 ppm	0.5073 ppm	0.5165 ppm	0.5229 ppm
Concentration per Run 1	0.5154 ppm	0.5031 ppm	0.4912 ppm	0.5143 ppm	0.4995 ppm	0.5090 ppm	0.5164 ppm
Concentration per Run 2	0.5145 ppm	0.5074 ppm	0.4887 ppm	0.5091 ppm	0.5092 ppm	0.5178 ppm	0.5217 ppm
Concentration per Run 3	0.5187 ppm	0.5138 ppm	0.4906 ppm	0.5169 ppm	0.5131 ppm	0.5228 ppm	0.5306 ppm
Recovery Percentage 1	103.243 %	101.617 %	98.031 %	102.686 %	101.451 %	103.308 %	104.587 %
Concentration RSD	0.4 %	1.1 %	0.3 %	0.8 %	1.4 %	1.4 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.5101 ppm	0.5238 ppm	0.5149 ppm	0.5076 ppm	0.5250 ppm	5.2297 ppm	0.5304 ppm
Concentration per Run 1	0.5066 ppm	0.5229 ppm	0.5145 ppm	0.5069 ppm	0.5181 ppm	5.1395 ppm	0.5279 ppm
Concentration per Run 2	0.5088 ppm	0.5210 ppm	0.5186 ppm	0.4998 ppm	0.5248 ppm	5.2901 ppm	0.5278 ppm
Concentration per Run 3	0.5148 ppm	0.5276 ppm	0.5116 ppm	0.5160 ppm	0.5322 ppm	5.2596 ppm	0.5354 ppm
Recovery Percentage 1	102.011 %	104.759 %	102.977 %	101.517 %	105.006 %	104.595 %	106.073 %
Concentration RSD	0.8 %	0.7 %	0.7 %	1.6 %	1.3 %	1.5 %	0.8 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5243 ppm	0.5062 ppm	9.9967 ppm	0.4899 ppm	0.4989 ppm	0.4858 ppm	0.5063 ppm
Concentration per Run 1	0.5173 ppm	0.5052 ppm	9.8289 ppm	0.4883 ppm	0.4986 ppm	0.4873 ppm	0.5108 ppm
Concentration per Run 2	0.5247 ppm	0.5039 ppm	10.1137 ppm	0.4908 ppm	0.5004 ppm	0.4843 ppm	0.5024 ppm
Concentration per Run 3	0.5311 ppm	0.5096 ppm	10.0476 ppm	0.4907 ppm	0.4976 ppm	0.4858 ppm	0.5056 ppm
Recovery Percentage 1	104.867 %	101.246 %	99.967 %	97.988 %	99.770 %	97.163 %	101.255 %
Concentration RSD	1.3 %	0.6 %	1.5 %	0.3 %	0.3 %	0.3 %	0.8 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	5.2825 ppm	0.4822 ppm	0.5096 ppm	0.5089 ppm	0.5092 ppm	0.5173 ppm	0.5162 ppm
Concentration per Run 1	5.2845 ppm	0.4807 ppm	0.5017 ppm	0.5085 ppm	0.5090 ppm	0.5172 ppm	0.5146 ppm
Concentration per Run 2	5.2846 ppm	0.4835 ppm	0.5116 ppm	0.5107 ppm	0.5098 ppm	0.5192 ppm	0.5168 ppm
Concentration per Run 3	5.2785 ppm	0.4824 ppm	0.5155 ppm	0.5073 ppm	0.5089 ppm	0.5155 ppm	0.5172 ppm
Recovery Percentage 1	100.619 %	96.438 %	101.917 %	101.770 %	101.849 %	103.463 %	103.246 %
Concentration RSD	0.1 %	0.3 %	1.4 %	0.3 %	0.1 %	0.4 %	0.3 %

	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)	Li 670.784 {50} (Radial)
Concentration average	98.9683 %	97.8276 %	98.6120 %	101.1057 %	93.2622 %	98.3922 %	0.5232 ppm
Concentration per Run 1	100.0874 %	97.7748 %	98.0087 %	102.3382 %	93.3230 %	98.1796 %	0.5147 ppm
Concentration per Run 2	99.0039 %	98.4359 %	99.0369 %	101.3446 %	93.1219 %	99.1099 %	0.5298 ppm
Concentration per Run 3	97.8136 %	97.2723 %	98.7903 %	99.6345 %	93.3418 %	97.8871 %	0.5251 ppm
Recovery Percentage 1							104.645 %
Concentration RSD	1.1 %	0.6 %	0.5 %	1.4 %	0.1 %	0.6 %	1.5 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: ICB
Analysis started at: 6/26/2025 6:38:26 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	0.0017 ppm	-0.0007 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	-0.0001 ppm	0.0012 ppm	0.0004 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0027 ppm
Concentration per Run 2	-0.0002 ppm	0.0019 ppm	-0.0015 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 3	-0.0002 ppm	0.0020 ppm	-0.0010 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Recovery Percentage 1	-2.438 %	1.695 %	-14.183 %	2.164 %	0.197 %	0.063 %	-0.373 %
Concentration RSD	55.3 %	28.0 %	136.7 %	11.1 %	144.9 %	446.0 %	744.1 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0039 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	-0.0055 ppm	0.0014 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0067 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0006 ppm	0.0104 ppm	-0.0008 ppm
Recovery Percentage 1	-0.778 %	0.131 %	0.194 %	2.577 %	0.087 %	0.156 %	0.040 %
Concentration RSD	63.2 %	78.3 %	574.8 %	50.9 %	1,277.7 %	213.1 %	2,869.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0008 ppm	-0.0028 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0008 ppm	-0.0026 ppm	0.0000 ppm	0.0007 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	-0.0018 ppm	-0.0003 ppm	-0.0001 ppm	0.0007 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	0.0007 ppm	-0.0039 ppm	0.0000 ppm	-0.0004 ppm	0.0004 ppm	0.0009 ppm
Recovery Percentage 1	0.697 %	1.522 %	-0.140 %	-0.399 %	0.584 %	0.669 %	4.347 %
Concentration RSD	63.3 %	6.5 %	37.9 %	134.1 %	912.3 %	112.4 %	124.6 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 1	-0.0002 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0003 ppm	-0.0002 ppm
Recovery Percentage 1	-0.027 %	0.202 %	-0.050 %	0.326 %	-1.459 %	1.899 %	-3.840 %
Concentration RSD	72.5 %	255.4 %	357.9 %	595.6 %	49.8 %	43.2 %	24.8 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.0188 %	99.9682 %	100.2589 %	100.3556 %	101.8228 %	99.9455 %	-0.0001 ppm
Concentration per Run 1	102.3464 %	99.7944 %	100.1392 %	101.8862 %	101.7063 %	99.8534 %	-0.0001 ppm
Concentration per Run 2	98.7024 %	100.1863 %	99.8968 %	99.4036 %	102.1140 %	100.1695 %	0.0000 ppm
Concentration per Run 3	99.0077 %	99.9240 %	100.7406 %	99.7769 %	101.6481 %	99.8135 %	-0.0002 ppm
Recovery Percentage 1							-0.937 %
Concentration RSD	2.0 %	0.2 %	0.4 %	1.3 %	0.2 %	0.2 %	125.9 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: ICV
Analysis started at: 6/26/2025 6:54:21 AM
Comments: <Comment>
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	0.5093 ppm	0.5006 ppm	0.4855 ppm	0.5030 ppm	0.5002 ppm	0.5059 ppm	0.5091 ppm
Concentration per Run 1	0.5092 ppm	0.4926 ppm	0.4849 ppm	0.4981 ppm	0.4929 ppm	0.5004 ppm	0.5048 ppm
Concentration per Run 2	0.5090 ppm	0.5029 ppm	0.4870 ppm	0.5063 ppm	0.5007 ppm	0.5088 ppm	0.5105 ppm
Concentration per Run 3	0.5096 ppm	0.5062 ppm	0.4846 ppm	0.5045 ppm	0.5070 ppm	0.5086 ppm	0.5120 ppm
Recovery Percentage 1	101.857 %	100.113 %	97.100 %	100.601 %	100.046 %	101.189 %	101.817 %
Concentration RSD	0.1 %	1.4 %	0.3 %	0.9 %	1.4 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.4979 ppm	0.5148 ppm	0.5095 ppm	0.5015 ppm	0.5136 ppm	5.2255 ppm	0.5255 ppm
Concentration per Run 1	0.4936 ppm	0.5105 ppm	0.5112 ppm	0.4982 ppm	0.5102 ppm	5.0860 ppm	0.5271 ppm
Concentration per Run 2	0.4953 ppm	0.5150 ppm	0.5081 ppm	0.5038 ppm	0.5164 ppm	5.1879 ppm	0.5262 ppm
Concentration per Run 3	0.5048 ppm	0.5189 ppm	0.5091 ppm	0.5024 ppm	0.5142 ppm	5.4026 ppm	0.5232 ppm
Recovery Percentage 1	99.580 %	102.960 %	101.896 %	100.299 %	102.720 %	104.510 %	105.100 %
Concentration RSD	1.2 %	0.8 %	0.3 %	0.6 %	0.6 %	3.1 %	0.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5140 ppm	0.4965 ppm	10.0314 ppm	0.4820 ppm	0.4912 ppm	0.4781 ppm	0.5010 ppm
Concentration per Run 1	0.5083 ppm	0.4921 ppm	9.7534 ppm	0.4823 ppm	0.4926 ppm	0.4789 ppm	0.5015 ppm
Concentration per Run 2	0.5181 ppm	0.4967 ppm	9.9770 ppm	0.4805 ppm	0.4902 ppm	0.4786 ppm	0.5055 ppm
Concentration per Run 3	0.5157 ppm	0.5006 ppm	10.3637 ppm	0.4832 ppm	0.4908 ppm	0.4769 ppm	0.4961 ppm
Recovery Percentage 1	102.810 %	99.294 %	100.314 %	96.404 %	98.241 %	95.622 %	100.204 %
Concentration RSD	1.0 %	0.9 %	3.1 %	0.3 %	0.2 %	0.2 %	0.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	5.2815 ppm	0.4679 ppm	0.5028 ppm	0.5022 ppm	0.5010 ppm	0.5098 ppm	0.5087 ppm
Concentration per Run 1	5.2832 ppm	0.4675 ppm	0.4955 ppm	0.5023 ppm	0.5004 ppm	0.5092 ppm	0.5092 ppm
Concentration per Run 2	5.2849 ppm	0.4665 ppm	0.5034 ppm	0.5017 ppm	0.5020 ppm	0.5098 ppm	0.5066 ppm
Concentration per Run 3	5.2764 ppm	0.4698 ppm	0.5096 ppm	0.5026 ppm	0.5007 ppm	0.5104 ppm	0.5102 ppm
Recovery Percentage 1	100.600 %	93.584 %	100.566 %	100.433 %	100.208 %	101.963 %	101.733 %
Concentration RSD	0.1 %	0.4 %	1.4 %	0.1 %	0.2 %	0.1 %	0.4 %

	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)	Li 670.784 {50} (Radial)
Concentration average	99.7708 %	98.6002 %	98.5915 %	102.0368 %	93.6380 %	99.0012 %	0.5226 ppm
Concentration per Run 1	101.0785 %	99.1274 %	98.3368 %	103.0610 %	93.3248 %	99.6393 %	0.5075 ppm
Concentration per Run 2	99.1167 %	98.0816 %	97.9492 %	101.6884 %	93.5489 %	98.5339 %	0.5186 ppm
Concentration per Run 3	99.1173 %	98.5915 %	99.4886 %	101.3609 %	94.0404 %	98.8305 %	0.5419 ppm
Recovery Percentage 1							104.527 %
Concentration RSD	1.1 %	0.5 %	0.8 %	0.9 %	0.4 %	0.6 %	3.4 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: ICB
Analysis started at: 6/26/2025 7:00:43 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	0.0029 ppm	-0.0002 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0020 ppm
Concentration per Run 1	-0.0002 ppm	0.0044 ppm	0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 2	-0.0002 ppm	0.0019 ppm	-0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 3	-0.0002 ppm	0.0024 ppm	-0.0006 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	-0.0051 ppm
Recovery Percentage 1	-2.442 %	2.923 %	-4.341 %	2.093 %	0.323 %	-0.043 %	-1.990 %
Concentration RSD	10.2 %	45.9 %	172.5 %	23.1 %	82.0 %	464.5 %	153.9 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0063 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm	-0.0003 ppm	0.0107 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0002 ppm	0.0003 ppm	-0.0016 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0011 ppm	0.0097 ppm	0.0006 ppm
Recovery Percentage 1	-0.267 %	0.184 %	2.307 %	1.250 %	0.731 %	0.251 %	0.037 %
Concentration RSD	148.9 %	145.3 %	147.4 %	33.3 %	199.8 %	109.1 %	1,772.7 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0008 ppm	-0.0029 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0009 ppm	-0.0028 ppm	-0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0011 ppm
Concentration per Run 2	0.0001 ppm	0.0007 ppm	-0.0040 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	0.0008 ppm	-0.0020 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0014 ppm
Recovery Percentage 1	-0.339 %	1.609 %	-0.147 %	0.496 %	1.363 %	0.696 %	8.293 %
Concentration RSD	358.1 %	10.9 %	33.8 %	196.8 %	319.1 %	88.4 %	88.2 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0013 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 3	-0.0004 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0002 ppm	-0.0001 ppm
Recovery Percentage 1	-0.003 %	-0.260 %	0.357 %	-0.643 %	-1.284 %	2.061 %	-2.788 %
Concentration RSD	2,258.0 %	182.8 %	99.3 %	171.2 %	365.9 %	116.9 %	58.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	99.7285 %	100.6173 %	99.6777 %	99.5812 %	101.5893 %	100.2891 %	-0.0002 ppm
Concentration per Run 1	100.2885 %	100.8081 %	99.2180 %	99.3747 %	101.0710 %	100.4102 %	-0.0001 ppm
Concentration per Run 2	99.6261 %	100.1923 %	100.5161 %	99.9084 %	102.4209 %	99.9256 %	-0.0003 ppm
Concentration per Run 3	99.2708 %	100.8515 %	99.2989 %	99.4606 %	101.2760 %	100.5314 %	-0.0001 ppm
Recovery Percentage 1							-1.610 %
Concentration RSD	0.5 %	0.4 %	0.7 %	0.3 %	0.7 %	0.3 %	54.8 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: LLOQ RL Check
 Analysis started at: 6/26/2025 7:10:52 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	0.0053 ppm	0.1021 ppm	0.0050 ppm	0.0308 ppm	0.0101 ppm	0.0051 ppm	0.1080 ppm
Concentration per Run 1	0.0052 ppm	0.1016 ppm	0.0054 ppm	0.0309 ppm	0.0101 ppm	0.0051 ppm	0.1058 ppm
Concentration per Run 2	0.0052 ppm	0.1027 ppm	0.0037 ppm	0.0306 ppm	0.0102 ppm	0.0051 ppm	0.1114 ppm
Concentration per Run 3	0.0053 ppm	0.1020 ppm	0.0057 ppm	0.0310 ppm	0.0102 ppm	0.0052 ppm	0.1069 ppm
Recovery Percentage 1	105.105 %	102.068 %	99.234 %	102.770 %	101.499 %	102.725 %	108.022 %
Concentration RSD	1.1 %	0.5 %	21.4 %	0.7 %	1.0 %	1.2 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0041 ppm	0.0103 ppm	0.0103 ppm	0.0102 ppm	0.0530 ppm	2.6046 ppm	0.1099 ppm
Concentration per Run 1	0.0041 ppm	0.0104 ppm	0.0103 ppm	0.0102 ppm	0.0530 ppm	2.5473 ppm	0.1102 ppm
Concentration per Run 2	0.0041 ppm	0.0103 ppm	0.0100 ppm	0.0103 ppm	0.0528 ppm	2.6547 ppm	0.1083 ppm
Concentration per Run 3	0.0041 ppm	0.0102 ppm	0.0105 ppm	0.0101 ppm	0.0533 ppm	2.6118 ppm	0.1111 ppm
Recovery Percentage 1	102.443 %	103.200 %	102.923 %	102.022 %	106.062 %	104.184 %	109.860 %
Concentration RSD	0.6 %	1.0 %	2.5 %	0.8 %	0.5 %	2.1 %	1.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0104 ppm	0.0500 ppm	1.9997 ppm	0.0182 ppm	0.0093 ppm	0.0469 ppm	0.0109 ppm
Concentration per Run 1	0.0102 ppm	0.0502 ppm	1.9545 ppm	0.0182 ppm	0.0091 ppm	0.0469 ppm	0.0105 ppm
Concentration per Run 2	0.0106 ppm	0.0499 ppm	2.0375 ppm	0.0179 ppm	0.0097 ppm	0.0460 ppm	0.0112 ppm
Concentration per Run 3	0.0105 ppm	0.0500 ppm	2.0070 ppm	0.0183 ppm	0.0091 ppm	0.0477 ppm	0.0110 ppm
Recovery Percentage 1	103.999 %	100.038 %	99.984 %	90.758 %	92.910 %	93.727 %	109.041 %
Concentration RSD	1.8 %	0.3 %	2.1 %	1.2 %	3.7 %	1.9 %	3.5 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.4924 ppm	0.0471 ppm	0.0102 ppm	0.0103 ppm	0.0184 ppm	0.0101 ppm	0.0052 ppm
Concentration per Run 1	0.4923 ppm	0.0468 ppm	0.0100 ppm	0.0104 ppm	0.0186 ppm	0.0100 ppm	0.0053 ppm
Concentration per Run 2	0.4929 ppm	0.0476 ppm	0.0103 ppm	0.0102 ppm	0.0180 ppm	0.0101 ppm	0.0051 ppm
Concentration per Run 3	0.4919 ppm	0.0469 ppm	0.0103 ppm	0.0103 ppm	0.0186 ppm	0.0103 ppm	0.0051 ppm
Recovery Percentage 1	98.473 %	94.219 %	101.812 %	102.890 %	91.901 %	101.183 %	103.480 %
Concentration RSD	0.1 %	0.9 %	1.6 %	0.7 %	1.7 %	1.4 %	2.0 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.0423 %	100.5095 %	99.8831 %	102.0547 %	98.2833 %	101.2026 %	0.0107 ppm
Concentration per Run 1	102.8372 %	100.4804 %	100.0083 %	103.3956 %	98.4949 %	101.1864 %	0.0105 ppm
Concentration per Run 2	100.5270 %	100.7749 %	99.5917 %	101.6723 %	98.0475 %	101.3763 %	0.0107 ppm
Concentration per Run 3	99.7628 %	100.2731 %	100.0494 %	101.0962 %	98.3076 %	101.0451 %	0.0107 ppm
Recovery Percentage 1							106.542 %
Concentration RSD	1.6 %	0.3 %	0.3 %	1.2 %	0.2 %	0.2 %	1.2 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: ICSA
Analysis started at: 6/26/2025 7:17:31 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	0.0005 ppm	513.0637 [SIC 500]	0.0013 ppm	0.0046 ppm	0.0021 ppm	0.0000 ppm	487.8863 ppm
Concentration per Run 1	0.0002 ppm	514.4410 ppm	0.0009 ppm	0.0046 ppm	0.0020 ppm	0.0000 ppm	485.0129 ppm
Concentration per Run 2	0.0006 ppm	513.3886 ppm	0.0001 ppm	0.0047 ppm	0.0021 ppm	0.0000 ppm	488.4831 ppm
Concentration per Run 3	0.0007 ppm	511.3616 ppm	0.0031 ppm	0.0045 ppm	0.0021 ppm	0.0000 ppm	490.1630 ppm
Recovery Percentage 1	7.299 %	513,063.705 %	26.966 %	15.362 %	20.690 %	-0.666 %	487,886.349 %
Concentration RSD	45.6 %	0.3 %	117.0 %	1.7 %	1.3 %	46.6 %	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)	Mg 279.079 {121} (Axial)
Concentration average	-0.0026 ppm	0.0003 ppm	-0.0020 ppm	-0.0054 ppm	180.8749 ppm	0.0010 ppm	408.1841 ppm
Concentration per Run 1	-0.0024 ppm	0.0004 ppm	-0.0021 ppm	-0.0054 ppm	180.0502 ppm	-0.0010 ppm	407.4238 ppm
Concentration per Run 2	-0.0028 ppm	0.0002 ppm	-0.0019 ppm	-0.0056 ppm	182.0594 ppm	0.0060 ppm	411.8318 ppm
Concentration per Run 3	-0.0025 ppm	0.0003 ppm	-0.0021 ppm	-0.0053 ppm	180.5152 ppm	-0.0022 ppm	405.2968 ppm
Recovery Percentage 1	-64.488 %	1.548 %	-20.418 %	-54.380 %	361,749.855 %	0.038 %	408,184.109 %
Concentration RSD	7.7 %	39.1 %	6.2 %	2.2 %	0.6 %	463.8 %	0.8 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0020 ppm	-0.0016 ppm	0.0151 ppm	-0.0102 ppm	-0.0129 ppm	-0.0310 ppm	0.0014 ppm
Concentration per Run 1	0.0020 ppm	-0.0018 ppm	0.0163 ppm	-0.0099 ppm	-0.0114 ppm	-0.0333 ppm	0.0073 ppm
Concentration per Run 2	0.0019 ppm	-0.0016 ppm	0.0168 ppm	-0.0105 ppm	-0.0146 ppm	-0.0280 ppm	0.0012 ppm
Concentration per Run 3	0.0020 ppm	-0.0015 ppm	0.0122 ppm	-0.0103 ppm	-0.0126 ppm	-0.0317 ppm	-0.0043 ppm
Recovery Percentage 1	19.994 %	-3.258 %	0.754 %	-40.784 %	-128.832 %	-61.995 %	13.801 %
Concentration RSD	3.9 %	11.9 %	16.6 %	2.9 %	12.6 %	8.8 %	418.7 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	-0.0217 ppm	0.0027 ppm	0.0062 ppm	0.0001 ppm	-0.0184 ppm	-0.0025 ppm	-0.0014 ppm
Concentration per Run 1	-0.0215 ppm	0.0035 ppm	0.0062 ppm	-0.0002 ppm	-0.0164 ppm	-0.0022 ppm	-0.0016 ppm
Concentration per Run 2	-0.0221 ppm	0.0011 ppm	0.0062 ppm	0.0004 ppm	-0.0199 ppm	-0.0023 ppm	-0.0014 ppm
Concentration per Run 3	-0.0215 ppm	0.0034 ppm	0.0062 ppm	0.0000 ppm	-0.0191 ppm	-0.0028 ppm	-0.0011 ppm
Recovery Percentage 1	-4.343 %	5.321 %	62.068 %	0.879 %	-92.181 %	-24.531 %	-27.621 %
Concentration RSD	1.4 %	50.9 %	0.3 %	328.5 %	10.0 %	12.0 %	18.8 %

	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)	Li 670.784 {50} (Radial)
Concentration average	89.7068 %	80.9202 %	81.4858 %	91.0870 %	55.3542 %	80.5081 %	-0.0030 ppm
Concentration per Run 1	89.6015 %	80.8441 %	81.5582 %	91.6303 %	55.4767 %	80.3842 %	-0.0032 ppm
Concentration per Run 2	89.3247 %	80.9473 %	81.0797 %	90.5995 %	55.0693 %	80.5274 %	-0.0028 ppm
Concentration per Run 3	90.1942 %	80.9693 %	81.8196 %	91.0312 %	55.5167 %	80.6128 %	-0.0029 ppm
Recovery Percentage 1							-29.972 %
Concentration RSD	0.5 %	0.1 %	0.5 %	0.6 %	0.4 %	0.1 %	6.8 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: SIC Cr Mn V Ti
 Analysis started at: 6/26/2025 7:25:35 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	0.0025 ppm	0.0061 ppm	-0.0003 ppm	0.0022 ppm	0.0001 ppm	0.0030 ppm	0.0008 ppm
Concentration per Run 1	0.0022 ppm	0.0089 ppm	0.0002 ppm	0.0024 ppm	0.0001 ppm	0.0034 ppm	0.0005 ppm
Concentration per Run 2	0.0025 ppm	0.0050 ppm	-0.0009 ppm	0.0021 ppm	0.0001 ppm	0.0024 ppm	0.0022 ppm
Concentration per Run 3	0.0029 ppm	0.0042 ppm	-0.0003 ppm	0.0022 ppm	0.0001 ppm	0.0030 ppm	-0.0003 ppm
Recovery Percentage 1	36.260 %	6.061 %	-6.634 %	7.436 %	1.218 %	59.141 %	0.798 %
Concentration RSD	13.6 %	41.3 %	167.1 %	6.1 %	17.6 %	16.7 %	158.3 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	-0.0020 ppm	-0.0076 ppm	19.8837 ppm	-0.0024 ppm	0.0107 ppm	-0.0035 ppm	-0.0680 ppm
Concentration per Run 1	-0.0020 ppm	-0.0086 ppm	19.9655 ppm	-0.0021 ppm	0.0120 ppm	-0.0042 ppm	-0.0670 ppm
Concentration per Run 2	-0.0020 ppm	-0.0066 ppm	19.8499 ppm	-0.0027 ppm	0.0104 ppm	-0.0002 ppm	-0.0688 ppm
Concentration per Run 3	-0.0019 ppm	-0.0077 ppm	19.8358 ppm	-0.0024 ppm	0.0097 ppm	-0.0060 ppm	-0.0682 ppm
Recovery Percentage 1	-49.354 %	-38.133 %	198,837.473 %	-24.158 %	21.450 %	-0.139 %	-68.016 %
Concentration RSD	2.3 %	13.5 %	0.4 %	11.6 %	11.0 %	85.4 %	1.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	20.3212 [SIC 20]	-0.0023 ppm	0.0066 ppm	-0.0001 ppm	-0.0077 ppm	0.0119 ppm	-0.0071 ppm
Concentration per Run 1	19.9929 ppm	-0.0022 ppm	0.0050 ppm	-0.0003 ppm	-0.0078 ppm	0.0123 ppm	-0.0081 ppm
Concentration per Run 2	20.4562 ppm	-0.0024 ppm	0.0076 ppm	-0.0002 ppm	-0.0075 ppm	0.0125 ppm	-0.0070 ppm
Concentration per Run 3	20.5145 ppm	-0.0023 ppm	0.0071 ppm	0.0001 ppm	-0.0080 ppm	0.0109 ppm	-0.0061 ppm
Recovery Percentage 1	203,211.903 %	-4.586 %	0.328 %	-0.543 %	-77.483 %	23.836 %	-70.651 %
Concentration RSD	1.4 %	3.5 %	21.6 %	178.0 %	3.3 %	7.3 %	14.3 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.1067 ppm	-0.0016 ppm	0.0000 ppm	19.8266 ppm	-0.0113 ppm	9.9794 ppm	0.0012 ppm
Concentration per Run 1	0.1056 ppm	-0.0010 ppm	0.0000 ppm	20.1709 ppm	-0.0094 ppm	10.1059 ppm	0.0011 ppm
Concentration per Run 2	0.1085 ppm	-0.0023 ppm	0.0000 ppm	19.5179 ppm	-0.0118 ppm	10.1121 ppm	0.0011 ppm
Concentration per Run 3	0.1060 ppm	-0.0014 ppm	0.0001 ppm	19.7910 ppm	-0.0128 ppm	9.7202 ppm	0.0013 ppm
Recovery Percentage 1	21.342 %	-3.159 %	0.429 %	198,266.237 %	-56.666 %	99,793.665 %	23.688 %
Concentration RSD	1.5 %	39.4 %	87.1 %	1.7 %	15.1 %	2.2 %	11.7 %

	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)	Li 670.784 {50} (Radial)
Concentration average	99.4539 %	97.8953 %	97.5036 %	101.3124 %	92.1726 %	97.8271 %	-0.0019 ppm
Concentration per Run 1	101.2625 %	97.6582 %	98.0456 %	102.5846 %	92.7392 %	97.6679 %	-0.0019 ppm
Concentration per Run 2	98.8354 %	97.7418 %	98.0638 %	100.9428 %	93.0544 %	97.7108 %	-0.0016 ppm
Concentration per Run 3	98.2639 %	98.2859 %	96.4015 %	100.4097 %	90.7242 %	98.1027 %	-0.0021 ppm
Recovery Percentage 1							-18.811 %
Concentration RSD	1.6 %	0.3 %	1.0 %	1.1 %	1.4 %	0.2 %	13.3 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: LDR Check
 Analysis started at: 6/26/2025 7:33:10 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	0.0013 ppm	0.1015 ppm	5.5524 ppm	5.2267 [SIC 20]	10.0049 [SIC 20]	0.0006 ppm	0.0244 ppm
Concentration per Run 1	0.0016 ppm	0.1015 ppm	5.5362 ppm	5.2278 ppm	9.8948 ppm	0.0006 ppm	0.0268 ppm
Concentration per Run 2	0.0012 ppm	0.1005 ppm	5.5674 ppm	5.2106 ppm	10.1474 ppm	0.0007 ppm	0.0216 ppm
Concentration per Run 3	0.0011 ppm	0.1024 ppm	5.5537 ppm	5.2416 ppm	9.9724 ppm	0.0006 ppm	0.0249 ppm
Recovery Percentage 1	0.000 %	0.000 %	111.048 %	104.534 %	100.049 %	0.000 %	0.000 %
Concentration RSD	17.8 %	1.0 %	0.3 %	0.3 %	1.3 %	1.9 %	10.7 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0010 ppm	-0.0004 ppm	20.2480 [SIC 20]	0.0046 ppm	295.1749 ppm	-0.0408 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	-0.0006 ppm	20.6090 ppm	0.0050 ppm	285.5274 ppm	-0.0410 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	-0.0004 ppm	20.1167 ppm	0.0045 ppm	310.1649 ppm	-0.0413 ppm
Concentration per Run 3	0.0001 ppm	0.0014 ppm	-0.0001 ppm	20.0182 ppm	0.0044 ppm	289.8324 ppm	-0.0403 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	101.240 %	0.000 %	98.392 %	0.000 %
Concentration RSD	74.6 %	31.7 %	78.8 %	1.6 %	6.6 %	4.5 %	1.2 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	5.0812 [SIC 20]	434.7946 ppm	10.9504 [SIC 20]	52.0467 ppm	-0.0010 ppm	-0.0023 ppm
Concentration per Run 1	0.0006 ppm	5.0897 ppm	465.8558 ppm	10.9661 ppm	52.0860 ppm	-0.0009 ppm	-0.0015 ppm
Concentration per Run 2	0.0006 ppm	5.0526 ppm	420.5405 ppm	10.9152 ppm	51.9246 ppm	-0.0009 ppm	-0.0018 ppm
Concentration per Run 3	0.0003 ppm	5.1014 ppm	417.9874 ppm	10.9699 ppm	52.1295 ppm	-0.0012 ppm	-0.0036 ppm
Recovery Percentage 1	0.000 %	101.625 %	86.959 %	109.504 %	104.093 %	0.000 %	0.000 %
Concentration RSD	32.8 %	0.5 %	6.2 %	0.3 %	0.2 %	19.3 %	49.2 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	24.9642 [SIC 200]	0.0030 ppm	0.0010 ppm	0.0011 ppm	-0.0064 ppm	0.0011 ppm	20.9067 [SIC 20]
Concentration per Run 1	24.9455 ppm	0.0027 ppm	0.0010 ppm	0.0012 ppm	-0.0044 ppm	0.0012 ppm	20.9485 ppm
Concentration per Run 2	24.9620 ppm	0.0030 ppm	0.0009 ppm	0.0011 ppm	-0.0069 ppm	0.0010 ppm	20.7941 ppm
Concentration per Run 3	24.9850 ppm	0.0033 ppm	0.0010 ppm	0.0012 ppm	-0.0078 ppm	0.0012 ppm	20.9775 ppm
Recovery Percentage 1	124.821 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	104.533 %
Concentration RSD	0.1 %	10.8 %	5.4 %	5.3 %	27.5 %	10.7 %	0.5 %

	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)	Li 670.784 {50} (Radial)
Concentration average	92.7105 %	82.8598 %	83.2996 %	93.7819 %	64.9745 %	81.8052 %	4.8933 ppm
Concentration per Run 1	93.1688 %	82.7649 %	83.4806 %	93.7684 %	64.9408 %	81.6419 %	4.7966 ppm
Concentration per Run 2	92.5336 %	83.0471 %	83.1425 %	93.7798 %	64.9698 %	82.0490 %	5.0877 ppm
Concentration per Run 3	92.4291 %	82.7673 %	83.2757 %	93.7975 %	65.0127 %	81.7249 %	4.7955 ppm
Recovery Percentage 1							97.866 %
Concentration RSD	0.4 %	0.2 %	0.2 %	0.0 %	0.1 %	0.3 %	3.4 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: LDR 5PPM AS PASS
 Analysis started at: 6/26/2025 7:45:21 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	0.0004 ppm	0.0023 ppm	4.9480 ppm	0.0033 ppm	0.0001 ppm	0.0000 ppm	0.0046 ppm
Concentration per Run 1	0.0003 ppm	0.0054 ppm	4.9371 ppm	0.0036 ppm	0.0000 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 2	0.0003 ppm	0.0018 ppm	4.9508 ppm	0.0032 ppm	0.0000 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 3	0.0005 ppm	-0.0004 ppm	4.9560 ppm	0.0030 ppm	0.0001 ppm	0.0000 ppm	0.0056 ppm
Concentration RSD	29.0 %	129.4 %	0.2 %	10.1 %	58.0 %	3,008.8 %	30.0 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0022 ppm	0.0198 ppm	0.0041 ppm
Concentration per Run 1	-0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0024 ppm	0.0217 ppm	0.0042 ppm
Concentration per Run 2	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0023 ppm	0.0239 ppm	0.0036 ppm
Concentration per Run 3	-0.0011 ppm	-0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0020 ppm	0.0137 ppm	0.0045 ppm
Concentration RSD	1.3 %	581.8 %	187.6 %	25.4 %	10.5 %	27.1 %	10.7 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0019 ppm	0.0209 ppm	0.0002 ppm	0.0004 ppm	0.0047 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0019 ppm	0.0218 ppm	0.0002 ppm	0.0007 ppm	0.0042 ppm	0.0018 ppm
Concentration per Run 2	0.0003 ppm	0.0019 ppm	0.0214 ppm	0.0003 ppm	-0.0001 ppm	0.0050 ppm	0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0017 ppm	0.0196 ppm	0.0003 ppm	0.0005 ppm	0.0049 ppm	-0.0003 ppm
Concentration RSD	168.8 %	6.4 %	5.4 %	24.8 %	105.2 %	9.6 %	109.5 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0007 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 1	0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	0.0017 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 3	0.0016 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm
Concentration RSD	4.3 %	1,703.3 %	364.1 %	85.5 %	109.1 %	60.2 %	19.9 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.9252 %	102.2486 %	101.1901 %	100.5637 %	104.1417 %	101.3510 %	0.0001 ppm
Concentration per Run 1	103.1488 %	102.5059 %	101.7401 %	100.5056 %	104.0187 %	101.3881 %	0.0003 ppm
Concentration per Run 2	101.2797 %	102.1155 %	100.7254 %	100.5839 %	104.3495 %	101.2887 %	-0.0001 ppm
Concentration per Run 3	101.3472 %	102.1243 %	101.1048 %	100.6016 %	104.0571 %	101.3763 %	0.0001 ppm
Concentration RSD	1.0 %	0.2 %	0.5 %	0.1 %	0.2 %	0.1 %	206.4 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: LDR 20PPM ZN PASS
 Analysis started at: 6/26/2025 7:51:58 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	0.0030 ppm	0.0009 ppm	0.0027 ppm	0.0002 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0033 ppm	0.0008 ppm	0.0025 ppm	0.0002 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 2	-0.0001 ppm	0.0023 ppm	0.0016 ppm	0.0028 ppm	0.0002 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	-0.0001 ppm	0.0033 ppm	0.0004 ppm	0.0026 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm
Concentration RSD	25.6 %	19.5 %	62.7 %	5.6 %	3.0 %	131.4 %	40.1 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0021 ppm	0.0087 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0019 ppm	0.0068 ppm	0.0010 ppm
Concentration per Run 2	0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0025 ppm	0.0141 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0018 ppm	0.0052 ppm	0.0021 ppm
Concentration RSD	14.7 %	102.9 %	145.7 %	12.7 %	20.1 %	54.2 %	98.8 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0010 ppm	0.0062 ppm	0.0002 ppm	0.0004 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	0.0059 ppm	0.0000 ppm	0.0005 ppm	-0.0017 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	0.0060 ppm	0.0003 ppm	0.0003 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0009 ppm	0.0069 ppm	0.0001 ppm	0.0005 ppm	-0.0002 ppm	0.0008 ppm
Concentration RSD	226.0 %	19.7 %	8.7 %	77.3 %	23.7 %	76.9 %	571.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0005 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	-0.0001 ppm	19.3434 ppm
Concentration per Run 1	0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	19.3638 ppm
Concentration per Run 2	0.0006 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	-0.0008 ppm	0.0000 ppm	19.3465 ppm
Concentration per Run 3	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0016 ppm	-0.0002 ppm	19.3199 ppm
Concentration RSD	36.9 %	110.7 %	245.4 %	168.9 %	76.1 %	166.3 %	0.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.6705 %	101.3597 %	100.1891 %	98.3336 %	101.3744 %	98.9014 %	-0.0001 ppm
Concentration per Run 1	100.5174 %	101.8593 %	100.5925 %	97.3891 %	101.5178 %	99.3703 %	-0.0003 ppm
Concentration per Run 2	100.3994 %	101.1569 %	99.8157 %	98.3434 %	101.4547 %	98.5803 %	-0.0001 ppm
Concentration per Run 3	101.0947 %	101.0631 %	100.1591 %	99.2682 %	101.1506 %	98.7535 %	0.0002 ppm
Concentration RSD	0.4 %	0.4 %	0.4 %	1.0 %	0.2 %	0.4 %	476.8 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: LDR 500PPM NA PASS

Analysis started at: 6/26/2025 7:58:36 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	-0.0001 ppm	0.0041 ppm	0.0003 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 1	-0.0004 ppm	0.0039 ppm	-0.0004 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 2	0.0002 ppm	0.0050 ppm	0.0009 ppm	0.0024 ppm	0.0000 ppm	0.0000 ppm	0.0049 ppm
Concentration per Run 3	-0.0001 ppm	0.0034 ppm	0.0003 ppm	0.0020 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration RSD	260.9 %	20.7 %	237.3 %	8.8 %	44.1 %	38.0 %	49.4 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0020 ppm	0.0008 ppm	0.0827 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0019 ppm	0.0014 ppm	0.0723 ppm	-0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm	-0.0003 ppm	0.0788 ppm	0.0010 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0022 ppm	0.0012 ppm	0.0969 ppm	-0.0006 ppm
Concentration RSD	184.4 %	359.2 %	352.0 %	11.6 %	114.7 %	15.4 %	390.8 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0006 ppm	456.2208 ppm	-0.0002 ppm	-0.0006 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0007 ppm	496.4871 ppm	-0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	432.7299 ppm	-0.0003 ppm	-0.0002 ppm	0.0005 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	439.4456 ppm	-0.0004 ppm	-0.0011 ppm	0.0000 ppm	0.0017 ppm
Concentration RSD	163.3 %	20.4 %	7.7 %	70.1 %	67.8 %	107.0 %	181.0 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0033 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0023 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0037 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	0.0032 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0034 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0032 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0022 ppm	-0.0004 ppm	0.0003 ppm
Concentration RSD	8.6 %	558.6 %	82.8 %	132.6 %	50.2 %	19.8 %	70.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	94.5436 %	85.3610 %	87.6534 %	93.4927 %	68.0614 %	84.0585 %	0.0003 ppm
Concentration per Run 1	95.1734 %	85.4959 %	87.1936 %	93.0781 %	67.8536 %	84.1688 %	0.0006 ppm
Concentration per Run 2	94.5900 %	85.5767 %	88.2732 %	93.7943 %	68.1975 %	84.2577 %	0.0004 ppm
Concentration per Run 3	93.8674 %	85.0103 %	87.4932 %	93.6057 %	68.1331 %	83.7489 %	0.0001 ppm
Concentration RSD	0.7 %	0.4 %	0.6 %	0.4 %	0.3 %	0.3 %	79.7 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: LDR 500PPM MG PASS
 Analysis started at: 6/26/2025 8:06:26 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	0.0029 ppm	0.0003 ppm	0.0020 ppm	0.0017 ppm	0.0000 ppm	-0.0317 ppm
Concentration per Run 1	0.0002 ppm	0.0047 ppm	-0.0008 ppm	0.0020 ppm	0.0016 ppm	0.0000 ppm	-0.0291 ppm
Concentration per Run 2	0.0004 ppm	0.0021 ppm	0.0002 ppm	0.0020 ppm	0.0016 ppm	0.0000 ppm	-0.0349 ppm
Concentration per Run 3	0.0000 ppm	0.0020 ppm	0.0015 ppm	0.0018 ppm	0.0017 ppm	0.0000 ppm	-0.0310 ppm
Recovery Percentage 1	2.787 %	2.921 %	5.716 %	6.532 %	16.548 %	0.486 %	-31.677 %
Concentration RSD	92.4 %	52.8 %	406.3 %	5.2 %	2.0 %	47.1 %	9.3 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	-0.0001 ppm	-0.0038 ppm	-0.0357 ppm	0.0292 ppm	484.2333 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0002 ppm	-0.0037 ppm	-0.0366 ppm	0.0296 ppm	493.7472 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0038 ppm	-0.0353 ppm	0.0310 ppm	483.2745 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0003 ppm	-0.0038 ppm	-0.0351 ppm	0.0270 ppm	475.6781 ppm
Recovery Percentage 1	1.740 %	0.977 %	-1.168 %	-37.721 %	-71.355 %	1.167 %	484.233.260 %
Concentration RSD	67.6 %	48.3 %	187.9 %	1.6 %	2.3 %	7.0 %	1.9 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0002 ppm	0.0638 ppm	-0.0006 ppm	-0.0011 ppm	0.0006 ppm	-0.0016 ppm
Concentration per Run 1	0.0006 ppm	0.0003 ppm	0.0659 ppm	-0.0004 ppm	-0.0014 ppm	0.0008 ppm	-0.0011 ppm
Concentration per Run 2	0.0006 ppm	0.0000 ppm	0.0641 ppm	-0.0007 ppm	-0.0007 ppm	0.0009 ppm	-0.0013 ppm
Concentration per Run 3	0.0004 ppm	0.0003 ppm	0.0616 ppm	-0.0008 ppm	-0.0013 ppm	0.0001 ppm	-0.0024 ppm
Recovery Percentage 1	5.271 %	0.416 %	3.192 %	-2.480 %	-11.095 %	1.142 %	-15.780 %
Concentration RSD	28.8 %	89.0 %	3.4 %	36.2 %	35.4 %	78.3 %	42.8 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0047 ppm	0.0003 ppm	-0.0042 ppm	0.0004 ppm	-0.0027 ppm	-0.0010 ppm	-0.0002 ppm
Concentration per Run 1	0.0054 ppm	0.0000 ppm	-0.0043 ppm	0.0006 ppm	-0.0038 ppm	-0.0011 ppm	-0.0001 ppm
Concentration per Run 2	0.0040 ppm	0.0008 ppm	-0.0042 ppm	0.0006 ppm	-0.0021 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0048 ppm	0.0002 ppm	-0.0041 ppm	0.0000 ppm	-0.0023 ppm	-0.0011 ppm	-0.0003 ppm
Recovery Percentage 1	0.946 %	0.633 %	-42.220 %	3.916 %	-13.667 %	-10.009 %	-3.953 %
Concentration RSD	15.6 %	133.7 %	2.6 %	75.9 %	35.1 %	17.2 %	42.4 %

	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)	Li 670.784 {50} (Radial)
Concentration average	94.8429 %	87.7088 %	86.7276 %	91.9804 %	68.9052 %	85.4507 %	0.0003 ppm
Concentration per Run 1	94.8948 %	87.7288 %	86.1931 %	90.7669 %	68.6092 %	85.2445 %	0.0003 ppm
Concentration per Run 2	94.4184 %	87.6808 %	87.0259 %	92.0214 %	69.0743 %	85.3188 %	0.0004 ppm
Concentration per Run 3	95.2153 %	87.7167 %	86.9638 %	93.1528 %	69.0322 %	85.7888 %	0.0001 ppm
Recovery Percentage 1							2.651 %
Concentration RSD	0.4 %	0.0 %	0.5 %	1.3 %	0.4 %	0.3 %	42.5 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
 Analysis started at: 6/26/2025 8:15:40 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	0.5158 ppm	0.5105 ppm	0.4759 ppm	0.5139 ppm	0.5051 ppm	0.5117 ppm	0.5245 ppm
Concentration per Run 1	0.5155 ppm	0.5129 ppm	0.4780 ppm	0.5129 ppm	0.5073 ppm	0.5139 ppm	0.5265 ppm
Concentration per Run 2	0.5167 ppm	0.5104 ppm	0.4782 ppm	0.5129 ppm	0.5052 ppm	0.5088 ppm	0.5189 ppm
Concentration per Run 3	0.5151 ppm	0.5082 ppm	0.4714 ppm	0.5160 ppm	0.5026 ppm	0.5124 ppm	0.5281 ppm
Recovery Percentage 1	103.156 %	102.097 %	95.179 %	102.784 %	101.013 %	102.341 %	104.893 %
Concentration RSD	0.2 %	0.5 %	0.8 %	0.3 %	0.5 %	0.5 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.4904 ppm	0.5193 ppm	0.5173 ppm	0.5057 ppm	0.5174 ppm	5.4286 ppm	0.5249 ppm
Concentration per Run 1	0.4918 ppm	0.5193 ppm	0.5174 ppm	0.5033 ppm	0.5213 ppm	5.4536 ppm	0.5216 ppm
Concentration per Run 2	0.4838 ppm	0.5157 ppm	0.5162 ppm	0.5069 ppm	0.5122 ppm	5.4912 ppm	0.5259 ppm
Concentration per Run 3	0.4957 ppm	0.5228 ppm	0.5185 ppm	0.5070 ppm	0.5188 ppm	5.3408 ppm	0.5274 ppm
Recovery Percentage 1	98.088 %	103.852 %	103.468 %	101.146 %	103.486 %	108.571 %	104.988 %
Concentration RSD	1.2 %	0.7 %	0.2 %	0.4 %	0.9 %	1.4 %	0.6 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5226 ppm	0.4972 ppm	10.3065 ppm	0.4731 ppm	0.4870 ppm	0.4797 ppm	0.5089 ppm
Concentration per Run 1	0.5250 ppm	0.4962 ppm	10.3682 ppm	0.4734 ppm	0.4861 ppm	0.4780 ppm	0.5054 ppm
Concentration per Run 2	0.5181 ppm	0.4939 ppm	10.4304 ppm	0.4714 ppm	0.4881 ppm	0.4825 ppm	0.5121 ppm
Concentration per Run 3	0.5246 ppm	0.5014 ppm	10.1210 ppm	0.4744 ppm	0.4868 ppm	0.4787 ppm	0.5093 ppm
Recovery Percentage 1	104.513 %	99.431 %	103.065 %	94.612 %	97.402 %	95.949 %	101.784 %
Concentration RSD	0.7 %	0.8 %	1.6 %	0.3 %	0.2 %	0.5 %	0.7 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	5.2065 ppm	0.4659 ppm	0.5234 ppm	0.5085 ppm	0.4926 ppm	0.5069 ppm	0.5097 ppm
Concentration per Run 1	5.1957 ppm	0.4652 ppm	0.5255 ppm	0.5087 ppm	0.4924 ppm	0.5081 ppm	0.5112 ppm
Concentration per Run 2	5.2178 ppm	0.4662 ppm	0.5231 ppm	0.5081 ppm	0.4958 ppm	0.5056 ppm	0.5075 ppm
Concentration per Run 3	5.2060 ppm	0.4663 ppm	0.5216 ppm	0.5089 ppm	0.4895 ppm	0.5071 ppm	0.5104 ppm
Recovery Percentage 1	99.171 %	93.181 %	104.679 %	101.709 %	98.517 %	101.386 %	101.946 %
Concentration RSD	0.2 %	0.1 %	0.4 %	0.1 %	0.6 %	0.2 %	0.4 %

	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)	Li 670.784 {50} (Radial)
Concentration average	99.6077 %	98.7265 %	98.1251 %	100.0857 %	94.0836 %	98.4000 %	0.5368 ppm
Concentration per Run 1	99.7517 %	99.0142 %	98.6526 %	99.6983 %	94.3786 %	98.7795 %	0.5401 ppm
Concentration per Run 2	99.8916 %	98.7807 %	97.2430 %	100.6377 %	93.5245 %	98.3794 %	0.5459 ppm
Concentration per Run 3	99.1797 %	98.3845 %	98.4796 %	99.9211 %	94.3478 %	98.0410 %	0.5245 ppm
Recovery Percentage 1							107.361 %
Concentration RSD	0.4 %	0.3 %	0.8 %	0.5 %	0.5 %	0.4 %	2.1 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 8:22:00 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	0.0023 ppm	-0.0011 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	-0.0032 ppm
Concentration per Run 1	-0.0003 ppm	0.0000 ppm	-0.0015 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 2	-0.0002 ppm	0.0041 ppm	-0.0004 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	-0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0027 ppm	-0.0014 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	-0.0056 ppm
Recovery Percentage 1	-2.250 %	2.289 %	-21.846 %	5.034 %	0.159 %	0.361 %	-3.209 %
Concentration RSD	67.8 %	90.6 %	56.6 %	11.9 %	93.6 %	136.5 %	65.8 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0006 ppm	0.0018 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0009 ppm	0.0064 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0000 ppm	-0.0010 ppm	0.0012 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0007 ppm	0.0000 ppm	-0.0012 ppm
Recovery Percentage 1	0.344 %	-0.391 %	1.510 %	6.907 %	1.110 %	0.073 %	-0.175 %
Concentration RSD	471.3 %	6.6 %	112.4 %	20.9 %	87.5 %	221.2 %	693.8 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0007 ppm	0.0103 ppm	0.0003 ppm	0.0003 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0113 ppm	0.0002 ppm	0.0003 ppm	0.0011 ppm	0.0010 ppm
Concentration per Run 2	0.0001 ppm	0.0008 ppm	0.0105 ppm	0.0004 ppm	0.0005 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 3	0.0002 ppm	0.0006 ppm	0.0090 ppm	0.0003 ppm	0.0002 ppm	0.0007 ppm	-0.0001 ppm
Recovery Percentage 1	1.148 %	1.350 %	0.514 %	1.286 %	3.440 %	1.445 %	2.507 %
Concentration RSD	82.7 %	14.6 %	11.0 %	40.8 %	40.3 %	51.8 %	248.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm
Recovery Percentage 1	-0.031 %	0.232 %	-0.054 %	0.727 %	0.971 %	0.140 %	-1.675 %
Concentration RSD	89.8 %	188.4 %	275.4 %	195.9 %	271.1 %	899.5 %	108.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.5731 %	101.6520 %	99.7542 %	99.0139 %	102.0211 %	99.5651 %	-0.0002 ppm
Concentration per Run 1	102.8864 %	101.5345 %	99.8184 %	98.7429 %	102.1660 %	99.4524 %	-0.0004 ppm
Concentration per Run 2	101.0007 %	102.0919 %	99.8329 %	98.8328 %	102.1363 %	100.0009 %	0.0002 ppm
Concentration per Run 3	100.8321 %	101.3296 %	99.6111 %	99.4659 %	101.7609 %	99.2418 %	-0.0002 ppm
Recovery Percentage 1							-1.598 %
Concentration RSD	1.1 %	0.4 %	0.1 %	0.4 %	0.2 %	0.4 %	194.9 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082870-1 WG2082870

Analysis started at: 6/26/2025 8:34:59 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	0.0013 ppm	-0.0011 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	-0.0016 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0090 ppm
Concentration per Run 2	-0.0002 ppm	0.0040 ppm	-0.0007 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	-0.0011 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0077 ppm
Recovery Percentage 1	-2.285 %	1.271 %	-22.487 %	4.375 %	0.435 %	0.219 %	6.188 %
Concentration RSD	45.7 %	188.5 %	38.3 %	12.7 %	83.3 %	122.8 %	61.5 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm	0.0014 ppm	0.0063 ppm	0.0021 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0011 ppm	0.0014 ppm	0.0077 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0010 ppm	0.0015 ppm	0.0049 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0010 ppm	0.0012 ppm	0.0064 ppm	0.0029 ppm
Recovery Percentage 1	0.070 %	-0.231 %	0.652 %	10.083 %	2.731 %	0.253 %	2.145 %
Concentration RSD	1,539.7 %	127.8 %	341.6 %	7.9 %	8.5 %	21.9 %	36.2 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0002 ppm	0.0097 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0095 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0013 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0078 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	-0.0004 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0119 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0007 ppm
Recovery Percentage 1	1.566 %	0.344 %	0.487 %	0.339 %	1.865 %	0.343 %	5.433 %
Concentration RSD	63.1 %	37.4 %	20.9 %	37.9 %	53.9 %	149.1 %	167.4 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0087 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0087 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	0.0083 ppm	-0.0007 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 3	0.0090 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0002 ppm	0.0003 ppm
Recovery Percentage 1	1.741 %	-0.598 %	0.220 %	-0.819 %	1.023 %	0.553 %	4.144 %
Concentration RSD	4.0 %	132.2 %	70.8 %	120.4 %	243.3 %	225.9 %	42.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	102.4441 %	101.8996 %	99.7666 %	97.7167 %	103.6230 %	98.8563 %	-0.0002 ppm
Concentration per Run 1	102.4209 %	102.0251 %	99.6059 %	96.2923 %	104.0503 %	98.8112 %	-0.0003 ppm
Concentration per Run 2	102.4774 %	101.7424 %	100.1147 %	98.3236 %	103.5262 %	98.7843 %	-0.0001 ppm
Concentration per Run 3	102.4341 %	101.9312 %	99.5793 %	98.5343 %	103.2926 %	98.9734 %	-0.0003 ppm
Recovery Percentage 1							-2.456 %
Concentration RSD	0.0 %	0.1 %	0.3 %	1.3 %	0.4 %	0.1 %	37.8 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082870-2 WG2082870

Analysis started at: 6/26/2025 8:41:40 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	0.0593 ppm	2.4561 ppm	0.1191 ppm	1.0075 ppm	2.2983 ppm	0.0566 ppm	10.7182 ppm
Concentration per Run 1	0.0596 ppm	2.4625 ppm	0.1193 ppm	1.0064 ppm	2.3091 ppm	0.0567 ppm	10.7403 ppm
Concentration per Run 2	0.0591 ppm	2.4594 ppm	0.1203 ppm	1.0092 ppm	2.3093 ppm	0.0566 ppm	10.7385 ppm
Concentration per Run 3	0.0594 ppm	2.4464 ppm	0.1176 ppm	1.0069 ppm	2.2764 ppm	0.0565 ppm	10.6756 ppm
Concentration RSD	0.4 %	0.3 %	1.1 %	0.1 %	0.8 %	0.2 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0521 ppm	0.5660 ppm	0.2290 ppm	0.2876 ppm	1.1635 ppm	11.8970 ppm	10.5657 ppm
Concentration per Run 1	0.0520 ppm	0.5652 ppm	0.2300 ppm	0.2859 ppm	1.1637 ppm	11.9282 ppm	10.5557 ppm
Concentration per Run 2	0.0525 ppm	0.5680 ppm	0.2290 ppm	0.2867 ppm	1.1657 ppm	11.8785 ppm	10.5488 ppm
Concentration per Run 3	0.0519 ppm	0.5648 ppm	0.2280 ppm	0.2902 ppm	1.1612 ppm	11.8842 ppm	10.5925 ppm
Concentration RSD	0.6 %	0.3 %	0.4 %	0.8 %	0.2 %	0.2 %	0.2 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5790 ppm	0.9859 ppm	11.5331 ppm	0.5264 ppm	0.5221 ppm	0.4882 ppm	0.1261 ppm
Concentration per Run 1	0.5794 ppm	0.9834 ppm	11.5666 ppm	0.5270 ppm	0.5226 ppm	0.4869 ppm	0.1260 ppm
Concentration per Run 2	0.5797 ppm	0.9895 ppm	11.5110 ppm	0.5266 ppm	0.5214 ppm	0.4868 ppm	0.1251 ppm
Concentration per Run 3	0.5778 ppm	0.9848 ppm	11.5216 ppm	0.5255 ppm	0.5222 ppm	0.4909 ppm	0.1274 ppm
Concentration RSD	0.2 %	0.3 %	0.3 %	0.1 %	0.1 %	0.5 %	0.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	1.2232 ppm	0.9303 ppm	1.0781 ppm	1.0397 ppm	0.1161 ppm	0.5699 ppm	0.5594 ppm
Concentration per Run 1	1.2255 ppm	0.9320 ppm	1.0791 ppm	1.0414 ppm	0.1164 ppm	0.5712 ppm	0.5590 ppm
Concentration per Run 2	1.2202 ppm	0.9305 ppm	1.0793 ppm	1.0382 ppm	0.1162 ppm	0.5692 ppm	0.5617 ppm
Concentration per Run 3	1.2240 ppm	0.9284 ppm	1.0760 ppm	1.0395 ppm	0.1157 ppm	0.5694 ppm	0.5575 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.2 %	0.3 %	0.2 %	0.4 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.1239 %	97.6124 %	95.5996 %	99.1245 %	90.7204 %	96.1105 %	-0.0001 ppm
Concentration per Run 1	102.4812 %	97.8812 %	95.8864 %	99.3001 %	90.5858 %	96.2409 %	-0.0001 ppm
Concentration per Run 2	100.8029 %	97.3700 %	95.7123 %	98.9190 %	90.8700 %	95.9512 %	0.0001 ppm
Concentration per Run 3	100.0877 %	97.5860 %	95.2002 %	99.1543 %	90.7053 %	96.1395 %	-0.0003 ppm
Concentration RSD	1.2 %	0.3 %	0.4 %	0.2 %	0.2 %	0.2 %	181.3 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538795-07 WG2082870

Analysis started at: 6/26/2025 8:48:06 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	-0.0001 ppm	0.5276 ppm	0.0018 ppm	0.0237 ppm	0.0270 ppm	0.0000 ppm	10.9215 ppm
Concentration per Run 1	0.0000 ppm	0.5284 ppm	0.0022 ppm	0.0239 ppm	0.0273 ppm	0.0000 ppm	11.2739 ppm
Concentration per Run 2	-0.0002 ppm	0.5340 ppm	0.0008 ppm	0.0237 ppm	0.0272 ppm	0.0000 ppm	10.8450 ppm
Concentration per Run 3	-0.0002 ppm	0.5202 ppm	0.0025 ppm	0.0235 ppm	0.0266 ppm	0.0000 ppm	10.6456 ppm
Concentration RSD	104.5 %	1.3 %	48.3 %	0.8 %	1.4 %	79.5 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0007 ppm	0.0176 ppm	0.0992 ppm	2.2781 ppm	17.9488 ppm	3.2438 ppm
Concentration per Run 1	0.0002 ppm	0.0008 ppm	0.0174 ppm	0.1018 ppm	2.3304 ppm	17.3150 ppm	3.2677 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0180 ppm	0.0988 ppm	2.2694 ppm	18.5119 ppm	3.2470 ppm
Concentration per Run 3	0.0001 ppm	0.0008 ppm	0.0174 ppm	0.0972 ppm	2.2346 ppm	18.0194 ppm	3.2166 ppm
Concentration RSD	36.9 %	14.5 %	2.0 %	2.3 %	2.1 %	3.4 %	0.8 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0598 ppm	0.0033 ppm	91.8639 ppm	0.0124 ppm	0.0029 ppm	0.0030 ppm	0.0012 ppm
Concentration per Run 1	0.0615 ppm	0.0035 ppm	90.6447 ppm	0.0121 ppm	0.0030 ppm	0.0029 ppm	0.0012 ppm
Concentration per Run 2	0.0594 ppm	0.0032 ppm	91.4728 ppm	0.0125 ppm	0.0026 ppm	0.0032 ppm	0.0027 ppm
Concentration per Run 3	0.0586 ppm	0.0031 ppm	93.4742 ppm	0.0124 ppm	0.0031 ppm	0.0031 ppm	-0.0004 ppm
Concentration RSD	2.5 %	6.5 %	1.6 %	1.7 %	9.6 %	4.5 %	131.4 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	1.9698 ppm	0.0048 ppm	0.0458 ppm	0.0099 ppm	-0.0025 ppm	0.0006 ppm	0.1311 ppm
Concentration per Run 1	1.9407 ppm	0.0044 ppm	0.0463 ppm	0.0097 ppm	-0.0034 ppm	0.0004 ppm	0.1296 ppm
Concentration per Run 2	2.0160 ppm	0.0046 ppm	0.0461 ppm	0.0103 ppm	-0.0010 ppm	0.0005 ppm	0.1339 ppm
Concentration per Run 3	1.9527 ppm	0.0052 ppm	0.0451 ppm	0.0096 ppm	-0.0031 ppm	0.0008 ppm	0.1299 ppm
Concentration RSD	2.1 %	8.9 %	1.5 %	3.8 %	51.4 %	32.2 %	1.8 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.2672 %	91.6941 %	85.4617 %	97.1893 %	81.6925 %	89.5589 %	0.0023 ppm
Concentration per Run 1	100.1372 %	90.6726 %	86.4723 %	95.7703 %	82.7893 %	88.4027 %	0.0020 ppm
Concentration per Run 2	99.5803 %	91.9807 %	83.4618 %	97.0174 %	80.2941 %	89.7852 %	0.0026 ppm
Concentration per Run 3	101.0840 %	92.4291 %	86.4510 %	98.7802 %	81.9942 %	90.4888 %	0.0022 ppm
Concentration RSD	0.8 %	1.0 %	2.0 %	1.6 %	1.6 %	1.2 %	12.0 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538796-07 WG2082870

Analysis started at: 6/26/2025 8:54:45 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	0.0000 ppm	0.0545 ppm	0.0012 ppm	0.0112 ppm	0.0134 ppm	0.0000 ppm	7.1667 ppm
Concentration per Run 1	-0.0001 ppm	0.0560 ppm	0.0016 ppm	0.0115 ppm	0.0133 ppm	0.0000 ppm	7.1637 ppm
Concentration per Run 2	0.0001 ppm	0.0551 ppm	0.0004 ppm	0.0112 ppm	0.0134 ppm	0.0000 ppm	7.2013 ppm
Concentration per Run 3	0.0001 ppm	0.0524 ppm	0.0016 ppm	0.0111 ppm	0.0133 ppm	0.0000 ppm	7.1351 ppm
Concentration RSD	214.8 %	3.4 %	56.0 %	1.9 %	0.3 %	198.1 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0090 ppm	0.0408 ppm	0.4131 ppm	6.0389 ppm	1.7380 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0091 ppm	0.0407 ppm	0.4135 ppm	6.1020 ppm	1.7383 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0087 ppm	0.0410 ppm	0.4144 ppm	5.9117 ppm	1.7315 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0091 ppm	0.0408 ppm	0.4113 ppm	6.1029 ppm	1.7442 ppm
Concentration RSD	75.1 %	32.8 %	2.4 %	0.4 %	0.4 %	1.8 %	0.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0252 ppm	0.0009 ppm	28.0325 ppm	0.0038 ppm	-0.0003 ppm	0.0007 ppm	0.0017 ppm
Concentration per Run 1	0.0254 ppm	0.0012 ppm	28.3051 ppm	0.0040 ppm	-0.0007 ppm	-0.0001 ppm	0.0036 ppm
Concentration per Run 2	0.0252 ppm	0.0010 ppm	27.5070 ppm	0.0037 ppm	0.0000 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 3	0.0252 ppm	0.0007 ppm	28.2853 ppm	0.0038 ppm	-0.0002 ppm	0.0015 ppm	0.0009 ppm
Concentration RSD	0.6 %	26.3 %	1.6 %	3.2 %	125.4 %	109.5 %	94.4 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	1.0635 ppm	0.0021 ppm	0.0301 ppm	0.0011 ppm	-0.0015 ppm	0.0001 ppm	0.0364 ppm
Concentration per Run 1	1.0631 ppm	0.0024 ppm	0.0302 ppm	0.0012 ppm	-0.0019 ppm	0.0000 ppm	0.0365 ppm
Concentration per Run 2	1.0654 ppm	0.0021 ppm	0.0301 ppm	0.0011 ppm	-0.0006 ppm	0.0000 ppm	0.0361 ppm
Concentration per Run 3	1.0619 ppm	0.0019 ppm	0.0301 ppm	0.0011 ppm	-0.0021 ppm	0.0002 ppm	0.0365 ppm
Concentration RSD	0.2 %	11.3 %	0.2 %	7.3 %	53.0 %	222.5 %	0.7 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.1802 %	95.7682 %	90.4353 %	98.5563 %	89.7860 %	93.5206 %	0.0011 ppm
Concentration per Run 1	102.2517 %	96.1390 %	91.2239 %	98.5434 %	89.9202 %	93.8299 %	0.0013 ppm
Concentration per Run 2	100.6992 %	95.5394 %	89.6275 %	98.4031 %	89.6294 %	93.2779 %	0.0005 ppm
Concentration per Run 3	100.5896 %	95.6262 %	90.4544 %	98.7225 %	89.8083 %	93.4542 %	0.0014 ppm
Concentration RSD	0.9 %	0.3 %	0.9 %	0.2 %	0.2 %	0.3 %	45.7 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538797-07 WG2082870

Analysis started at: 6/26/2025 9:01:19 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	0.0001 ppm	0.0830 ppm	0.0027 ppm	0.0157 ppm	0.0147 ppm	0.0000 ppm	7.4234 ppm
Concentration per Run 1	0.0001 ppm	0.0838 ppm	0.0036 ppm	0.0166 ppm	0.0147 ppm	0.0000 ppm	7.4121 ppm
Concentration per Run 2	0.0001 ppm	0.0844 ppm	0.0006 ppm	0.0155 ppm	0.0148 ppm	0.0000 ppm	7.3713 ppm
Concentration per Run 3	0.0000 ppm	0.0809 ppm	0.0040 ppm	0.0151 ppm	0.0147 ppm	0.0000 ppm	7.4867 ppm
Concentration RSD	94.1 %	2.2 %	68.7 %	5.2 %	0.4 %	23.0 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0133 ppm	0.0485 ppm	0.5041 ppm	21.2793 ppm	2.2204 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0133 ppm	0.0519 ppm	0.5040 ppm	21.0812 ppm	2.3193 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0132 ppm	0.0465 ppm	0.5029 ppm	21.7344 ppm	2.1699 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0132 ppm	0.0469 ppm	0.5054 ppm	21.0224 ppm	2.1720 ppm
Concentration RSD	31.5 %	28.9 %	0.6 %	6.2 %	0.2 %	1.9 %	3.9 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0287 ppm	0.0012 ppm	54.1449 ppm	0.0058 ppm	0.0005 ppm	0.0002 ppm	0.0027 ppm
Concentration per Run 1	0.0290 ppm	0.0013 ppm	53.3668 ppm	0.0058 ppm	0.0009 ppm	0.0001 ppm	0.0024 ppm
Concentration per Run 2	0.0283 ppm	0.0012 ppm	54.9230 ppm	0.0057 ppm	0.0006 ppm	0.0005 ppm	0.0036 ppm
Concentration per Run 3	0.0289 ppm	0.0011 ppm	0.0000 ppm	0.0058 ppm	-0.0001 ppm	-0.0001 ppm	0.0023 ppm
Concentration RSD	1.3 %	5.7 %	2.0 %	1.2 %	103.3 %	231.6 %	27.4 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	1.0565 ppm	0.0017 ppm	0.0380 ppm	0.0014 ppm	-0.0024 ppm	-0.0001 ppm	0.0531 ppm
Concentration per Run 1	1.0552 ppm	0.0020 ppm	0.0380 ppm	0.0014 ppm	-0.0037 ppm	-0.0002 ppm	0.0532 ppm
Concentration per Run 2	1.0576 ppm	0.0012 ppm	0.0383 ppm	0.0014 ppm	-0.0004 ppm	-0.0003 ppm	0.0533 ppm
Concentration per Run 3	1.0566 ppm	0.0019 ppm	0.0378 ppm	0.0016 ppm	-0.0032 ppm	0.0003 ppm	0.0530 ppm
Concentration RSD	0.1 %	24.2 %	0.7 %	9.9 %	71.8 %	477.6 %	0.3 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.3523 %	90.5876 %	86.2189 %	97.3919 %	82.6737 %	88.3779 %	0.0022 ppm
Concentration per Run 1	101.6932 %	86.2133 %	86.6976 %	97.7466 %	82.9080 %	84.3075 %	0.0023 ppm
Concentration per Run 2	99.7431 %	93.2469 %	85.9327 %	97.2418 %	82.5292 %	90.8060 %	0.0023 ppm
Concentration per Run 3	99.6207 %	92.3025 %	86.0264 %	97.1873 %	82.5839 %	90.0201 %	0.0020 ppm
Concentration RSD	1.2 %	4.2 %	0.5 %	0.3 %	0.2 %	4.0 %	7.5 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538013-01 WG2082870
 Analysis started at: 6/26/2025 9:07:53 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	-0.0003 ppm	0.2058 ppm	-0.0007 ppm	0.0256 ppm	0.0861 ppm	0.0000 ppm	102.9759 ppm
Concentration per Run 1	-0.0003 ppm	0.1984 ppm	0.0019 ppm	0.0257 ppm	0.0825 ppm	0.0000 ppm	98.7839 ppm
Concentration per Run 2	-0.0002 ppm	0.2131 ppm	-0.0014 ppm	0.0256 ppm	0.0886 ppm	0.0000 ppm	106.1232 ppm
Concentration per Run 3	-0.0003 ppm	0.2060 ppm	-0.0025 ppm	0.0254 ppm	0.0871 ppm	0.0000 ppm	104.0206 ppm
Concentration RSD	31.9 %	3.6 %	349.1 %	0.5 %	3.7 %	234.1 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0021 ppm	0.0038 ppm	3.4146 ppm	26.1027 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0009 ppm	0.0022 ppm	0.0036 ppm	3.2878 ppm	26.2477 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0020 ppm	0.0036 ppm	3.4907 ppm	26.0691 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0021 ppm	0.0042 ppm	3.4655 ppm	25.9911 ppm
Concentration RSD	8.4 %	29.6 %	121.0 %	4.1 %	8.9 %	3.2 %	0.5 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0009 ppm	0.0004 ppm	4.7802 ppm	-0.0004 ppm	-0.0010 ppm	0.0007 ppm	0.0011 ppm
Concentration per Run 1	0.0008 ppm	0.0005 ppm	4.5979 ppm	-0.0005 ppm	-0.0006 ppm	0.0005 ppm	0.0016 ppm
Concentration per Run 2	0.0009 ppm	0.0005 ppm	4.8950 ppm	-0.0002 ppm	-0.0012 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0010 ppm	0.0002 ppm	4.8477 ppm	-0.0004 ppm	-0.0012 ppm	0.0011 ppm	0.0018 ppm
Concentration RSD	11.7 %	40.4 %	3.3 %	40.1 %	34.5 %	45.5 %	97.6 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	6.1876 ppm	0.0000 ppm	0.2460 ppm	0.0002 ppm	-0.0013 ppm	0.0002 ppm	0.0024 ppm
Concentration per Run 1	6.1759 ppm	-0.0002 ppm	0.2360 ppm	0.0000 ppm	-0.0026 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 2	6.1734 ppm	0.0004 ppm	0.2532 ppm	0.0004 ppm	-0.0010 ppm	0.0002 ppm	0.0023 ppm
Concentration per Run 3	6.2135 ppm	-0.0002 ppm	0.2489 ppm	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0026 ppm
Concentration RSD	0.4 %	3,906.3 %	3.6 %	98.6 %	89.6 %	109.8 %	5.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.3867 %	92.4888 %	90.1852 %	97.5607 %	80.9461 %	90.5212 %	0.0003 ppm
Concentration per Run 1	105.5426 %	92.6829 %	90.3932 %	101.4942 %	81.2170 %	90.5786 %	0.0006 ppm
Concentration per Run 2	97.1428 %	92.3161 %	90.6231 %	94.8699 %	81.2194 %	90.3415 %	0.0001 ppm
Concentration per Run 3	98.4748 %	92.4673 %	89.5393 %	96.3181 %	80.4018 %	90.6436 %	0.0001 ppm
Concentration RSD	4.5 %	0.2 %	0.6 %	3.6 %	0.6 %	0.2 %	104.7 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082870-7 WG2082870

Analysis started at: 6/26/2025 9:14:28 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	0.0588 ppm	2.4620 ppm	0.1216 ppm	1.0404 ppm	2.3569 ppm	0.0568 ppm	114.7278 ppm
Concentration per Run 1	0.0590 ppm	2.4866 ppm	0.1193 ppm	1.0408 ppm	2.3353 ppm	0.0570 ppm	115.5863 ppm
Concentration per Run 2	0.0584 ppm	2.4703 ppm	0.1242 ppm	1.0348 ppm	2.3417 ppm	0.0566 ppm	114.1540 ppm
Concentration per Run 3	0.0591 ppm	2.4291 ppm	0.1214 ppm	1.0454 ppm	2.3936 ppm	0.0567 ppm	114.4430 ppm
Concentration RSD	0.6 %	1.2 %	2.0 %	0.5 %	1.4 %	0.4 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0509 ppm	0.5393 ppm	0.2207 ppm	0.2879 ppm	1.1473 ppm	14.7991 ppm	35.6796 ppm
Concentration per Run 1	0.0512 ppm	0.5408 ppm	0.2197 ppm	0.2906 ppm	1.1544 ppm	14.9092 ppm	35.7386 ppm
Concentration per Run 2	0.0506 ppm	0.5366 ppm	0.2218 ppm	0.2844 ppm	1.1465 ppm	15.0633 ppm	35.5156 ppm
Concentration per Run 3	0.0511 ppm	0.5405 ppm	0.2204 ppm	0.2886 ppm	1.1408 ppm	14.4248 ppm	35.7845 ppm
Concentration RSD	0.6 %	0.4 %	0.5 %	1.1 %	0.6 %	2.3 %	0.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5697 ppm	0.9614 ppm	15.9137 ppm	0.5403 ppm	0.5275 ppm	0.5186 ppm	0.1266 ppm
Concentration per Run 1	0.5733 ppm	0.9621 ppm	16.0410 ppm	0.5432 ppm	0.5292 ppm	0.5179 ppm	0.1261 ppm
Concentration per Run 2	0.5683 ppm	0.9574 ppm	16.1858 ppm	0.5390 ppm	0.5256 ppm	0.5189 ppm	0.1252 ppm
Concentration per Run 3	0.5676 ppm	0.9646 ppm	15.5144 ppm	0.5386 ppm	0.5277 ppm	0.5191 ppm	0.1284 ppm
Concentration RSD	0.5 %	0.4 %	2.2 %	0.5 %	0.3 %	0.1 %	1.3 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	7.5020 ppm	0.9595 ppm	1.3118 ppm	1.0235 ppm	0.1122 ppm	0.5598 ppm	0.5398 ppm
Concentration per Run 1	7.5215 ppm	0.9627 ppm	1.3196 ppm	1.0219 ppm	0.1121 ppm	0.5582 ppm	0.5401 ppm
Concentration per Run 2	7.4875 ppm	0.9567 ppm	1.3138 ppm	1.0242 ppm	0.1123 ppm	0.5622 ppm	0.5399 ppm
Concentration per Run 3	7.4970 ppm	0.9591 ppm	1.3019 ppm	1.0243 ppm	0.1123 ppm	0.5589 ppm	0.5393 ppm
Concentration RSD	0.2 %	0.3 %	0.7 %	0.1 %	0.1 %	0.4 %	0.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	97.4295 %	91.9162 %	89.9939 %	95.4603 %	78.9955 %	90.0141 %	0.0001 ppm
Concentration per Run 1	97.6813 %	92.1056 %	90.3511 %	94.9232 %	78.8952 %	90.0161 %	0.0002 ppm
Concentration per Run 2	97.6379 %	92.2734 %	89.7807 %	95.6520 %	79.0683 %	90.4185 %	0.0003 ppm
Concentration per Run 3	96.9693 %	91.3695 %	89.8500 %	95.8058 %	79.0230 %	89.6079 %	-0.0001 ppm
Concentration RSD	0.4 %	0.5 %	0.3 %	0.5 %	0.1 %	0.5 %	130.5 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082870-8 WG2082870

Analysis started at: 6/26/2025 9:20:54 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	0.0587 ppm	2.4363 ppm	0.1226 ppm	1.0511 ppm	2.3470 ppm	0.0557 ppm	114.6625 ppm
Concentration per Run 1	0.0590 ppm	2.4101 ppm	0.1228 ppm	1.0576 ppm	2.2838 ppm	0.0554 ppm	114.8211 ppm
Concentration per Run 2	0.0588 ppm	2.4633 ppm	0.1213 ppm	1.0498 ppm	2.4214 ppm	0.0563 ppm	115.4445 ppm
Concentration per Run 3	0.0584 ppm	2.4355 ppm	0.1238 ppm	1.0460 ppm	2.3357 ppm	0.0555 ppm	113.7219 ppm
Concentration RSD	0.5 %	1.1 %	1.0 %	0.6 %	3.0 %	0.9 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0505 ppm	0.5372 ppm	0.2205 ppm	0.2883 ppm	1.1256 ppm	15.1152 ppm	36.1915 ppm
Concentration per Run 1	0.0509 ppm	0.5414 ppm	0.2206 ppm	0.2907 ppm	1.1250 ppm	14.8040 ppm	36.2576 ppm
Concentration per Run 2	0.0504 ppm	0.5364 ppm	0.2222 ppm	0.2862 ppm	1.1339 ppm	15.3232 ppm	36.2530 ppm
Concentration per Run 3	0.0501 ppm	0.5338 ppm	0.2188 ppm	0.2880 ppm	1.1178 ppm	15.2183 ppm	36.0639 ppm
Concentration RSD	0.8 %	0.7 %	0.8 %	0.8 %	0.7 %	1.8 %	0.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5575 ppm	0.9701 ppm	16.1942 ppm	0.5365 ppm	0.5293 ppm	0.5190 ppm	0.1282 ppm
Concentration per Run 1	0.5559 ppm	0.9744 ppm	15.8280 ppm	0.5371 ppm	0.5303 ppm	0.5184 ppm	0.1272 ppm
Concentration per Run 2	0.5612 ppm	0.9690 ppm	16.4394 ppm	0.5346 ppm	0.5292 ppm	0.5189 ppm	0.1307 ppm
Concentration per Run 3	0.5554 ppm	0.9670 ppm	16.3153 ppm	0.5378 ppm	0.5286 ppm	0.5198 ppm	0.1268 ppm
Concentration RSD	0.6 %	0.4 %	2.0 %	0.3 %	0.2 %	0.1 %	1.6 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	7.6210 ppm	0.9641 ppm	1.3187 ppm	1.0315 ppm	0.1154 ppm	0.5570 ppm	0.5359 ppm
Concentration per Run 1	7.6282 ppm	0.9633 ppm	1.3066 ppm	1.0338 ppm	0.1165 ppm	0.5581 ppm	0.5347 ppm
Concentration per Run 2	7.6003 ppm	0.9626 ppm	1.3270 ppm	1.0346 ppm	0.1142 ppm	0.5595 ppm	0.5373 ppm
Concentration per Run 3	7.6346 ppm	0.9664 ppm	1.3225 ppm	1.0261 ppm	0.1153 ppm	0.5535 ppm	0.5358 ppm
Concentration RSD	0.2 %	0.2 %	0.8 %	0.5 %	1.0 %	0.6 %	0.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	98.4105 %	91.8048 %	89.4080 %	96.3228 %	78.6621 %	89.4442 %	0.0002 ppm
Concentration per Run 1	99.3309 %	91.3635 %	89.6133 %	96.7156 %	78.6029 %	88.9234 %	0.0002 ppm
Concentration per Run 2	97.6962 %	92.2118 %	89.7214 %	95.7885 %	79.0676 %	89.7722 %	-0.0001 ppm
Concentration per Run 3	98.2042 %	91.8392 %	88.8892 %	96.4642 %	78.3158 %	89.6369 %	0.0004 ppm
Concentration RSD	0.9 %	0.5 %	0.5 %	0.5 %	0.5 %	0.5 %	126.3 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082870-9 WG2082870

Analysis started at: 6/26/2025 9:27:19 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	0.0533 ppm	2.2683 ppm	0.1274 ppm	1.0834 ppm	2.1927 ppm	0.0524 ppm	112.0351 ppm
Concentration per Run 1	0.0533 ppm	2.2588 ppm	0.1253 ppm	1.0864 ppm	2.1685 ppm	0.0521 ppm	111.7891 ppm
Concentration per Run 2	0.0532 ppm	2.2798 ppm	0.1283 ppm	1.0812 ppm	2.1957 ppm	0.0524 ppm	111.3777 ppm
Concentration per Run 3	0.0533 ppm	2.2665 ppm	0.1286 ppm	1.0825 ppm	2.2138 ppm	0.0527 ppm	112.9385 ppm
Concentration RSD	0.1 %	0.5 %	1.4 %	0.3 %	1.0 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0521 ppm	0.5021 ppm	0.2079 ppm	0.2694 ppm	1.0583 ppm	15.0718 ppm	35.5064 ppm
Concentration per Run 1	0.0525 ppm	0.5055 ppm	0.2066 ppm	0.2707 ppm	1.0522 ppm	15.0698 ppm	35.4477 ppm
Concentration per Run 2	0.0519 ppm	0.5007 ppm	0.2076 ppm	0.2695 ppm	1.0549 ppm	15.2377 ppm	35.5352 ppm
Concentration per Run 3	0.0518 ppm	0.5003 ppm	0.2094 ppm	0.2679 ppm	1.0679 ppm	14.9079 ppm	35.5364 ppm
Concentration RSD	0.7 %	0.6 %	0.7 %	0.5 %	0.8 %	1.1 %	0.1 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5244 ppm	1.0115 ppm	16.1683 ppm	0.5064 ppm	0.5509 ppm	0.5205 ppm	0.1303 ppm
Concentration per Run 1	0.5241 ppm	1.0151 ppm	16.1311 ppm	0.5036 ppm	0.5498 ppm	0.5159 ppm	0.1297 ppm
Concentration per Run 2	0.5220 ppm	1.0088 ppm	16.3660 ppm	0.5107 ppm	0.5551 ppm	0.5235 ppm	0.1318 ppm
Concentration per Run 3	0.5272 ppm	1.0105 ppm	16.0078 ppm	0.5048 ppm	0.5480 ppm	0.5221 ppm	0.1293 ppm
Concentration RSD	0.5 %	0.3 %	1.1 %	0.7 %	0.7 %	0.8 %	1.0 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	7.4283 ppm	1.0113 [SIC 20]	1.3326 ppm	1.0643 ppm	0.1187 ppm	0.5220 ppm	0.5051 ppm
Concentration per Run 1	7.3745 ppm	1.0066 ppm	1.3233 ppm	1.0610 ppm	0.1178 ppm	0.5197 ppm	0.5008 ppm
Concentration per Run 2	7.4976 ppm	1.0183 ppm	1.3268 ppm	1.0636 ppm	0.1190 ppm	0.5218 ppm	0.5107 ppm
Concentration per Run 3	7.4128 ppm	1.0091 ppm	1.3477 ppm	1.0682 ppm	0.1192 ppm	0.5246 ppm	0.5039 ppm
Concentration RSD	0.8 %	0.6 %	1.0 %	0.3 %	0.6 %	0.5 %	1.0 %

	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)	Li 670.784 {50} (Radial)
Concentration average	98.0976 %	92.0150 %	89.1554 %	96.9862 %	78.6701 %	90.2036 %	-0.0002 ppm
Concentration per Run 1	98.9488 %	91.6798 %	90.2863 %	97.6288 %	79.2374 %	89.8096 %	-0.0004 ppm
Concentration per Run 2	97.9991 %	92.3174 %	88.0094 %	97.0084 %	78.0230 %	90.4140 %	0.0000 ppm
Concentration per Run 3	97.3450 %	92.0479 %	89.1705 %	96.3215 %	78.7499 %	90.3872 %	-0.0003 ppm
Concentration RSD	0.8 %	0.3 %	1.3 %	0.7 %	0.8 %	0.4 %	92.7 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082870-10D5 WG2082870

Analysis started at: 6/26/2025 9:33:54 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	-0.0001 ppm	0.0220 ppm	-0.0011 ppm	0.0070 ppm	0.0157 ppm	0.0000 ppm	18.7596 ppm
Concentration per Run 1	-0.0002 ppm	0.0217 ppm	-0.0016 ppm	0.0070 ppm	0.0153 ppm	0.0000 ppm	18.5507 ppm
Concentration per Run 2	-0.0001 ppm	0.0215 ppm	-0.0010 ppm	0.0070 ppm	0.0160 ppm	0.0000 ppm	18.8331 ppm
Concentration per Run 3	-0.0001 ppm	0.0226 ppm	-0.0009 ppm	0.0070 ppm	0.0159 ppm	0.0000 ppm	18.8950 ppm
Concentration RSD	63.7 %	2.7 %	31.9 %	0.6 %	2.2 %	169.8 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0019 ppm	0.5874 ppm	4.9132 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0019 ppm	0.5599 ppm	4.9405 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0006 ppm	0.0016 ppm	0.6041 ppm	4.8914 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0022 ppm	0.5983 ppm	4.9078 ppm
Concentration RSD	135.8 %	72.0 %	5,156.1 %	19.2 %	14.6 %	4.1 %	0.5 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0034 ppm	0.8251 ppm	0.0001 ppm	-0.0001 ppm	0.0039 ppm	-0.0008 ppm
Concentration per Run 1	0.0003 ppm	0.0039 ppm	0.7937 ppm	0.0000 ppm	0.0001 ppm	0.0049 ppm	-0.0006 ppm
Concentration per Run 2	0.0002 ppm	0.0035 ppm	0.8414 ppm	-0.0001 ppm	0.0002 ppm	0.0036 ppm	-0.0016 ppm
Concentration per Run 3	0.0001 ppm	0.0029 ppm	0.8402 ppm	0.0003 ppm	-0.0005 ppm	0.0031 ppm	-0.0002 ppm
Concentration RSD	61.5 %	14.9 %	3.3 %	356.8 %	823.6 %	24.6 %	88.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	1.0404 ppm	0.0027 ppm	0.0449 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 1	1.0367 ppm	0.0029 ppm	0.0438 ppm	0.0006 ppm	-0.0007 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 2	1.0423 ppm	0.0030 ppm	0.0454 ppm	0.0003 ppm	0.0005 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	1.0422 ppm	0.0023 ppm	0.0455 ppm	0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0005 ppm
Concentration RSD	0.3 %	15.0 %	2.1 %	71.4 %	708.9 %	37.7 %	21.3 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.5008 %	98.3212 %	96.7948 %	100.6673 %	93.9578 %	97.1268 %	-0.0001 ppm
Concentration per Run 1	103.7230 %	98.0513 %	97.1848 %	102.4933 %	94.4018 %	96.7301 %	0.0001 ppm
Concentration per Run 2	100.3165 %	98.1154 %	96.7760 %	99.6858 %	93.7006 %	97.0401 %	-0.0001 ppm
Concentration per Run 3	100.4628 %	98.7970 %	96.4237 %	99.8227 %	93.7709 %	97.6104 %	-0.0002 ppm
Concentration RSD	1.9 %	0.4 %	0.4 %	1.6 %	0.4 %	0.5 %	290.5 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 9:40:30 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	0.5091 ppm	0.4981 ppm	0.4677 ppm	0.5035 ppm	0.4963 ppm	0.5013 ppm	0.5125 ppm
Concentration per Run 1	0.5098 ppm	0.4907 ppm	0.4689 ppm	0.5037 ppm	0.4901 ppm	0.4983 ppm	0.5125 ppm
Concentration per Run 2	0.5091 ppm	0.4987 ppm	0.4656 ppm	0.5040 ppm	0.4982 ppm	0.5024 ppm	0.5118 ppm
Concentration per Run 3	0.5086 ppm	0.5050 ppm	0.4687 ppm	0.5028 ppm	0.5005 ppm	0.5031 ppm	0.5132 ppm
Recovery Percentage 1	101.826 %	99.622 %	93.539 %	100.696 %	99.251 %	100.255 %	102.499 %
Concentration RSD	0.1 %	1.4 %	0.4 %	0.1 %	1.1 %	0.5 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.4856 ppm	0.5143 ppm	0.5185 ppm	0.4942 ppm	0.5051 ppm	5.2177 ppm	0.5176 ppm
Concentration per Run 1	0.4838 ppm	0.5131 ppm	0.5172 ppm	0.4937 ppm	0.5036 ppm	5.0646 ppm	0.5159 ppm
Concentration per Run 2	0.4921 ppm	0.5187 ppm	0.5173 ppm	0.4966 ppm	0.5031 ppm	5.2739 ppm	0.5198 ppm
Concentration per Run 3	0.4808 ppm	0.5112 ppm	0.5210 ppm	0.4922 ppm	0.5087 ppm	5.3145 ppm	0.5171 ppm
Recovery Percentage 1	97.116 %	102.867 %	103.698 %	98.832 %	101.027 %	104.354 %	103.518 %
Concentration RSD	1.2 %	0.8 %	0.4 %	0.5 %	0.6 %	2.6 %	0.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5117 ppm	0.4949 ppm	9.8925 ppm	0.4815 ppm	0.4894 ppm	0.4835 ppm	0.4994 ppm
Concentration per Run 1	0.5100 ppm	0.4934 ppm	9.5914 ppm	0.4806 ppm	0.4897 ppm	0.4837 ppm	0.5031 ppm
Concentration per Run 2	0.5117 ppm	0.4983 ppm	9.9820 ppm	0.4843 ppm	0.4902 ppm	0.4832 ppm	0.4942 ppm
Concentration per Run 3	0.5135 ppm	0.4929 ppm	10.1040 ppm	0.4794 ppm	0.4884 ppm	0.4836 ppm	0.5009 ppm
Recovery Percentage 1	102.348 %	98.974 %	98.925 %	96.291 %	97.879 %	96.695 %	99.880 %
Concentration RSD	0.3 %	0.6 %	2.7 %	0.5 %	0.2 %	0.1 %	0.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	5.2393 ppm	0.4698 ppm	0.5190 ppm	0.5132 ppm	0.4890 ppm	0.5090 ppm	0.5080 ppm
Concentration per Run 1	5.2338 ppm	0.4696 ppm	0.5130 ppm	0.5119 ppm	0.4886 ppm	0.5079 ppm	0.5085 ppm
Concentration per Run 2	5.2401 ppm	0.4714 ppm	0.5206 ppm	0.5139 ppm	0.4886 ppm	0.5098 ppm	0.5116 ppm
Concentration per Run 3	5.2441 ppm	0.4683 ppm	0.5232 ppm	0.5136 ppm	0.4900 ppm	0.5093 ppm	0.5038 ppm
Recovery Percentage 1	99.797 %	93.959 %	103.791 %	102.631 %	97.807 %	101.803 %	101.594 %
Concentration RSD	0.1 %	0.3 %	1.0 %	0.2 %	0.2 %	0.2 %	0.8 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.2258 %	99.1139 %	97.1446 %	101.0405 %	91.1181 %	97.9945 %	0.5185 ppm
Concentration per Run 1	100.9727 %	99.4179 %	96.9701 %	101.6363 %	91.3830 %	98.2107 %	0.5020 ppm
Concentration per Run 2	100.1347 %	98.9561 %	97.7764 %	100.8782 %	91.0792 %	97.7997 %	0.5224 ppm
Concentration per Run 3	99.5701 %	98.9676 %	96.6873 %	100.6069 %	90.8920 %	97.9730 %	0.5310 ppm
Recovery Percentage 1							103.696 %
Concentration RSD	0.7 %	0.3 %	0.6 %	0.5 %	0.3 %	0.2 %	2.9 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 9:46:50 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	-0.0001 ppm	-0.0007 ppm	-0.0002 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	-0.0023 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	0.0012 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	-0.0046 ppm
Concentration per Run 2	-0.0001 ppm	-0.0030 ppm	-0.0010 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 3	-0.0001 ppm	0.0013 ppm	-0.0007 ppm	0.0020 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm
Recovery Percentage 1	-1.275 %	-0.748 %	-3.455 %	6.245 %	0.108 %	0.368 %	-2.297 %
Concentration RSD	79.8 %	288.7 %	681.1 %	5.7 %	92.1 %	105.8 %	85.3 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0092 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0142 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0096 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0039 ppm	-0.0006 ppm
Recovery Percentage 1	-0.081 %	-0.002 %	-0.788 %	2.947 %	-0.321 %	0.369 %	-0.067 %
Concentration RSD	646.3 %	2,524.8 %	74.1 %	48.6 %	112.4 %	56.2 %	1,106.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0011 ppm	0.0046 ppm	0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	0.0024 ppm	0.0001 ppm	-0.0003 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.0011 ppm	0.0062 ppm	0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0011 ppm	0.0051 ppm	0.0000 ppm	0.0003 ppm	0.0007 ppm	0.0014 ppm
Recovery Percentage 1	-0.146 %	2.297 %	0.229 %	0.249 %	0.049 %	1.657 %	6.447 %
Concentration RSD	960.7 %	5.6 %	43.0 %	81.5 %	6,586.7 %	15.6 %	101.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	-0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0003 ppm	0.0011 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	-0.028 %	1.277 %	-0.059 %	0.892 %	1.221 %	0.822 %	-1.034 %
Concentration RSD	125.5 %	72.0 %	344.7 %	13.0 %	163.6 %	78.4 %	117.7 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.4352 %	101.1926 %	98.5303 %	99.3809 %	98.1565 %	98.4089 %	0.0001 ppm
Concentration per Run 1	102.4923 %	100.9179 %	98.7573 %	99.7837 %	97.9662 %	98.3057 %	-0.0002 ppm
Concentration per Run 2	100.7341 %	101.4878 %	98.2745 %	99.1809 %	98.3467 %	98.6425 %	0.0001 ppm
Concentration per Run 3	101.0791 %	101.1720 %	98.5590 %	99.1779 %	98.1565 %	98.2786 %	0.0004 ppm
Recovery Percentage 1							1.099 %
Concentration RSD	0.9 %	0.3 %	0.2 %	0.4 %	0.2 %	0.2 %	284.1 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538013-02 WG2082870

Analysis started at: 6/26/2025 10:10:55 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	0.0000 ppm	0.0068 ppm	-0.0001 ppm	0.0206 ppm	0.0286 ppm	0.0000 ppm	12.1229 ppm
Concentration per Run 1	-0.0001 ppm	0.0057 ppm	-0.0004 ppm	0.0212 ppm	0.0286 ppm	0.0000 ppm	12.1939 ppm
Concentration per Run 2	-0.0001 ppm	0.0082 ppm	-0.0005 ppm	0.0209 ppm	0.0286 ppm	0.0000 ppm	12.1161 ppm
Concentration per Run 3	0.0001 ppm	0.0064 ppm	0.0006 ppm	0.0196 ppm	0.0286 ppm	0.0000 ppm	12.0588 ppm
Concentration RSD	407.8 %	19.0 %	487.1 %	4.2 %	0.1 %	90.1 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0014 ppm	0.0009 ppm	0.0043 ppm	1.2680 ppm	5.3546 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0013 ppm	0.0011 ppm	0.0049 ppm	1.2563 ppm	5.5083 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0014 ppm	0.0010 ppm	0.0042 ppm	1.2937 ppm	5.4823 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	0.0014 ppm	0.0006 ppm	0.0037 ppm	1.2538 ppm	5.0733 ppm
Concentration RSD	21.3 %	19.1 %	3.7 %	29.9 %	13.8 %	1.8 %	4.6 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0004 ppm	16.5023 ppm	0.0003 ppm	-0.0014 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 1	0.0004 ppm	0.0004 ppm	16.3108 ppm	0.0003 ppm	-0.0016 ppm	-0.0003 ppm	-0.0007 ppm
Concentration per Run 2	0.0005 ppm	0.0004 ppm	16.7090 ppm	0.0003 ppm	-0.0012 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	16.4871 ppm	0.0003 ppm	-0.0013 ppm	0.0012 ppm	0.0002 ppm
Concentration RSD	13.4 %	28.9 %	1.2 %	10.0 %	14.7 %	220.2 %	391.0 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	7.8901 ppm	0.0001 ppm	0.0630 ppm	0.0000 ppm	-0.0010 ppm	0.0002 ppm	0.0029 ppm
Concentration per Run 1	7.9165 ppm	0.0001 ppm	0.0629 ppm	-0.0001 ppm	-0.0012 ppm	0.0001 ppm	0.0028 ppm
Concentration per Run 2	7.8939 ppm	-0.0003 ppm	0.0629 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0029 ppm
Concentration per Run 3	7.8600 ppm	0.0006 ppm	0.0631 ppm	0.0002 ppm	-0.0015 ppm	0.0002 ppm	0.0029 ppm
Concentration RSD	0.4 %	311.2 %	0.1 %	1,960.5 %	67.8 %	54.1 %	2.0 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.5479 %	100.5140 %	95.4319 %	98.6436 %	90.2802 %	98.1965 %	0.0015 ppm
Concentration per Run 1	102.5060 %	98.3988 %	95.4071 %	98.5466 %	90.2238 %	95.9248 %	0.0016 ppm
Concentration per Run 2	101.1131 %	98.0956 %	94.8394 %	98.6389 %	90.1271 %	95.9298 %	0.0014 ppm
Concentration per Run 3	101.0245 %	105.0476 %	96.0493 %	98.7453 %	90.4897 %	102.7349 %	0.0014 ppm
Concentration RSD	0.8 %	3.9 %	0.6 %	0.1 %	0.2 %	4.0 %	9.1 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538013-03 WG2082870

Analysis started at: 6/26/2025 10:17:31 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	0.0000 ppm	0.0064 ppm	0.0005 ppm	0.0205 ppm	0.0278 ppm	0.0000 ppm	11.5948 ppm
Concentration per Run 1	-0.0001 ppm	0.0058 ppm	0.0011 ppm	0.0202 ppm	0.0278 ppm	0.0000 ppm	11.6180 ppm
Concentration per Run 2	0.0001 ppm	0.0067 ppm	0.0008 ppm	0.0209 ppm	0.0280 ppm	0.0000 ppm	11.5986 ppm
Concentration per Run 3	-0.0001 ppm	0.0066 ppm	-0.0003 ppm	0.0205 ppm	0.0277 ppm	0.0000 ppm	11.5678 ppm
Concentration RSD	212.8 %	8.0 %	136.4 %	1.7 %	0.5 %	102.5 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0014 ppm	0.0011 ppm	0.0035 ppm	1.2618 ppm	5.2778 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0013 ppm	0.0011 ppm	0.0034 ppm	1.2808 ppm	5.3056 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	0.0010 ppm	0.0009 ppm	0.0035 ppm	1.2794 ppm	5.2537 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0018 ppm	0.0012 ppm	0.0037 ppm	1.2251 ppm	5.2742 ppm
Concentration RSD	27.7 %	35.4 %	30.1 %	14.5 %	5.0 %	2.5 %	0.5 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0003 ppm	16.3958 ppm	0.0002 ppm	-0.0013 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 1	0.0004 ppm	0.0003 ppm	16.5461 ppm	0.0002 ppm	-0.0015 ppm	0.0004 ppm	-0.0007 ppm
Concentration per Run 2	0.0005 ppm	0.0003 ppm	16.6123 ppm	0.0000 ppm	-0.0009 ppm	-0.0002 ppm	0.0022 ppm
Concentration per Run 3	0.0004 ppm	0.0004 ppm	16.0289 ppm	0.0004 ppm	-0.0013 ppm	-0.0003 ppm	0.0014 ppm
Concentration RSD	12.1 %	18.9 %	1.9 %	96.3 %	23.5 %	843.5 %	155.3 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	7.6232 ppm	0.0000 ppm	0.0615 ppm	0.0001 ppm	-0.0009 ppm	0.0002 ppm	0.0023 ppm
Concentration per Run 1	7.6198 ppm	0.0005 ppm	0.0615 ppm	0.0000 ppm	-0.0010 ppm	0.0004 ppm	0.0023 ppm
Concentration per Run 2	7.6237 ppm	-0.0002 ppm	0.0616 ppm	0.0000 ppm	-0.0015 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 3	7.6262 ppm	-0.0002 ppm	0.0613 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0023 ppm
Concentration RSD	0.0 %	1,327.0 %	0.3 %	181.9 %	76.0 %	66.0 %	1.0 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.9114 %	97.7318 %	94.8193 %	98.6664 %	90.2592 %	95.7424 %	0.0016 ppm
Concentration per Run 1	103.0400 %	97.8582 %	94.9729 %	98.7270 %	90.5435 %	95.6335 %	0.0015 ppm
Concentration per Run 2	101.3540 %	97.8741 %	94.6269 %	98.3853 %	89.8921 %	95.9160 %	0.0017 ppm
Concentration per Run 3	101.3402 %	97.4630 %	94.8581 %	98.8869 %	90.3419 %	95.6776 %	0.0017 ppm
Concentration RSD	1.0 %	0.2 %	0.2 %	0.3 %	0.4 %	0.2 %	5.6 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538013-04 WG2082870

Analysis started at: 6/26/2025 10:24:04 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	0.0073 ppm	-0.0003 ppm	0.0237 ppm	0.0181 ppm	0.0000 ppm	24.4533 ppm
Concentration per Run 1	-0.0002 ppm	0.0078 ppm	0.0004 ppm	0.0235 ppm	0.0179 ppm	0.0000 ppm	24.9220 ppm
Concentration per Run 2	-0.0002 ppm	0.0057 ppm	-0.0012 ppm	0.0237 ppm	0.0182 ppm	0.0000 ppm	24.2667 ppm
Concentration per Run 3	-0.0001 ppm	0.0085 ppm	0.0000 ppm	0.0239 ppm	0.0180 ppm	0.0000 ppm	24.1711 ppm
Concentration RSD	59.3 %	19.6 %	321.3 %	0.8 %	1.0 %	118.6 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0012 ppm	0.0032 ppm	1.6502 ppm	6.9781 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0013 ppm	0.0032 ppm	1.5939 ppm	7.0259 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0010 ppm	0.0037 ppm	1.6889 ppm	6.9674 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0013 ppm	0.0027 ppm	1.6678 ppm	6.9411 ppm
Concentration RSD	58.3 %	50.7 %	22.5 %	13.9 %	15.3 %	3.0 %	0.6 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0005 ppm	15.0190 ppm	-0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0013 ppm
Concentration per Run 1	0.0004 ppm	0.0006 ppm	14.4588 ppm	-0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0014 ppm
Concentration per Run 2	0.0004 ppm	0.0006 ppm	15.3760 ppm	-0.0001 ppm	-0.0007 ppm	0.0008 ppm	0.0013 ppm
Concentration per Run 3	0.0004 ppm	0.0004 ppm	15.2223 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0012 ppm
Concentration RSD	3.9 %	20.2 %	3.3 %	7.5 %	168.6 %	121.0 %	9.0 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	2.6695 ppm	0.0001 ppm	0.0916 ppm	0.0001 ppm	-0.0009 ppm	0.0003 ppm	0.0012 ppm
Concentration per Run 1	2.6719 ppm	0.0004 ppm	0.0910 ppm	0.0002 ppm	-0.0019 ppm	0.0004 ppm	0.0012 ppm
Concentration per Run 2	2.6509 ppm	-0.0002 ppm	0.0922 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0012 ppm
Concentration per Run 3	2.6858 ppm	0.0000 ppm	0.0916 ppm	0.0001 ppm	-0.0011 ppm	0.0002 ppm	0.0012 ppm
Concentration RSD	0.7 %	430.5 %	0.6 %	62.3 %	109.2 %	31.4 %	2.3 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.9726 %	95.8048 %	92.7345 %	97.9264 %	87.9004 %	93.9982 %	0.0002 ppm
Concentration per Run 1	101.5070 %	95.8460 %	92.3678 %	97.4949 %	87.5594 %	93.9894 %	0.0000 ppm
Concentration per Run 2	100.6374 %	95.8049 %	93.4792 %	97.8814 %	88.3637 %	94.0551 %	0.0000 ppm
Concentration per Run 3	100.7735 %	95.7635 %	92.3567 %	98.4030 %	87.7781 %	93.9501 %	0.0005 ppm
Concentration RSD	0.5 %	0.0 %	0.7 %	0.5 %	0.5 %	0.1 %	182.3 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538013-05 WG2082870

Analysis started at: 6/26/2025 10:30:38 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	-0.0002 ppm	0.0069 ppm	-0.0011 ppm	0.0953 ppm	0.0152 ppm	0.0000 ppm	18.9389 ppm
Concentration per Run 1	-0.0001 ppm	0.0057 ppm	-0.0019 ppm	0.0959 ppm	0.0152 ppm	0.0000 ppm	18.8476 ppm
Concentration per Run 2	-0.0002 ppm	0.0044 ppm	-0.0001 ppm	0.0955 ppm	0.0152 ppm	0.0000 ppm	19.0894 ppm
Concentration per Run 3	-0.0003 ppm	0.0104 ppm	-0.0012 ppm	0.0945 ppm	0.0152 ppm	0.0000 ppm	18.8796 ppm
Concentration RSD	54.0 %	46.0 %	83.9 %	0.7 %	0.2 %	155.1 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0004 ppm	0.0020 ppm	0.0013 ppm	0.0030 ppm	1.5803 ppm	9.1996 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	0.0019 ppm	0.0014 ppm	0.0035 ppm	1.5935 ppm	9.2273 ppm
Concentration per Run 2	0.0003 ppm	-0.0005 ppm	0.0020 ppm	0.0013 ppm	0.0029 ppm	1.5772 ppm	9.2329 ppm
Concentration per Run 3	0.0002 ppm	-0.0004 ppm	0.0021 ppm	0.0012 ppm	0.0025 ppm	1.5703 ppm	9.1387 ppm
Concentration RSD	20.9 %	26.9 %	5.3 %	7.1 %	16.5 %	0.8 %	0.6 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0020 ppm	0.0002 ppm	14.4425 ppm	0.0000 ppm	-0.0014 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 1	0.0019 ppm	0.0002 ppm	14.5305 ppm	0.0002 ppm	-0.0010 ppm	-0.0002 ppm	-0.0008 ppm
Concentration per Run 2	0.0021 ppm	0.0001 ppm	14.4025 ppm	0.0000 ppm	-0.0016 ppm	-0.0002 ppm	-0.0019 ppm
Concentration per Run 3	0.0020 ppm	0.0003 ppm	14.3946 ppm	-0.0002 ppm	-0.0017 ppm	0.0007 ppm	-0.0008 ppm
Concentration RSD	5.1 %	33.9 %	0.5 %	1,119.4 %	26.0 %	358.4 %	54.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	9.7773 ppm	0.0002 ppm	0.0974 ppm	0.0002 ppm	-0.0007 ppm	0.0013 ppm	0.0038 ppm
Concentration per Run 1	9.7636 ppm	0.0002 ppm	0.0976 ppm	0.0001 ppm	-0.0021 ppm	0.0014 ppm	0.0037 ppm
Concentration per Run 2	9.7786 ppm	0.0001 ppm	0.0972 ppm	0.0003 ppm	0.0004 ppm	0.0012 ppm	0.0040 ppm
Concentration per Run 3	9.7897 ppm	0.0002 ppm	0.0973 ppm	0.0001 ppm	-0.0003 ppm	0.0012 ppm	0.0037 ppm
Concentration RSD	0.1 %	18.4 %	0.2 %	59.1 %	183.1 %	6.1 %	5.0 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.2468 %	96.0451 %	92.6245 %	97.8774 %	88.0487 %	93.7375 %	0.0025 ppm
Concentration per Run 1	103.0039 %	95.9714 %	92.8724 %	98.2540 %	88.2727 %	93.5489 %	0.0024 ppm
Concentration per Run 2	100.3667 %	95.6364 %	92.6330 %	97.5291 %	87.9606 %	93.3176 %	0.0028 ppm
Concentration per Run 3	100.3699 %	96.5274 %	92.3682 %	97.8491 %	87.9127 %	94.3461 %	0.0023 ppm
Concentration RSD	1.5 %	0.5 %	0.3 %	0.4 %	0.2 %	0.6 %	9.9 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538013-06 WG2082870

Analysis started at: 6/26/2025 10:37:11 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	-0.0003 ppm	0.0068 ppm	-0.0006 ppm	0.1015 ppm	0.0717 ppm	0.0000 ppm	76.6811 ppm
Concentration per Run 1	-0.0002 ppm	0.0080 ppm	-0.0003 ppm	0.1011 ppm	0.0715 ppm	0.0000 ppm	76.3713 ppm
Concentration per Run 2	-0.0002 ppm	0.0035 ppm	-0.0006 ppm	0.1018 ppm	0.0719 ppm	0.0000 ppm	76.6905 ppm
Concentration per Run 3	-0.0005 ppm	0.0090 ppm	-0.0010 ppm	0.1016 ppm	0.0716 ppm	0.0000 ppm	76.9816 ppm
Concentration RSD	57.7 %	43.0 %	49.1 %	0.4 %	0.3 %	795.6 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0039 ppm	0.0035 ppm	8.1980 ppm	12.0298 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0037 ppm	0.0034 ppm	8.1255 ppm	12.0201 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0038 ppm	0.0037 ppm	8.2364 ppm	12.0078 ppm
Concentration per Run 3	0.0002 ppm	-0.0001 ppm	0.0005 ppm	0.0041 ppm	0.0033 ppm	8.2323 ppm	12.0616 ppm
Concentration RSD	32.6 %	51.5 %	129.1 %	5.5 %	6.0 %	0.8 %	0.2 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0815 ppm	0.0018 ppm	13.1458 ppm	0.0000 ppm	-0.0010 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 1	0.0815 ppm	0.0019 ppm	13.0274 ppm	0.0000 ppm	-0.0005 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 2	0.0813 ppm	0.0017 ppm	13.2171 ppm	-0.0001 ppm	-0.0007 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 3	0.0819 ppm	0.0017 ppm	13.1930 ppm	0.0001 ppm	-0.0017 ppm	0.0000 ppm	0.0005 ppm
Concentration RSD	0.4 %	4.2 %	0.8 %	1,867.6 %	65.8 %	115.3 %	80.8 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	5.4415 ppm	-0.0005 ppm	0.4866 ppm	0.0001 ppm	-0.0011 ppm	0.0006 ppm	0.0024 ppm
Concentration per Run 1	5.4624 ppm	-0.0002 ppm	0.4852 ppm	0.0001 ppm	-0.0013 ppm	0.0005 ppm	0.0024 ppm
Concentration per Run 2	5.4253 ppm	-0.0007 ppm	0.4873 ppm	0.0004 ppm	-0.0015 ppm	0.0006 ppm	0.0023 ppm
Concentration per Run 3	5.4368 ppm	-0.0006 ppm	0.4873 ppm	-0.0001 ppm	-0.0007 ppm	0.0006 ppm	0.0025 ppm
Concentration RSD	0.3 %	47.1 %	0.2 %	140.4 %	37.3 %	7.3 %	3.4 %

	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)	Li 670.784 {50} (Radial)
Concentration average	99.7223 %	91.9396 %	88.2918 %	96.5084 %	81.8640 %	90.0003 %	0.0001 ppm
Concentration per Run 1	100.8979 %	92.4100 %	88.2106 %	96.8175 %	81.3646 %	90.3690 %	0.0002 ppm
Concentration per Run 2	99.3651 %	91.6421 %	89.0092 %	96.4911 %	82.3033 %	89.7581 %	0.0000 ppm
Concentration per Run 3	98.9039 %	91.7668 %	87.6557 %	96.2165 %	81.9240 %	89.8738 %	0.0000 ppm
Concentration RSD	1.0 %	0.4 %	0.8 %	0.3 %	0.6 %	0.4 %	213.5 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538013-07 WG2082870
 Analysis started at: 6/26/2025 10:43:44 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	0.0000 ppm	0.0729 ppm	0.0002 ppm	0.0152 ppm	0.0121 ppm	0.0000 ppm	12.9429 ppm
Concentration per Run 1	0.0002 ppm	0.0746 ppm	-0.0008 ppm	0.0154 ppm	0.0121 ppm	0.0000 ppm	13.0733 ppm
Concentration per Run 2	-0.0001 ppm	0.0729 ppm	0.0013 ppm	0.0152 ppm	0.0122 ppm	0.0000 ppm	12.9519 ppm
Concentration per Run 3	0.0000 ppm	0.0713 ppm	0.0000 ppm	0.0151 ppm	0.0121 ppm	0.0001 ppm	12.8036 ppm
Concentration RSD	554.6 %	2.3 %	581.4 %	0.9 %	0.3 %	49.3 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0025 ppm	0.0014 ppm	0.1002 ppm	1.2557 ppm	6.1459 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0025 ppm	0.0015 ppm	0.1017 ppm	1.2213 ppm	6.1650 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0020 ppm	0.0012 ppm	0.0990 ppm	1.2767 ppm	6.1360 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0029 ppm	0.0016 ppm	0.0999 ppm	1.2690 ppm	6.1367 ppm
Concentration RSD	7.0 %	43.3 %	18.3 %	12.3 %	1.4 %	2.4 %	0.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0057 ppm	0.0003 ppm	17.9828 ppm	0.0001 ppm	-0.0012 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	0.0057 ppm	0.0002 ppm	17.5402 ppm	0.0001 ppm	-0.0012 ppm	0.0005 ppm	-0.0007 ppm
Concentration per Run 2	0.0057 ppm	0.0003 ppm	18.2040 ppm	0.0002 ppm	-0.0009 ppm	0.0009 ppm	0.0006 ppm
Concentration per Run 3	0.0056 ppm	0.0004 ppm	18.2042 ppm	-0.0001 ppm	-0.0014 ppm	0.0005 ppm	0.0010 ppm
Concentration RSD	0.8 %	25.1 %	2.1 %	311.9 %	23.2 %	34.1 %	264.4 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	7.1300 ppm	-0.0001 ppm	0.0668 ppm	0.0021 ppm	-0.0001 ppm	0.0005 ppm	0.0023 ppm
Concentration per Run 1	7.1293 ppm	-0.0001 ppm	0.0664 ppm	0.0021 ppm	-0.0012 ppm	0.0006 ppm	0.0025 ppm
Concentration per Run 2	7.1120 ppm	-0.0005 ppm	0.0668 ppm	0.0020 ppm	0.0009 ppm	0.0006 ppm	0.0023 ppm
Concentration per Run 3	7.1487 ppm	0.0003 ppm	0.0671 ppm	0.0022 ppm	0.0000 ppm	0.0004 ppm	0.0021 ppm
Concentration RSD	0.3 %	424.0 %	0.5 %	5.5 %	842.8 %	20.7 %	8.9 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.5487 %	96.6550 %	94.1231 %	98.3909 %	89.6576 %	94.6857 %	0.0026 ppm
Concentration per Run 1	102.1367 %	96.3317 %	94.5253 %	97.9668 %	89.8859 %	94.2111 %	0.0026 ppm
Concentration per Run 2	101.1323 %	96.9992 %	94.8156 %	98.3887 %	89.9816 %	95.1633 %	0.0024 ppm
Concentration per Run 3	101.3771 %	96.6340 %	93.0284 %	98.8173 %	89.1052 %	94.6829 %	0.0027 ppm
Concentration RSD	0.5 %	0.3 %	1.0 %	0.4 %	0.5 %	0.5 %	6.2 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
 Analysis started at: 6/26/2025 10:50:18 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	0.5031 ppm	0.4922 ppm	0.4643 ppm	0.5016 ppm	0.4859 ppm	0.4927 ppm	0.5073 ppm
Concentration per Run 1	0.5042 ppm	0.4802 ppm	0.4637 ppm	0.5031 ppm	0.4747 ppm	0.4801 ppm	0.4898 ppm
Concentration per Run 2	0.5031 ppm	0.4959 ppm	0.4627 ppm	0.5004 ppm	0.4897 ppm	0.4973 ppm	0.5116 ppm
Concentration per Run 3	0.5021 ppm	0.5006 ppm	0.4664 ppm	0.5012 ppm	0.4933 ppm	0.5008 ppm	0.5206 ppm
Recovery Percentage 1	100.626 %	98.447 %	92.851 %	100.311 %	97.187 %	98.548 %	101.467 %
Concentration RSD	0.2 %	2.2 %	0.4 %	0.3 %	2.0 %	2.3 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.4761 ppm	0.5108 ppm	0.5162 ppm	0.4928 ppm	0.4923 ppm	5.1903 ppm	0.5123 ppm
Concentration per Run 1	0.4764 ppm	0.5121 ppm	0.5177 ppm	0.4934 ppm	0.4773 ppm	5.1559 ppm	0.5127 ppm
Concentration per Run 2	0.4750 ppm	0.5090 ppm	0.5155 ppm	0.4923 ppm	0.4997 ppm	5.1788 ppm	0.5126 ppm
Concentration per Run 3	0.4769 ppm	0.5113 ppm	0.5153 ppm	0.4926 ppm	0.4998 ppm	5.2362 ppm	0.5116 ppm
Recovery Percentage 1	95.228 %	102.162 %	103.232 %	98.559 %	98.457 %	103.806 %	102.463 %
Concentration RSD	0.2 %	0.3 %	0.3 %	0.1 %	2.6 %	0.8 %	0.1 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5038 ppm	0.4879 ppm	9.8188 ppm	0.4749 ppm	0.4850 ppm	0.4805 ppm	0.4999 ppm
Concentration per Run 1	0.4903 ppm	0.4885 ppm	9.7205 ppm	0.4745 ppm	0.4842 ppm	0.4794 ppm	0.4992 ppm
Concentration per Run 2	0.5090 ppm	0.4867 ppm	9.8321 ppm	0.4735 ppm	0.4843 ppm	0.4800 ppm	0.4996 ppm
Concentration per Run 3	0.5122 ppm	0.4886 ppm	9.9039 ppm	0.4767 ppm	0.4866 ppm	0.4822 ppm	0.5008 ppm
Recovery Percentage 1	100.763 %	97.583 %	98.188 %	94.983 %	97.006 %	96.110 %	99.979 %
Concentration RSD	2.4 %	0.2 %	0.9 %	0.3 %	0.3 %	0.3 %	0.2 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	5.2227 ppm	0.4614 ppm	0.5180 ppm	0.5069 ppm	0.4841 ppm	0.5000 ppm	0.5064 ppm
Concentration per Run 1	5.2244 ppm	0.4595 ppm	0.5061 ppm	0.5093 ppm	0.4813 ppm	0.5012 ppm	0.5054 ppm
Concentration per Run 2	5.2126 ppm	0.4614 ppm	0.5224 ppm	0.5048 ppm	0.4856 ppm	0.4990 ppm	0.5068 ppm
Concentration per Run 3	5.2310 ppm	0.4634 ppm	0.5256 ppm	0.5065 ppm	0.4853 ppm	0.4998 ppm	0.5069 ppm
Recovery Percentage 1	99.479 %	92.284 %	103.603 %	101.378 %	96.815 %	100.002 %	101.277 %
Concentration RSD	0.2 %	0.4 %	2.0 %	0.4 %	0.5 %	0.2 %	0.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.9995 %	98.2659 %	96.1419 %	101.6191 %	90.6231 %	97.5747 %	0.5124 ppm
Concentration per Run 1	103.3270 %	97.9067 %	96.1677 %	104.1584 %	90.6557 %	97.3174 %	0.5074 ppm
Concentration per Run 2	100.1980 %	98.7283 %	96.2513 %	100.9004 %	90.9026 %	97.9467 %	0.5130 ppm
Concentration per Run 3	99.4734 %	98.1627 %	96.0068 %	99.7984 %	90.3111 %	97.4599 %	0.5166 ppm
Recovery Percentage 1							102.471 %
Concentration RSD	2.0 %	0.4 %	0.1 %	2.2 %	0.3 %	0.3 %	0.9 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
 Analysis started at: 6/26/2025 10:56:37 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	0.0019 ppm	-0.0019 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	-0.0023 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0013 ppm	-0.0006 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0042 ppm	-0.0027 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm
Recovery Percentage 1	-1.231 %	1.874 %	-37.936 %	3.498 %	0.201 %	0.192 %	-0.781 %
Concentration RSD	117.6 %	113.5 %	58.7 %	9.3 %	85.6 %	179.7 %	122.8 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0004 ppm	-0.0049 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	-0.0060 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0011 ppm	-0.0036 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	-0.0050 ppm	0.0005 ppm
Recovery Percentage 1	-0.645 %	-0.155 %	0.472 %	3.842 %	0.899 %	-0.194 %	0.350 %
Concentration RSD	36.0 %	331.3 %	221.2 %	9.5 %	133.1 %	24.5 %	210.8 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0007 ppm	0.0032 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0007 ppm	0.0018 ppm	0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0014 ppm
Concentration per Run 2	0.0001 ppm	0.0007 ppm	0.0059 ppm	0.0001 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	0.0018 ppm	0.0003 ppm	0.0001 ppm	-0.0003 ppm	0.0012 ppm
Recovery Percentage 1	1.083 %	1.366 %	0.159 %	0.650 %	0.909 %	0.129 %	7.316 %
Concentration RSD	8.1 %	5.8 %	75.4 %	46.7 %	130.7 %	1,098.3 %	124.5 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0004 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	-0.0005 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm
Recovery Percentage 1	-0.008 %	0.661 %	-0.085 %	0.975 %	1.227 %	1.357 %	-1.249 %
Concentration RSD	995.3 %	107.8 %	47.9 %	154.1 %	290.9 %	141.4 %	190.0 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.5272 %	100.9209 %	97.8478 %	99.6427 %	98.5414 %	99.0220 %	0.0001 ppm
Concentration per Run 1	103.1438 %	101.1196 %	97.4737 %	100.6157 %	98.1199 %	99.1329 %	-0.0004 ppm
Concentration per Run 2	100.6611 %	100.5619 %	98.6408 %	98.9964 %	98.6477 %	98.5994 %	0.0004 ppm
Concentration per Run 3	100.7768 %	101.0812 %	97.4291 %	99.3159 %	98.8566 %	99.3336 %	0.0002 ppm
Recovery Percentage 1							0.548 %
Concentration RSD	1.4 %	0.3 %	0.7 %	0.9 %	0.4 %	0.4 %	676.3 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083757-1 WG2083757

Analysis started at: 6/26/2025 11:53:52 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	-0.0001 ppm	0.0050 ppm	-0.0010 ppm	0.0054 ppm	0.0002 ppm	0.0000 ppm	0.0322 ppm
Concentration per Run 1	-0.0001 ppm	0.0048 ppm	-0.0013 ppm	0.0053 ppm	0.0002 ppm	0.0000 ppm	0.0288 ppm
Concentration per Run 2	-0.0001 ppm	0.0055 ppm	-0.0011 ppm	0.0056 ppm	0.0003 ppm	0.0000 ppm	0.0321 ppm
Concentration per Run 3	-0.0001 ppm	0.0048 ppm	-0.0007 ppm	0.0053 ppm	0.0003 ppm	0.0000 ppm	0.0358 ppm
Concentration RSD	44.6 %	8.3 %	29.2 %	3.0 %	6.3 %	173.8 %	10.8 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0005 ppm	0.0005 ppm	0.0013 ppm	0.0063 ppm	0.0246 ppm	0.0055 ppm
Concentration per Run 1	0.0002 ppm	-0.0004 ppm	0.0004 ppm	0.0012 ppm	0.0052 ppm	0.0208 ppm	0.0068 ppm
Concentration per Run 2	0.0002 ppm	-0.0006 ppm	0.0003 ppm	0.0014 ppm	0.0068 ppm	0.0242 ppm	0.0059 ppm
Concentration per Run 3	0.0002 ppm	-0.0005 ppm	0.0008 ppm	0.0013 ppm	0.0069 ppm	0.0289 ppm	0.0039 ppm
Concentration RSD	7.0 %	22.0 %	53.4 %	9.1 %	14.4 %	16.4 %	26.5 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0003 ppm	114.9854 ppm	-0.0007 ppm	-0.0018 ppm	0.0011 ppm	0.0034 ppm
Concentration per Run 1	0.0004 ppm	0.0000 ppm	104.8686 ppm	-0.0008 ppm	-0.0022 ppm	0.0012 ppm	0.0043 ppm
Concentration per Run 2	0.0006 ppm	0.0004 ppm	117.9002 ppm	-0.0006 ppm	-0.0016 ppm	0.0012 ppm	0.0030 ppm
Concentration per Run 3	0.0006 ppm	0.0004 ppm	122.1874 ppm	-0.0006 ppm	-0.0015 ppm	0.0010 ppm	0.0030 ppm
Concentration RSD	28.8 %	76.1 %	7.8 %	17.7 %	23.3 %	10.3 %	23.2 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0553 ppm	0.0020 ppm	0.0001 ppm	-0.0002 ppm	-0.0066 ppm	-0.0001 ppm	0.0015 ppm
Concentration per Run 1	0.0541 ppm	0.0019 ppm	0.0001 ppm	0.0000 ppm	-0.0067 ppm	-0.0002 ppm	0.0014 ppm
Concentration per Run 2	0.0567 ppm	0.0019 ppm	0.0001 ppm	-0.0003 ppm	-0.0054 ppm	-0.0002 ppm	0.0016 ppm
Concentration per Run 3	0.0549 ppm	0.0020 ppm	0.0001 ppm	-0.0002 ppm	-0.0078 ppm	0.0000 ppm	0.0015 ppm
Concentration RSD	2.4 %	2.9 %	39.6 %	108.4 %	17.9 %	106.9 %	5.3 %

	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)	Li 670.784 {50} (Radial)
Concentration average	96.7275 %	90.5580 %	90.1785 %	111.0633 %	74.9172 %	92.4556 %	0.0000 ppm
Concentration per Run 1	98.6568 %	90.6186 %	90.2945 %	119.0697 %	75.0931 %	92.9249 %	0.0001 ppm
Concentration per Run 2	96.2746 %	90.6690 %	90.3682 %	109.3031 %	75.1988 %	92.3988 %	0.0000 ppm
Concentration per Run 3	95.2512 %	90.3866 %	89.8728 %	104.8172 %	74.4596 %	92.0431 %	0.0001 ppm
Concentration RSD	1.8 %	0.2 %	0.3 %	6.6 %	0.5 %	0.5 %	129.4 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083757-2 WG2083757

Analysis started at: 6/26/2025 12:00:40 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	0.0524 ppm	2.1501 ppm	0.1072 ppm	0.9052 ppm	2.0869 ppm	0.0525 ppm	9.7003 ppm
Concentration per Run 1	0.0523 ppm	2.1045 ppm	0.1073 ppm	0.9025 ppm	2.0147 ppm	0.0509 ppm	9.3555 ppm
Concentration per Run 2	0.0526 ppm	2.1539 ppm	0.1060 ppm	0.9041 ppm	2.1094 ppm	0.0534 ppm	9.9118 ppm
Concentration per Run 3	0.0524 ppm	2.1918 ppm	0.1082 ppm	0.9089 ppm	2.1366 ppm	0.0533 ppm	9.8336 ppm
Concentration RSD	0.3 %	2.0 %	1.0 %	0.4 %	3.1 %	2.7 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0484 ppm	0.5222 ppm	0.2141 ppm	0.2614 ppm	1.0602 ppm	9.8087 ppm	9.3851 ppm
Concentration per Run 1	0.0482 ppm	0.5204 ppm	0.2133 ppm	0.2612 ppm	1.0345 ppm	9.8311 ppm	9.3658 ppm
Concentration per Run 2	0.0482 ppm	0.5204 ppm	0.2162 ppm	0.2606 ppm	1.0746 ppm	9.5991 ppm	9.4300 ppm
Concentration per Run 3	0.0489 ppm	0.5259 ppm	0.2129 ppm	0.2623 ppm	1.0716 ppm	9.9959 ppm	9.3597 ppm
Concentration RSD	0.9 %	0.6 %	0.8 %	0.3 %	2.1 %	2.0 %	0.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5228 ppm	0.9390 ppm	9.6427 ppm	0.5164 ppm	0.5000 ppm	0.4742 ppm	0.1095 ppm
Concentration per Run 1	0.5055 ppm	0.9362 ppm	9.6577 ppm	0.5160 ppm	0.4999 ppm	0.4743 ppm	0.1096 ppm
Concentration per Run 2	0.5325 ppm	0.9366 ppm	9.4480 ppm	0.5163 ppm	0.4990 ppm	0.4751 ppm	0.1073 ppm
Concentration per Run 3	0.5306 ppm	0.9443 ppm	9.8223 ppm	0.5169 ppm	0.5012 ppm	0.4734 ppm	0.1115 ppm
Concentration RSD	2.9 %	0.5 %	1.9 %	0.1 %	0.2 %	0.2 %	1.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	1.1856 ppm	0.9067 ppm	0.9670 ppm	0.9711 ppm	0.1060 ppm	0.5317 ppm	0.5202 ppm
Concentration per Run 1	1.1861 ppm	0.9057 ppm	0.9436 ppm	0.9687 ppm	0.1068 ppm	0.5309 ppm	0.5193 ppm
Concentration per Run 2	1.1866 ppm	0.9077 ppm	0.9747 ppm	0.9764 ppm	0.1065 ppm	0.5341 ppm	0.5183 ppm
Concentration per Run 3	1.1842 ppm	0.9068 ppm	0.9827 ppm	0.9682 ppm	0.1045 ppm	0.5301 ppm	0.5230 ppm
Concentration RSD	0.1 %	0.1 %	2.1 %	0.5 %	1.2 %	0.4 %	0.5 %

	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)	Li 670.784 {50} (Radial)
Concentration average	99.0815 %	96.4578 %	95.5019 %	100.6896 %	85.1725 %	96.4425 %	0.0002 ppm
Concentration per Run 1	101.1286 %	96.3834 %	95.0688 %	103.6654 %	85.0069 %	96.5041 %	0.0003 ppm
Concentration per Run 2	98.3658 %	96.4944 %	95.3622 %	99.4801 %	84.9650 %	96.4810 %	0.0002 ppm
Concentration per Run 3	97.7501 %	96.4956 %	96.0748 %	98.9233 %	85.5456 %	96.3425 %	0.0002 ppm
Concentration RSD	1.8 %	0.1 %	0.5 %	2.6 %	0.4 %	0.1 %	41.6 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-01 WG2083757

Analysis started at: 6/26/2025 12:07:07 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	0.0000 ppm	0.2859 ppm	0.0309 ppm	0.0381 ppm	0.0280 ppm	0.0000 ppm	13.0500 ppm
Concentration per Run 1	0.0000 ppm	0.2761 ppm	0.0326 ppm	0.0384 ppm	0.0273 ppm	0.0000 ppm	12.8296 ppm
Concentration per Run 2	0.0000 ppm	0.2860 ppm	0.0290 ppm	0.0381 ppm	0.0283 ppm	0.0000 ppm	13.1645 ppm
Concentration per Run 3	0.0001 ppm	0.2956 ppm	0.0311 ppm	0.0378 ppm	0.0284 ppm	0.0000 ppm	13.1559 ppm
Concentration RSD	168.4 %	3.4 %	5.7 %	0.8 %	2.2 %	49.1 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0050 ppm	-0.0004 ppm	0.0023 ppm	0.0040 ppm	0.1151 ppm	0.3777 ppm	3.1400 ppm
Concentration per Run 1	0.0050 ppm	-0.0003 ppm	0.0025 ppm	0.0041 ppm	0.1122 ppm	0.3530 ppm	3.1552 ppm
Concentration per Run 2	0.0051 ppm	-0.0005 ppm	0.0021 ppm	0.0040 ppm	0.1159 ppm	0.3880 ppm	3.1323 ppm
Concentration per Run 3	0.0050 ppm	-0.0003 ppm	0.0024 ppm	0.0039 ppm	0.1172 ppm	0.3922 ppm	3.1325 ppm
Concentration RSD	0.8 %	29.5 %	9.8 %	2.3 %	2.3 %	5.7 %	0.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0238 ppm	0.0013 ppm	132.8841 ppm	-0.0003 ppm	0.0134 ppm	0.0008 ppm	0.0040 ppm
Concentration per Run 1	0.0233 ppm	0.0013 ppm	132.1747 ppm	-0.0003 ppm	0.0130 ppm	0.0011 ppm	0.0044 ppm
Concentration per Run 2	0.0241 ppm	0.0012 ppm	134.8513 ppm	-0.0002 ppm	0.0137 ppm	0.0010 ppm	0.0038 ppm
Concentration per Run 3	0.0241 ppm	0.0013 ppm	131.6263 ppm	-0.0004 ppm	0.0135 ppm	0.0001 ppm	0.0038 ppm
Concentration RSD	1.9 %	4.6 %	1.3 %	43.3 %	2.6 %	72.6 %	8.3 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.7393 ppm	0.0022 ppm	0.1372 ppm	0.0095 ppm	-0.0065 ppm	0.0003 ppm	0.0087 ppm
Concentration per Run 1	0.7392 ppm	0.0020 ppm	0.1336 ppm	0.0095 ppm	-0.0060 ppm	0.0004 ppm	0.0088 ppm
Concentration per Run 2	0.7406 ppm	0.0022 ppm	0.1383 ppm	0.0097 ppm	-0.0072 ppm	0.0005 ppm	0.0087 ppm
Concentration per Run 3	0.7382 ppm	0.0022 ppm	0.1395 ppm	0.0091 ppm	-0.0064 ppm	0.0002 ppm	0.0088 ppm
Concentration RSD	0.2 %	5.4 %	2.3 %	3.1 %	9.2 %	45.6 %	0.7 %

	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)	Li 670.784 {50} (Radial)
Concentration average	96.9676 %	91.2920 %	90.8625 %	98.7401 %	74.2510 %	91.2833 %	0.0003 ppm
Concentration per Run 1	98.4149 %	91.2364 %	90.9083 %	100.6147 %	74.5076 %	91.2672 %	0.0001 ppm
Concentration per Run 2	96.3153 %	91.3429 %	90.9418 %	98.1272 %	74.0252 %	91.2915 %	0.0004 ppm
Concentration per Run 3	96.1727 %	91.2966 %	90.7376 %	97.4785 %	74.2201 %	91.2913 %	0.0003 ppm
Concentration RSD	1.3 %	0.1 %	0.1 %	1.7 %	0.3 %	0.0 %	59.6 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083757-3 WG2083757

Analysis started at: 6/26/2025 12:13:51 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	0.0531 ppm	2.4458 ppm	0.1433 ppm	0.9291 ppm	2.0556 ppm	0.0530 ppm	22.2324 ppm
Concentration per Run 1	0.0535 ppm	2.4151 ppm	0.1435 ppm	0.9308 ppm	2.0045 ppm	0.0523 ppm	21.9440 ppm
Concentration per Run 2	0.0526 ppm	2.4762 ppm	0.1431 ppm	0.9324 ppm	2.0963 ppm	0.0532 ppm	22.1715 ppm
Concentration per Run 3	0.0531 ppm	2.4461 ppm	0.1433 ppm	0.9240 ppm	2.0661 ppm	0.0535 ppm	22.5817 ppm
Concentration RSD	0.8 %	1.2 %	0.1 %	0.5 %	2.3 %	1.2 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0530 ppm	0.4989 ppm	0.2140 ppm	0.2649 ppm	1.1650 ppm	10.1704 ppm	11.6356 ppm
Concentration per Run 1	0.0533 ppm	0.5002 ppm	0.2136 ppm	0.2670 ppm	1.1508 ppm	10.0133 ppm	11.7003 ppm
Concentration per Run 2	0.0537 ppm	0.5031 ppm	0.2130 ppm	0.2658 ppm	1.1655 ppm	10.4122 ppm	11.6142 ppm
Concentration per Run 3	0.0521 ppm	0.4933 ppm	0.2155 ppm	0.2620 ppm	1.1787 ppm	10.0857 ppm	11.5924 ppm
Concentration RSD	1.5 %	1.0 %	0.6 %	1.0 %	1.2 %	2.1 %	0.5 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5394 ppm	0.9209 ppm	135.6679 ppm	0.5403 ppm	0.5156 ppm	0.5159 ppm	0.1149 ppm
Concentration per Run 1	0.5327 ppm	0.9224 ppm	134.0162 ppm	0.5438 ppm	0.5169 ppm	0.5163 ppm	0.1157 ppm
Concentration per Run 2	0.5406 ppm	0.9278 ppm	140.1308 ppm	0.5385 ppm	0.5143 ppm	0.5122 ppm	0.1154 ppm
Concentration per Run 3	0.5450 ppm	0.9124 ppm	132.8567 ppm	0.5386 ppm	0.5155 ppm	0.5192 ppm	0.1137 ppm
Concentration RSD	1.2 %	0.8 %	2.9 %	0.6 %	0.3 %	0.7 %	0.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	2.0281 ppm	0.9375 ppm	1.0901 ppm	0.9636 ppm	0.0980 ppm	0.5298 ppm	0.5265 ppm
Concentration per Run 1	2.0334 ppm	0.9399 ppm	1.0749 ppm	0.9642 ppm	0.0980 ppm	0.5299 ppm	0.5269 ppm
Concentration per Run 2	2.0178 ppm	0.9360 ppm	1.1005 ppm	0.9618 ppm	0.0973 ppm	0.5283 ppm	0.5297 ppm
Concentration per Run 3	2.0330 ppm	0.9364 ppm	1.0950 ppm	0.9649 ppm	0.0986 ppm	0.5311 ppm	0.5230 ppm
Concentration RSD	0.4 %	0.2 %	1.2 %	0.2 %	0.7 %	0.3 %	0.6 %

	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)	Li 670.784 {50} (Radial)
Concentration average	96.1529 %	91.2599 %	90.5051 %	97.7626 %	73.7769 %	91.1566 %	0.0004 ppm
Concentration per Run 1	96.3813 %	91.3534 %	91.0642 %	98.7746 %	73.7715 %	91.1631 %	0.0001 ppm
Concentration per Run 2	96.2001 %	91.1013 %	90.9846 %	97.5749 %	74.3174 %	90.9826 %	0.0009 ppm
Concentration per Run 3	95.8772 %	91.3250 %	89.4664 %	96.9383 %	73.2419 %	91.3241 %	0.0003 ppm
Concentration RSD	0.3 %	0.2 %	1.0 %	1.0 %	0.7 %	0.2 %	107.0 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083757-4 WG2083757

Analysis started at: 6/26/2025 12:20:27 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	-0.0001 ppm	0.3210 ppm	0.0331 ppm	0.0395 ppm	0.0288 ppm	0.0000 ppm	13.2729 ppm
Concentration per Run 1	-0.0001 ppm	0.3193 ppm	0.0307 ppm	0.0396 ppm	0.0288 ppm	0.0000 ppm	13.1712 ppm
Concentration per Run 2	-0.0002 ppm	0.3225 ppm	0.0356 ppm	0.0394 ppm	0.0287 ppm	0.0001 ppm	13.2681 ppm
Concentration per Run 3	0.0000 ppm	0.3211 ppm	0.0331 ppm	0.0395 ppm	0.0289 ppm	0.0000 ppm	13.3794 ppm
Concentration RSD	143.3 %	0.5 %	7.5 %	0.3 %	0.4 %	30.6 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0052 ppm	-0.0003 ppm	0.0024 ppm	0.0040 ppm	0.1310 ppm	0.4080 ppm	3.1804 ppm
Concentration per Run 1	0.0052 ppm	-0.0003 ppm	0.0025 ppm	0.0041 ppm	0.1298 ppm	0.4086 ppm	3.1647 ppm
Concentration per Run 2	0.0051 ppm	-0.0004 ppm	0.0023 ppm	0.0039 ppm	0.1314 ppm	0.4089 ppm	3.1863 ppm
Concentration per Run 3	0.0053 ppm	-0.0003 ppm	0.0025 ppm	0.0040 ppm	0.1319 ppm	0.4063 ppm	3.1903 ppm
Concentration RSD	1.3 %	20.7 %	5.6 %	2.2 %	0.9 %	0.3 %	0.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0245 ppm	0.0012 ppm	130.8137 ppm	-0.0002 ppm	0.0139 ppm	0.0015 ppm	0.0032 ppm
Concentration per Run 1	0.0243 ppm	0.0014 ppm	132.0427 ppm	0.0000 ppm	0.0140 ppm	0.0010 ppm	0.0048 ppm
Concentration per Run 2	0.0248 ppm	0.0012 ppm	129.4370 ppm	-0.0003 ppm	0.0139 ppm	0.0019 ppm	0.0017 ppm
Concentration per Run 3	0.0245 ppm	0.0011 ppm	130.9614 ppm	-0.0003 ppm	0.0139 ppm	0.0015 ppm	0.0033 ppm
Concentration RSD	0.9 %	9.6 %	1.0 %	111.2 %	0.4 %	30.4 %	47.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.7918 ppm	0.0015 ppm	0.1414 ppm	0.0099 ppm	-0.0070 ppm	0.0005 ppm	0.0087 ppm
Concentration per Run 1	0.7873 ppm	0.0013 ppm	0.1410 ppm	0.0098 ppm	-0.0074 ppm	0.0005 ppm	0.0086 ppm
Concentration per Run 2	0.7913 ppm	0.0018 ppm	0.1414 ppm	0.0100 ppm	-0.0072 ppm	0.0005 ppm	0.0086 ppm
Concentration per Run 3	0.7968 ppm	0.0013 ppm	0.1417 ppm	0.0099 ppm	-0.0063 ppm	0.0006 ppm	0.0088 ppm
Concentration RSD	0.6 %	17.3 %	0.2 %	0.8 %	8.3 %	4.4 %	1.7 %

	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)	Li 670.784 {50} (Radial)
Concentration average	96.7811 %	92.1059 %	92.1428 %	98.1455 %	75.4373 %	91.6779 %	0.0007 ppm
Concentration per Run 1	96.6351 %	92.0036 %	93.1019 %	98.5253 %	76.0545 %	91.5507 %	0.0006 ppm
Concentration per Run 2	97.2537 %	92.3449 %	91.9711 %	98.5018 %	75.4156 %	91.8850 %	0.0010 ppm
Concentration per Run 3	96.4544 %	91.9691 %	91.3553 %	97.4093 %	74.8418 %	91.5979 %	0.0005 ppm
Concentration RSD	0.4 %	0.2 %	1.0 %	0.6 %	0.8 %	0.2 %	36.0 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-02 WG2083757

Analysis started at: 6/26/2025 12:27:10 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	-0.0002 ppm	0.1346 ppm	0.0396 ppm	0.0296 ppm	0.0281 ppm	0.0000 ppm	15.3443 ppm
Concentration per Run 1	-0.0001 ppm	0.1320 ppm	0.0400 ppm	0.0299 ppm	0.0275 ppm	0.0000 ppm	15.0482 ppm
Concentration per Run 2	-0.0003 ppm	0.1369 ppm	0.0408 ppm	0.0296 ppm	0.0284 ppm	0.0000 ppm	15.2877 ppm
Concentration per Run 3	-0.0004 ppm	0.1349 ppm	0.0379 ppm	0.0295 ppm	0.0284 ppm	0.0000 ppm	15.6971 ppm
Concentration RSD	66.3 %	1.8 %	3.9 %	0.7 %	1.9 %	17.9 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0043 ppm	-0.0004 ppm	0.0013 ppm	0.0026 ppm	0.0548 ppm	0.4291 ppm	5.2007 ppm
Concentration per Run 1	0.0043 ppm	-0.0006 ppm	0.0014 ppm	0.0025 ppm	0.0537 ppm	0.4168 ppm	5.2034 ppm
Concentration per Run 2	0.0044 ppm	-0.0004 ppm	0.0012 ppm	0.0026 ppm	0.0553 ppm	0.4417 ppm	5.1998 ppm
Concentration per Run 3	0.0044 ppm	-0.0003 ppm	0.0013 ppm	0.0027 ppm	0.0556 ppm	0.4288 ppm	5.1989 ppm
Concentration RSD	1.1 %	32.8 %	7.4 %	3.5 %	1.8 %	2.9 %	0.0 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0316 ppm	0.0006 ppm	122.7597 ppm	-0.0005 ppm	0.0096 ppm	0.0011 ppm	0.0028 ppm
Concentration per Run 1	0.0312 ppm	0.0006 ppm	115.2673 ppm	-0.0004 ppm	0.0098 ppm	0.0015 ppm	0.0030 ppm
Concentration per Run 2	0.0315 ppm	0.0006 ppm	128.5044 ppm	-0.0005 ppm	0.0091 ppm	0.0005 ppm	0.0035 ppm
Concentration per Run 3	0.0320 ppm	0.0005 ppm	124.5076 ppm	-0.0005 ppm	0.0100 ppm	0.0015 ppm	0.0019 ppm
Concentration RSD	1.2 %	12.0 %	5.5 %	13.5 %	4.9 %	50.9 %	30.3 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.4590 ppm	0.0015 ppm	0.1728 ppm	0.0036 ppm	-0.0075 ppm	0.0002 ppm	0.0055 ppm
Concentration per Run 1	0.4594 ppm	0.0009 ppm	0.1688 ppm	0.0035 ppm	-0.0066 ppm	0.0002 ppm	0.0056 ppm
Concentration per Run 2	0.4597 ppm	0.0014 ppm	0.1749 ppm	0.0035 ppm	-0.0085 ppm	0.0004 ppm	0.0055 ppm
Concentration per Run 3	0.4578 ppm	0.0021 ppm	0.1747 ppm	0.0037 ppm	-0.0073 ppm	0.0001 ppm	0.0054 ppm
Concentration RSD	0.2 %	40.6 %	2.0 %	4.0 %	12.5 %	53.2 %	2.0 %

	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)	Li 670.784 {50} (Radial)
Concentration average	96.9068 %	91.3951 %	91.3004 %	98.7843 %	74.9490 %	91.3819 %	0.0001 ppm
Concentration per Run 1	98.2749 %	91.3390 %	91.5857 %	100.9096 %	75.1066 %	91.3802 %	0.0000 ppm
Concentration per Run 2	97.1076 %	91.4254 %	90.7402 %	98.3720 %	74.4049 %	91.3422 %	0.0002 ppm
Concentration per Run 3	95.3379 %	91.4209 %	91.5753 %	97.0712 %	75.3356 %	91.4232 %	0.0003 ppm
Concentration RSD	1.5 %	0.1 %	0.5 %	2.0 %	0.6 %	0.0 %	95.1 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-03 WG2083757
 Analysis started at: 6/26/2025 12:33:52 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	0.0000 ppm	0.2540 ppm	0.0238 ppm	0.0348 ppm	0.0265 ppm	0.0000 ppm	12.5261 ppm
Concentration per Run 1	-0.0001 ppm	0.2499 ppm	0.0228 ppm	0.0337 ppm	0.0261 ppm	0.0000 ppm	12.4437 ppm
Concentration per Run 2	0.0000 ppm	0.2521 ppm	0.0234 ppm	0.0337 ppm	0.0266 ppm	0.0000 ppm	12.5703 ppm
Concentration per Run 3	0.0001 ppm	0.2599 ppm	0.0251 ppm	0.0370 ppm	0.0268 ppm	0.0000 ppm	12.5644 ppm
Concentration RSD	794.9 %	2.1 %	5.1 %	5.6 %	1.5 %	146.8 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0033 ppm	-0.0005 ppm	0.0014 ppm	0.0026 ppm	0.0976 ppm	0.3332 ppm	3.1639 ppm
Concentration per Run 1	0.0033 ppm	-0.0004 ppm	0.0015 ppm	0.0025 ppm	0.0972 ppm	0.3177 ppm	3.0597 ppm
Concentration per Run 2	0.0031 ppm	-0.0004 ppm	0.0013 ppm	0.0023 ppm	0.0971 ppm	0.3395 ppm	3.0808 ppm
Concentration per Run 3	0.0036 ppm	-0.0006 ppm	0.0013 ppm	0.0030 ppm	0.0987 ppm	0.3423 ppm	3.3513 ppm
Concentration RSD	6.6 %	24.1 %	10.3 %	15.2 %	0.9 %	4.0 %	5.1 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0236 ppm	0.0006 ppm	124.5422 ppm	-0.0005 ppm	0.0080 ppm	0.0011 ppm	0.0038 ppm
Concentration per Run 1	0.0233 ppm	0.0005 ppm	127.5909 ppm	-0.0005 ppm	0.0078 ppm	0.0017 ppm	0.0040 ppm
Concentration per Run 2	0.0237 ppm	0.0004 ppm	119.8668 ppm	-0.0007 ppm	0.0077 ppm	0.0007 ppm	0.0036 ppm
Concentration per Run 3	0.0237 ppm	0.0008 ppm	126.1689 ppm	-0.0003 ppm	0.0084 ppm	0.0009 ppm	0.0039 ppm
Concentration RSD	1.1 %	35.4 %	3.3 %	41.7 %	4.5 %	49.8 %	5.3 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.7466 ppm	0.0012 ppm	0.1002 ppm	0.0077 ppm	-0.0076 ppm	0.0003 ppm	0.0055 ppm
Concentration per Run 1	0.7490 ppm	0.0008 ppm	0.0986 ppm	0.0071 ppm	-0.0082 ppm	0.0004 ppm	0.0055 ppm
Concentration per Run 2	0.7533 ppm	0.0015 ppm	0.1007 ppm	0.0080 ppm	-0.0086 ppm	0.0004 ppm	0.0054 ppm
Concentration per Run 3	0.7374 ppm	0.0014 ppm	0.1014 ppm	0.0079 ppm	-0.0061 ppm	0.0002 ppm	0.0057 ppm
Concentration RSD	1.1 %	34.0 %	1.5 %	6.3 %	17.2 %	30.3 %	3.0 %

	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)	Li 670.784 {50} (Radial)
Concentration average	97.2266 %	89.0739 %	92.4887 %	98.7973 %	75.3975 %	89.5037 %	0.0007 ppm
Concentration per Run 1	97.4098 %	91.5748 %	92.1838 %	99.7638 %	75.4109 %	91.8811 %	0.0006 ppm
Concentration per Run 2	97.1905 %	92.2347 %	91.7690 %	98.4755 %	74.8540 %	92.3331 %	0.0008 ppm
Concentration per Run 3	97.0793 %	83.4120 %	93.5132 %	98.1526 %	75.9274 %	84.2968 %	0.0007 ppm
Concentration RSD	0.2 %	5.5 %	1.0 %	0.9 %	0.7 %	5.0 %	11.3 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-04 WG2083757

Analysis started at: 6/26/2025 12:40:36 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	0.0000 ppm	0.9416 ppm	0.0470 ppm	0.0286 ppm	0.0245 ppm	0.0001 ppm	10.0456 ppm
Concentration per Run 1	-0.0001 ppm	0.9071 ppm	0.0475 ppm	0.0285 ppm	0.0240 ppm	0.0001 ppm	9.8270 ppm
Concentration per Run 2	-0.0001 ppm	0.9569 ppm	0.0461 ppm	0.0288 ppm	0.0247 ppm	0.0000 ppm	10.0710 ppm
Concentration per Run 3	0.0002 ppm	0.9610 ppm	0.0475 ppm	0.0284 ppm	0.0249 ppm	0.0001 ppm	10.2386 ppm
Concentration RSD	501.5 %	3.2 %	1.7 %	0.8 %	2.0 %	32.9 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0024 ppm	-0.0004 ppm	0.0013 ppm	0.0022 ppm	0.3838 ppm	0.3470 ppm	3.0466 ppm
Concentration per Run 1	0.0024 ppm	-0.0005 ppm	0.0012 ppm	0.0022 ppm	0.3714 ppm	0.3405 ppm	3.0422 ppm
Concentration per Run 2	0.0024 ppm	-0.0004 ppm	0.0015 ppm	0.0024 ppm	0.3862 ppm	0.3483 ppm	3.0593 ppm
Concentration per Run 3	0.0024 ppm	-0.0004 ppm	0.0013 ppm	0.0021 ppm	0.3938 ppm	0.3523 ppm	3.0385 ppm
Concentration RSD	0.7 %	18.1 %	10.0 %	6.2 %	3.0 %	1.7 %	0.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0160 ppm	0.0004 ppm	124.6524 ppm	-0.0003 ppm	0.0056 ppm	0.0007 ppm	0.0036 ppm
Concentration per Run 1	0.0156 ppm	0.0003 ppm	123.6310 ppm	-0.0002 ppm	0.0056 ppm	0.0009 ppm	0.0034 ppm
Concentration per Run 2	0.0161 ppm	0.0004 ppm	126.9559 ppm	-0.0003 ppm	0.0055 ppm	0.0013 ppm	0.0030 ppm
Concentration per Run 3	0.0163 ppm	0.0005 ppm	123.3702 ppm	-0.0006 ppm	0.0057 ppm	-0.0002 ppm	0.0045 ppm
Concentration RSD	2.2 %	17.0 %	1.6 %	58.5 %	2.3 %	117.0 %	21.1 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	2.1904 ppm	0.0015 ppm	0.1103 ppm	0.0284 ppm	-0.0075 ppm	0.0012 ppm	0.0052 ppm
Concentration per Run 1	2.2006 ppm	0.0009 ppm	0.1076 ppm	0.0282 ppm	-0.0081 ppm	0.0011 ppm	0.0052 ppm
Concentration per Run 2	2.1928 ppm	0.0021 ppm	0.1110 ppm	0.0290 ppm	-0.0070 ppm	0.0011 ppm	0.0052 ppm
Concentration per Run 3	2.1777 ppm	0.0017 ppm	0.1123 ppm	0.0279 ppm	-0.0075 ppm	0.0012 ppm	0.0052 ppm
Concentration RSD	0.5 %	38.4 %	2.2 %	1.9 %	6.9 %	4.2 %	0.3 %

	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)	Li 670.784 {50} (Radial)
Concentration average	97.2775 %	92.0052 %	92.4997 %	98.6864 %	75.0875 %	91.6505 %	0.0010 ppm
Concentration per Run 1	98.5624 %	92.3070 %	92.2952 %	100.6519 %	74.7487 %	92.0300 %	0.0010 ppm
Concentration per Run 2	96.9640 %	91.6681 %	92.7163 %	98.2557 %	75.3116 %	91.3017 %	0.0008 ppm
Concentration per Run 3	96.3061 %	92.0406 %	92.4878 %	97.1515 %	75.2021 %	91.6196 %	0.0013 ppm
Concentration RSD	1.2 %	0.3 %	0.2 %	1.8 %	0.4 %	0.4 %	22.1 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imex

Sample: L2538381-05 WG2083757

Analysis started at: 6/26/2025 12:47:19 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	-0.0002 ppm	0.3777 ppm	0.0618 ppm	0.0508 ppm	0.0260 ppm	0.0000 ppm	10.8054 ppm
Concentration per Run 1	-0.0002 ppm	0.3654 ppm	0.0623 ppm	0.0511 ppm	0.0254 ppm	0.0000 ppm	10.5332 ppm
Concentration per Run 2	-0.0004 ppm	0.3866 ppm	0.0614 ppm	0.0504 ppm	0.0262 ppm	0.0000 ppm	10.9552 ppm
Concentration per Run 3	-0.0001 ppm	0.3813 ppm	0.0617 ppm	0.0509 ppm	0.0264 ppm	0.0000 ppm	10.9278 ppm
Concentration RSD	64.0 %	2.9 %	0.8 %	0.7 %	2.1 %	2,460.7 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0043 ppm	-0.0004 ppm	0.0016 ppm	0.0034 ppm	0.1429 ppm	0.3889 ppm	2.6634 ppm
Concentration per Run 1	0.0042 ppm	-0.0004 ppm	0.0016 ppm	0.0034 ppm	0.1378 ppm	0.3730 ppm	2.6606 ppm
Concentration per Run 2	0.0044 ppm	-0.0004 ppm	0.0018 ppm	0.0033 ppm	0.1461 ppm	0.3934 ppm	2.6720 ppm
Concentration per Run 3	0.0043 ppm	-0.0004 ppm	0.0015 ppm	0.0034 ppm	0.1449 ppm	0.4004 ppm	2.6577 ppm
Concentration RSD	2.2 %	2.1 %	11.0 %	2.8 %	3.1 %	3.7 %	0.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0182 ppm	0.0005 ppm	134.0153 ppm	-0.0005 ppm	0.0113 ppm	0.0009 ppm	0.0039 ppm
Concentration per Run 1	0.0177 ppm	0.0006 ppm	131.3809 ppm	-0.0004 ppm	0.0113 ppm	0.0010 ppm	0.0036 ppm
Concentration per Run 2	0.0184 ppm	0.0004 ppm	141.3169 ppm	-0.0006 ppm	0.0115 ppm	0.0014 ppm	0.0051 ppm
Concentration per Run 3	0.0186 ppm	0.0005 ppm	129.3482 ppm	-0.0005 ppm	0.0111 ppm	0.0003 ppm	0.0029 ppm
Concentration RSD	2.6 %	20.5 %	4.8 %	21.4 %	1.8 %	65.0 %	28.5 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.8580 ppm	0.0023 ppm	0.1410 ppm	0.0091 ppm	-0.0078 ppm	0.0006 ppm	0.0073 ppm
Concentration per Run 1	0.8636 ppm	0.0022 ppm	0.1374 ppm	0.0091 ppm	-0.0074 ppm	0.0006 ppm	0.0074 ppm
Concentration per Run 2	0.8522 ppm	0.0026 ppm	0.1424 ppm	0.0092 ppm	-0.0084 ppm	0.0006 ppm	0.0071 ppm
Concentration per Run 3	0.8581 ppm	0.0020 ppm	0.1431 ppm	0.0089 ppm	-0.0075 ppm	0.0005 ppm	0.0073 ppm
Concentration RSD	0.7 %	14.1 %	2.2 %	1.5 %	7.5 %	10.9 %	1.7 %

	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)	Li 670.784 {50} (Radial)
Concentration average	97.0257 %	91.9946 %	91.6255 %	98.9746 %	74.6173 %	91.4908 %	0.0008 ppm
Concentration per Run 1	98.4019 %	92.1103 %	91.9665 %	101.4375 %	74.8540 %	91.6243 %	0.0008 ppm
Concentration per Run 2	96.3746 %	92.0752 %	91.9652 %	97.9742 %	74.9349 %	91.5742 %	0.0007 ppm
Concentration per Run 3	96.3007 %	91.7984 %	90.9447 %	97.5122 %	74.0631 %	91.2738 %	0.0008 ppm
Concentration RSD	1.2 %	0.2 %	0.6 %	2.2 %	0.6 %	0.2 %	3.4 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-06 WG2083757

Analysis started at: 6/26/2025 12:54:01 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	-0.0001 ppm	0.6297 ppm	0.0382 ppm	0.0588 ppm	0.0255 ppm	0.0000 ppm	8.7777 ppm
Concentration per Run 1	0.0001 ppm	0.6162 ppm	0.0375 ppm	0.0587 ppm	0.0252 ppm	0.0000 ppm	8.4657 ppm
Concentration per Run 2	-0.0003 ppm	0.6370 ppm	0.0378 ppm	0.0571 ppm	0.0256 ppm	0.0000 ppm	8.9299 ppm
Concentration per Run 3	0.0000 ppm	0.6358 ppm	0.0391 ppm	0.0605 ppm	0.0258 ppm	0.0000 ppm	8.9376 ppm
Concentration RSD	329.4 %	1.9 %	2.3 %	2.9 %	1.1 %	81.9 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0026 ppm	-0.0004 ppm	0.0016 ppm	0.0030 ppm	0.2046 ppm	0.5422 ppm	2.2249 ppm
Concentration per Run 1	0.0027 ppm	-0.0005 ppm	0.0015 ppm	0.0031 ppm	0.1962 ppm	0.5472 ppm	2.2329 ppm
Concentration per Run 2	0.0025 ppm	-0.0003 ppm	0.0015 ppm	0.0027 ppm	0.2086 ppm	0.5279 ppm	2.1649 ppm
Concentration per Run 3	0.0027 ppm	-0.0005 ppm	0.0016 ppm	0.0032 ppm	0.2090 ppm	0.5514 ppm	2.2769 ppm
Concentration RSD	4.0 %	23.4 %	3.1 %	9.0 %	3.6 %	2.3 %	2.5 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0162 ppm	0.0004 ppm	124.9367 ppm	-0.0003 ppm	0.0075 ppm	0.0007 ppm	0.0028 ppm
Concentration per Run 1	0.0160 ppm	0.0005 ppm	119.0823 ppm	-0.0005 ppm	0.0073 ppm	0.0002 ppm	0.0022 ppm
Concentration per Run 2	0.0162 ppm	0.0003 ppm	127.2105 ppm	-0.0002 ppm	0.0069 ppm	0.0012 ppm	0.0024 ppm
Concentration per Run 3	0.0165 ppm	0.0004 ppm	128.5173 ppm	-0.0002 ppm	0.0083 ppm	0.0006 ppm	0.0039 ppm
Concentration RSD	1.6 %	19.6 %	4.1 %	48.7 %	9.6 %	73.4 %	32.4 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	1.3053 ppm	0.0016 ppm	0.1070 ppm	0.0170 ppm	-0.0080 ppm	0.0007 ppm	0.0064 ppm
Concentration per Run 1	1.3165 ppm	0.0008 ppm	0.1053 ppm	0.0169 ppm	-0.0082 ppm	0.0008 ppm	0.0063 ppm
Concentration per Run 2	1.3033 ppm	0.0023 ppm	0.1072 ppm	0.0164 ppm	-0.0069 ppm	0.0008 ppm	0.0065 ppm
Concentration per Run 3	1.2960 ppm	0.0016 ppm	0.1084 ppm	0.0177 ppm	-0.0090 ppm	0.0006 ppm	0.0063 ppm
Concentration RSD	0.8 %	47.0 %	1.4 %	4.0 %	13.2 %	10.4 %	1.6 %

	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)	Li 670.784 {50} (Radial)
Concentration average	97.9079 %	93.5010 %	93.6094 %	99.8489 %	76.3935 %	92.5675 %	0.0009 ppm
Concentration per Run 1	99.3165 %	93.1513 %	93.8618 %	101.9367 %	76.2545 %	92.3692 %	0.0007 ppm
Concentration per Run 2	97.2419 %	95.7102 %	93.4497 %	98.9284 %	76.5840 %	95.3031 %	0.0009 ppm
Concentration per Run 3	97.1652 %	91.6414 %	93.5167 %	98.6814 %	76.3420 %	90.0302 %	0.0011 ppm
Concentration RSD	1.2 %	2.2 %	0.2 %	1.8 %	0.2 %	2.9 %	25.1 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 1:00:44 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	0.5070 ppm	0.4979 ppm	0.4645 ppm	0.5008 ppm	0.4912 ppm	0.4951 ppm	0.5081 ppm
Concentration per Run 1	0.5081 ppm	0.4935 ppm	0.4661 ppm	0.5029 ppm	0.4827 ppm	0.4821 ppm	0.4909 ppm
Concentration per Run 2	0.5073 ppm	0.4992 ppm	0.4663 ppm	0.5015 ppm	0.4935 ppm	0.5009 ppm	0.5156 ppm
Concentration per Run 3	0.5057 ppm	0.5012 ppm	0.4612 ppm	0.4979 ppm	0.4973 ppm	0.5024 ppm	0.5178 ppm
Recovery Percentage 1	101.404 %	99.589 %	92.906 %	100.151 %	98.234 %	99.026 %	101.623 %
Concentration RSD	0.2 %	0.8 %	0.6 %	0.5 %	1.5 %	2.3 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.4835 ppm	0.5118 ppm	0.5167 ppm	0.4921 ppm	0.4970 ppm	5.2860 ppm	0.5175 ppm
Concentration per Run 1	0.4862 ppm	0.5151 ppm	0.5162 ppm	0.4947 ppm	0.4848 ppm	5.2950 ppm	0.5188 ppm
Concentration per Run 2	0.4859 ppm	0.5134 ppm	0.5200 ppm	0.4898 ppm	0.5042 ppm	5.2136 ppm	0.5195 ppm
Concentration per Run 3	0.4785 ppm	0.5069 ppm	0.5139 ppm	0.4919 ppm	0.5021 ppm	5.3495 ppm	0.5144 ppm
Recovery Percentage 1	96.707 %	102.361 %	103.340 %	98.426 %	99.404 %	105.721 %	103.509 %
Concentration RSD	0.9 %	0.8 %	0.6 %	0.5 %	2.1 %	1.3 %	0.5 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5039 ppm	0.4897 ppm	9.9570 ppm	0.4746 ppm	0.4847 ppm	0.4767 ppm	0.4970 ppm
Concentration per Run 1	0.4895 ppm	0.4924 ppm	9.9720 ppm	0.4783 ppm	0.4886 ppm	0.4804 ppm	0.4971 ppm
Concentration per Run 2	0.5105 ppm	0.4913 ppm	9.8254 ppm	0.4749 ppm	0.4846 ppm	0.4759 ppm	0.4997 ppm
Concentration per Run 3	0.5116 ppm	0.4855 ppm	10.0736 ppm	0.4705 ppm	0.4809 ppm	0.4738 ppm	0.4943 ppm
Recovery Percentage 1	100.777 %	97.945 %	99.570 %	94.910 %	96.945 %	95.338 %	99.408 %
Concentration RSD	2.5 %	0.8 %	1.3 %	0.8 %	0.8 %	0.7 %	0.5 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	5.1807 ppm	0.4626 ppm	0.5156 ppm	0.5078 ppm	0.4867 ppm	0.5036 ppm	0.5068 ppm
Concentration per Run 1	5.2269 ppm	0.4648 ppm	0.5056 ppm	0.5077 ppm	0.4907 ppm	0.5040 ppm	0.5083 ppm
Concentration per Run 2	5.1710 ppm	0.4639 ppm	0.5192 ppm	0.5103 ppm	0.4844 ppm	0.5062 ppm	0.5083 ppm
Concentration per Run 3	5.1440 ppm	0.4591 ppm	0.5220 ppm	0.5054 ppm	0.4850 ppm	0.5008 ppm	0.5038 ppm
Recovery Percentage 1	98.679 %	92.521 %	103.117 %	101.558 %	97.338 %	100.728 %	101.357 %
Concentration RSD	0.8 %	0.7 %	1.7 %	0.5 %	0.7 %	0.5 %	0.5 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.6050 %	99.3868 %	98.6212 %	102.1899 %	93.1368 %	99.4592 %	0.5228 ppm
Concentration per Run 1	104.1070 %	99.5902 %	98.4366 %	104.7271 %	92.4239 %	98.9019 %	0.5247 ppm
Concentration per Run 2	100.3792 %	100.1205 %	98.5110 %	101.1351 %	93.0981 %	99.3417 %	0.5154 ppm
Concentration per Run 3	100.3288 %	98.4497 %	98.9160 %	100.7077 %	93.8883 %	100.1338 %	0.5282 ppm
Recovery Percentage 1							104.554 %
Concentration RSD	2.1 %	0.9 %	0.3 %	2.2 %	0.8 %	0.6 %	1.3 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
 Analysis started at: 6/26/2025 1:07:04 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	0.0010 ppm	-0.0005 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 2	-0.0002 ppm	0.0003 ppm	-0.0011 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0020 ppm	-0.0002 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	-0.786 %	0.950 %	-9.499 %	3.415 %	0.296 %	0.827 %	-0.022 %
Concentration RSD	187.0 %	98.2 %	122.3 %	27.8 %	15.6 %	18.0 %	5,005.1 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0004 ppm	0.0036 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0098 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0010 ppm	-0.0007 ppm	0.0023 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0003 ppm	0.0016 ppm	-0.0007 ppm
Recovery Percentage 1	0.934 %	-0.203 %	1.599 %	4.788 %	0.822 %	0.143 %	0.625 %
Concentration RSD	152.8 %	265.9 %	57.7 %	12.6 %	153.5 %	155.2 %	240.0 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0007 ppm	0.0128 ppm	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0117 ppm	0.0001 ppm	-0.0005 ppm	0.0003 ppm	0.0020 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0112 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0156 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	-0.0002 ppm
Recovery Percentage 1	-0.057 %	1.472 %	0.642 %	0.392 %	-1.813 %	0.493 %	9.113 %
Concentration RSD	352.9 %	12.2 %	18.9 %	62.1 %	214.4 %	169.2 %	121.5 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	-0.0003 ppm	0.0007 ppm	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	0.004 %	0.644 %	0.101 %	-0.696 %	-1.347 %	0.701 %	-1.992 %
Concentration RSD	1,322.4 %	104.4 %	705.2 %	274.8 %	28.6 %	116.7 %	47.9 %

	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)	Li 670.784 {50} (Radial)
Concentration average	102.3415 %	100.7163 %	98.5233 %	100.3463 %	99.6506 %	98.9635 %	0.0001 ppm
Concentration per Run 1	104.3968 %	100.5754 %	98.5202 %	101.6252 %	99.5771 %	98.7500 %	0.0002 ppm
Concentration per Run 2	102.2556 %	100.7574 %	98.7139 %	100.3177 %	100.0401 %	99.0240 %	-0.0002 ppm
Concentration per Run 3	100.3719 %	100.8162 %	98.3357 %	99.0959 %	99.3347 %	99.1164 %	0.0004 ppm
Recovery Percentage 1							1.164 %
Concentration RSD	2.0 %	0.1 %	0.2 %	1.3 %	0.4 %	0.2 %	288.8 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-07 WG2083757

Analysis started at: 6/26/2025 1:26:36 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	0.0000 ppm	0.0789 ppm	0.0300 ppm	0.0372 ppm	0.0162 ppm	0.0000 ppm	7.4780 ppm
Concentration per Run 1	0.0000 ppm	0.0757 ppm	0.0305 ppm	0.0372 ppm	0.0160 ppm	0.0000 ppm	7.3245 ppm
Concentration per Run 2	-0.0001 ppm	0.0805 ppm	0.0302 ppm	0.0369 ppm	0.0163 ppm	0.0000 ppm	7.5554 ppm
Concentration per Run 3	0.0001 ppm	0.0807 ppm	0.0293 ppm	0.0374 ppm	0.0163 ppm	0.0000 ppm	7.5541 ppm
Concentration RSD	1,551.9 %	3.6 %	2.0 %	0.7 %	1.1 %	80.2 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0057 ppm	-0.0004 ppm	0.0039 ppm	0.0054 ppm	0.0658 ppm	0.2602 ppm	1.8589 ppm
Concentration per Run 1	0.0058 ppm	-0.0004 ppm	0.0038 ppm	0.0052 ppm	0.0639 ppm	0.2593 ppm	1.8527 ppm
Concentration per Run 2	0.0057 ppm	-0.0003 ppm	0.0041 ppm	0.0052 ppm	0.0659 ppm	0.2582 ppm	1.8622 ppm
Concentration per Run 3	0.0058 ppm	-0.0005 ppm	0.0038 ppm	0.0057 ppm	0.0676 ppm	0.2631 ppm	1.8617 ppm
Concentration RSD	0.7 %	23.5 %	5.2 %	4.7 %	2.8 %	1.0 %	0.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0344 ppm	0.0004 ppm	124.7557 ppm	0.0000 ppm	0.0144 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 1	0.0339 ppm	0.0003 ppm	117.6358 ppm	-0.0002 ppm	0.0144 ppm	0.0002 ppm	0.0021 ppm
Concentration per Run 2	0.0347 ppm	0.0003 ppm	127.8582 ppm	0.0002 ppm	0.0145 ppm	0.0004 ppm	0.0036 ppm
Concentration per Run 3	0.0345 ppm	0.0005 ppm	128.7732 ppm	0.0000 ppm	0.0143 ppm	-0.0006 ppm	0.0046 ppm
Concentration RSD	1.2 %	32.8 %	5.0 %	1,338.4 %	0.8 %	6,823.4 %	38.0 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.2321 ppm	0.0014 ppm	0.0766 ppm	0.0028 ppm	-0.0077 ppm	0.0001 ppm	0.0161 ppm
Concentration per Run 1	0.2323 ppm	0.0010 ppm	0.0752 ppm	0.0028 ppm	-0.0073 ppm	0.0001 ppm	0.0163 ppm
Concentration per Run 2	0.2294 ppm	0.0016 ppm	0.0771 ppm	0.0028 ppm	-0.0079 ppm	0.0001 ppm	0.0160 ppm
Concentration per Run 3	0.2345 ppm	0.0017 ppm	0.0774 ppm	0.0029 ppm	-0.0078 ppm	0.0002 ppm	0.0160 ppm
Concentration RSD	1.1 %	27.4 %	1.5 %	2.2 %	4.4 %	20.1 %	1.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	98.7436 %	92.5243 %	91.9282 %	98.8720 %	75.9266 %	91.6888 %	0.0004 ppm
Concentration per Run 1	99.5714 %	92.8083 %	92.3997 %	100.5856 %	76.1993 %	91.8523 %	0.0004 ppm
Concentration per Run 2	98.4511 %	92.7023 %	91.6356 %	98.1439 %	75.9825 %	91.9976 %	0.0006 ppm
Concentration per Run 3	98.2082 %	92.0623 %	91.7493 %	97.8864 %	75.5978 %	91.2163 %	0.0003 ppm
Concentration RSD	0.7 %	0.4 %	0.4 %	1.5 %	0.4 %	0.5 %	33.4 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-08 WG2083757
 Analysis started at: 6/26/2025 1:33:21 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	-0.0001 ppm	0.1494 ppm	0.0325 ppm	0.0472 ppm	0.0227 ppm	0.0000 ppm	10.8992 ppm
Concentration per Run 1	-0.0001 ppm	0.1471 ppm	0.0319 ppm	0.0470 ppm	0.0221 ppm	0.0000 ppm	10.5897 ppm
Concentration per Run 2	-0.0002 ppm	0.1509 ppm	0.0357 ppm	0.0472 ppm	0.0228 ppm	0.0000 ppm	11.0382 ppm
Concentration per Run 3	0.0001 ppm	0.1501 ppm	0.0300 ppm	0.0475 ppm	0.0231 ppm	0.0000 ppm	11.0698 ppm
Concentration RSD	148.3 %	1.4 %	8.9 %	0.5 %	2.1 %	79.4 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0065 ppm	-0.0003 ppm	0.0025 ppm	0.0047 ppm	0.0860 ppm	0.2444 ppm	3.2907 ppm
Concentration per Run 1	0.0065 ppm	-0.0003 ppm	0.0027 ppm	0.0046 ppm	0.0806 ppm	0.2377 ppm	3.2915 ppm
Concentration per Run 2	0.0065 ppm	-0.0004 ppm	0.0026 ppm	0.0047 ppm	0.0856 ppm	0.2502 ppm	3.2802 ppm
Concentration per Run 3	0.0065 ppm	-0.0003 ppm	0.0022 ppm	0.0048 ppm	0.0919 ppm	0.2452 ppm	3.3004 ppm
Concentration RSD	0.0 %	12.1 %	10.5 %	2.0 %	6.6 %	2.6 %	0.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0281 ppm	0.0003 ppm	125.4898 ppm	-0.0001 ppm	0.0192 ppm	0.0005 ppm	0.0039 ppm
Concentration per Run 1	0.0273 ppm	0.0004 ppm	120.6546 ppm	0.0000 ppm	0.0193 ppm	0.0002 ppm	0.0028 ppm
Concentration per Run 2	0.0283 ppm	0.0005 ppm	124.1367 ppm	0.0000 ppm	0.0193 ppm	0.0007 ppm	0.0047 ppm
Concentration per Run 3	0.0288 ppm	0.0001 ppm	131.6781 ppm	-0.0003 ppm	0.0189 ppm	0.0005 ppm	0.0042 ppm
Concentration RSD	2.7 %	54.5 %	4.5 %	158.9 %	1.2 %	59.5 %	24.7 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.4562 ppm	0.0008 ppm	0.0938 ppm	0.0046 ppm	-0.0067 ppm	0.0002 ppm	0.0132 ppm
Concentration per Run 1	0.4586 ppm	0.0011 ppm	0.0918 ppm	0.0043 ppm	-0.0055 ppm	0.0003 ppm	0.0132 ppm
Concentration per Run 2	0.4586 ppm	0.0007 ppm	0.0944 ppm	0.0047 ppm	-0.0087 ppm	0.0003 ppm	0.0132 ppm
Concentration per Run 3	0.4514 ppm	0.0006 ppm	0.0952 ppm	0.0049 ppm	-0.0060 ppm	0.0000 ppm	0.0131 ppm
Concentration RSD	0.9 %	34.4 %	1.9 %	5.7 %	25.5 %	78.9 %	0.3 %

	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)	Li 670.784 {50} (Radial)
Concentration average	98.0861 %	91.4517 %	91.7079 %	99.0338 %	75.4547 %	91.0682 %	0.0004 ppm
Concentration per Run 1	99.5667 %	91.5725 %	91.9942 %	101.1721 %	75.6029 %	91.0968 %	0.0006 ppm
Concentration per Run 2	97.2955 %	91.7322 %	91.3281 %	98.1806 %	75.0910 %	91.3635 %	0.0003 ppm
Concentration per Run 3	97.3963 %	91.0505 %	91.8014 %	97.7488 %	75.6702 %	90.7443 %	0.0003 ppm
Concentration RSD	1.3 %	0.4 %	0.4 %	1.9 %	0.4 %	0.3 %	43.1 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-09 WG2083757

Analysis started at: 6/26/2025 1:40:06 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	0.0000 ppm	0.0810 ppm	0.0031 ppm	0.0823 ppm	0.0169 ppm	0.0000 ppm	7.2679 ppm
Concentration per Run 1	0.0000 ppm	0.0783 ppm	0.0042 ppm	0.0843 ppm	0.0168 ppm	0.0000 ppm	7.0718 ppm
Concentration per Run 2	0.0000 ppm	0.0826 ppm	0.0029 ppm	0.0809 ppm	0.0170 ppm	0.0001 ppm	7.3611 ppm
Concentration per Run 3	0.0000 ppm	0.0820 ppm	0.0022 ppm	0.0819 ppm	0.0171 ppm	0.0000 ppm	7.3709 ppm
Concentration RSD	50.4 %	2.9 %	32.2 %	2.1 %	0.9 %	157.2 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0014 ppm	-0.0002 ppm	0.0040 ppm	0.0033 ppm	0.0708 ppm	0.1881 ppm	1.8939 ppm
Concentration per Run 1	0.0014 ppm	-0.0002 ppm	0.0038 ppm	0.0037 ppm	0.0690 ppm	0.1914 ppm	1.9021 ppm
Concentration per Run 2	0.0013 ppm	-0.0002 ppm	0.0041 ppm	0.0030 ppm	0.0710 ppm	0.1874 ppm	1.8852 ppm
Concentration per Run 3	0.0014 ppm	-0.0003 ppm	0.0042 ppm	0.0032 ppm	0.0725 ppm	0.1855 ppm	1.8944 ppm
Concentration RSD	3.7 %	32.0 %	4.5 %	10.5 %	2.5 %	1.6 %	0.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0794 ppm	0.0006 ppm	125.4430 ppm	0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0026 ppm
Concentration per Run 1	0.0775 ppm	0.0007 ppm	124.7023 ppm	0.0010 ppm	0.0007 ppm	-0.0006 ppm	0.0021 ppm
Concentration per Run 2	0.0799 ppm	0.0005 ppm	126.0253 ppm	0.0008 ppm	-0.0001 ppm	0.0003 ppm	0.0033 ppm
Concentration per Run 3	0.0809 ppm	0.0005 ppm	125.6016 ppm	0.0007 ppm	0.0001 ppm	0.0005 ppm	0.0025 ppm
Concentration RSD	2.2 %	14.6 %	0.5 %	14.5 %	170.6 %	1,141.8 %	23.0 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.3827 ppm	0.0014 ppm	0.0680 ppm	0.0029 ppm	-0.0072 ppm	0.0000 ppm	0.0098 ppm
Concentration per Run 1	0.3870 ppm	0.0016 ppm	0.0673 ppm	0.0029 ppm	-0.0074 ppm	-0.0001 ppm	0.0099 ppm
Concentration per Run 2	0.3808 ppm	0.0018 ppm	0.0683 ppm	0.0027 ppm	-0.0066 ppm	0.0001 ppm	0.0097 ppm
Concentration per Run 3	0.3803 ppm	0.0007 ppm	0.0685 ppm	0.0029 ppm	-0.0076 ppm	0.0001 ppm	0.0097 ppm
Concentration RSD	1.0 %	43.6 %	1.0 %	4.1 %	7.4 %	199.6 %	1.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	98.8469 %	92.3945 %	92.3216 %	99.6487 %	76.4458 %	91.9916 %	0.0005 ppm
Concentration per Run 1	100.2112 %	91.4646 %	92.7602 %	101.6111 %	76.6257 %	90.6122 %	0.0006 ppm
Concentration per Run 2	98.3457 %	93.3559 %	91.6927 %	98.9654 %	76.0646 %	93.2203 %	0.0004 ppm
Concentration per Run 3	97.9839 %	92.3630 %	92.5119 %	98.3696 %	76.6472 %	92.1423 %	0.0004 ppm
Concentration RSD	1.2 %	1.0 %	0.6 %	1.7 %	0.4 %	1.4 %	28.5 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538846-02 WG2083757

Analysis started at: 6/26/2025 1:46:51 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	-0.0001 ppm	0.0656 ppm	-0.0011 ppm	0.0174 ppm	0.0126 ppm	0.0000 ppm	30.0569 ppm
Concentration per Run 1	-0.0002 ppm	0.0652 ppm	-0.0005 ppm	0.0173 ppm	0.0124 ppm	0.0001 ppm	29.7385 ppm
Concentration per Run 2	-0.0001 ppm	0.0666 ppm	0.0000 ppm	0.0175 ppm	0.0128 ppm	0.0000 ppm	29.9968 ppm
Concentration per Run 3	0.0000 ppm	0.0650 ppm	-0.0027 ppm	0.0175 ppm	0.0127 ppm	0.0001 ppm	30.4355 ppm
Concentration RSD	107.8 %	1.4 %	132.9 %	0.7 %	1.6 %	31.2 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	-0.0001 ppm	0.0004 ppm	0.0016 ppm	0.0393 ppm	0.1405 ppm	1.5709 ppm
Concentration per Run 1	0.0004 ppm	-0.0001 ppm	0.0002 ppm	0.0016 ppm	0.0388 ppm	0.1446 ppm	1.5646 ppm
Concentration per Run 2	0.0004 ppm	-0.0002 ppm	0.0005 ppm	0.0015 ppm	0.0395 ppm	0.1404 ppm	1.5769 ppm
Concentration per Run 3	0.0004 ppm	-0.0001 ppm	0.0005 ppm	0.0017 ppm	0.0397 ppm	0.1364 ppm	1.5711 ppm
Concentration RSD	1.6 %	40.9 %	47.4 %	7.4 %	1.2 %	2.9 %	0.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0410 ppm	0.0006 ppm	130.9866 ppm	-0.0002 ppm	-0.0005 ppm	0.0005 ppm	0.0031 ppm
Concentration per Run 1	0.0408 ppm	0.0007 ppm	131.2581 ppm	-0.0001 ppm	-0.0008 ppm	0.0010 ppm	0.0010 ppm
Concentration per Run 2	0.0410 ppm	0.0006 ppm	128.1537 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 3	0.0413 ppm	0.0005 ppm	133.5480 ppm	-0.0002 ppm	-0.0006 ppm	0.0006 ppm	0.0041 ppm
Concentration RSD	0.6 %	12.3 %	2.1 %	14.4 %	54.5 %	87.1 %	58.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	1.6393 ppm	0.0016 ppm	0.0901 ppm	0.0003 ppm	-0.0076 ppm	0.0001 ppm	0.0041 ppm
Concentration per Run 1	1.6374 ppm	0.0016 ppm	0.0886 ppm	0.0005 ppm	-0.0073 ppm	0.0002 ppm	0.0041 ppm
Concentration per Run 2	1.6409 ppm	0.0016 ppm	0.0910 ppm	0.0003 ppm	-0.0063 ppm	0.0001 ppm	0.0041 ppm
Concentration per Run 3	1.6397 ppm	0.0016 ppm	0.0907 ppm	0.0000 ppm	-0.0093 ppm	0.0000 ppm	0.0041 ppm
Concentration RSD	0.1 %	1.7 %	1.4 %	108.0 %	19.9 %	95.6 %	0.7 %

	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)	Li 670.784 {50} (Radial)
Concentration average	97.9921 %	91.6665 %	90.6277 %	98.6746 %	74.5862 %	90.8065 %	0.0004 ppm
Concentration per Run 1	98.3243 %	91.5972 %	90.6380 %	99.6098 %	74.6415 %	90.7229 %	0.0004 ppm
Concentration per Run 2	98.3137 %	91.7020 %	90.1638 %	98.6780 %	74.3371 %	90.9985 %	0.0000 ppm
Concentration per Run 3	97.3385 %	91.7003 %	91.0813 %	97.7359 %	74.7800 %	90.6979 %	0.0006 ppm
Concentration RSD	0.6 %	0.1 %	0.5 %	0.9 %	0.3 %	0.2 %	85.9 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 1:53:36 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	0.5043 ppm	0.4961 ppm	0.4563 ppm	0.5035 ppm	0.4864 ppm	0.4902 ppm	0.5028 ppm
Concentration per Run 1	0.5042 ppm	0.4853 ppm	0.4535 ppm	0.5032 ppm	0.4755 ppm	0.4794 ppm	0.4930 ppm
Concentration per Run 2	0.5042 ppm	0.5053 ppm	0.4581 ppm	0.5029 ppm	0.4920 ppm	0.4938 ppm	0.5049 ppm
Concentration per Run 3	0.5044 ppm	0.4976 ppm	0.4573 ppm	0.5044 ppm	0.4916 ppm	0.4976 ppm	0.5104 ppm
Recovery Percentage 1	100.858 %	99.216 %	91.259 %	100.706 %	97.272 %	98.050 %	100.556 %
Concentration RSD	0.0 %	2.0 %	0.5 %	0.2 %	1.9 %	2.0 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.4756 ppm	0.5115 ppm	0.5203 ppm	0.4920 ppm	0.4891 ppm	5.2657 ppm	0.5155 ppm
Concentration per Run 1	0.4718 ppm	0.5090 ppm	0.5223 ppm	0.4904 ppm	0.4788 ppm	5.1435 ppm	0.5147 ppm
Concentration per Run 2	0.4761 ppm	0.5117 ppm	0.5167 ppm	0.4928 ppm	0.4931 ppm	5.4235 ppm	0.5128 ppm
Concentration per Run 3	0.4787 ppm	0.5137 ppm	0.5219 ppm	0.4927 ppm	0.4955 ppm	5.2303 ppm	0.5190 ppm
Recovery Percentage 1	95.111 %	102.292 %	104.066 %	98.391 %	97.821 %	105.314 %	103.097 %
Concentration RSD	0.7 %	0.5 %	0.6 %	0.3 %	1.8 %	2.7 %	0.6 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.4991 ppm	0.4866 ppm	9.9603 ppm	0.4625 ppm	0.4766 ppm	0.4722 ppm	0.4955 ppm
Concentration per Run 1	0.4887 ppm	0.4846 ppm	9.7235 ppm	0.4561 ppm	0.4731 ppm	0.4699 ppm	0.4933 ppm
Concentration per Run 2	0.5039 ppm	0.4863 ppm	10.2371 ppm	0.4657 ppm	0.4793 ppm	0.4731 ppm	0.4952 ppm
Concentration per Run 3	0.5046 ppm	0.4890 ppm	9.9203 ppm	0.4657 ppm	0.4775 ppm	0.4736 ppm	0.4980 ppm
Recovery Percentage 1	99.812 %	97.329 %	99.603 %	92.499 %	95.324 %	94.435 %	99.101 %
Concentration RSD	1.8 %	0.5 %	2.6 %	1.2 %	0.7 %	0.4 %	0.5 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	5.1166 ppm	0.4517 ppm	0.5174 ppm	0.5062 ppm	0.4756 ppm	0.4999 ppm	0.5031 ppm
Concentration per Run 1	5.0670 ppm	0.4461 ppm	0.5059 ppm	0.5076 ppm	0.4719 ppm	0.5008 ppm	0.4962 ppm
Concentration per Run 2	5.1475 ppm	0.4539 ppm	0.5231 ppm	0.5041 ppm	0.4779 ppm	0.4985 ppm	0.5070 ppm
Concentration per Run 3	5.1353 ppm	0.4551 ppm	0.5232 ppm	0.5071 ppm	0.4770 ppm	0.5002 ppm	0.5060 ppm
Recovery Percentage 1	97.460 %	90.338 %	103.479 %	101.248 %	95.126 %	99.973 %	100.611 %
Concentration RSD	0.8 %	1.1 %	1.9 %	0.4 %	0.7 %	0.2 %	1.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.8666 %	99.6797 %	98.7321 %	102.3542 %	94.1836 %	99.0937 %	0.5198 ppm
Concentration per Run 1	104.1583 %	99.5562 %	99.2310 %	104.4798 %	94.8318 %	99.0065 %	0.5070 ppm
Concentration per Run 2	100.6306 %	99.9004 %	98.5276 %	101.5192 %	93.8564 %	99.3508 %	0.5339 ppm
Concentration per Run 3	100.8107 %	99.5825 %	98.4378 %	101.0638 %	93.8627 %	98.9237 %	0.5186 ppm
Recovery Percentage 1							103.969 %
Concentration RSD	2.0 %	0.2 %	0.4 %	1.8 %	0.6 %	0.2 %	2.6 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 1:59:56 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	0.0000 ppm	0.0013 ppm	0.0004 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0031 ppm	0.0000 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0021 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0004 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm
Recovery Percentage 1	-0.166 %	1.303 %	7.036 %	2.669 %	0.124 %	0.061 %	0.848 %
Concentration RSD	679.7 %	121.5 %	95.1 %	15.0 %	120.9 %	453.1 %	316.9 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0062 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0021 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0052 ppm	0.0010 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0007 ppm	0.0112 ppm	-0.0009 ppm
Recovery Percentage 1	0.675 %	-0.031 %	-0.102 %	5.363 %	0.819 %	0.246 %	0.158 %
Concentration RSD	83.5 %	1,878.8 %	1,373.4 %	37.1 %	70.3 %	74.5 %	623.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0007 ppm	0.0116 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0114 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	0.0130 ppm	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	0.0007 ppm	0.0105 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm
Recovery Percentage 1	-0.078 %	1.352 %	0.582 %	0.081 %	-2.107 %	0.128 %	1.119 %
Concentration RSD	1,110.2 %	3.9 %	10.5 %	300.5 %	99.4 %	520.2 %	563.4 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0002 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm
Recovery Percentage 1	-0.058 %	-0.060 %	-0.169 %	0.819 %	-2.410 %	1.452 %	0.158 %
Concentration RSD	47.0 %	1,219.0 %	88.2 %	45.0 %	21.5 %	80.8 %	1,579.6 %

	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)	Li 670.784 {50} (Radial)
Concentration average	102.5173 %	101.5496 %	98.9614 %	99.8940 %	100.9683 %	98.8709 %	-0.0003 ppm
Concentration per Run 1	104.5731 %	101.4363 %	98.6171 %	101.3816 %	100.4749 %	98.6879 %	-0.0001 ppm
Concentration per Run 2	101.3655 %	102.1773 %	99.1754 %	98.9106 %	101.1699 %	99.5326 %	-0.0006 ppm
Concentration per Run 3	101.6132 %	101.0353 %	99.0917 %	99.3898 %	101.2600 %	98.3923 %	-0.0001 ppm
Recovery Percentage 1							-2.609 %
Concentration RSD	1.7 %	0.6 %	0.3 %	1.3 %	0.4 %	0.6 %	114.0 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083265-1 WG2083265

Analysis started at: 6/26/2025 3:20:45 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	-0.0001 ppm	0.0023 ppm	-0.0008 ppm	0.0061 ppm	0.0003 ppm	0.0000 ppm	0.0413 ppm
Concentration per Run 1	-0.0001 ppm	0.0040 ppm	-0.0004 ppm	0.0060 ppm	0.0003 ppm	0.0000 ppm	0.0352 ppm
Concentration per Run 2	-0.0002 ppm	0.0008 ppm	-0.0004 ppm	0.0063 ppm	0.0004 ppm	0.0000 ppm	0.0456 ppm
Concentration per Run 3	0.0000 ppm	0.0023 ppm	-0.0015 ppm	0.0059 ppm	0.0003 ppm	0.0000 ppm	0.0429 ppm
Concentration RSD	97.5 %	68.1 %	77.7 %	2.8 %	18.8 %	413.9 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0005 ppm	0.0004 ppm	0.0024 ppm	0.0068 ppm	0.0397 ppm	0.0087 ppm
Concentration per Run 1	0.0002 ppm	-0.0004 ppm	0.0002 ppm	0.0024 ppm	0.0060 ppm	0.0347 ppm	0.0093 ppm
Concentration per Run 2	0.0003 ppm	-0.0005 ppm	0.0005 ppm	0.0023 ppm	0.0070 ppm	0.0382 ppm	0.0088 ppm
Concentration per Run 3	0.0002 ppm	-0.0005 ppm	0.0003 ppm	0.0023 ppm	0.0075 ppm	0.0463 ppm	0.0080 ppm
Concentration RSD	25.7 %	4.9 %	41.5 %	2.9 %	11.4 %	15.0 %	7.7 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0003 ppm	118.1686 ppm	-0.0004 ppm	-0.0015 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	107.1094 ppm	-0.0003 ppm	-0.0013 ppm	-0.0004 ppm	0.0037 ppm
Concentration per Run 2	0.0002 ppm	0.0005 ppm	114.4539 ppm	-0.0003 ppm	-0.0020 ppm	0.0001 ppm	0.0038 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	132.9425 ppm	-0.0005 ppm	-0.0013 ppm	0.0004 ppm	0.0036 ppm
Concentration RSD	20.2 %	45.9 %	11.3 %	28.2 %	26.4 %	988.3 %	3.3 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0349 ppm	0.0016 ppm	0.0002 ppm	-0.0002 ppm	-0.0068 ppm	-0.0001 ppm	0.0018 ppm
Concentration per Run 1	0.0346 ppm	0.0014 ppm	0.0002 ppm	-0.0002 ppm	-0.0066 ppm	-0.0002 ppm	0.0019 ppm
Concentration per Run 2	0.0350 ppm	0.0015 ppm	0.0002 ppm	-0.0002 ppm	-0.0062 ppm	0.0001 ppm	0.0017 ppm
Concentration per Run 3	0.0350 ppm	0.0019 ppm	0.0002 ppm	-0.0001 ppm	-0.0076 ppm	0.0000 ppm	0.0019 ppm
Concentration RSD	0.5 %	17.7 %	9.6 %	23.8 %	10.9 %	226.0 %	6.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	97.7716 %	90.4178 %	90.7384 %	111.1909 %	76.5805 %	92.5712 %	0.0002 ppm
Concentration per Run 1	100.2179 %	90.4158 %	90.9872 %	119.4682 %	77.0559 %	92.7612 %	0.0003 ppm
Concentration per Run 2	96.6903 %	90.5202 %	89.6682 %	108.8915 %	75.7969 %	92.7567 %	0.0002 ppm
Concentration per Run 3	96.4066 %	90.3173 %	91.5596 %	105.2129 %	76.8888 %	92.1958 %	0.0000 ppm
Concentration RSD	2.2 %	0.1 %	1.1 %	6.7 %	0.9 %	0.4 %	75.9 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083265-2 WG2083265

Analysis started at: 6/26/2025 3:27:33 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	0.0493 ppm	2.0234 ppm	0.1051 ppm	0.9178 ppm	1.9503 ppm	0.0490 ppm	9.8416 ppm
Concentration per Run 1	0.0491 ppm	1.9762 ppm	0.1041 ppm	0.9148 ppm	1.9011 ppm	0.0476 ppm	9.5053 ppm
Concentration per Run 2	0.0496 ppm	2.0422 ppm	0.1045 ppm	0.9197 ppm	1.9997 ppm	0.0492 ppm	9.8938 ppm
Concentration per Run 3	0.0492 ppm	2.0517 ppm	0.1066 ppm	0.9189 ppm	1.9500 ppm	0.0502 ppm	10.1257 ppm
Concentration RSD	0.5 %	2.0 %	1.3 %	0.3 %	2.5 %	2.7 %	3.2 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0502 ppm	0.4942 ppm	0.2046 ppm	0.2483 ppm	0.9935 ppm	10.1025 ppm	9.4552 ppm
Concentration per Run 1	0.0502 ppm	0.4943 ppm	0.2042 ppm	0.2469 ppm	0.9692 ppm	10.0388 ppm	9.4382 ppm
Concentration per Run 2	0.0503 ppm	0.4952 ppm	0.2052 ppm	0.2491 ppm	0.9984 ppm	10.2025 ppm	9.4429 ppm
Concentration per Run 3	0.0500 ppm	0.4932 ppm	0.2044 ppm	0.2490 ppm	1.0129 ppm	10.0663 ppm	9.4843 ppm
Concentration RSD	0.3 %	0.2 %	0.3 %	0.5 %	2.2 %	0.9 %	0.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.4878 ppm	0.9529 ppm	9.9317 ppm	0.4827 ppm	0.5032 ppm	0.4786 ppm	0.1102 ppm
Concentration per Run 1	0.4723 ppm	0.9499 ppm	9.8758 ppm	0.4803 ppm	0.5027 ppm	0.4767 ppm	0.1103 ppm
Concentration per Run 2	0.4915 ppm	0.9560 ppm	10.0184 ppm	0.4843 ppm	0.5036 ppm	0.4798 ppm	0.1088 ppm
Concentration per Run 3	0.4997 ppm	0.9529 ppm	9.9008 ppm	0.4836 ppm	0.5032 ppm	0.4792 ppm	0.1113 ppm
Concentration RSD	2.9 %	0.3 %	0.8 %	0.4 %	0.1 %	0.3 %	1.2 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	1.1859 ppm	0.9087 ppm	1.0008 ppm	0.9897 ppm	0.1067 ppm	0.4960 ppm	0.4908 ppm
Concentration per Run 1	1.1824 ppm	0.9073 ppm	0.9777 ppm	0.9884 ppm	0.1046 ppm	0.4955 ppm	0.4915 ppm
Concentration per Run 2	1.1877 ppm	0.9091 ppm	1.0085 ppm	0.9918 ppm	0.1064 ppm	0.4976 ppm	0.4909 ppm
Concentration per Run 3	1.1876 ppm	0.9098 ppm	1.0163 ppm	0.9889 ppm	0.1090 ppm	0.4947 ppm	0.4901 ppm
Concentration RSD	0.3 %	0.1 %	2.0 %	0.2 %	2.1 %	0.3 %	0.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	99.8170 %	97.1650 %	96.1405 %	100.7537 %	85.7525 %	96.9055 %	0.0001 ppm
Concentration per Run 1	102.0157 %	97.4059 %	96.5806 %	103.7073 %	86.1254 %	97.2141 %	0.0001 ppm
Concentration per Run 2	99.0831 %	96.7983 %	95.8784 %	99.8785 %	85.5486 %	96.5103 %	0.0001 ppm
Concentration per Run 3	98.3521 %	97.2907 %	95.9627 %	98.6753 %	85.5835 %	96.9920 %	0.0002 ppm
Concentration RSD	1.9 %	0.3 %	0.4 %	2.6 %	0.4 %	0.4 %	44.1 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537679-01 WG2083265

Analysis started at: 6/26/2025 3:34:00 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	-0.0002 ppm	0.0415 ppm	-0.0006 ppm	0.0121 ppm	0.0880 ppm	0.0000 ppm	25.2913 ppm
Concentration per Run 1	-0.0002 ppm	0.0426 ppm	-0.0014 ppm	0.0119 ppm	0.0870 ppm	0.0000 ppm	24.4315 ppm
Concentration per Run 2	-0.0001 ppm	0.0430 ppm	0.0009 ppm	0.0124 ppm	0.0886 ppm	0.0000 ppm	25.7112 ppm
Concentration per Run 3	-0.0002 ppm	0.0390 ppm	-0.0013 ppm	0.0120 ppm	0.0885 ppm	0.0000 ppm	25.7312 ppm
Concentration RSD	50.2 %	5.3 %	206.2 %	2.3 %	1.0 %	30.3 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0136 ppm	0.0004 ppm	0.0002 ppm	0.0824 ppm	0.0102 ppm	0.4072 ppm	0.7727 ppm
Concentration per Run 1	0.0136 ppm	0.0004 ppm	0.0002 ppm	0.0807 ppm	0.0103 ppm	0.4093 ppm	0.7656 ppm
Concentration per Run 2	0.0136 ppm	0.0003 ppm	0.0000 ppm	0.0836 ppm	0.0103 ppm	0.4058 ppm	0.7754 ppm
Concentration per Run 3	0.0136 ppm	0.0004 ppm	0.0004 ppm	0.0828 ppm	0.0100 ppm	0.4066 ppm	0.7770 ppm
Concentration RSD	0.3 %	26.6 %	101.1 %	1.8 %	1.6 %	0.5 %	0.8 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0502 ppm	0.0012 ppm	132.4598 ppm	0.0242 ppm	0.2056 ppm	0.0047 ppm	0.0041 ppm
Concentration per Run 1	0.0487 ppm	0.0014 ppm	134.0215 ppm	0.0245 ppm	0.2069 ppm	0.0050 ppm	0.0045 ppm
Concentration per Run 2	0.0508 ppm	0.0011 ppm	136.2265 ppm	0.0243 ppm	0.2048 ppm	0.0041 ppm	0.0041 ppm
Concentration per Run 3	0.0510 ppm	0.0012 ppm	127.1316 ppm	0.0238 ppm	0.2053 ppm	0.0050 ppm	0.0035 ppm
Concentration RSD	2.5 %	10.1 %	3.6 %	1.7 %	0.5 %	12.0 %	12.6 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.9861 ppm	0.0026 ppm	0.0988 ppm	-0.0001 ppm	-0.0074 ppm	0.0000 ppm	3.5649 ppm
Concentration per Run 1	0.9899 ppm	0.0029 ppm	0.0976 ppm	0.0000 ppm	-0.0072 ppm	0.0000 ppm	3.5789 ppm
Concentration per Run 2	0.9850 ppm	0.0026 ppm	0.0996 ppm	-0.0001 ppm	-0.0072 ppm	0.0000 ppm	3.5648 ppm
Concentration per Run 3	0.9835 ppm	0.0023 ppm	0.0993 ppm	-0.0002 ppm	-0.0077 ppm	0.0000 ppm	3.5511 ppm
Concentration RSD	0.3 %	11.5 %	1.1 %	156.9 %	4.0 %	709.9 %	0.4 %

	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)	Li 670.784 {50} (Radial)
Concentration average	97.6738 %	91.1653 %	91.8065 %	98.9801 %	75.9499 %	91.1813 %	0.0009 ppm
Concentration per Run 1	99.2200 %	91.2902 %	91.9205 %	101.2258 %	75.8485 %	91.4811 %	0.0009 ppm
Concentration per Run 2	96.9644 %	90.8121 %	91.5033 %	97.7928 %	75.8760 %	90.6945 %	0.0006 ppm
Concentration per Run 3	96.8368 %	91.3937 %	91.9956 %	97.9215 %	76.1250 %	91.3682 %	0.0012 ppm
Concentration RSD	1.4 %	0.3 %	0.3 %	2.0 %	0.2 %	0.5 %	32.9 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083265-3 WG2083265

Analysis started at: 6/26/2025 3:40:41 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	0.0513 ppm	2.0942 ppm	0.1117 ppm	0.9331 ppm	2.0180 ppm	0.0496 ppm	35.1877 ppm
Concentration per Run 1	0.0516 ppm	2.0763 ppm	0.1118 ppm	0.9343 ppm	1.9866 ppm	0.0486 ppm	34.3170 ppm
Concentration per Run 2	0.0508 ppm	2.0984 ppm	0.1107 ppm	0.9316 ppm	2.0402 ppm	0.0498 ppm	35.4206 ppm
Concentration per Run 3	0.0515 ppm	2.1079 ppm	0.1124 ppm	0.9334 ppm	2.0273 ppm	0.0504 ppm	35.8253 ppm
Concentration RSD	0.9 %	0.8 %	0.8 %	0.2 %	1.4 %	1.9 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0638 ppm	0.4804 ppm	0.2046 ppm	0.3304 ppm	0.9773 ppm	10.6682 ppm	9.6211 ppm
Concentration per Run 1	0.0635 ppm	0.4799 ppm	0.2036 ppm	0.3307 ppm	0.9569 ppm	10.8133 ppm	9.6115 ppm
Concentration per Run 2	0.0634 ppm	0.4778 ppm	0.2050 ppm	0.3303 ppm	0.9821 ppm	10.6245 ppm	9.6426 ppm
Concentration per Run 3	0.0643 ppm	0.4834 ppm	0.2053 ppm	0.3302 ppm	0.9928 ppm	10.5668 ppm	9.6091 ppm
Concentration RSD	0.8 %	0.6 %	0.4 %	0.1 %	1.9 %	1.2 %	0.2 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5337 ppm	0.9486 ppm	140.9550 ppm	0.5292 ppm	0.7133 ppm	0.5294 ppm	0.1178 ppm
Concentration per Run 1	0.5221 ppm	0.9467 ppm	139.0976 ppm	0.5314 ppm	0.7159 ppm	0.5345 ppm	0.1185 ppm
Concentration per Run 2	0.5373 ppm	0.9445 ppm	138.7762 ppm	0.5310 ppm	0.7168 ppm	0.5319 ppm	0.1199 ppm
Concentration per Run 3	0.5418 ppm	0.9545 ppm	144.9910 ppm	0.5251 ppm	0.7071 ppm	0.5219 ppm	0.1151 ppm
Concentration RSD	1.9 %	0.6 %	2.5 %	0.7 %	0.7 %	1.3 %	2.1 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	2.2817 ppm	0.9426 ppm	1.0929 ppm	0.9921 ppm	0.0984 ppm	0.5034 ppm	3.9967 ppm
Concentration per Run 1	2.2963 ppm	0.9451 ppm	1.0766 ppm	0.9906 ppm	0.0999 ppm	0.5031 ppm	3.9886 ppm
Concentration per Run 2	2.2895 ppm	0.9471 ppm	1.0984 ppm	0.9935 ppm	0.0992 ppm	0.5040 ppm	3.9986 ppm
Concentration per Run 3	2.2594 ppm	0.9355 ppm	1.1038 ppm	0.9923 ppm	0.0962 ppm	0.5030 ppm	4.0029 ppm
Concentration RSD	0.9 %	0.7 %	1.3 %	0.1 %	2.0 %	0.1 %	0.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	97.3277 %	91.3277 %	91.0726 %	97.9818 %	74.4484 %	90.5374 %	0.0009 ppm
Concentration per Run 1	98.3246 %	91.2472 %	90.5257 %	99.8079 %	73.8381 %	90.3568 %	0.0007 ppm
Concentration per Run 2	97.0508 %	91.5612 %	90.6047 %	97.1666 %	74.1406 %	90.7490 %	0.0014 ppm
Concentration per Run 3	96.6078 %	91.1746 %	92.0875 %	96.9710 %	75.3665 %	90.5065 %	0.0006 ppm
Concentration RSD	0.9 %	0.2 %	1.0 %	1.6 %	1.1 %	0.2 %	46.1 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083265-4 WG2083265

Analysis started at: 6/26/2025 3:47:15 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	-0.0002 ppm	0.0420 ppm	-0.0010 ppm	0.0123 ppm	0.0876 ppm	0.0000 ppm	25.4570 ppm
Concentration per Run 1	-0.0001 ppm	0.0396 ppm	-0.0014 ppm	0.0124 ppm	0.0863 ppm	0.0000 ppm	25.0439 ppm
Concentration per Run 2	-0.0001 ppm	0.0423 ppm	-0.0014 ppm	0.0124 ppm	0.0882 ppm	0.0000 ppm	25.7843 ppm
Concentration per Run 3	-0.0002 ppm	0.0442 ppm	-0.0001 ppm	0.0122 ppm	0.0883 ppm	0.0000 ppm	25.5428 ppm
Concentration RSD	38.8 %	5.5 %	79.1 %	0.9 %	1.3 %	112.9 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0135 ppm	0.0004 ppm	0.0004 ppm	0.0818 ppm	0.0114 ppm	0.4066 ppm	0.7723 ppm
Concentration per Run 1	0.0135 ppm	0.0004 ppm	0.0005 ppm	0.0818 ppm	0.0111 ppm	0.3930 ppm	0.7707 ppm
Concentration per Run 2	0.0135 ppm	0.0005 ppm	0.0005 ppm	0.0821 ppm	0.0118 ppm	0.4022 ppm	0.7746 ppm
Concentration per Run 3	0.0135 ppm	0.0003 ppm	0.0002 ppm	0.0815 ppm	0.0112 ppm	0.4246 ppm	0.7715 ppm
Concentration RSD	0.1 %	31.8 %	34.6 %	0.4 %	3.3 %	4.0 %	0.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0513 ppm	0.0013 ppm	133.6721 ppm	0.0246 ppm	0.2059 ppm	0.0045 ppm	0.0038 ppm
Concentration per Run 1	0.0506 ppm	0.0015 ppm	131.9872 ppm	0.0249 ppm	0.2061 ppm	0.0043 ppm	0.0044 ppm
Concentration per Run 2	0.0519 ppm	0.0011 ppm	135.6355 ppm	0.0248 ppm	0.2055 ppm	0.0042 ppm	0.0044 ppm
Concentration per Run 3	0.0514 ppm	0.0011 ppm	133.3936 ppm	0.0241 ppm	0.2061 ppm	0.0049 ppm	0.0024 ppm
Concentration RSD	1.3 %	16.9 %	1.4 %	1.7 %	0.2 %	8.2 %	30.7 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.9831 ppm	0.0025 ppm	0.0984 ppm	0.0001 ppm	-0.0071 ppm	0.0001 ppm	3.5438 ppm
Concentration per Run 1	0.9840 ppm	0.0031 ppm	0.0969 ppm	0.0001 ppm	-0.0078 ppm	0.0000 ppm	3.5402 ppm
Concentration per Run 2	0.9831 ppm	0.0025 ppm	0.0990 ppm	0.0001 ppm	-0.0064 ppm	0.0000 ppm	3.5507 ppm
Concentration per Run 3	0.9822 ppm	0.0019 ppm	0.0993 ppm	0.0001 ppm	-0.0071 ppm	0.0002 ppm	3.5405 ppm
Concentration RSD	0.1 %	24.0 %	1.4 %	5.5 %	9.7 %	133.3 %	0.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	97.6879 %	92.4269 %	92.7004 %	98.7053 %	76.3440 %	92.0728 %	0.0009 ppm
Concentration per Run 1	98.3348 %	92.3697 %	92.4867 %	100.1031 %	76.2527 %	91.9476 %	0.0009 ppm
Concentration per Run 2	97.2028 %	92.7203 %	92.8870 %	97.8470 %	76.3509 %	92.2719 %	0.0009 ppm
Concentration per Run 3	97.5260 %	92.1907 %	92.7275 %	98.1657 %	76.4285 %	91.9989 %	0.0009 ppm
Concentration RSD	0.6 %	0.3 %	0.2 %	1.2 %	0.1 %	0.2 %	2.4 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537679-04 WG2083265
 Analysis started at: 6/26/2025 3:53:55 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	0.0000 ppm	0.3382 ppm	-0.0023 ppm	0.0058 ppm	0.0185 ppm	0.0000 ppm	0.5042 ppm
Concentration per Run 1	0.0002 ppm	0.3295 ppm	-0.0030 ppm	0.0058 ppm	0.0180 ppm	0.0000 ppm	0.4826 ppm
Concentration per Run 2	0.0000 ppm	0.3380 ppm	-0.0021 ppm	0.0057 ppm	0.0185 ppm	0.0001 ppm	0.5158 ppm
Concentration per Run 3	-0.0002 ppm	0.3470 ppm	-0.0017 ppm	0.0058 ppm	0.0189 ppm	0.0000 ppm	0.5141 ppm
Concentration RSD	32,006.1 %	2.6 %	29.2 %	1.6 %	2.3 %	24.1 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	-0.0001 ppm	0.0007 ppm	0.0019 ppm	0.3891 ppm	0.2932 ppm	0.0993 ppm
Concentration per Run 1	0.0003 ppm	-0.0002 ppm	0.0008 ppm	0.0018 ppm	0.3770 ppm	0.2910 ppm	0.0982 ppm
Concentration per Run 2	0.0004 ppm	0.0001 ppm	0.0008 ppm	0.0019 ppm	0.3976 ppm	0.2835 ppm	0.0990 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0021 ppm	0.3928 ppm	0.3051 ppm	0.1008 ppm
Concentration RSD	19.9 %	205.0 %	29.3 %	7.9 %	2.8 %	3.7 %	1.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0145 ppm	0.0006 ppm	128.1277 ppm	0.0000 ppm	0.0093 ppm	0.0005 ppm	0.0042 ppm
Concentration per Run 1	0.0140 ppm	0.0005 ppm	125.7636 ppm	0.0000 ppm	0.0090 ppm	0.0010 ppm	0.0045 ppm
Concentration per Run 2	0.0148 ppm	0.0007 ppm	130.8884 ppm	-0.0001 ppm	0.0099 ppm	-0.0001 ppm	0.0028 ppm
Concentration per Run 3	0.0146 ppm	0.0006 ppm	127.7312 ppm	0.0000 ppm	0.0090 ppm	0.0005 ppm	0.0053 ppm
Concentration RSD	2.6 %	13.4 %	2.0 %	795.6 %	5.5 %	121.8 %	29.8 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.5556 ppm	0.0020 ppm	0.0031 ppm	0.0104 ppm	-0.0063 ppm	0.0008 ppm	0.0082 ppm
Concentration per Run 1	0.5600 ppm	0.0021 ppm	0.0030 ppm	0.0103 ppm	-0.0069 ppm	0.0010 ppm	0.0083 ppm
Concentration per Run 2	0.5557 ppm	0.0021 ppm	0.0032 ppm	0.0102 ppm	-0.0055 ppm	0.0007 ppm	0.0081 ppm
Concentration per Run 3	0.5512 ppm	0.0019 ppm	0.0032 ppm	0.0108 ppm	-0.0066 ppm	0.0007 ppm	0.0080 ppm
Concentration RSD	0.8 %	6.2 %	2.5 %	3.1 %	11.1 %	23.9 %	1.8 %

	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)	Li 670.784 {50} (Radial)
Concentration average	98.3919 %	93.0275 %	92.9332 %	99.4674 %	76.2863 %	92.4105 %	0.0004 ppm
Concentration per Run 1	100.4179 %	93.4567 %	92.8493 %	102.3573 %	76.4595 %	92.9880 %	0.0001 ppm
Concentration per Run 2	97.5116 %	93.4375 %	93.7006 %	98.2018 %	76.5302 %	92.8011 %	0.0007 ppm
Concentration per Run 3	97.2462 %	92.1882 %	92.2497 %	97.8432 %	75.8693 %	91.4424 %	0.0004 ppm
Concentration RSD	1.8 %	0.8 %	0.8 %	2.5 %	0.5 %	0.9 %	79.8 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537679-07 WG2083265

Analysis started at: 6/26/2025 4:00:40 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	-0.0002 ppm	0.0740 ppm	-0.0021 ppm	0.0045 ppm	0.0107 ppm	0.0000 ppm	0.3872 ppm
Concentration per Run 1	-0.0002 ppm	0.0736 ppm	-0.0016 ppm	0.0043 ppm	0.0104 ppm	0.0000 ppm	0.3758 ppm
Concentration per Run 2	-0.0001 ppm	0.0741 ppm	-0.0019 ppm	0.0043 ppm	0.0108 ppm	0.0000 ppm	0.3928 ppm
Concentration per Run 3	-0.0001 ppm	0.0742 ppm	-0.0027 ppm	0.0047 ppm	0.0107 ppm	0.0001 ppm	0.3929 ppm
Concentration RSD	34.4 %	0.4 %	28.5 %	5.6 %	2.3 %	48.2 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0005 ppm	-0.0003 ppm	0.0000 ppm	0.0016 ppm	0.0271 ppm	0.2476 ppm	0.0699 ppm
Concentration per Run 1	0.0004 ppm	-0.0004 ppm	0.0001 ppm	0.0018 ppm	0.0262 ppm	0.2465 ppm	0.0675 ppm
Concentration per Run 2	0.0005 ppm	-0.0003 ppm	0.0002 ppm	0.0018 ppm	0.0284 ppm	0.2489 ppm	0.0708 ppm
Concentration per Run 3	0.0005 ppm	-0.0003 ppm	-0.0001 ppm	0.0014 ppm	0.0266 ppm	0.2473 ppm	0.0714 ppm
Concentration RSD	9.6 %	22.1 %	465.7 %	13.9 %	4.2 %	0.5 %	3.0 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0070 ppm	0.0005 ppm	128.7052 ppm	-0.0002 ppm	0.0097 ppm	0.0008 ppm	0.0038 ppm
Concentration per Run 1	0.0068 ppm	0.0003 ppm	120.0837 ppm	-0.0003 ppm	0.0098 ppm	0.0007 ppm	0.0028 ppm
Concentration per Run 2	0.0072 ppm	0.0006 ppm	133.2359 ppm	-0.0002 ppm	0.0097 ppm	0.0004 ppm	0.0044 ppm
Concentration per Run 3	0.0070 ppm	0.0006 ppm	132.7961 ppm	-0.0003 ppm	0.0095 ppm	0.0014 ppm	0.0042 ppm
Concentration RSD	2.9 %	33.7 %	5.8 %	34.8 %	1.3 %	62.2 %	22.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.1233 ppm	0.0022 ppm	0.0021 ppm	-0.0001 ppm	-0.0078 ppm	-0.0001 ppm	0.0068 ppm
Concentration per Run 1	0.1240 ppm	0.0024 ppm	0.0020 ppm	-0.0003 ppm	-0.0080 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 2	0.1228 ppm	0.0021 ppm	0.0021 ppm	-0.0001 ppm	-0.0079 ppm	-0.0001 ppm	0.0068 ppm
Concentration per Run 3	0.1233 ppm	0.0022 ppm	0.0021 ppm	0.0000 ppm	-0.0074 ppm	-0.0002 ppm	0.0068 ppm
Concentration RSD	0.5 %	5.0 %	3.4 %	118.5 %	4.4 %	79.8 %	0.8 %

	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)	Li 670.784 {50} (Radial)
Concentration average	97.4214 %	92.4982 %	93.0131 %	98.9547 %	75.9075 %	91.5902 %	0.0002 ppm
Concentration per Run 1	98.4585 %	92.4132 %	92.7717 %	101.2508 %	75.6980 %	91.6192 %	0.0002 ppm
Concentration per Run 2	96.9752 %	92.4084 %	93.2329 %	98.0756 %	75.8883 %	91.3515 %	0.0002 ppm
Concentration per Run 3	96.8307 %	92.6729 %	93.0345 %	97.5376 %	76.1362 %	91.7998 %	0.0002 ppm
Concentration RSD	0.9 %	0.2 %	0.2 %	2.0 %	0.3 %	0.2 %	14.2 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537679-10 WG2083265

Analysis started at: 6/26/2025 4:07:28 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	-0.0001 ppm	0.0607 ppm	-0.0003 ppm	0.0047 ppm	0.0106 ppm	0.0001 ppm	1.7438 ppm
Concentration per Run 1	0.0000 ppm	0.0582 ppm	0.0011 ppm	0.0047 ppm	0.0104 ppm	0.0000 ppm	1.6883 ppm
Concentration per Run 2	0.0000 ppm	0.0615 ppm	-0.0018 ppm	0.0044 ppm	0.0107 ppm	0.0001 ppm	1.7733 ppm
Concentration per Run 3	-0.0002 ppm	0.0625 ppm	-0.0003 ppm	0.0050 ppm	0.0108 ppm	0.0000 ppm	1.7698 ppm
Concentration RSD	85.2 %	3.7 %	430.1 %	5.9 %	2.0 %	24.5 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0014 ppm	0.1070 ppm	0.2681 ppm	0.5783 ppm
Concentration per Run 1	0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0013 ppm	0.1037 ppm	0.2568 ppm	0.5771 ppm
Concentration per Run 2	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0015 ppm	0.1083 ppm	0.2628 ppm	0.5763 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0015 ppm	0.1090 ppm	0.2846 ppm	0.5816 ppm
Concentration RSD	18.2 %	93.5 %	14.1 %	6.7 %	2.7 %	5.5 %	0.5 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0453 ppm	0.0004 ppm	126.0825 ppm	-0.0001 ppm	0.0022 ppm	0.0012 ppm	0.0032 ppm
Concentration per Run 1	0.0438 ppm	0.0004 ppm	121.1821 ppm	-0.0002 ppm	0.0021 ppm	0.0017 ppm	0.0031 ppm
Concentration per Run 2	0.0460 ppm	0.0003 ppm	135.3312 ppm	0.0000 ppm	0.0018 ppm	0.0011 ppm	0.0032 ppm
Concentration per Run 3	0.0460 ppm	0.0004 ppm	121.7343 ppm	-0.0002 ppm	0.0028 ppm	0.0009 ppm	0.0032 ppm
Concentration RSD	2.8 %	10.0 %	6.4 %	65.3 %	23.7 %	32.0 %	1.1 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.1613 ppm	0.0014 ppm	0.0106 ppm	0.0001 ppm	-0.0077 ppm	0.0001 ppm	0.0062 ppm
Concentration per Run 1	0.1607 ppm	0.0011 ppm	0.0103 ppm	0.0001 ppm	-0.0072 ppm	0.0001 ppm	0.0063 ppm
Concentration per Run 2	0.1618 ppm	0.0014 ppm	0.0107 ppm	0.0001 ppm	-0.0075 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 3	0.1612 ppm	0.0018 ppm	0.0107 ppm	0.0001 ppm	-0.0085 ppm	0.0001 ppm	0.0061 ppm
Concentration RSD	0.4 %	25.2 %	2.2 %	40.2 %	9.2 %	51.5 %	1.8 %

	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)	Li 670.784 {50} (Radial)
Concentration average	97.7979 %	93.7078 %	93.4099 %	98.9356 %	76.1440 %	92.5890 %	0.0002 ppm
Concentration per Run 1	99.4715 %	93.5622 %	94.1895 %	101.7290 %	76.6518 %	92.4793 %	0.0002 ppm
Concentration per Run 2	97.1505 %	93.9224 %	92.7332 %	97.6205 %	75.4656 %	92.9459 %	0.0002 ppm
Concentration per Run 3	96.7717 %	93.6389 %	93.3070 %	97.4573 %	76.3147 %	92.3418 %	0.0003 ppm
Concentration RSD	1.5 %	0.2 %	0.8 %	2.4 %	0.8 %	0.3 %	37.4 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
 Analysis started at: 6/26/2025 4:14:13 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	0.5112 ppm	0.4965 ppm	0.4652 ppm	0.5067 ppm	0.4923 ppm	0.4940 ppm	0.5016 ppm
Concentration per Run 1	0.5123 ppm	0.4857 ppm	0.4654 ppm	0.5042 ppm	0.4834 ppm	0.4844 ppm	0.4902 ppm
Concentration per Run 2	0.5086 ppm	0.5038 ppm	0.4655 ppm	0.5077 ppm	0.4965 ppm	0.4969 ppm	0.5020 ppm
Concentration per Run 3	0.5126 ppm	0.5001 ppm	0.4647 ppm	0.5082 ppm	0.4969 ppm	0.5008 ppm	0.5125 ppm
Recovery Percentage 1	102.235 %	99.309 %	93.036 %	101.338 %	98.451 %	98.810 %	100.312 %
Concentration RSD	0.4 %	1.9 %	0.1 %	0.4 %	1.6 %	1.7 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.4864 ppm	0.5159 ppm	0.5132 ppm	0.4996 ppm	0.4929 ppm	5.2761 ppm	0.5191 ppm
Concentration per Run 1	0.4844 ppm	0.5148 ppm	0.5136 ppm	0.4986 ppm	0.4800 ppm	5.1656 ppm	0.5170 ppm
Concentration per Run 2	0.4865 ppm	0.5160 ppm	0.5121 ppm	0.4978 ppm	0.4993 ppm	5.3695 ppm	0.5174 ppm
Concentration per Run 3	0.4883 ppm	0.5170 ppm	0.5138 ppm	0.5024 ppm	0.4994 ppm	5.2932 ppm	0.5229 ppm
Recovery Percentage 1	97.276 %	103.187 %	102.634 %	99.920 %	98.582 %	105.522 %	103.817 %
Concentration RSD	0.4 %	0.2 %	0.2 %	0.5 %	2.3 %	2.0 %	0.6 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.4989 ppm	0.4934 ppm	9.9676 ppm	0.4709 ppm	0.4817 ppm	0.4758 ppm	0.4991 ppm
Concentration per Run 1	0.4884 ppm	0.4920 ppm	9.7516 ppm	0.4732 ppm	0.4836 ppm	0.4780 ppm	0.4979 ppm
Concentration per Run 2	0.5024 ppm	0.4931 ppm	10.1501 ppm	0.4698 ppm	0.4808 ppm	0.4745 ppm	0.4980 ppm
Concentration per Run 3	0.5060 ppm	0.4951 ppm	10.0010 ppm	0.4696 ppm	0.4807 ppm	0.4748 ppm	0.5013 ppm
Recovery Percentage 1	99.789 %	98.683 %	99.676 %	94.178 %	96.336 %	95.152 %	99.810 %
Concentration RSD	1.9 %	0.3 %	2.0 %	0.4 %	0.3 %	0.4 %	0.4 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	5.1479 ppm	0.4602 ppm	0.5143 ppm	0.5073 ppm	0.4847 ppm	0.5042 ppm	0.5052 ppm
Concentration per Run 1	5.1818 ppm	0.4623 ppm	0.5045 ppm	0.5076 ppm	0.4870 ppm	0.5038 ppm	0.5051 ppm
Concentration per Run 2	5.1309 ppm	0.4580 ppm	0.5185 ppm	0.5074 ppm	0.4851 ppm	0.5044 ppm	0.5043 ppm
Concentration per Run 3	5.1310 ppm	0.4604 ppm	0.5199 ppm	0.5069 ppm	0.4820 ppm	0.5043 ppm	0.5063 ppm
Recovery Percentage 1	98.055 %	92.045 %	102.859 %	101.461 %	96.940 %	100.836 %	101.044 %
Concentration RSD	0.6 %	0.5 %	1.7 %	0.1 %	0.5 %	0.1 %	0.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.9834 %	99.8939 %	99.2532 %	101.8800 %	94.2396 %	98.9535 %	0.5237 ppm
Concentration per Run 1	103.2923 %	100.0970 %	98.8889 %	103.7510 %	93.5620 %	99.1489 %	0.5135 ppm
Concentration per Run 2	99.9040 %	99.7652 %	99.3762 %	100.9873 %	94.5585 %	98.8501 %	0.5326 ppm
Concentration per Run 3	99.7538 %	99.8195 %	99.4946 %	100.9018 %	94.5984 %	98.8614 %	0.5250 ppm
Recovery Percentage 1							104.737 %
Concentration RSD	2.0 %	0.2 %	0.3 %	1.6 %	0.6 %	0.2 %	1.8 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 4:20:32 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	-0.0011 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 1	-0.0001 ppm	0.0027 ppm	-0.0001 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0029 ppm	-0.0013 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 3	-0.0001 ppm	0.0014 ppm	-0.0019 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0020 ppm
Recovery Percentage 1	-0.382 %	0.424 %	-22.534 %	3.305 %	0.122 %	0.164 %	-0.741 %
Concentration RSD	372.2 %	690.3 %	79.9 %	19.3 %	150.0 %	315.8 %	162.3 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0075 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0075 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0009 ppm	0.0035 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0113 ppm	0.0009 ppm
Recovery Percentage 1	0.223 %	-0.214 %	0.340 %	4.259 %	0.654 %	0.298 %	0.476 %
Concentration RSD	322.2 %	234.5 %	292.6 %	35.6 %	143.8 %	52.8 %	153.5 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0006 ppm	0.0122 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm	0.0017 ppm
Concentration per Run 1	-0.0002 ppm	0.0007 ppm	0.0128 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0126 ppm	0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0020 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	0.0110 ppm	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0008 ppm
Recovery Percentage 1	0.190 %	1.154 %	0.608 %	0.849 %	0.617 %	1.297 %	16.808 %
Concentration RSD	849.3 %	17.7 %	8.0 %	124.2 %	192.6 %	96.3 %	46.2 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0002 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm
Recovery Percentage 1	-0.004 %	-0.064 %	0.006 %	-0.027 %	1.927 %	1.029 %	-1.541 %
Concentration RSD	997.2 %	1,034.6 %	2,325.7 %	1,917.7 %	89.9 %	25.3 %	137.4 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.3988 %	102.0032 %	100.1553 %	99.5385 %	101.6063 %	99.5096 %	-0.0001 ppm
Concentration per Run 1	103.2165 %	102.3518 %	101.1889 %	100.6747 %	102.0412 %	99.7034 %	0.0001 ppm
Concentration per Run 2	100.7725 %	101.9702 %	100.0002 %	99.0930 %	101.5538 %	99.3754 %	-0.0001 ppm
Concentration per Run 3	100.2073 %	101.6875 %	99.2767 %	98.8479 %	101.2238 %	99.4500 %	-0.0001 ppm
Recovery Percentage 1							-0.547 %
Concentration RSD	1.6 %	0.3 %	1.0 %	1.0 %	0.4 %	0.2 %	248.9 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2081457-1 WG2081457

Analysis started at: 6/26/2025 4:49:37 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	-0.0002 ppm	0.0038 ppm	-0.0004 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0130 ppm
Concentration per Run 1	-0.0002 ppm	0.0003 ppm	-0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0120 ppm
Concentration per Run 2	-0.0002 ppm	0.0059 ppm	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0143 ppm
Concentration per Run 3	-0.0002 ppm	0.0051 ppm	-0.0008 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0127 ppm
Recovery Percentage 1	-2.911 %	3.770 %	-8.681 %	1.904 %	0.169 %	0.249 %	12.990 %
Concentration RSD	19.4 %	80.9 %	110.9 %	30.9 %	84.6 %	94.8 %	9.0 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0023 ppm	-0.0061 ppm	0.0040 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0024 ppm	-0.0173 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0020 ppm	0.0008 ppm	0.0058 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0024 ppm	-0.0019 ppm	0.0036 ppm
Recovery Percentage 1	-0.642 %	-0.036 %	-0.458 %	7.817 %	4.524 %	-0.244 %	3.955 %
Concentration RSD	170.2 %	1,328.6 %	383.7 %	17.1 %	10.7 %	160.3 %	42.7 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0001 ppm	0.0108 ppm	0.0002 ppm	0.0000 ppm	-0.0004 ppm	0.0006 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	0.0103 ppm	0.0004 ppm	0.0002 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0092 ppm	0.0002 ppm	0.0002 ppm	-0.0007 ppm	0.0020 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0127 ppm	0.0001 ppm	-0.0003 ppm	-0.0010 ppm	-0.0004 ppm
Recovery Percentage 1	1.676 %	0.120 %	0.538 %	0.907 %	0.497 %	-0.789 %	6.190 %
Concentration RSD	69.8 %	112.4 %	16.6 %	72.3 %	570.1 %	210.5 %	194.8 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0089 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 1	0.0089 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0006 ppm
Concentration per Run 2	0.0085 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 3	0.0094 ppm	-0.0005 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0007 ppm
Recovery Percentage 1	1.784 %	-0.627 %	-0.028 %	0.331 %	-0.898 %	-0.458 %	12.245 %
Concentration RSD	5.1 %	43.2 %	1,387.9 %	729.2 %	110.6 %	399.5 %	10.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	103.0020 %	101.6475 %	99.4690 %	104.4926 %	105.6758 %	100.8594 %	-0.0002 ppm
Concentration per Run 1	104.7042 %	101.7156 %	99.0409 %	106.3256 %	105.1148 %	100.9886 %	0.0000 ppm
Concentration per Run 2	102.4337 %	101.1788 %	100.7955 %	104.0285 %	107.2998 %	100.4346 %	-0.0004 ppm
Concentration per Run 3	101.8682 %	102.0480 %	98.5706 %	103.1238 %	104.6126 %	101.1550 %	-0.0002 ppm
Recovery Percentage 1							-2.091 %
Concentration RSD	1.5 %	0.4 %	1.2 %	1.6 %	1.4 %	0.4 %	111.6 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2081457-2 WG2081457

Analysis started at: 6/26/2025 4:56:16 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	0.0518 ppm	2.1414 ppm	0.1148 ppm	0.9858 ppm	2.0161 ppm	0.0494 ppm	10.3521 ppm
Concentration per Run 1	0.0517 ppm	2.1250 ppm	0.1156 ppm	0.9880 ppm	1.9697 ppm	0.0489 ppm	10.2314 ppm
Concentration per Run 2	0.0525 ppm	2.1468 ppm	0.1146 ppm	0.9899 ppm	2.0558 ppm	0.0496 ppm	10.4502 ppm
Concentration per Run 3	0.0513 ppm	2.1523 ppm	0.1144 ppm	0.9794 ppm	2.0228 ppm	0.0497 ppm	10.3749 ppm
Concentration RSD	1.1 %	0.7 %	0.6 %	0.6 %	2.2 %	0.9 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0500 ppm	0.4978 ppm	0.2053 ppm	0.2508 ppm	0.9941 ppm	11.5349 ppm	10.2920 ppm
Concentration per Run 1	0.0504 ppm	0.5002 ppm	0.2065 ppm	0.2502 ppm	0.9859 ppm	11.5656 ppm	10.3152 ppm
Concentration per Run 2	0.0502 ppm	0.4996 ppm	0.2053 ppm	0.2544 ppm	0.9998 ppm	11.5206 ppm	10.3757 ppm
Concentration per Run 3	0.0494 ppm	0.4937 ppm	0.2040 ppm	0.2479 ppm	0.9968 ppm	11.5185 ppm	10.1851 ppm
Concentration RSD	1.1 %	0.7 %	0.6 %	1.3 %	0.7 %	0.2 %	0.9 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.4984 ppm	0.9595 ppm	11.2048 ppm	0.4602 ppm	0.5114 ppm	0.4663 ppm	0.1245 ppm
Concentration per Run 1	0.4937 ppm	0.9625 ppm	11.2290 ppm	0.4609 ppm	0.5121 ppm	0.4641 ppm	0.1256 ppm
Concentration per Run 2	0.5015 ppm	0.9625 ppm	11.1873 ppm	0.4594 ppm	0.5108 ppm	0.4654 ppm	0.1230 ppm
Concentration per Run 3	0.5000 ppm	0.9535 ppm	11.1979 ppm	0.4603 ppm	0.5113 ppm	0.4694 ppm	0.1248 ppm
Concentration RSD	0.8 %	0.5 %	0.2 %	0.2 %	0.1 %	0.6 %	1.1 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	1.2082 ppm	0.8957 ppm	1.0620 ppm	1.0223 ppm	0.1124 ppm	0.4982 ppm	0.4944 ppm
Concentration per Run 1	1.2073 ppm	0.8961 ppm	1.0549 ppm	1.0266 ppm	0.1118 ppm	0.5015 ppm	0.4940 ppm
Concentration per Run 2	1.2043 ppm	0.8954 ppm	1.0643 ppm	1.0234 ppm	0.1130 ppm	0.4989 ppm	0.4950 ppm
Concentration per Run 3	1.2129 ppm	0.8955 ppm	1.0667 ppm	1.0168 ppm	0.1123 ppm	0.4943 ppm	0.4943 ppm
Concentration RSD	0.4 %	0.0 %	0.6 %	0.5 %	0.5 %	0.7 %	0.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.4264 %	97.2035 %	95.0848 %	98.9569 %	90.9061 %	96.5048 %	0.0000 ppm
Concentration per Run 1	101.5902 %	97.3802 %	95.5639 %	99.6710 %	90.9999 %	96.2750 %	0.0000 ppm
Concentration per Run 2	99.9984 %	97.5037 %	95.2383 %	98.5178 %	91.2269 %	96.3266 %	0.0002 ppm
Concentration per Run 3	99.6906 %	96.7265 %	94.4521 %	98.6819 %	90.4916 %	96.9129 %	-0.0002 ppm
Concentration RSD	1.0 %	0.4 %	0.6 %	0.6 %	0.4 %	0.4 %	893.5 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-03 WG2081457
 Analysis started at: 6/26/2025 5:02:43 PM
 Comments: equipment blank
 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	-0.0001 ppm	0.0118 ppm	-0.0010 ppm	0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0260 ppm
Concentration per Run 1	-0.0001 ppm	0.0111 ppm	-0.0005 ppm	0.0017 ppm	0.0002 ppm	0.0000 ppm	0.0245 ppm
Concentration per Run 2	-0.0001 ppm	0.0129 ppm	-0.0017 ppm	0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0289 ppm
Concentration per Run 3	0.0000 ppm	0.0114 ppm	-0.0006 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0247 ppm
Concentration RSD	84.1 %	8.2 %	71.0 %	21.8 %	15.2 %	33.4 %	9.5 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0021 ppm	0.0144 ppm	0.0192 ppm	0.0090 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0020 ppm	0.0148 ppm	0.0278 ppm	0.0113 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0022 ppm	0.0138 ppm	0.0146 ppm	0.0070 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0021 ppm	0.0147 ppm	0.0151 ppm	0.0087 ppm
Concentration RSD	61.9 %	48.6 %	18.4 %	5.1 %	4.1 %	39.1 %	24.0 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0019 ppm	0.0512 ppm	0.0006 ppm	0.0000 ppm	0.0017 ppm	0.0008 ppm
Concentration per Run 1	0.0002 ppm	0.0022 ppm	0.0492 ppm	0.0007 ppm	0.0001 ppm	0.0018 ppm	0.0015 ppm
Concentration per Run 2	0.0003 ppm	0.0018 ppm	0.0527 ppm	0.0005 ppm	0.0002 ppm	0.0015 ppm	-0.0002 ppm
Concentration per Run 3	0.0004 ppm	0.0018 ppm	0.0518 ppm	0.0005 ppm	-0.0001 ppm	0.0017 ppm	0.0010 ppm
Concentration RSD	20.1 %	9.5 %	3.6 %	24.6 %	453.3 %	11.6 %	110.4 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0156 ppm	0.0011 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	-0.0002 ppm	0.0147 ppm
Concentration per Run 1	0.0159 ppm	0.0011 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0147 ppm
Concentration per Run 2	0.0153 ppm	0.0013 ppm	0.0001 ppm	0.0003 ppm	0.0009 ppm	-0.0002 ppm	0.0146 ppm
Concentration per Run 3	0.0155 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0147 ppm
Concentration RSD	2.1 %	16.9 %	31.0 %	64.8 %	240.7 %	43.5 %	0.3 %

	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)	Li 670.784 {50} (Radial)
Concentration average	102.7094 %	101.3937 %	98.0389 %	99.1435 %	101.4936 %	99.0168 %	-0.0002 ppm
Concentration per Run 1	103.9500 %	101.5736 %	98.5382 %	99.2984 %	101.1863 %	99.1510 %	-0.0002 ppm
Concentration per Run 2	102.2820 %	101.0888 %	97.4296 %	99.0241 %	101.8653 %	98.7866 %	-0.0004 ppm
Concentration per Run 3	101.8964 %	101.5186 %	98.1489 %	99.1079 %	101.4292 %	99.1126 %	0.0000 ppm
Concentration RSD	1.1 %	0.3 %	0.6 %	0.1 %	0.3 %	0.2 %	115.1 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-01 WG2081457

Analysis started at: 6/26/2025 5:09:23 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	0.0069 ppm	0.0006 ppm	0.0177 ppm	0.0377 ppm	0.0000 ppm	45.5034 ppm
Concentration per Run 1	-0.0004 ppm	0.0071 ppm	0.0007 ppm	0.0176 ppm	0.0374 ppm	0.0000 ppm	45.8557 ppm
Concentration per Run 2	-0.0002 ppm	0.0060 ppm	0.0001 ppm	0.0180 ppm	0.0379 ppm	0.0000 ppm	45.5331 ppm
Concentration per Run 3	-0.0003 ppm	0.0075 ppm	0.0011 ppm	0.0176 ppm	0.0378 ppm	0.0000 ppm	45.1215 ppm
Concentration RSD	29.4 %	11.8 %	78.0 %	1.5 %	0.7 %	11.1 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0028 ppm	0.0058 ppm	1.3463 ppm	9.8648 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0030 ppm	0.0057 ppm	1.2955 ppm	9.8660 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0027 ppm	0.0058 ppm	1.3685 ppm	9.8155 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0029 ppm	0.0057 ppm	1.3751 ppm	9.9129 ppm
Concentration RSD	25.4 %	44.5 %	5.2 %	5.9 %	0.9 %	3.3 %	0.5 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0009 ppm	0.0008 ppm	4.7162 ppm	0.0002 ppm	-0.0003 ppm	0.0009 ppm	0.0026 ppm
Concentration per Run 1	0.0008 ppm	0.0008 ppm	4.5284 ppm	0.0001 ppm	-0.0003 ppm	0.0012 ppm	0.0019 ppm
Concentration per Run 2	0.0008 ppm	0.0008 ppm	4.7895 ppm	0.0003 ppm	-0.0002 ppm	0.0005 ppm	0.0035 ppm
Concentration per Run 3	0.0010 ppm	0.0007 ppm	4.8308 ppm	0.0001 ppm	-0.0002 ppm	0.0010 ppm	0.0023 ppm
Concentration RSD	11.1 %	0.8 %	3.5 %	56.0 %	28.9 %	40.9 %	32.4 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	3.1294 ppm	0.0002 ppm	0.0939 ppm	0.0002 ppm	-0.0006 ppm	0.0002 ppm	0.0057 ppm
Concentration per Run 1	3.1320 ppm	-0.0001 ppm	0.0934 ppm	0.0002 ppm	0.0007 ppm	0.0000 ppm	0.0057 ppm
Concentration per Run 2	3.1278 ppm	0.0002 ppm	0.0944 ppm	0.0001 ppm	-0.0016 ppm	0.0003 ppm	0.0057 ppm
Concentration per Run 3	3.1283 ppm	0.0004 ppm	0.0941 ppm	0.0002 ppm	-0.0009 ppm	0.0002 ppm	0.0057 ppm
Concentration RSD	0.1 %	161.5 %	0.6 %	23.7 %	197.5 %	92.9 %	0.5 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.8225 %	96.6665 %	93.5323 %	97.1781 %	89.4607 %	94.0242 %	0.0002 ppm
Concentration per Run 1	101.7503 %	96.2177 %	93.3551 %	97.2601 %	89.2546 %	93.5383 %	0.0004 ppm
Concentration per Run 2	100.4236 %	96.8647 %	93.6314 %	97.0701 %	89.6471 %	94.2649 %	0.0002 ppm
Concentration per Run 3	100.2936 %	96.9171 %	93.6104 %	97.2043 %	89.4805 %	94.2693 %	0.0002 ppm
Concentration RSD	0.8 %	0.4 %	0.2 %	0.1 %	0.2 %	0.4 %	44.1 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-02 WG2081457

Analysis started at: 6/26/2025 5:15:57 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	0.0000 ppm	2.3724 ppm	0.0066 ppm	0.0094 ppm	0.0572 ppm	0.0002 ppm	16.4438 ppm
Concentration per Run 1	-0.0002 ppm	2.3452 ppm	0.0054 ppm	0.0096 ppm	0.0566 ppm	0.0001 ppm	16.5244 ppm
Concentration per Run 2	-0.0001 ppm	2.3770 ppm	0.0064 ppm	0.0093 ppm	0.0575 ppm	0.0002 ppm	16.3553 ppm
Concentration per Run 3	0.0002 ppm	2.3950 ppm	0.0081 ppm	0.0094 ppm	0.0574 ppm	0.0002 ppm	16.4518 ppm
Concentration RSD	514.0 %	1.1 %	20.8 %	1.8 %	0.9 %	15.4 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	0.0011 ppm	0.0099 ppm	0.0058 ppm	42.1734 ppm	1.3895 ppm	6.4880 ppm
Concentration per Run 1	0.0004 ppm	0.0013 ppm	0.0099 ppm	0.0060 ppm	42.1198 ppm	1.3508 ppm	6.5107 ppm
Concentration per Run 2	0.0003 ppm	0.0011 ppm	0.0100 ppm	0.0056 ppm	42.1951 ppm	1.3995 ppm	6.4494 ppm
Concentration per Run 3	0.0004 ppm	0.0010 ppm	0.0098 ppm	0.0058 ppm	42.2055 ppm	1.4183 ppm	6.5040 ppm
Concentration RSD	7.8 %	16.2 %	1.1 %	3.2 %	0.1 %	2.5 %	0.5 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0858 ppm	0.0005 ppm	8.3153 ppm	0.0020 ppm	-0.0016 ppm	-0.0007 ppm	0.0004 ppm
Concentration per Run 1	0.0862 ppm	0.0005 ppm	8.1134 ppm	0.0022 ppm	-0.0014 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 2	0.0857 ppm	0.0005 ppm	8.3565 ppm	0.0020 ppm	-0.0021 ppm	-0.0012 ppm	-0.0007 ppm
Concentration per Run 3	0.0853 ppm	0.0005 ppm	8.4760 ppm	0.0016 ppm	-0.0013 ppm	0.0002 ppm	0.0019 ppm
Concentration RSD	0.5 %	3.2 %	2.2 %	16.8 %	26.7 %	109.3 %	320.2 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	15.2880 ppm	0.0005 ppm	0.0936 ppm	0.0909 ppm	-0.0013 ppm	0.0061 ppm	0.1056 ppm
Concentration per Run 1	15.3571 ppm	0.0008 ppm	0.0926 ppm	0.0910 ppm	-0.0002 ppm	0.0060 ppm	0.1057 ppm
Concentration per Run 2	15.2606 ppm	0.0008 ppm	0.0943 ppm	0.0910 ppm	-0.0023 ppm	0.0063 ppm	0.1053 ppm
Concentration per Run 3	15.2462 ppm	-0.0001 ppm	0.0940 ppm	0.0907 ppm	-0.0015 ppm	0.0061 ppm	0.1057 ppm
Concentration RSD	0.4 %	95.2 %	0.9 %	0.2 %	79.1 %	2.7 %	0.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	102.3380 %	98.1504 %	94.9715 %	100.3749 %	90.4569 %	95.9105 %	0.0049 ppm
Concentration per Run 1	103.7972 %	97.7753 %	94.8386 %	100.9855 %	89.8616 %	95.4904 %	0.0045 ppm
Concentration per Run 2	101.6933 %	98.3861 %	94.5734 %	100.1885 %	90.5979 %	96.1697 %	0.0049 ppm
Concentration per Run 3	101.5236 %	98.2898 %	95.5026 %	99.9508 %	90.9113 %	96.0714 %	0.0054 ppm
Concentration RSD	1.2 %	0.3 %	0.5 %	0.5 %	0.6 %	0.4 %	8.9 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2535446-01 WG2081457
 Analysis started at: 6/26/2025 5:22:34 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	0.0019 ppm	60.0619 ppm	0.0355 ppm	0.1333 ppm	0.1715 ppm	0.0002 ppm	228.7832 ppm
Concentration per Run 1	0.0016 ppm	59.3329 ppm	0.0360 ppm	0.1336 ppm	0.1690 ppm	0.0002 ppm	222.3455 ppm
Concentration per Run 2	0.0018 ppm	60.0804 ppm	0.0360 ppm	0.1340 ppm	0.1719 ppm	0.0002 ppm	231.7895 ppm
Concentration per Run 3	0.0022 ppm	60.7724 ppm	0.0344 ppm	0.1325 ppm	0.1737 ppm	0.0002 ppm	232.2145 ppm
Concentration RSD	15.1 %	1.2 %	2.7 %	0.6 %	1.4 %	5.6 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0008 ppm	0.0310 ppm	0.7334 ppm	0.0190 ppm	377.2151 [SIC 500]	125.0312 ppm	44.2842 ppm
Concentration per Run 1	0.0013 ppm	0.0308 ppm	0.7308 ppm	0.0194 ppm	364.7710 ppm	125.1586 ppm	44.2622 ppm
Concentration per Run 2	0.0002 ppm	0.0310 ppm	0.7374 ppm	0.0186 ppm	384.5234 ppm	123.4273 ppm	44.4122 ppm
Concentration per Run 3	0.0008 ppm	0.0313 ppm	0.7320 ppm	0.0189 ppm	382.3509 ppm	126.5077 ppm	44.1781 ppm
Concentration RSD	76.4 %	0.7 %	0.5 %	2.2 %	2.9 %	1.2 %	0.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	6.1616 ppm	0.1505 ppm	54.1656 ppm	0.5605 ppm	-0.0012 ppm	-0.0058 ppm	0.0198 ppm
Concentration per Run 1	6.0165 ppm	0.1504 ppm	54.3225 ppm	0.5630 ppm	-0.0004 ppm	-0.0062 ppm	0.0192 ppm
Concentration per Run 2	6.2239 ppm	0.1508 ppm	53.4149 ppm	0.5538 ppm	-0.0017 ppm	-0.0047 ppm	0.0177 ppm
Concentration per Run 3	6.2444 ppm	0.1504 ppm	54.7595 ppm	0.5647 ppm	-0.0013 ppm	-0.0065 ppm	0.0226 ppm
Concentration RSD	2.0 %	0.2 %	1.3 %	1.0 %	55.5 %	16.4 %	12.7 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	12.6720 ppm	0.0224 ppm	0.4420 ppm	0.3675 ppm	-0.0598 ppm	0.0739 ppm	3.0813 ppm
Concentration per Run 1	12.7231 ppm	0.0219 ppm	0.4350 ppm	0.3666 ppm	-0.0609 ppm	0.0738 ppm	3.0859 ppm
Concentration per Run 2	12.5277 ppm	0.0217 ppm	0.4436 ppm	0.3683 ppm	-0.0582 ppm	0.0743 ppm	3.0812 ppm
Concentration per Run 3	12.7652 ppm	0.0236 ppm	0.4475 ppm	0.3675 ppm	-0.0602 ppm	0.0737 ppm	3.0769 ppm
Concentration RSD	1.0 %	4.7 %	1.4 %	0.2 %	2.3 %	0.5 %	0.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	93.4913 %	83.2514 %	75.0211 %	94.0997 %	56.0462 %	81.4436 %	0.0138 ppm
Concentration per Run 1	95.0439 %	83.0882 %	74.5784 %	96.1518 %	55.8374 %	81.3047 %	0.0137 ppm
Concentration per Run 2	92.6940 %	83.4166 %	75.9073 %	93.4714 %	56.8388 %	81.6501 %	0.0134 ppm
Concentration per Run 3	92.7360 %	83.2494 %	74.5777 %	92.6759 %	55.4625 %	81.3762 %	0.0142 ppm
Concentration RSD	1.4 %	0.2 %	1.0 %	1.9 %	1.3 %	0.2 %	3.0 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2081457-3 WG2081457

Analysis started at: 6/26/2025 5:29:59 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	0.0561 ppm	64.4157 ppm	0.1709 ppm	0.9922 ppm	2.2450 ppm	0.0508 ppm	244.0770 ppm
Concentration per Run 1	0.0568 ppm	64.7529 ppm	0.1690 ppm	0.9965 ppm	2.2582 ppm	0.0507 ppm	243.1860 ppm
Concentration per Run 2	0.0562 ppm	64.1361 ppm	0.1691 ppm	0.9928 ppm	2.2312 ppm	0.0508 ppm	244.5718 ppm
Concentration per Run 3	0.0555 ppm	64.3581 ppm	0.1746 ppm	0.9871 ppm	2.2455 ppm	0.0510 ppm	244.4732 ppm
Concentration RSD	1.1 %	0.5 %	1.9 %	0.5 %	0.6 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0448 ppm	0.4656 ppm	0.9363 ppm	0.2979 ppm	389.1111 [SIC 500]	139.7481 ppm	52.7443 ppm
Concentration per Run 1	0.0444 ppm	0.4661 ppm	0.9398 ppm	0.2987 ppm	389.9303 ppm	142.8987 ppm	52.8957 ppm
Concentration per Run 2	0.0452 ppm	0.4667 ppm	0.9303 ppm	0.3013 ppm	388.8540 ppm	137.8121 ppm	52.7126 ppm
Concentration per Run 3	0.0449 ppm	0.4640 ppm	0.9388 ppm	0.2938 ppm	388.5489 ppm	138.5335 ppm	52.6247 ppm
Concentration RSD	0.9 %	0.3 %	0.6 %	1.3 %	0.2 %	2.0 %	0.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	6.8119 ppm	1.0759 ppm	64.9451 ppm	1.1076 ppm	0.5072 ppm	0.6319 ppm	0.1742 ppm
Concentration per Run 1	6.7963 ppm	1.0761 ppm	63.4432 ppm	1.1043 ppm	0.5036 ppm	0.6303 ppm	0.1768 ppm
Concentration per Run 2	6.8231 ppm	1.0782 ppm	65.5274 ppm	1.1083 ppm	0.5102 ppm	0.6337 ppm	0.1725 ppm
Concentration per Run 3	6.8162 ppm	1.0735 ppm	65.8645 ppm	1.1101 ppm	0.5077 ppm	0.6316 ppm	0.1733 ppm
Concentration RSD	0.2 %	0.2 %	2.0 %	0.3 %	0.7 %	0.3 %	1.3 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	14.4417 ppm	0.9881 ppm	1.5435 ppm	1.3910 ppm	0.0450 ppm	0.5744 ppm	3.5853 ppm
Concentration per Run 1	14.4206 ppm	0.9800 ppm	1.5430 ppm	1.3961 ppm	0.0441 ppm	0.5761 ppm	3.5787 ppm
Concentration per Run 2	14.4458 ppm	0.9938 ppm	1.5508 ppm	1.3858 ppm	0.0431 ppm	0.5717 ppm	3.5878 ppm
Concentration per Run 3	14.4588 ppm	0.9907 ppm	1.5367 ppm	1.3910 ppm	0.0480 ppm	0.5755 ppm	3.5892 ppm
Concentration RSD	0.1 %	0.7 %	0.5 %	0.4 %	5.8 %	0.4 %	0.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	92.5716 %	82.9908 %	74.2591 %	92.2142 %	55.2207 %	80.7724 %	0.0139 ppm
Concentration per Run 1	92.6880 %	82.6686 %	74.0749 %	92.5258 %	55.2761 %	80.4698 %	0.0145 ppm
Concentration per Run 2	92.7208 %	83.0619 %	74.5030 %	92.2703 %	55.2277 %	80.7512 %	0.0132 ppm
Concentration per Run 3	92.3061 %	83.2419 %	74.1995 %	91.8467 %	55.1584 %	81.0961 %	0.0141 ppm
Concentration RSD	0.2 %	0.4 %	0.3 %	0.4 %	0.1 %	0.4 %	4.6 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2081457-4 WG2081457
 Analysis started at: 6/26/2025 5:37:11 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	0.0020 ppm	60.7425 ppm	0.0348 ppm	0.1351 ppm	0.1741 ppm	0.0002 ppm	230.0007 ppm
Concentration per Run 1	0.0021 ppm	59.4531 ppm	0.0372 ppm	0.1356 ppm	0.1703 ppm	0.0002 ppm	226.1123 ppm
Concentration per Run 2	0.0020 ppm	61.6572 ppm	0.0336 ppm	0.1353 ppm	0.1764 ppm	0.0003 ppm	229.1832 ppm
Concentration per Run 3	0.0020 ppm	61.1172 ppm	0.0337 ppm	0.1343 ppm	0.1754 ppm	0.0002 ppm	234.7065 ppm
Concentration RSD	2.6 %	1.9 %	5.8 %	0.5 %	1.9 %	6.4 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	0.0314 ppm	0.7322 ppm	0.0190 ppm	379.7645 [SIC 500]	126.3550 ppm	44.3183 ppm
Concentration per Run 1	0.0004 ppm	0.0316 ppm	0.7284 ppm	0.0197 ppm	372.3926 ppm	122.8664 ppm	44.1547 ppm
Concentration per Run 2	0.0002 ppm	0.0314 ppm	0.7295 ppm	0.0192 ppm	382.1966 ppm	130.3739 ppm	44.2851 ppm
Concentration per Run 3	0.0006 ppm	0.0313 ppm	0.7386 ppm	0.0181 ppm	384.7044 ppm	125.8248 ppm	44.5151 ppm
Concentration RSD	50.9 %	0.5 %	0.8 %	4.4 %	1.7 %	3.0 %	0.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	6.2099 ppm	0.1529 ppm	54.6530 ppm	0.5670 ppm	-0.0009 ppm	-0.0061 ppm	0.0212 ppm
Concentration per Run 1	6.1064 ppm	0.1541 ppm	53.1288 ppm	0.5694 ppm	-0.0022 ppm	-0.0072 ppm	0.0222 ppm
Concentration per Run 2	6.2175 ppm	0.1532 ppm	56.5035 ppm	0.5670 ppm	-0.0002 ppm	-0.0054 ppm	0.0202 ppm
Concentration per Run 3	6.3059 ppm	0.1513 ppm	54.3267 ppm	0.5647 ppm	-0.0003 ppm	-0.0055 ppm	0.0211 ppm
Concentration RSD	1.6 %	0.9 %	3.1 %	0.4 %	126.7 %	16.8 %	4.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	12.8080 ppm	0.0222 ppm	0.4469 ppm	0.3698 ppm	-0.0606 ppm	0.0744 ppm	3.1145 ppm
Concentration per Run 1	12.8787 ppm	0.0214 ppm	0.4377 ppm	0.3685 ppm	-0.0607 ppm	0.0746 ppm	3.1413 ppm
Concentration per Run 2	12.8406 ppm	0.0239 ppm	0.4523 ppm	0.3698 ppm	-0.0618 ppm	0.0745 ppm	3.1135 ppm
Concentration per Run 3	12.7048 ppm	0.0213 ppm	0.4508 ppm	0.3709 ppm	-0.0592 ppm	0.0740 ppm	3.0886 ppm
Concentration RSD	0.7 %	6.5 %	1.8 %	0.3 %	2.2 %	0.4 %	0.8 %

	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)	Li 670.784 {50} (Radial)
Concentration average	93.9152 %	83.6854 %	75.0184 %	93.9165 %	55.9038 %	81.5742 %	0.0139 ppm
Concentration per Run 1	95.4039 %	83.4135 %	74.7884 %	95.8534 %	55.7035 %	81.1294 %	0.0131 ppm
Concentration per Run 2	93.6007 %	83.4342 %	74.8784 %	93.5060 %	55.7061 %	81.3012 %	0.0147 ppm
Concentration per Run 3	92.7409 %	84.2085 %	75.3884 %	92.3902 %	56.3016 %	82.2921 %	0.0139 ppm
Concentration RSD	1.4 %	0.5 %	0.4 %	1.9 %	0.6 %	0.8 %	5.8 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2081457-5 WG2081457
Analysis started at: 6/26/2025 5:43:42 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	0.0551 ppm	61.6220 ppm	0.1739 ppm	1.0211 ppm	2.2606 ppm	0.0516 ppm	234.5581 ppm
Concentration per Run 1	0.0552 ppm	61.3268 ppm	0.1755 ppm	1.0169 ppm	2.2586 ppm	0.0514 ppm	233.6427 ppm
Concentration per Run 2	0.0548 ppm	62.1243 ppm	0.1735 ppm	1.0157 ppm	2.2791 ppm	0.0517 ppm	234.3873 ppm
Concentration per Run 3	0.0552 ppm	61.4149 ppm	0.1728 ppm	1.0306 ppm	2.2442 ppm	0.0518 ppm	235.6442 ppm
Concentration RSD	0.4 %	0.7 %	0.8 %	0.8 %	0.8 %	0.3 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0456 ppm	0.4751 ppm	0.9028 ppm	0.3043 ppm	374.1820 [SIC 500]	132.8537 ppm	51.3389 ppm
Concentration per Run 1	0.0447 ppm	0.4730 ppm	0.9069 ppm	0.3032 ppm	373.2521 ppm	132.4543 ppm	51.4305 ppm
Concentration per Run 2	0.0455 ppm	0.4706 ppm	0.9065 ppm	0.3010 ppm	373.4545 ppm	134.6009 ppm	51.4229 ppm
Concentration per Run 3	0.0465 ppm	0.4817 ppm	0.8950 ppm	0.3086 ppm	375.8395 ppm	131.5057 ppm	51.1632 ppm
Concentration RSD	2.0 %	1.2 %	0.7 %	1.3 %	0.4 %	1.2 %	0.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	6.5430 ppm	1.1196 ppm	63.7143 ppm	1.0995 ppm	0.5250 ppm	0.6302 ppm	0.1727 ppm
Concentration per Run 1	6.5140 ppm	1.1134 ppm	63.4551 ppm	1.1039 ppm	0.5267 ppm	0.6335 ppm	0.1760 ppm
Concentration per Run 2	6.5544 ppm	1.1111 ppm	64.6245 ppm	1.0979 ppm	0.5253 ppm	0.6298 ppm	0.1733 ppm
Concentration per Run 3	6.5605 ppm	1.1345 ppm	63.0632 ppm	1.0966 ppm	0.5232 ppm	0.6274 ppm	0.1687 ppm
Concentration RSD	0.4 %	1.2 %	1.3 %	0.4 %	0.3 %	0.5 %	2.1 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	13.8922 ppm	1.0412 [SIC 20]	1.5682 ppm	1.4098 ppm	0.0485 ppm	0.5793 ppm	3.4708 ppm
Concentration per Run 1	13.9822 ppm	1.0431 ppm	1.5585 ppm	1.4133 ppm	0.0498 ppm	0.5798 ppm	3.4730 ppm
Concentration per Run 2	13.9111 ppm	1.0376 ppm	1.5821 ppm	1.4097 ppm	0.0472 ppm	0.5810 ppm	3.4692 ppm
Concentration per Run 3	13.7832 ppm	1.0430 ppm	1.5641 ppm	1.4064 ppm	0.0485 ppm	0.5771 ppm	3.4702 ppm
Concentration RSD	0.7 %	0.3 %	0.8 %	0.2 %	2.7 %	0.3 %	0.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	93.0286 %	82.9906 %	74.6213 %	92.9524 %	55.5323 %	80.6268 %	0.0134 ppm
Concentration per Run 1	93.6047 %	83.0496 %	74.3182 %	93.6404 %	55.1701 %	80.8397 %	0.0131 ppm
Concentration per Run 2	92.3471 %	83.3590 %	74.1765 %	92.4417 %	55.3644 %	81.0008 %	0.0140 ppm
Concentration per Run 3	93.1339 %	82.5631 %	75.3692 %	92.7752 %	56.0623 %	80.0399 %	0.0133 ppm
Concentration RSD	0.7 %	0.5 %	0.9 %	0.7 %	0.8 %	0.6 %	3.4 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2081457-6d5 WG2081457
 Analysis started at: 6/26/2025 5:51:10 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	0.0003 ppm	12.1838 ppm	0.0071 ppm	0.0325 ppm	0.0346 ppm	0.0000 ppm	44.8072 ppm
Concentration per Run 1	0.0004 ppm	11.9091 ppm	0.0075 ppm	0.0328 ppm	0.0338 ppm	0.0000 ppm	44.4034 ppm
Concentration per Run 2	0.0002 ppm	12.3706 ppm	0.0074 ppm	0.0326 ppm	0.0349 ppm	0.0001 ppm	44.8105 ppm
Concentration per Run 3	0.0004 ppm	12.2717 ppm	0.0066 ppm	0.0322 ppm	0.0349 ppm	0.0000 ppm	45.2078 ppm
Concentration RSD	47.0 %	2.0 %	6.8 %	1.0 %	1.8 %	88.7 %	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)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	0.0066 ppm	0.1487 ppm	0.0051 ppm	85.4074 ppm	29.1861 ppm	10.8406 ppm
Concentration per Run 1	-0.0001 ppm	0.0066 ppm	0.1482 ppm	0.0052 ppm	84.3122 ppm	27.9864 ppm	10.8680 ppm
Concentration per Run 2	0.0000 ppm	0.0066 ppm	0.1493 ppm	0.0050 ppm	85.6641 ppm	30.2985 ppm	10.8314 ppm
Concentration per Run 3	-0.0002 ppm	0.0065 ppm	0.1485 ppm	0.0052 ppm	86.2460 ppm	29.2735 ppm	10.8223 ppm
Concentration RSD	89.8 %	0.7 %	0.4 %	2.9 %	1.2 %	4.0 %	0.2 %

	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)	Se 196.090 {472} (Axial)
Concentration average	1.2339 ppm	0.0312 ppm	12.3730 ppm	0.0950 ppm	0.0000 ppm	-0.0001 ppm	0.0049 ppm
Concentration per Run 1	1.2194 ppm	0.0313 ppm	11.8705 ppm	0.0944 ppm	0.0002 ppm	0.0002 ppm	0.0055 ppm
Concentration per Run 2	1.2356 ppm	0.0313 ppm	12.8388 ppm	0.0950 ppm	-0.0001 ppm	0.0001 ppm	0.0040 ppm
Concentration per Run 3	1.2468 ppm	0.0312 ppm	12.4096 ppm	0.0956 ppm	-0.0002 ppm	-0.0006 ppm	0.0053 ppm
Concentration RSD	1.1 %	0.2 %	3.9 %	0.7 %	487.3 %	492.1 %	17.0 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	2.1817 ppm	0.0045 ppm	0.0871 ppm	0.0732 ppm	-0.0098 ppm	0.0147 ppm	0.6299 ppm
Concentration per Run 1	2.1734 ppm	0.0046 ppm	0.0855 ppm	0.0730 ppm	-0.0103 ppm	0.0148 ppm	0.6275 ppm
Concentration per Run 2	2.1845 ppm	0.0043 ppm	0.0880 ppm	0.0733 ppm	-0.0088 ppm	0.0144 ppm	0.6290 ppm
Concentration per Run 3	2.1871 ppm	0.0047 ppm	0.0878 ppm	0.0732 ppm	-0.0102 ppm	0.0148 ppm	0.6332 ppm
Concentration RSD	0.3 %	3.8 %	1.6 %	0.2 %	8.7 %	1.6 %	0.5 %

	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)	Li 670.784 {50} (Radial)
Concentration average	99.2566 %	91.9817 %	85.6170 %	99.1311 %	77.4636 %	90.4795 %	0.0034 ppm
Concentration per Run 1	100.8767 %	92.0107 %	85.8598 %	100.4856 %	77.9802 %	90.5377 %	0.0035 ppm
Concentration per Run 2	99.0809 %	92.1607 %	85.6582 %	98.7453 %	77.3894 %	90.6963 %	0.0033 ppm
Concentration per Run 3	97.8123 %	91.7738 %	85.3331 %	98.1623 %	77.0214 %	90.2044 %	0.0036 ppm
Concentration RSD	1.6 %	0.2 %	0.3 %	1.2 %	0.6 %	0.3 %	3.1 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 5:57:52 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	0.5057 ppm	0.4970 ppm	0.4651 ppm	0.5027 ppm	0.4924 ppm	0.4888 ppm	0.4957 ppm
Concentration per Run 1	0.5049 ppm	0.4898 ppm	0.4652 ppm	0.5044 ppm	0.4817 ppm	0.4746 ppm	0.4836 ppm
Concentration per Run 2	0.5061 ppm	0.4975 ppm	0.4634 ppm	0.5016 ppm	0.4964 ppm	0.4955 ppm	0.5024 ppm
Concentration per Run 3	0.5062 ppm	0.5037 ppm	0.4668 ppm	0.5021 ppm	0.4990 ppm	0.4963 ppm	0.5012 ppm
Recovery Percentage 1	101.145 %	99.400 %	93.030 %	100.544 %	98.474 %	97.765 %	99.146 %
Concentration RSD	0.1 %	1.4 %	0.4 %	0.3 %	1.9 %	2.5 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.4801 ppm	0.5115 ppm	0.5103 ppm	0.4968 ppm	0.5072 ppm	5.3037 ppm	0.5147 ppm
Concentration per Run 1	0.4808 ppm	0.5121 ppm	0.5088 ppm	0.4960 ppm	0.4951 ppm	5.3106 ppm	0.5110 ppm
Concentration per Run 2	0.4806 ppm	0.5112 ppm	0.5125 ppm	0.4959 ppm	0.5131 ppm	5.2653 ppm	0.5157 ppm
Concentration per Run 3	0.4788 ppm	0.5111 ppm	0.5098 ppm	0.4984 ppm	0.5135 ppm	5.3352 ppm	0.5172 ppm
Recovery Percentage 1	96.012 %	102.293 %	102.069 %	99.354 %	101.446 %	106.074 %	102.934 %
Concentration RSD	0.2 %	0.1 %	0.4 %	0.3 %	2.1 %	0.7 %	0.6 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.4930 ppm	0.4913 ppm	9.9724 ppm	0.4778 ppm	0.4866 ppm	0.4816 ppm	0.4974 ppm
Concentration per Run 1	0.4782 ppm	0.4921 ppm	9.9739 ppm	0.4783 ppm	0.4864 ppm	0.4822 ppm	0.4979 ppm
Concentration per Run 2	0.5000 ppm	0.4902 ppm	9.9008 ppm	0.4763 ppm	0.4848 ppm	0.4809 ppm	0.4950 ppm
Concentration per Run 3	0.5009 ppm	0.4917 ppm	10.0426 ppm	0.4789 ppm	0.4885 ppm	0.4819 ppm	0.4994 ppm
Recovery Percentage 1	98.607 %	98.268 %	99.724 %	95.563 %	97.310 %	96.328 %	99.480 %
Concentration RSD	2.6 %	0.2 %	0.7 %	0.3 %	0.4 %	0.1 %	0.5 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	5.2291 ppm	0.4645 ppm	0.5189 ppm	0.5073 ppm	0.4872 ppm	0.5023 ppm	0.5039 ppm
Concentration per Run 1	5.2298 ppm	0.4655 ppm	0.5072 ppm	0.5059 ppm	0.4853 ppm	0.5019 ppm	0.5063 ppm
Concentration per Run 2	5.2204 ppm	0.4626 ppm	0.5236 ppm	0.5098 ppm	0.4858 ppm	0.5034 ppm	0.5022 ppm
Concentration per Run 3	5.2371 ppm	0.4653 ppm	0.5260 ppm	0.5063 ppm	0.4906 ppm	0.5015 ppm	0.5033 ppm
Recovery Percentage 1	99.602 %	92.895 %	103.788 %	101.462 %	97.448 %	100.450 %	100.783 %
Concentration RSD	0.2 %	0.3 %	2.0 %	0.4 %	0.6 %	0.2 %	0.4 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.3378 %	99.1919 %	96.9403 %	101.2866 %	90.8272 %	97.7457 %	0.5288 ppm
Concentration per Run 1	104.1267 %	99.0918 %	96.8694 %	104.1434 %	90.8669 %	97.6990 %	0.5304 ppm
Concentration per Run 2	100.0416 %	99.1539 %	97.2161 %	100.0628 %	91.0179 %	97.8206 %	0.5245 ppm
Concentration per Run 3	99.8450 %	99.3301 %	96.7355 %	99.6536 %	90.5967 %	97.7176 %	0.5315 ppm
Recovery Percentage 1							105.759 %
Concentration RSD	2.4 %	0.1 %	0.3 %	2.5 %	0.2 %	0.1 %	0.7 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 6:04:11 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	0.0008 ppm	-0.0012 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0012 ppm	-0.0005 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	-0.0020 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	-0.0012 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0020 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Recovery Percentage 1	-0.798 %	0.803 %	-24.095 %	4.211 %	0.265 %	0.138 %	0.016 %
Concentration RSD	81.9 %	64.6 %	63.6 %	6.2 %	117.5 %	295.9 %	10,874.5 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0023 ppm	0.0092 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0030 ppm	0.0113 ppm	0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0025 ppm	0.0062 ppm	-0.0014 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0016 ppm	0.0101 ppm	-0.0004 ppm
Recovery Percentage 1	-0.197 %	-0.179 %	0.554 %	2.974 %	4.692 %	0.369 %	-0.102 %
Concentration RSD	301.0 %	67.7 %	350.5 %	14.9 %	30.5 %	28.9 %	1,435.1 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0008 ppm	0.0058 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	0.0067 ppm	0.0002 ppm	0.0002 ppm	0.0006 ppm	0.0021 ppm
Concentration per Run 2	0.0001 ppm	0.0008 ppm	0.0057 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0006 ppm	0.0049 ppm	0.0002 ppm	-0.0001 ppm	0.0006 ppm	0.0013 ppm
Recovery Percentage 1	0.241 %	1.535 %	0.290 %	0.562 %	0.890 %	1.168 %	13.399 %
Concentration RSD	349.3 %	20.5 %	15.8 %	78.5 %	200.0 %	9.8 %	53.6 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	-0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	-0.0006 ppm	0.0009 ppm	0.0000 ppm	-0.0001 ppm	0.0009 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	-0.049 %	0.626 %	0.084 %	-0.158 %	1.301 %	1.063 %	-3.214 %
Concentration RSD	153.1 %	155.9 %	257.5 %	1,084.0 %	284.6 %	89.9 %	49.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	102.1215 %	101.8321 %	98.6684 %	100.5594 %	99.3878 %	99.8190 %	0.0000 ppm
Concentration per Run 1	104.3193 %	101.5783 %	98.4781 %	102.1683 %	99.5805 %	99.6142 %	0.0002 ppm
Concentration per Run 2	101.1133 %	101.8292 %	99.0623 %	99.7087 %	99.7409 %	99.7280 %	-0.0002 ppm
Concentration per Run 3	100.9321 %	102.0887 %	98.4647 %	99.8013 %	98.8422 %	100.1149 %	0.0002 ppm
Recovery Percentage 1							0.415 %
Concentration RSD	1.9 %	0.3 %	0.3 %	1.4 %	0.5 %	0.3 %	550.4 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083591-2d2 WG2083591
 Analysis started at: 6/26/2025 6:13:11 PM
 Comments: <Comment>
 Rack: 2
 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	0.3453 ppm	18.1463 ppm	0.7461 ppm	0.7884 ppm	0.8323 ppm	0.6313 ppm	16.5235 ppm
Concentration per Run 1	0.3455 ppm	17.1796 ppm	0.7412 ppm	0.7899 ppm	0.7878 ppm	0.5979 ppm	15.6326 ppm
Concentration per Run 2	0.3445 ppm	18.4654 ppm	0.7475 ppm	0.7878 ppm	0.8446 ppm	0.6400 ppm	16.7280 ppm
Concentration per Run 3	0.3458 ppm	18.7938 ppm	0.7497 ppm	0.7875 ppm	0.8645 ppm	0.6559 ppm	17.2099 ppm
Concentration RSD	0.2 %	4.7 %	0.6 %	0.2 %	4.8 %	4.7 %	4.9 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.5234 ppm	1.0632 ppm	0.6953 ppm	0.3997 ppm	20.7463 ppm	6.2126 ppm	6.8712 ppm
Concentration per Run 1	0.5305 ppm	1.0713 ppm	0.6899 ppm	0.4018 ppm	19.6033 ppm	5.9098 ppm	6.8670 ppm
Concentration per Run 2	0.5166 ppm	1.0561 ppm	0.6995 ppm	0.3967 ppm	21.0286 ppm	6.3410 ppm	6.8581 ppm
Concentration per Run 3	0.5230 ppm	1.0621 ppm	0.6964 ppm	0.4008 ppm	21.6070 ppm	6.3870 ppm	6.8885 ppm
Concentration RSD	1.3 %	0.7 %	0.7 %	0.7 %	5.0 %	4.2 %	0.2 %

	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)	Se 196.090 {472} (Axial)
Concentration average	1.5708 ppm	0.6332 ppm	7.5493 ppm	0.6633 ppm	0.6112 ppm	0.5008 ppm	0.3869 ppm
Concentration per Run 1	1.4840 ppm	0.6366 ppm	7.1832 ppm	0.6633 ppm	0.6083 ppm	0.4967 ppm	0.3826 ppm
Concentration per Run 2	1.5925 ppm	0.6294 ppm	7.7200 ppm	0.6617 ppm	0.6121 ppm	0.5021 ppm	0.3887 ppm
Concentration per Run 3	1.6360 ppm	0.6335 ppm	7.7447 ppm	0.6649 ppm	0.6131 ppm	0.5036 ppm	0.3894 ppm
Concentration RSD	5.0 %	0.6 %	4.2 %	0.2 %	0.4 %	0.7 %	1.0 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	6.8643 ppm	0.4159 ppm	0.8541 ppm	1.4342 ppm	0.8398 ppm	0.6884 ppm	1.2103 ppm
Concentration per Run 1	6.8278 ppm	0.4161 ppm	0.8078 ppm	1.4266 ppm	0.8319 ppm	0.6860 ppm	1.2175 ppm
Concentration per Run 2	6.8551 ppm	0.4139 ppm	0.8656 ppm	1.4409 ppm	0.8450 ppm	0.6914 ppm	1.2023 ppm
Concentration per Run 3	6.9101 ppm	0.4175 ppm	0.8888 ppm	1.4350 ppm	0.8427 ppm	0.6877 ppm	1.2112 ppm
Concentration RSD	0.6 %	0.4 %	4.9 %	0.5 %	0.8 %	0.4 %	0.6 %

	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)	Li 670.784 {50} (Radial)
Concentration average	108.6560 %	105.9497 %	104.1444 %	109.4433 %	86.0451 %	98.1473 %	0.4023 ppm
Concentration per Run 1	111.7618 %	105.5632 %	105.0598 %	115.2162 %	86.5931 %	97.9301 %	0.3838 ppm
Concentration per Run 2	107.2966 %	106.1360 %	103.4230 %	107.9368 %	85.7919 %	98.3436 %	0.4113 ppm
Concentration per Run 3	106.9096 %	106.1498 %	103.9505 %	105.1770 %	85.7504 %	98.1682 %	0.4119 ppm
Concentration RSD	2.5 %	0.3 %	0.8 %	4.7 %	0.6 %	0.2 %	4.0 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083591-3d2 WG2083591
Analysis started at: 6/26/2025 6:19:25 PM
Comments: <Comment>
Rack: 2
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	0.3214 ppm	17.4804 ppm	0.7014 ppm	0.7347 ppm	0.8402 ppm	0.6268 ppm	16.4284 ppm
Concentration per Run 1	0.3238 ppm	17.2733 ppm	0.7031 ppm	0.7383 ppm	0.8277 ppm	0.6111 ppm	15.8820 ppm
Concentration per Run 2	0.3192 ppm	17.5358 ppm	0.7016 ppm	0.7333 ppm	0.8438 ppm	0.6327 ppm	16.6682 ppm
Concentration per Run 3	0.3213 ppm	17.6321 ppm	0.6993 ppm	0.7325 ppm	0.8493 ppm	0.6366 ppm	16.7349 ppm
Concentration RSD	0.7 %	1.1 %	0.3 %	0.4 %	1.3 %	2.2 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.4570 ppm	0.9879 ppm	0.6429 ppm	0.3751 ppm	20.7460 ppm	6.0886 ppm	6.3222 ppm
Concentration per Run 1	0.4654 ppm	0.9999 ppm	0.6378 ppm	0.3816 ppm	20.1605 ppm	6.1475 ppm	6.3680 ppm
Concentration per Run 2	0.4554 ppm	0.9839 ppm	0.6493 ppm	0.3678 ppm	20.9659 ppm	6.0418 ppm	6.2779 ppm
Concentration per Run 3	0.4504 ppm	0.9798 ppm	0.6416 ppm	0.3758 ppm	21.1115 ppm	6.0765 ppm	6.3208 ppm
Concentration RSD	1.7 %	1.1 %	0.9 %	1.8 %	2.5 %	0.9 %	0.7 %

	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)	Se 196.090 {472} (Axial)
Concentration average	1.5729 ppm	0.5965 ppm	7.8432 ppm	0.6137 ppm	0.5679 ppm	0.4743 ppm	0.3654 ppm
Concentration per Run 1	1.5292 ppm	0.6025 ppm	7.9453 ppm	0.6186 ppm	0.5706 ppm	0.4758 ppm	0.3633 ppm
Concentration per Run 2	1.5902 ppm	0.5945 ppm	7.7886 ppm	0.6166 ppm	0.5698 ppm	0.4744 ppm	0.3648 ppm
Concentration per Run 3	1.5995 ppm	0.5925 ppm	7.7956 ppm	0.6059 ppm	0.5632 ppm	0.4726 ppm	0.3680 ppm
Concentration RSD	2.4 %	0.9 %	1.1 %	1.1 %	0.7 %	0.3 %	0.7 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	5.5091 ppm	0.3819 ppm	0.8439 ppm	1.3224 ppm	0.7359 ppm	0.6416 ppm	1.1256 ppm
Concentration per Run 1	5.5578 ppm	0.3850 ppm	0.8284 ppm	1.3223 ppm	0.7363 ppm	0.6401 ppm	1.1397 ppm
Concentration per Run 2	5.5085 ppm	0.3835 ppm	0.8481 ppm	1.3247 ppm	0.7380 ppm	0.6446 ppm	1.1246 ppm
Concentration per Run 3	5.4609 ppm	0.3772 ppm	0.8552 ppm	1.3202 ppm	0.7334 ppm	0.6402 ppm	1.1124 ppm
Concentration RSD	0.9 %	1.1 %	1.6 %	0.2 %	0.3 %	0.4 %	1.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	106.9317 %	105.9543 %	103.3431 %	101.3666 %	86.2131 %	97.7385 %	0.3992 ppm
Concentration per Run 1	109.1571 %	105.5058 %	103.7116 %	103.8900 %	86.1228 %	97.3489 %	0.4056 ppm
Concentration per Run 2	105.6745 %	106.0947 %	103.1705 %	100.3114 %	85.6640 %	97.8684 %	0.3954 ppm
Concentration per Run 3	105.9636 %	106.2625 %	103.1471 %	99.8985 %	86.8523 %	97.9981 %	0.3966 ppm
Concentration RSD	1.8 %	0.4 %	0.3 %	2.2 %	0.7 %	0.4 %	1.4 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 6:25:40 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	0.5053 ppm	0.4940 ppm	0.4678 ppm	0.5012 ppm	0.4919 ppm	0.4888 ppm	0.4969 ppm
Concentration per Run 1	0.5073 ppm	0.4763 ppm	0.4688 ppm	0.5056 ppm	0.4763 ppm	0.4737 ppm	0.4787 ppm
Concentration per Run 2	0.5054 ppm	0.4957 ppm	0.4681 ppm	0.5007 ppm	0.4963 ppm	0.4962 ppm	0.5070 ppm
Concentration per Run 3	0.5033 ppm	0.5101 ppm	0.4664 ppm	0.4974 ppm	0.5031 ppm	0.4965 ppm	0.5051 ppm
Recovery Percentage 1	101.069 %	98.805 %	93.554 %	100.243 %	98.378 %	97.756 %	99.389 %
Concentration RSD	0.4 %	3.4 %	0.3 %	0.8 %	2.8 %	2.7 %	3.2 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.4830 ppm	0.5108 ppm	0.5099 ppm	0.4944 ppm	0.4941 ppm	5.2466 ppm	0.5123 ppm
Concentration per Run 1	0.4853 ppm	0.5138 ppm	0.5083 ppm	0.4989 ppm	0.4804 ppm	5.1131 ppm	0.5101 ppm
Concentration per Run 2	0.4834 ppm	0.5104 ppm	0.5087 ppm	0.4956 ppm	0.5008 ppm	5.1362 ppm	0.5147 ppm
Concentration per Run 3	0.4802 ppm	0.5081 ppm	0.5128 ppm	0.4887 ppm	0.5010 ppm	5.4905 ppm	0.5121 ppm
Recovery Percentage 1	96.596 %	102.155 %	101.985 %	98.871 %	98.815 %	104.932 %	102.458 %
Concentration RSD	0.5 %	0.6 %	0.5 %	1.1 %	2.4 %	4.0 %	0.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.4928 ppm	0.4925 ppm	9.9265 ppm	0.4798 ppm	0.4880 ppm	0.4812 ppm	0.4930 ppm
Concentration per Run 1	0.4779 ppm	0.4955 ppm	9.6767 ppm	0.4789 ppm	0.4881 ppm	0.4810 ppm	0.4943 ppm
Concentration per Run 2	0.5001 ppm	0.4920 ppm	9.7063 ppm	0.4800 ppm	0.4886 ppm	0.4807 ppm	0.4926 ppm
Concentration per Run 3	0.5003 ppm	0.4901 ppm	10.3966 ppm	0.4806 ppm	0.4873 ppm	0.4818 ppm	0.4921 ppm
Recovery Percentage 1	98.554 %	98.506 %	99.265 %	95.967 %	97.592 %	96.236 %	98.597 %
Concentration RSD	2.6 %	0.6 %	4.1 %	0.2 %	0.1 %	0.1 %	0.2 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	5.2084 ppm	0.4661 ppm	0.5127 ppm	0.5084 ppm	0.4909 ppm	0.5054 ppm	0.5028 ppm
Concentration per Run 1	5.2031 ppm	0.4650 ppm	0.4958 ppm	0.5097 ppm	0.4911 ppm	0.5065 ppm	0.5017 ppm
Concentration per Run 2	5.2084 ppm	0.4668 ppm	0.5179 ppm	0.5076 ppm	0.4906 ppm	0.5035 ppm	0.5036 ppm
Concentration per Run 3	5.2137 ppm	0.4665 ppm	0.5243 ppm	0.5079 ppm	0.4911 ppm	0.5060 ppm	0.5029 ppm
Recovery Percentage 1	99.207 %	93.223 %	102.538 %	101.680 %	98.189 %	101.073 %	100.551 %
Concentration RSD	0.1 %	0.2 %	2.9 %	0.2 %	0.1 %	0.3 %	0.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.0802 %	99.6018 %	97.7158 %	101.9514 %	91.2554 %	98.2847 %	0.5224 ppm
Concentration per Run 1	103.3274 %	99.0331 %	97.6278 %	105.0857 %	91.4899 %	97.6038 %	0.5090 ppm
Concentration per Run 2	99.6264 %	99.8103 %	98.1270 %	100.3763 %	91.2226 %	98.5155 %	0.5098 ppm
Concentration per Run 3	100.2868 %	99.9619 %	97.3926 %	100.3923 %	91.0535 %	98.7350 %	0.5483 ppm
Recovery Percentage 1							104.477 %
Concentration RSD	2.0 %	0.5 %	0.4 %	2.7 %	0.2 %	0.6 %	4.3 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
 Analysis started at: 6/26/2025 6:31:59 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	0.0154 ppm	-0.0005 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0065 ppm
Concentration per Run 1	0.0000 ppm	0.0229 ppm	-0.0003 ppm	0.0019 ppm	0.0001 ppm	0.0000 ppm	0.0050 ppm
Concentration per Run 2	0.0000 ppm	0.0150 ppm	0.0004 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 3	-0.0003 ppm	0.0084 ppm	-0.0016 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0080 ppm
Recovery Percentage 1	-1.345 %	15.430 %	-10.127 %	6.240 %	0.182 %	0.215 %	6.548 %
Concentration RSD	149.6 %	46.9 %	193.0 %	3.3 %	363.6 %	45.7 %	22.6 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0012 ppm	-0.0049 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm	-0.0048 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0019 ppm	-0.0029 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0011 ppm	-0.0069 ppm	-0.0010 ppm
Recovery Percentage 1	1.188 %	-0.250 %	1.228 %	1.832 %	2.448 %	-0.195 %	-0.024 %
Concentration RSD	89.2 %	411.7 %	112.9 %	27.1 %	50.6 %	40.8 %	4,294.6 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0009 ppm	0.0018 ppm	-0.0001 ppm	-0.0004 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	0.0019 ppm	0.0000 ppm	-0.0003 ppm	0.0012 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0010 ppm	0.0036 ppm	-0.0003 ppm	-0.0002 ppm	0.0005 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	-0.0002 ppm	-0.0002 ppm	-0.0007 ppm	0.0006 ppm	0.0008 ppm
Recovery Percentage 1	0.592 %	1.811 %	0.088 %	-0.557 %	-4.202 %	1.573 %	2.194 %
Concentration RSD	103.4 %	8.7 %	108.1 %	111.5 %	68.2 %	50.1 %	314.3 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0019 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0015 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 2	0.0018 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0022 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	0.0024 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0003 ppm	-0.0002 ppm
Recovery Percentage 1	0.381 %	0.500 %	0.262 %	0.051 %	-5.508 %	1.029 %	-3.683 %
Concentration RSD	24.2 %	56.4 %	82.7 %	2,064.6 %	92.9 %	141.6 %	44.8 %

	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)	Li 670.784 {50} (Radial)
Concentration average	102.7550 %	102.3269 %	99.7919 %	101.7956 %	98.3091 %	100.1149 %	-0.0001 ppm
Concentration per Run 1	105.1425 %	102.0552 %	99.6654 %	103.7587 %	97.4039 %	99.8777 %	0.0000 ppm
Concentration per Run 2	101.8623 %	102.9131 %	98.5991 %	101.2111 %	96.5107 %	100.5812 %	-0.0004 ppm
Concentration per Run 3	101.2600 %	102.0125 %	101.1113 %	100.4169 %	101.0129 %	99.8859 %	0.0000 ppm
Recovery Percentage 1							-1.142 %
Concentration RSD	2.0 %	0.5 %	1.3 %	1.7 %	2.4 %	0.4 %	198.4 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082423-1 WG2082423

Analysis started at: 6/26/2025 6:46:05 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	-0.0002 ppm	0.0103 ppm	-0.0002 ppm	0.0022 ppm	0.0012 ppm	0.0000 ppm	0.3037 ppm
Concentration per Run 1	-0.0002 ppm	0.0097 ppm	-0.0002 ppm	0.0019 ppm	0.0012 ppm	0.0000 ppm	0.3004 ppm
Concentration per Run 2	-0.0001 ppm	0.0095 ppm	0.0005 ppm	0.0022 ppm	0.0012 ppm	0.0000 ppm	0.3054 ppm
Concentration per Run 3	-0.0002 ppm	0.0117 ppm	-0.0010 ppm	0.0023 ppm	0.0012 ppm	0.0000 ppm	0.3054 ppm
Recovery Percentage 1	-2.987 %	10.300 %	-4.740 %	7.195 %	11.851 %	0.541 %	303.708 %
Concentration RSD	27.5 %	11.9 %	317.5 %	8.6 %	2.8 %	76.7 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0017 ppm	0.0835 ppm	0.0426 ppm	0.0665 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0016 ppm	0.0834 ppm	0.0416 ppm	0.0675 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0017 ppm	0.0831 ppm	0.0450 ppm	0.0667 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0018 ppm	0.0840 ppm	0.0411 ppm	0.0654 ppm
Recovery Percentage 1	0.641 %	0.621 %	1.916 %	16.897 %	166.973 %	1.703 %	66.520 %
Concentration RSD	87.4 %	96.5 %	134.2 %	6.7 %	0.6 %	5.0 %	1.5 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0011 ppm	0.0004 ppm	0.4751 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	0.0010 ppm	0.0005 ppm	0.4808 ppm	0.0004 ppm	0.0003 ppm	-0.0002 ppm	0.0016 ppm
Concentration per Run 2	0.0011 ppm	0.0003 ppm	0.4787 ppm	0.0004 ppm	0.0003 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 3	0.0011 ppm	0.0004 ppm	0.4658 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0009 ppm
Recovery Percentage 1	10.642 %	0.781 %	23.755 %	1.575 %	2.028 %	-0.011 %	10.881 %
Concentration RSD	6.3 %	27.4 %	1.7 %	23.5 %	94.5 %	8,246.5 %	37.4 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0168 ppm	-0.0002 ppm	0.0026 ppm	0.0002 ppm	-0.0006 ppm	0.0001 ppm	0.0040 ppm
Concentration per Run 1	0.0168 ppm	-0.0002 ppm	0.0026 ppm	0.0001 ppm	-0.0009 ppm	0.0001 ppm	0.0039 ppm
Concentration per Run 2	0.0167 ppm	-0.0001 ppm	0.0026 ppm	0.0002 ppm	0.0010 ppm	0.0002 ppm	0.0041 ppm
Concentration per Run 3	0.0169 ppm	-0.0004 ppm	0.0026 ppm	0.0004 ppm	-0.0018 ppm	-0.0001 ppm	0.0041 ppm
Recovery Percentage 1	3.358 %	-0.402 %	25.816 %	2.494 %	-2.823 %	0.841 %	80.643 %
Concentration RSD	0.6 %	70.4 %	0.5 %	52.6 %	259.2 %	208.2 %	3.8 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.7707 %	102.0248 %	99.9806 %	97.9482 %	104.5780 %	99.2062 %	0.0000 ppm
Concentration per Run 1	103.2411 %	102.0820 %	99.9794 %	98.2383 %	104.2014 %	99.1837 %	0.0000 ppm
Concentration per Run 2	101.6903 %	102.2760 %	100.3591 %	98.1009 %	105.3312 %	99.3899 %	-0.0002 ppm
Concentration per Run 3	100.3807 %	101.7165 %	99.6035 %	97.5053 %	104.2014 %	99.0451 %	0.0001 ppm
Recovery Percentage 1							-0.366 %
Concentration RSD	1.4 %	0.3 %	0.4 %	0.4 %	0.6 %	0.2 %	422.5 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082423-2 WG2082423

Analysis started at: 6/26/2025 6:52:45 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	0.0567 ppm	2.3462 ppm	0.1179 ppm	1.0046 ppm	2.2203 ppm	0.0539 ppm	10.0317 ppm
Concentration per Run 1	0.0567 ppm	2.3018 ppm	0.1163 ppm	0.9993 ppm	2.1910 ppm	0.0533 ppm	9.9581 ppm
Concentration per Run 2	0.0563 ppm	2.3819 ppm	0.1180 ppm	0.0000 ppm	2.2493 ppm	0.0540 ppm	9.9916 ppm
Concentration per Run 3	0.0571 ppm	2.3549 ppm	0.1192 ppm	1.0098 ppm	2.2207 ppm	0.0545 ppm	10.1455 ppm
Concentration RSD	0.8 %	1.7 %	1.3 %	0.7 %	1.3 %	1.1 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0514 ppm	0.5513 ppm	0.2182 ppm	0.2816 ppm	1.0873 ppm	11.3522 ppm	10.3874 ppm
Concentration per Run 1	0.0513 ppm	0.5487 ppm	0.2176 ppm	0.2796 ppm	1.0722 ppm	11.0925 ppm	10.3286 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	1.0861 ppm	11.6211 ppm	0.0000 ppm
Concentration per Run 3	0.0515 ppm	0.5539 ppm	0.2187 ppm	0.2837 ppm	1.1035 ppm	11.3430 ppm	10.4462 ppm
Concentration RSD	0.3 %	0.7 %	0.4 %	1.0 %	1.4 %	2.3 %	0.8 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5390 ppm	0.9727 ppm	10.9084 ppm	0.5101 ppm	0.5065 ppm	0.4723 ppm	0.1229 ppm
Concentration per Run 1	0.5329 ppm	0.9665 ppm	10.6477 ppm	0.5094 ppm	0.5068 ppm	0.4691 ppm	0.1209 ppm
Concentration per Run 2	0.5392 ppm	0.0000 ppm	11.1787 ppm	0.5124 ppm	0.5069 ppm	0.4746 ppm	0.1249 ppm
Concentration per Run 3	0.5448 ppm	0.9788 ppm	10.8986 ppm	0.5084 ppm	0.5059 ppm	0.4731 ppm	0.1230 ppm
Concentration RSD	1.1 %	0.9 %	2.4 %	0.4 %	0.1 %	0.6 %	1.6 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	1.1586 ppm	0.9044 ppm	1.0286 ppm	1.0147 ppm	0.1131 ppm	0.5339 ppm	0.5357 ppm
Concentration per Run 1	1.1587 ppm	0.9040 ppm	1.0100 ppm	1.0093 ppm	0.1130 ppm	0.5356 ppm	0.5356 ppm
Concentration per Run 2	1.1616 ppm	0.9064 ppm	1.0402 ppm	0.0000 ppm	0.1127 ppm	0.5274 ppm	0.5382 ppm
Concentration per Run 3	1.1555 ppm	0.9027 ppm	1.0357 ppm	1.0201 ppm	0.1137 ppm	0.5388 ppm	0.5334 ppm
Concentration RSD	0.3 %	0.2 %	1.6 %	0.8 %	0.4 %	1.1 %	0.4 %

	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)	Li 670.784 {50} (Radial)
Concentration average	99.6945 %	97.5828 %	96.2274 %	98.9370 %	90.8998 %	95.0850 %	0.0000 ppm
Concentration per Run 1	101.2543 %	97.2756 %	96.8494 %	100.2750 %	91.2084 %	95.6273 %	-0.0001 ppm
Concentration per Run 2	99.3613 %	98.9993 %	95.9243 %	98.5278 %	90.4547 %	0.0000 %	0.0002 ppm
Concentration per Run 3	98.4679 %	96.4734 %	95.9084 %	98.0082 %	91.0363 %	94.5427 %	0.0001 ppm
Concentration RSD	1.4 %	1.3 %	0.6 %	1.2 %	0.4 %	0.8 %	368.7 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-01 WG2082423

Analysis started at: 6/26/2025 6:59:11 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	0.0105 ppm	-0.0012 ppm	0.0199 ppm	0.0398 ppm	0.0000 ppm	47.2701 ppm
Concentration per Run 1	-0.0002 ppm	0.0122 ppm	0.0003 ppm	0.0202 ppm	0.0393 ppm	0.0000 ppm	46.9157 ppm
Concentration per Run 2	-0.0002 ppm	0.0123 ppm	-0.0016 ppm	0.0198 ppm	0.0400 ppm	0.0000 ppm	47.5616 ppm
Concentration per Run 3	-0.0001 ppm	0.0069 ppm	-0.0021 ppm	0.0197 ppm	0.0401 ppm	0.0000 ppm	47.3332 ppm
Concentration RSD	53.2 %	29.5 %	108.1 %	1.5 %	1.0 %	71.2 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0034 ppm	0.0075 ppm	1.3867 ppm	10.5620 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0036 ppm	0.0077 ppm	1.3627 ppm	10.5768 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0010 ppm	0.0033 ppm	0.0075 ppm	1.3789 ppm	10.5350 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0010 ppm	0.0032 ppm	0.0073 ppm	1.4186 ppm	10.5743 ppm
Concentration RSD	12.7 %	82.2 %	24.5 %	5.1 %	2.8 %	2.1 %	0.2 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0013 ppm	0.0023 ppm	4.7926 ppm	0.0002 ppm	-0.0007 ppm	0.0019 ppm	0.0009 ppm
Concentration per Run 1	0.0013 ppm	0.0026 ppm	4.6952 ppm	0.0001 ppm	-0.0009 ppm	0.0021 ppm	-0.0001 ppm
Concentration per Run 2	0.0013 ppm	0.0023 ppm	4.7729 ppm	0.0000 ppm	-0.0006 ppm	0.0020 ppm	0.0039 ppm
Concentration per Run 3	0.0012 ppm	0.0021 ppm	4.9097 ppm	0.0005 ppm	-0.0006 ppm	0.0016 ppm	-0.0011 ppm
Concentration RSD	2.5 %	10.5 %	2.3 %	142.4 %	26.8 %	12.5 %	301.7 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	3.3257 ppm	0.0010 ppm	0.0961 ppm	0.0003 ppm	-0.0019 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 1	3.3302 ppm	0.0009 ppm	0.0950 ppm	0.0004 ppm	-0.0021 ppm	-0.0002 ppm	0.0058 ppm
Concentration per Run 2	3.3210 ppm	0.0012 ppm	0.0966 ppm	0.0002 ppm	-0.0022 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 3	3.3260 ppm	0.0009 ppm	0.0968 ppm	0.0004 ppm	-0.0014 ppm	0.0001 ppm	0.0059 ppm
Concentration RSD	0.1 %	20.5 %	1.0 %	39.5 %	24.3 %	801.3 %	1.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.5997 %	96.0737 %	93.9698 %	97.8716 %	89.3956 %	93.8944 %	0.0002 ppm
Concentration per Run 1	103.0552 %	95.6323 %	94.2215 %	99.0901 %	89.3175 %	93.3610 %	0.0003 ppm
Concentration per Run 2	99.5215 %	95.8217 %	93.7333 %	97.2859 %	89.2826 %	93.5983 %	0.0001 ppm
Concentration per Run 3	99.2224 %	96.7672 %	93.9547 %	97.2389 %	89.5869 %	94.7238 %	0.0002 ppm
Concentration RSD	2.1 %	0.6 %	0.3 %	1.1 %	0.2 %	0.8 %	53.8 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-02 WG2082423

Analysis started at: 6/26/2025 7:05:47 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	-0.0001 ppm	2.6432 ppm	0.0073 ppm	0.0108 ppm	0.0627 ppm	0.0002 ppm	17.4217 ppm
Concentration per Run 1	-0.0003 ppm	2.5968 ppm	0.0083 ppm	0.0106 ppm	0.0619 ppm	0.0002 ppm	17.3201 ppm
Concentration per Run 2	-0.0001 ppm	2.6935 ppm	0.0082 ppm	0.0109 ppm	0.0634 ppm	0.0002 ppm	17.3238 ppm
Concentration per Run 3	0.0000 ppm	2.6394 ppm	0.0054 ppm	0.0108 ppm	0.0628 ppm	0.0002 ppm	17.6212 ppm
Concentration RSD	125.6 %	1.8 %	21.9 %	1.1 %	1.2 %	11.2 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	0.0013 ppm	0.0104 ppm	0.0054 ppm	53.5860 ppm	1.4248 ppm	6.9546 ppm
Concentration per Run 1	0.0004 ppm	0.0013 ppm	0.0105 ppm	0.0051 ppm	53.1759 ppm	1.3748 ppm	6.9519 ppm
Concentration per Run 2	0.0004 ppm	0.0013 ppm	0.0103 ppm	0.0059 ppm	53.5040 ppm	1.5130 ppm	7.0150 ppm
Concentration per Run 3	0.0003 ppm	0.0013 ppm	0.0105 ppm	0.0051 ppm	54.0782 ppm	1.3866 ppm	6.8970 ppm
Concentration RSD	11.9 %	1.8 %	1.0 %	8.7 %	0.9 %	5.4 %	0.8 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0942 ppm	0.0006 ppm	8.3570 ppm	0.0007 ppm	-0.0020 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 1	0.0934 ppm	0.0006 ppm	8.0978 ppm	0.0006 ppm	-0.0021 ppm	-0.0009 ppm	0.0014 ppm
Concentration per Run 2	0.0939 ppm	0.0005 ppm	8.8208 ppm	0.0005 ppm	-0.0015 ppm	-0.0005 ppm	-0.0010 ppm
Concentration per Run 3	0.0955 ppm	0.0008 ppm	8.1523 ppm	0.0008 ppm	-0.0025 ppm	0.0003 ppm	0.0008 ppm
Concentration RSD	1.2 %	18.8 %	4.8 %	24.7 %	24.7 %	159.6 %	288.2 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	17.2552 ppm	0.0011 ppm	0.0975 ppm	0.1007 ppm	-0.0010 ppm	0.0072 ppm	0.0126 ppm
Concentration per Run 1	17.3031 ppm	0.0009 ppm	0.0961 ppm	0.1013 ppm	-0.0016 ppm	0.0073 ppm	0.0126 ppm
Concentration per Run 2	17.3510 ppm	0.0009 ppm	0.0983 ppm	0.1004 ppm	-0.0008 ppm	0.0072 ppm	0.0126 ppm
Concentration per Run 3	17.1114 ppm	0.0014 ppm	0.0979 ppm	0.1003 ppm	-0.0007 ppm	0.0072 ppm	0.0126 ppm
Concentration RSD	0.7 %	24.2 %	1.2 %	0.5 %	47.4 %	0.8 %	0.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.5566 %	97.5838 %	95.7839 %	100.0685 %	89.8397 %	96.3876 %	0.0055 ppm
Concentration per Run 1	102.2702 %	97.8154 %	95.8978 %	101.1633 %	89.8598 %	96.7000 %	0.0053 ppm
Concentration per Run 2	100.0969 %	97.0241 %	95.9870 %	99.9239 %	89.2851 %	95.6931 %	0.0059 ppm
Concentration per Run 3	99.3028 %	97.9118 %	95.4669 %	99.1183 %	90.3743 %	96.7696 %	0.0054 ppm
Concentration RSD	1.5 %	0.5 %	0.3 %	1.0 %	0.6 %	0.6 %	6.2 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-03 WG2082423

Analysis started at: 6/26/2025 7:12:20 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	0.0000 ppm	0.0049 ppm	-0.0012 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0105 ppm
Concentration per Run 1	-0.0002 ppm	0.0056 ppm	-0.0028 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0065 ppm
Concentration per Run 2	0.0000 ppm	0.0038 ppm	-0.0008 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0121 ppm
Concentration per Run 3	0.0001 ppm	0.0054 ppm	0.0000 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0127 ppm
Concentration RSD	985.8 %	20.2 %	120.8 %	12.0 %	70.3 %	174.2 %	32.6 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0066 ppm	0.0052 ppm	0.0046 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0068 ppm	0.0010 ppm	0.0044 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0010 ppm	0.0063 ppm	0.0011 ppm	0.0056 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0066 ppm	0.0135 ppm	0.0037 ppm
Concentration RSD	526.8 %	49.9 %	143.8 %	11.5 %	4.1 %	138.3 %	20.8 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0004 ppm	0.0138 ppm	0.0000 ppm	-0.0001 ppm	0.0009 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0151 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0137 ppm	-0.0001 ppm	-0.0002 ppm	0.0009 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	0.0126 ppm	0.0000 ppm	-0.0003 ppm	0.0013 ppm	0.0006 ppm
Concentration RSD	154.6 %	23.8 %	8.8 %	958.2 %	149.4 %	48.3 %	44.7 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0156 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm	-0.0001 ppm	0.0025 ppm
Concentration per Run 1	0.0158 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0025 ppm
Concentration per Run 2	0.0153 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0018 ppm	-0.0001 ppm	0.0025 ppm
Concentration per Run 3	0.0159 ppm	-0.0006 ppm	0.0001 ppm	-0.0001 ppm	-0.0015 ppm	-0.0001 ppm	0.0025 ppm
Concentration RSD	2.1 %	197.3 %	16.6 %	473.3 %	134.2 %	3.3 %	1.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.6617 %	101.5538 %	98.3840 %	99.2006 %	102.4680 %	99.1689 %	0.0001 ppm
Concentration per Run 1	103.4873 %	101.4254 %	98.2072 %	100.2539 %	102.6157 %	98.8540 %	-0.0001 ppm
Concentration per Run 2	100.6319 %	101.8260 %	98.6022 %	98.5710 %	102.4415 %	99.4432 %	0.0001 ppm
Concentration per Run 3	100.8659 %	101.4100 %	98.3426 %	98.7769 %	102.3468 %	99.2094 %	0.0002 ppm
Concentration RSD	1.6 %	0.2 %	0.2 %	0.9 %	0.1 %	0.3 %	158.3 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-04 WG2082423

Analysis started at: 6/26/2025 7:19:14 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	0.0074 ppm	0.0008 ppm	0.0348 ppm	0.0268 ppm	0.0000 ppm	11.7272 ppm
Concentration per Run 1	0.0000 ppm	0.0060 ppm	0.0017 ppm	0.0349 ppm	0.0266 ppm	0.0000 ppm	11.5253 ppm
Concentration per Run 2	-0.0002 ppm	0.0096 ppm	0.0016 ppm	0.0350 ppm	0.0269 ppm	0.0000 ppm	11.8309 ppm
Concentration per Run 3	0.0001 ppm	0.0066 ppm	-0.0010 ppm	0.0344 ppm	0.0269 ppm	0.0000 ppm	11.8254 ppm
Concentration RSD	446.6 %	26.0 %	201.2 %	0.9 %	0.6 %	632.9 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0026 ppm	0.0004 ppm	0.0017 ppm	2.7655 ppm	1.1778 ppm	5.3514 ppm
Concentration per Run 1	0.0002 ppm	0.0026 ppm	0.0003 ppm	0.0017 ppm	2.7170 ppm	1.2111 ppm	5.3632 ppm
Concentration per Run 2	0.0002 ppm	0.0026 ppm	0.0006 ppm	0.0017 ppm	2.7918 ppm	1.1699 ppm	5.3503 ppm
Concentration per Run 3	0.0002 ppm	0.0025 ppm	0.0004 ppm	0.0016 ppm	2.7876 ppm	1.1524 ppm	5.3406 ppm
Concentration RSD	14.1 %	1.2 %	38.3 %	3.2 %	1.5 %	2.6 %	0.2 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0445 ppm	0.0003 ppm	9.8737 ppm	0.0010 ppm	-0.0018 ppm	0.0007 ppm	0.0016 ppm
Concentration per Run 1	0.0437 ppm	0.0004 ppm	10.0592 ppm	0.0009 ppm	-0.0016 ppm	0.0007 ppm	0.0032 ppm
Concentration per Run 2	0.0450 ppm	0.0002 ppm	9.8388 ppm	0.0011 ppm	-0.0021 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	0.0447 ppm	0.0004 ppm	9.7230 ppm	0.0009 ppm	-0.0016 ppm	0.0010 ppm	0.0017 ppm
Concentration RSD	1.5 %	23.8 %	1.7 %	10.1 %	18.9 %	48.2 %	96.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	8.0198 ppm	0.0002 ppm	0.0476 ppm	0.0000 ppm	-0.0010 ppm	-0.0002 ppm	0.0071 ppm
Concentration per Run 1	8.0406 ppm	0.0003 ppm	0.0470 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0072 ppm
Concentration per Run 2	7.9972 ppm	0.0003 ppm	0.0481 ppm	0.0000 ppm	-0.0014 ppm	-0.0002 ppm	0.0069 ppm
Concentration per Run 3	8.0217 ppm	0.0000 ppm	0.0477 ppm	0.0001 ppm	-0.0013 ppm	0.0000 ppm	0.0072 ppm
Concentration RSD	0.3 %	80.6 %	1.1 %	237.5 %	54.1 %	69.7 %	2.7 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.2702 %	97.7513 %	95.6325 %	98.6895 %	93.9362 %	96.5550 %	0.0013 ppm
Concentration per Run 1	102.3117 %	97.6868 %	96.0644 %	99.8263 %	93.6164 %	96.4236 %	0.0012 ppm
Concentration per Run 2	99.5977 %	97.8736 %	95.6231 %	98.3386 %	94.1691 %	96.5985 %	0.0015 ppm
Concentration per Run 3	98.9010 %	97.6935 %	95.2100 %	97.9036 %	94.0232 %	96.6428 %	0.0013 ppm
Concentration RSD	1.8 %	0.1 %	0.4 %	1.0 %	0.3 %	0.1 %	12.6 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-05 WG2082423

Analysis started at: 6/26/2025 7:25:52 PM

Comments: <Comment>

Rack: 2

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	-0.0003 ppm	0.0060 ppm	-0.0006 ppm	0.0155 ppm	0.0210 ppm	0.0000 ppm	18.5860 ppm
Concentration per Run 1	-0.0004 ppm	0.0057 ppm	-0.0002 ppm	0.0157 ppm	0.0207 ppm	0.0000 ppm	18.4215 ppm
Concentration per Run 2	-0.0002 ppm	0.0075 ppm	-0.0011 ppm	0.0152 ppm	0.0210 ppm	0.0000 ppm	18.8617 ppm
Concentration per Run 3	-0.0002 ppm	0.0048 ppm	-0.0004 ppm	0.0156 ppm	0.0211 ppm	0.0000 ppm	18.4749 ppm
Concentration RSD	49.8 %	23.2 %	84.0 %	1.8 %	1.0 %	1,137.2 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0007 ppm	0.0015 ppm	0.0084 ppm	2.0805 ppm	4.9246 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0008 ppm	0.0016 ppm	0.0094 ppm	2.0460 ppm	4.9116 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0015 ppm	0.0078 ppm	2.0428 ppm	4.9332 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0014 ppm	0.0081 ppm	2.1526 ppm	4.9290 ppm
Concentration RSD	14.1 %	21.3 %	12.7 %	4.9 %	9.9 %	3.0 %	0.2 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0008 ppm	5.6451 ppm	-0.0001 ppm	-0.0007 ppm	0.0006 ppm	0.0014 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	5.5451 ppm	-0.0001 ppm	-0.0006 ppm	0.0008 ppm	0.0021 ppm
Concentration per Run 2	0.0002 ppm	0.0009 ppm	5.5460 ppm	0.0000 ppm	-0.0008 ppm	0.0005 ppm	0.0018 ppm
Concentration per Run 3	0.0002 ppm	0.0007 ppm	5.8443 ppm	-0.0002 ppm	-0.0008 ppm	0.0006 ppm	0.0004 ppm
Concentration RSD	43.7 %	14.5 %	3.1 %	118.6 %	12.4 %	26.0 %	61.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	3.4235 ppm	0.0000 ppm	0.0590 ppm	0.0000 ppm	-0.0014 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 1	3.4134 ppm	0.0000 ppm	0.0584 ppm	0.0000 ppm	-0.0011 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 2	3.4340 ppm	0.0004 ppm	0.0590 ppm	0.0000 ppm	-0.0024 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 3	3.4232 ppm	-0.0003 ppm	0.0597 ppm	0.0001 ppm	-0.0009 ppm	0.0000 ppm	0.0007 ppm
Concentration RSD	0.3 %	767.2 %	1.1 %	205.7 %	57.8 %	81.8 %	7.5 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.6575 %	97.7915 %	95.6387 %	98.4179 %	93.8820 %	96.1845 %	0.0000 ppm
Concentration per Run 1	102.9143 %	97.4167 %	95.8274 %	99.6281 %	94.2114 %	95.6197 %	0.0003 ppm
Concentration per Run 2	99.4854 %	98.1049 %	95.6843 %	97.7360 %	93.7207 %	96.5867 %	-0.0002 ppm
Concentration per Run 3	99.5728 %	97.8528 %	95.4044 %	97.8896 %	93.7140 %	96.3471 %	0.0000 ppm
Concentration RSD	1.9 %	0.4 %	0.2 %	1.1 %	0.3 %	0.5 %	536.2 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537735-01 WG2082423

Analysis started at: 6/26/2025 7:32:26 PM

Comments: <Comment>

Rack: 2

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	0.0000 ppm	0.1172 ppm	-0.0009 ppm	0.1207 ppm	0.0053 ppm	0.0000 ppm	7.4751 ppm
Concentration per Run 1	0.0000 ppm	0.1164 ppm	-0.0005 ppm	0.1201 ppm	0.0052 ppm	0.0000 ppm	7.3738 ppm
Concentration per Run 2	-0.0001 ppm	0.1188 ppm	-0.0013 ppm	0.1206 ppm	0.0054 ppm	0.0000 ppm	7.4874 ppm
Concentration per Run 3	0.0002 ppm	0.1165 ppm	-0.0008 ppm	0.1214 ppm	0.0053 ppm	0.0000 ppm	7.5639 ppm
Concentration RSD	598.8 %	1.2 %	45.9 %	0.6 %	1.8 %	64.1 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0003 ppm	0.0010 ppm	0.0136 ppm	1.0223 ppm	3.8000 ppm	1.2278 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	0.0011 ppm	0.0134 ppm	1.0065 ppm	3.7804 ppm	1.2264 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	0.0011 ppm	0.0137 ppm	1.0277 ppm	3.8540 ppm	1.2243 ppm
Concentration per Run 3	0.0003 ppm	0.0005 ppm	0.0009 ppm	0.0139 ppm	1.0327 ppm	3.7657 ppm	1.2327 ppm
Concentration RSD	9.0 %	42.8 %	11.5 %	1.6 %	1.4 %	1.2 %	0.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0713 ppm	0.0020 ppm	16.6049 ppm	0.0030 ppm	0.0023 ppm	0.0002 ppm	0.0011 ppm
Concentration per Run 1	0.0705 ppm	0.0021 ppm	16.4496 ppm	0.0030 ppm	0.0029 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 2	0.0714 ppm	0.0020 ppm	16.8464 ppm	0.0031 ppm	0.0022 ppm	-0.0002 ppm	0.0009 ppm
Concentration per Run 3	0.0720 ppm	0.0020 ppm	16.5188 ppm	0.0029 ppm	0.0019 ppm	0.0005 ppm	0.0019 ppm
Concentration RSD	1.1 %	0.7 %	1.3 %	3.3 %	22.0 %	172.4 %	72.8 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	1.8816 ppm	0.0002 ppm	0.0560 ppm	0.0024 ppm	-0.0021 ppm	0.0008 ppm	0.0246 ppm
Concentration per Run 1	1.8888 ppm	0.0003 ppm	0.0551 ppm	0.0025 ppm	-0.0017 ppm	0.0009 ppm	0.0246 ppm
Concentration per Run 2	1.8778 ppm	0.0001 ppm	0.0565 ppm	0.0024 ppm	-0.0027 ppm	0.0008 ppm	0.0246 ppm
Concentration per Run 3	1.8782 ppm	0.0001 ppm	0.0564 ppm	0.0025 ppm	-0.0020 ppm	0.0007 ppm	0.0246 ppm
Concentration RSD	0.3 %	69.9 %	1.4 %	3.1 %	25.1 %	11.4 %	0.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	101.7184 %	95.1649 %	88.8337 %	100.0258 %	93.3040 %	93.8818 %	0.0073 ppm
Concentration per Run 1	103.8502 %	95.3292 %	88.7679 %	101.4016 %	92.8507 %	93.9722 %	0.0076 ppm
Concentration per Run 2	101.1059 %	95.2388 %	88.7711 %	99.7077 %	93.5137 %	93.9958 %	0.0073 ppm
Concentration per Run 3	100.1992 %	94.9265 %	88.9620 %	98.9682 %	93.5477 %	93.6774 %	0.0070 ppm
Concentration RSD	1.9 %	0.2 %	0.1 %	1.2 %	0.4 %	0.2 %	4.2 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-04 WG2081457

Analysis started at: 6/26/2025 7:38:59 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	-0.0001 ppm	0.0114 ppm	0.0003 ppm	0.0322 ppm	0.0250 ppm	0.0000 ppm	10.8163 ppm
Concentration per Run 1	-0.0002 ppm	0.0099 ppm	0.0020 ppm	0.0322 ppm	0.0250 ppm	0.0000 ppm	10.6716 ppm
Concentration per Run 2	-0.0002 ppm	0.0128 ppm	0.0008 ppm	0.0323 ppm	0.0251 ppm	0.0000 ppm	10.9050 ppm
Concentration per Run 3	0.0001 ppm	0.0114 ppm	-0.0019 ppm	0.0323 ppm	0.0250 ppm	0.0000 ppm	10.8721 ppm
Concentration RSD	137.4 %	12.6 %	610.0 %	0.2 %	0.1 %	128.7 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0024 ppm	0.0005 ppm	0.0015 ppm	2.4887 ppm	1.1463 ppm	5.0227 ppm
Concentration per Run 1	0.0002 ppm	0.0024 ppm	0.0005 ppm	0.0015 ppm	2.4631 ppm	1.1710 ppm	5.0500 ppm
Concentration per Run 2	0.0002 ppm	0.0024 ppm	0.0004 ppm	0.0015 ppm	2.5065 ppm	1.1211 ppm	5.0231 ppm
Concentration per Run 3	0.0001 ppm	0.0024 ppm	0.0007 ppm	0.0014 ppm	2.4965 ppm	1.1468 ppm	4.9951 ppm
Concentration RSD	24.0 %	2.0 %	27.0 %	2.6 %	0.9 %	2.2 %	0.5 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0425 ppm	0.0002 ppm	9.5284 ppm	0.0012 ppm	-0.0015 ppm	0.0005 ppm	0.0012 ppm
Concentration per Run 1	0.0422 ppm	0.0002 ppm	9.6467 ppm	0.0014 ppm	-0.0013 ppm	-0.0001 ppm	0.0012 ppm
Concentration per Run 2	0.0425 ppm	0.0002 ppm	9.3878 ppm	0.0010 ppm	-0.0017 ppm	0.0008 ppm	0.0012 ppm
Concentration per Run 3	0.0426 ppm	0.0003 ppm	9.5506 ppm	0.0013 ppm	-0.0014 ppm	0.0007 ppm	0.0012 ppm
Concentration RSD	0.5 %	14.3 %	1.4 %	15.8 %	16.3 %	96.8 %	3.0 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	7.5010 ppm	0.0000 ppm	0.0448 ppm	-0.0001 ppm	-0.0012 ppm	-0.0001 ppm	0.0059 ppm
Concentration per Run 1	7.4933 ppm	0.0005 ppm	0.0447 ppm	-0.0002 ppm	-0.0011 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 2	7.5291 ppm	-0.0004 ppm	0.0447 ppm	0.0000 ppm	-0.0011 ppm	-0.0001 ppm	0.0058 ppm
Concentration per Run 3	7.4807 ppm	-0.0001 ppm	0.0449 ppm	-0.0001 ppm	-0.0015 ppm	-0.0002 ppm	0.0061 ppm
Concentration RSD	0.3 %	11,903.6 %	0.2 %	107.2 %	15.5 %	163.2 %	2.7 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.3295 %	98.0182 %	94.9126 %	98.4319 %	93.7086 %	96.4421 %	0.0008 ppm
Concentration per Run 1	102.3082 %	98.1255 %	94.9370 %	99.3388 %	93.6589 %	96.4518 %	0.0012 ppm
Concentration per Run 2	99.5105 %	97.8965 %	94.5475 %	98.1013 %	93.2880 %	96.3445 %	0.0006 ppm
Concentration per Run 3	99.1697 %	98.0325 %	95.2534 %	97.8555 %	94.1788 %	96.5299 %	0.0007 ppm
Concentration RSD	1.7 %	0.1 %	0.4 %	0.8 %	0.5 %	0.1 %	34.2 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-05 WG2081457

Analysis started at: 6/26/2025 7:46:23 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	-0.0002 ppm	0.0061 ppm	-0.0015 ppm	0.0131 ppm	0.0212 ppm	0.0000 ppm	16.5413 ppm
Concentration per Run 1	-0.0002 ppm	0.0058 ppm	-0.0008 ppm	0.0131 ppm	0.0209 ppm	0.0000 ppm	16.3096 ppm
Concentration per Run 2	-0.0002 ppm	0.0063 ppm	-0.0012 ppm	0.0131 ppm	0.0213 ppm	0.0000 ppm	16.6953 ppm
Concentration per Run 3	-0.0001 ppm	0.0060 ppm	-0.0024 ppm	0.0131 ppm	0.0214 ppm	0.0000 ppm	16.6190 ppm
Concentration RSD	12.4 %	4.2 %	56.6 %	0.2 %	1.1 %	45.0 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0016 ppm	0.0042 ppm	1.8689 ppm	4.4267 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0015 ppm	0.0037 ppm	1.8702 ppm	4.4150 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0016 ppm	0.0041 ppm	1.8474 ppm	4.4286 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	0.0005 ppm	0.0016 ppm	0.0048 ppm	1.8890 ppm	4.4365 ppm
Concentration RSD	52.6 %	32.4 %	10.1 %	5.6 %	13.5 %	1.1 %	0.2 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0008 ppm	5.0228 ppm	-0.0001 ppm	-0.0006 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 1	0.0002 ppm	0.0006 ppm	4.9957 ppm	-0.0002 ppm	-0.0007 ppm	0.0005 ppm	0.0009 ppm
Concentration per Run 2	0.0003 ppm	0.0009 ppm	4.9838 ppm	0.0000 ppm	-0.0004 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	5.0889 ppm	-0.0002 ppm	-0.0008 ppm	0.0006 ppm	0.0015 ppm
Concentration RSD	73.1 %	23.1 %	1.1 %	103.4 %	34.2 %	58.9 %	155.8 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	3.0671 ppm	-0.0002 ppm	0.0530 ppm	-0.0001 ppm	-0.0008 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 1	3.0772 ppm	-0.0004 ppm	0.0522 ppm	0.0001 ppm	-0.0006 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 2	3.0643 ppm	0.0001 ppm	0.0532 ppm	-0.0002 ppm	-0.0007 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	3.0598 ppm	-0.0002 ppm	0.0535 ppm	-0.0001 ppm	-0.0011 ppm	0.0000 ppm	0.0007 ppm
Concentration RSD	0.3 %	175.9 %	1.3 %	144.5 %	34.8 %	66.3 %	6.8 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.8325 %	98.2620 %	95.5395 %	98.8989 %	94.4359 %	96.1792 %	0.0000 ppm
Concentration per Run 1	103.2795 %	98.4682 %	95.3160 %	100.4546 %	94.0875 %	96.4321 %	0.0000 ppm
Concentration per Run 2	99.6280 %	98.1292 %	95.8910 %	98.0882 %	94.9176 %	96.1579 %	-0.0001 ppm
Concentration per Run 3	99.5901 %	98.1885 %	95.4116 %	98.1539 %	94.3026 %	95.9478 %	0.0001 ppm
Concentration RSD	2.1 %	0.2 %	0.3 %	1.4 %	0.5 %	0.3 %	543.7 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 7:57:33 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	0.5074 ppm	0.4873 ppm	0.4673 ppm	0.5031 ppm	0.4787 ppm	0.4825 ppm	0.4822 ppm
Concentration per Run 1	0.5089 ppm	0.4709 ppm	0.4658 ppm	0.5045 ppm	0.4630 ppm	0.4681 ppm	0.4719 ppm
Concentration per Run 2	0.5057 ppm	0.4921 ppm	0.4695 ppm	0.5020 ppm	0.4851 ppm	0.4887 ppm	0.4865 ppm
Concentration per Run 3	0.5075 ppm	0.4988 ppm	0.4667 ppm	0.5029 ppm	0.4881 ppm	0.4906 ppm	0.4880 ppm
Recovery Percentage 1	101.471 %	97.453 %	93.468 %	100.622 %	95.744 %	96.494 %	96.431 %
Concentration RSD	0.3 %	3.0 %	0.4 %	0.2 %	2.9 %	2.6 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.4765 ppm	0.5045 ppm	0.5002 ppm	0.4986 ppm	0.4769 ppm	5.1451 ppm	0.5143 ppm
Concentration per Run 1	0.4758 ppm	0.5043 ppm	0.5002 ppm	0.5010 ppm	0.4628 ppm	4.9251 ppm	0.5154 ppm
Concentration per Run 2	0.4744 ppm	0.5034 ppm	0.5010 ppm	0.4960 ppm	0.4807 ppm	5.2051 ppm	0.5105 ppm
Concentration per Run 3	0.4792 ppm	0.5058 ppm	0.4993 ppm	0.4988 ppm	0.4871 ppm	5.3051 ppm	0.5171 ppm
Recovery Percentage 1	95.297 %	100.901 %	100.037 %	99.719 %	95.375 %	102.902 %	102.861 %
Concentration RSD	0.5 %	0.2 %	0.2 %	0.5 %	2.6 %	3.8 %	0.7 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.4807 ppm	0.4823 ppm	9.7770 ppm	0.4605 ppm	0.4723 ppm	0.4707 ppm	0.5031 ppm
Concentration per Run 1	0.4661 ppm	0.4815 ppm	9.3579 ppm	0.4576 ppm	0.4722 ppm	0.4710 ppm	0.5026 ppm
Concentration per Run 2	0.4884 ppm	0.4812 ppm	9.9003 ppm	0.4592 ppm	0.4697 ppm	0.4695 ppm	0.5041 ppm
Concentration per Run 3	0.4875 ppm	0.4842 ppm	10.0728 ppm	0.4647 ppm	0.4749 ppm	0.4716 ppm	0.5026 ppm
Recovery Percentage 1	96.134 %	96.461 %	97.770 %	92.097 %	94.455 %	94.143 %	100.614 %
Concentration RSD	2.6 %	0.3 %	3.8 %	0.8 %	0.6 %	0.2 %	0.2 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	5.1857 ppm	0.4428 ppm	0.4961 ppm	0.4948 ppm	0.4757 ppm	0.4938 ppm	0.4945 ppm
Concentration per Run 1	5.1673 ppm	0.4408 ppm	0.4798 ppm	0.4952 ppm	0.4763 ppm	0.4925 ppm	0.4942 ppm
Concentration per Run 2	5.1851 ppm	0.4415 ppm	0.5023 ppm	0.4942 ppm	0.4735 ppm	0.4953 ppm	0.4923 ppm
Concentration per Run 3	5.2046 ppm	0.4461 ppm	0.5062 ppm	0.4950 ppm	0.4775 ppm	0.4936 ppm	0.4969 ppm
Recovery Percentage 1	98.774 %	88.562 %	99.220 %	98.961 %	95.145 %	98.753 %	98.898 %
Concentration RSD	0.4 %	0.7 %	2.9 %	0.1 %	0.4 %	0.3 %	0.5 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.2635 %	98.0958 %	97.2819 %	101.3752 %	93.7024 %	97.8957 %	0.5143 ppm
Concentration per Run 1	102.8266 %	98.1854 %	97.5217 %	104.2113 %	94.2491 %	98.0068 %	0.4922 ppm
Concentration per Run 2	99.1671 %	97.9097 %	96.8765 %	100.3373 %	93.7526 %	97.8142 %	0.5201 ppm
Concentration per Run 3	98.7966 %	98.1923 %	97.4474 %	99.5770 %	93.1057 %	97.8662 %	0.5307 ppm
Recovery Percentage 1							102.866 %
Concentration RSD	2.2 %	0.2 %	0.4 %	2.5 %	0.6 %	0.1 %	3.9 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 8:03:53 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	0.0489 ppm	-0.0018 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 1	-0.0003 ppm	0.0516 ppm	-0.0016 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 2	-0.0001 ppm	0.0506 ppm	-0.0019 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 3	0.0001 ppm	0.0443 ppm	-0.0018 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0105 ppm
Recovery Percentage 1	-1.464 %	48.867 %	-35.605 %	3.518 %	0.537 %	0.307 %	5.883 %
Concentration RSD	175.3 %	8.1 %	6.6 %	10.2 %	52.4 %	193.3 %	68.8 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0007 ppm	0.0012 ppm	0.0041 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0006 ppm	0.0015 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0007 ppm	0.0008 ppm	0.0058 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0007 ppm	0.0014 ppm	0.0055 ppm	0.0004 ppm
Recovery Percentage 1	1.104 %	-1.137 %	-0.377 %	6.812 %	2.438 %	0.162 %	0.211 %
Concentration RSD	98.6 %	24.3 %	495.6 %	12.3 %	32.1 %	69.5 %	222.2 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0008 ppm	0.0010 ppm	0.0000 ppm	-0.0005 ppm	0.0006 ppm	0.0017 ppm
Concentration per Run 1	0.0003 ppm	0.0008 ppm	0.0007 ppm	0.0000 ppm	-0.0005 ppm	0.0003 ppm	0.0032 ppm
Concentration per Run 2	0.0001 ppm	0.0007 ppm	0.0011 ppm	0.0001 ppm	-0.0006 ppm	0.0008 ppm	0.0015 ppm
Concentration per Run 3	0.0001 ppm	0.0008 ppm	0.0011 ppm	-0.0001 ppm	-0.0004 ppm	0.0006 ppm	0.0005 ppm
Recovery Percentage 1	1.713 %	1.567 %	0.049 %	0.144 %	-5.120 %	1.107 %	17.163 %
Concentration RSD	58.0 %	4.9 %	23.6 %	240.1 %	17.0 %	40.6 %	80.0 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0019 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0017 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	0.0017 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0019 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	-0.0016 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 3	0.0021 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	-0.0017 ppm	-0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	0.374 %	-0.231 %	0.398 %	-0.764 %	-8.582 %	-0.355 %	-3.133 %
Concentration RSD	10.1 %	200.4 %	38.7 %	122.1 %	5.7 %	170.8 %	45.7 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.7998 %	101.0669 %	99.4882 %	99.7782 %	100.5469 %	100.2037 %	0.0000 ppm
Concentration per Run 1	102.6514 %	101.0113 %	100.1195 %	101.2471 %	101.0120 %	100.0408 %	-0.0003 ppm
Concentration per Run 2	100.5154 %	100.8829 %	99.1585 %	99.6650 %	100.5642 %	100.0206 %	0.0003 ppm
Concentration per Run 3	99.2325 %	101.3067 %	99.1866 %	98.4224 %	100.0645 %	100.5498 %	0.0001 ppm
Recovery Percentage 1							0.270 %
Concentration RSD	1.7 %	0.2 %	0.5 %	1.4 %	0.5 %	0.3 %	1,098.2 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xWG2079820-1 WG2079820
 Analysis started at: 6/26/2025 8:34:51 PM
 Comments: <Comment>
 Rack: 2
 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	0.0000 ppm	0.0060 ppm	-0.0005 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 1	0.0000 ppm	0.0062 ppm	-0.0016 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 2	0.0001 ppm	0.0071 ppm	0.0014 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 3	-0.0001 ppm	0.0046 ppm	-0.0013 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0013 ppm
Recovery Percentage 1	-0.275 %	5.967 %	-10.654 %	2.435 %	0.336 %	0.050 %	2.410 %
Concentration RSD	456.0 %	21.8 %	308.3 %	3.3 %	115.8 %	178.1 %	51.0 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0009 ppm	0.0042 ppm	0.0043 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0013 ppm	0.0010 ppm	0.0032 ppm	0.0046 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0013 ppm	0.0005 ppm	0.0024 ppm	0.0039 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0012 ppm	0.0011 ppm	0.0070 ppm	0.0044 ppm
Recovery Percentage 1	-0.290 %	-0.746 %	1.492 %	12.729 %	1.771 %	0.168 %	4.305 %
Concentration RSD	283.4 %	16.3 %	196.4 %	2.8 %	35.9 %	59.1 %	9.0 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0002 ppm	0.0028 ppm	0.0003 ppm	-0.0001 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 1	0.0004 ppm	0.0002 ppm	0.0041 ppm	0.0002 ppm	-0.0003 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 2	0.0003 ppm	0.0003 ppm	0.0016 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm	-0.0008 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0027 ppm	0.0003 ppm	-0.0001 ppm	-0.0002 ppm	-0.0002 ppm
Recovery Percentage 1	3.569 %	0.440 %	0.139 %	1.031 %	-1.097 %	-0.714 %	-2.757 %
Concentration RSD	22.7 %	19.4 %	44.9 %	17.2 %	156.2 %	70.0 %	186.8 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0051 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0055 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 2	0.0050 ppm	-0.0006 ppm	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 3	0.0048 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	1.026 %	-0.547 %	0.326 %	-0.343 %	-2.840 %	-0.666 %	3.887 %
Concentration RSD	6.4 %	113.2 %	33.6 %	522.8 %	68.9 %	126.8 %	17.0 %

	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)	Li 670.784 {50} (Radial)
Concentration average	100.8731 %	98.9581 %	97.6109 %	103.1645 %	105.3320 %	99.3034 %	0.0000 ppm
Concentration per Run 1	103.4971 %	97.5326 %	96.2553 %	105.8513 %	104.7212 %	98.1207 %	0.0000 ppm
Concentration per Run 2	100.0075 %	99.7635 %	97.5150 %	102.4718 %	105.6018 %	100.1132 %	0.0000 ppm
Concentration per Run 3	99.1148 %	99.5782 %	99.0625 %	101.1705 %	105.6730 %	99.6762 %	-0.0001 ppm
Recovery Percentage 1							-0.342 %
Concentration RSD	2.3 %	1.3 %	1.4 %	2.3 %	0.5 %	1.1 %	84.1 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xWG2079820-2 WG2079820
 Analysis started at: 6/26/2025 8:41:31 PM
 Comments: <Comment>
 Rack: 2
 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	0.0537 ppm	2.1962 ppm	0.1219 ppm	0.9953 ppm	2.0776 ppm	0.0511 ppm	10.1696 ppm
Concentration per Run 1	0.0540 ppm	2.1793 ppm	0.1223 ppm	0.9966 ppm	2.1022 ppm	0.0506 ppm	10.0957 ppm
Concentration per Run 2	0.0538 ppm	2.1947 ppm	0.1217 ppm	0.9957 ppm	2.0640 ppm	0.0515 ppm	10.2364 ppm
Concentration per Run 3	0.0535 ppm	2.2146 ppm	0.1216 ppm	0.9937 ppm	2.0665 ppm	0.0512 ppm	10.1766 ppm
Concentration RSD	0.5 %	0.8 %	0.3 %	0.1 %	1.0 %	0.8 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0520 ppm	0.5087 ppm	0.2057 ppm	0.2627 ppm	1.0195 ppm	11.2634 ppm	10.4074 ppm
Concentration per Run 1	0.0527 ppm	0.5119 ppm	0.2065 ppm	0.2618 ppm	1.0065 ppm	11.3293 ppm	10.4442 ppm
Concentration per Run 2	0.0518 ppm	0.5085 ppm	0.2055 ppm	0.2631 ppm	1.0278 ppm	11.0484 ppm	10.3940 ppm
Concentration per Run 3	0.0514 ppm	0.5056 ppm	0.2051 ppm	0.2631 ppm	1.0242 ppm	11.4125 ppm	10.3841 ppm
Concentration RSD	1.3 %	0.6 %	0.4 %	0.3 %	1.1 %	1.7 %	0.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5070 ppm	0.9624 ppm	10.9472 ppm	0.4809 ppm	0.5166 ppm	0.4863 ppm	0.1263 ppm
Concentration per Run 1	0.5028 ppm	0.9662 ppm	10.9798 ppm	0.4812 ppm	0.5163 ppm	0.4813 ppm	0.1245 ppm
Concentration per Run 2	0.5103 ppm	0.9614 ppm	10.7564 ppm	0.4818 ppm	0.5168 ppm	0.4893 ppm	0.1273 ppm
Concentration per Run 3	0.5079 ppm	0.9597 ppm	11.1053 ppm	0.4798 ppm	0.5168 ppm	0.4884 ppm	0.1271 ppm
Concentration RSD	0.8 %	0.3 %	1.6 %	0.2 %	0.1 %	0.9 %	1.2 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	1.0682 ppm	0.9153 ppm	1.0395 ppm	1.0093 ppm	0.1148 ppm	0.5146 ppm	0.5054 ppm
Concentration per Run 1	1.0644 ppm	0.9156 ppm	1.0301 ppm	1.0120 ppm	0.1147 ppm	0.5164 ppm	0.5067 ppm
Concentration per Run 2	1.0718 ppm	0.9175 ppm	1.0437 ppm	1.0082 ppm	0.1143 ppm	0.5140 ppm	0.5047 ppm
Concentration per Run 3	1.0682 ppm	0.9129 ppm	1.0447 ppm	1.0077 ppm	0.1154 ppm	0.5134 ppm	0.5046 ppm
Concentration RSD	0.3 %	0.3 %	0.8 %	0.2 %	0.5 %	0.3 %	0.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	98.7936 %	95.7003 %	93.9636 %	98.2938 %	89.4659 %	95.7036 %	-0.0005 ppm
Concentration per Run 1	100.0139 %	95.8992 %	95.1594 %	99.1068 %	89.9991 %	95.7885 %	-0.0006 ppm
Concentration per Run 2	98.1444 %	95.3823 %	93.7358 %	97.7632 %	89.1094 %	95.4983 %	-0.0005 ppm
Concentration per Run 3	98.2224 %	95.8192 %	92.9957 %	98.0115 %	89.2891 %	95.8241 %	-0.0006 ppm
Concentration RSD	1.1 %	0.3 %	1.2 %	0.7 %	0.5 %	0.2 %	13.3 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xL2535069-04 WG2079820

Analysis started at: 6/26/2025 8:47:57 PM

Comments: <Comment>

Rack: 2

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	-0.0001 ppm	0.1974 ppm	0.0004 ppm	0.2143 ppm	0.0120 ppm	0.0000 ppm	30.9953 ppm
Concentration per Run 1	0.0000 ppm	0.1967 ppm	0.0003 ppm	0.2142 ppm	0.0120 ppm	0.0000 ppm	31.1089 ppm
Concentration per Run 2	-0.0003 ppm	0.1989 ppm	0.0004 ppm	0.2135 ppm	0.0121 ppm	0.0000 ppm	31.0584 ppm
Concentration per Run 3	0.0001 ppm	0.1966 ppm	0.0005 ppm	0.2152 ppm	0.0120 ppm	0.0000 ppm	30.8186 ppm
Concentration RSD	330.9 %	0.7 %	30.4 %	0.4 %	0.7 %	75.5 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	-0.0001 ppm	0.0009 ppm	0.0558 ppm	0.3091 ppm	33.2799 ppm	49.1960 ppm
Concentration per Run 1	0.0003 ppm	0.0000 ppm	0.0008 ppm	0.0563 ppm	0.3106 ppm	32.6044 ppm	49.1421 ppm
Concentration per Run 2	0.0003 ppm	-0.0001 ppm	0.0008 ppm	0.0547 ppm	0.3095 ppm	33.4035 ppm	49.2158 ppm
Concentration per Run 3	0.0004 ppm	-0.0002 ppm	0.0010 ppm	0.0564 ppm	0.3073 ppm	33.8317 ppm	49.2301 ppm
Concentration RSD	14.2 %	108.0 %	15.0 %	1.7 %	0.5 %	1.9 %	0.1 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0344 ppm	0.0030 ppm	474.8737 ppm	0.0068 ppm	-0.0008 ppm	0.0025 ppm	0.0000 ppm
Concentration per Run 1	0.0346 ppm	0.0034 ppm	503.2168 ppm	0.0066 ppm	-0.0010 ppm	0.0023 ppm	0.0020 ppm
Concentration per Run 2	0.0343 ppm	0.0028 ppm	438.2647 ppm	0.0071 ppm	-0.0001 ppm	0.0021 ppm	-0.0020 ppm
Concentration per Run 3	0.0344 ppm	0.0027 ppm	483.1395 ppm	0.0068 ppm	-0.0012 ppm	0.0030 ppm	-0.0001 ppm
Concentration RSD	0.4 %	13.4 %	7.0 %	3.3 %	76.9 %	20.4 %	6,324.7 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	4.6425 ppm	0.0019 ppm	0.3517 ppm	0.0017 ppm	-0.0043 ppm	-0.0002 ppm	0.0589 ppm
Concentration per Run 1	4.6715 ppm	0.0015 ppm	0.3514 ppm	0.0018 ppm	-0.0053 ppm	-0.0001 ppm	0.0588 ppm
Concentration per Run 2	4.6216 ppm	0.0015 ppm	0.3521 ppm	0.0016 ppm	-0.0033 ppm	-0.0002 ppm	0.0593 ppm
Concentration per Run 3	4.6345 ppm	0.0027 ppm	0.3517 ppm	0.0017 ppm	-0.0043 ppm	-0.0002 ppm	0.0587 ppm
Concentration RSD	0.6 %	37.4 %	0.1 %	5.4 %	23.3 %	33.8 %	0.6 %

	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)	Li 670.784 {50} (Radial)
Concentration average	94.4132 %	81.3240 %	78.5448 %	91.5864 %	61.4269 %	78.7539 %	0.0098 ppm
Concentration per Run 1	95.4714 %	81.1178 %	77.9714 %	91.6883 %	60.8564 %	78.4529 %	0.0096 ppm
Concentration per Run 2	93.8959 %	81.8115 %	79.0542 %	91.5054 %	61.9269 %	79.3653 %	0.0101 ppm
Concentration per Run 3	93.8724 %	81.0427 %	78.6089 %	91.5657 %	61.4974 %	78.4437 %	0.0098 ppm
Concentration RSD	1.0 %	0.5 %	0.7 %	0.1 %	0.9 %	0.7 %	2.5 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xWG2079820-3 WG2079820
 Analysis started at: 6/26/2025 8:54:38 PM
 Comments: <Comment>
 Rack: 2
 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	0.0596 ppm	2.4999 ppm	0.1397 ppm	1.2327 ppm	2.1396 ppm	0.0526 ppm	40.9583 ppm
Concentration per Run 1	0.0598 ppm	2.4531 ppm	0.1408 ppm	1.2359 ppm	2.1082 ppm	0.0529 ppm	41.4908 ppm
Concentration per Run 2	0.0600 ppm	2.5269 ppm	0.1375 ppm	1.2369 ppm	2.1835 ppm	0.0527 ppm	40.8978 ppm
Concentration per Run 3	0.0591 ppm	2.5197 ppm	0.1409 ppm	1.2255 ppm	2.1270 ppm	0.0521 ppm	40.4862 ppm
Concentration RSD	0.8 %	1.6 %	1.4 %	0.5 %	1.8 %	0.7 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0508 ppm	0.4763 ppm	0.2036 ppm	0.3353 ppm	1.2662 ppm	42.3557 ppm	56.7587 ppm
Concentration per Run 1	0.0508 ppm	0.4768 ppm	0.2061 ppm	0.3334 ppm	1.2759 ppm	40.3480 ppm	57.1759 ppm
Concentration per Run 2	0.0511 ppm	0.4792 ppm	0.2048 ppm	0.3400 ppm	1.2655 ppm	43.0890 ppm	57.2009 ppm
Concentration per Run 3	0.0506 ppm	0.4730 ppm	0.1998 ppm	0.3327 ppm	1.2571 ppm	43.6301 ppm	55.8995 ppm
Concentration RSD	0.5 %	0.6 %	1.6 %	1.2 %	0.7 %	4.2 %	1.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.5397 ppm	0.9516 ppm	450.6999 ppm	0.5686 ppm	0.5682 ppm	0.6314 ppm	0.1420 ppm
Concentration per Run 1	0.5433 ppm	0.9494 ppm	446.9894 ppm	0.5778 ppm	0.5803 ppm	0.6423 ppm	0.1433 ppm
Concentration per Run 2	0.5405 ppm	0.9571 ppm	436.6518 ppm	0.5644 ppm	0.5623 ppm	0.6269 ppm	0.1415 ppm
Concentration per Run 3	0.5353 ppm	0.9485 ppm	468.4587 ppm	0.5634 ppm	0.5618 ppm	0.6249 ppm	0.1413 ppm
Concentration RSD	0.8 %	0.5 %	3.6 %	1.4 %	1.9 %	1.5 %	0.8 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	5.9973 ppm	0.6193 ppm	1.4247 ppm	0.9429 ppm	0.1126 ppm	0.5233 ppm	0.5667 ppm
Concentration per Run 1	6.1053 ppm	0.6294 ppm	1.4120 ppm	0.9514 ppm	0.1123 ppm	0.5290 ppm	0.5742 ppm
Concentration per Run 2	5.9477 ppm	0.6173 ppm	1.4367 ppm	0.9487 ppm	0.1136 ppm	0.5249 ppm	0.5636 ppm
Concentration per Run 3	5.9389 ppm	0.6113 ppm	1.4253 ppm	0.9286 ppm	0.1118 ppm	0.5159 ppm	0.5624 ppm
Concentration RSD	1.6 %	1.5 %	0.9 %	1.3 %	0.9 %	1.3 %	1.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	92.3863 %	81.9960 %	78.3011 %	91.8677 %	60.8979 %	81.0080 %	0.0094 ppm
Concentration per Run 1	92.7627 %	81.7856 %	77.2465 %	91.9861 %	59.9766 %	81.0624 %	0.0090 ppm
Concentration per Run 2	92.2208 %	81.1807 %	78.6667 %	91.5612 %	61.2083 %	80.3759 %	0.0095 ppm
Concentration per Run 3	92.1755 %	83.0217 %	78.9902 %	92.0559 %	61.5089 %	81.5858 %	0.0097 ppm
Concentration RSD	0.4 %	1.1 %	1.2 %	0.3 %	1.3 %	0.7 %	4.0 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xWG2079820-4 WG2079820
Analysis started at: 6/26/2025 9:01:37 PM
Comments: <Comment>
Rack: 2
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	-0.0002 ppm	0.2010 ppm	0.0005 ppm	0.2182 ppm	0.0125 ppm	0.0000 ppm	31.9753 ppm
Concentration per Run 1	-0.0001 ppm	0.1959 ppm	0.0008 ppm	0.2181 ppm	0.0124 ppm	0.0001 ppm	32.1790 ppm
Concentration per Run 2	-0.0001 ppm	0.2032 ppm	0.0000 ppm	0.2197 ppm	0.0125 ppm	0.0001 ppm	31.7705 ppm
Concentration per Run 3	-0.0003 ppm	0.2039 ppm	0.0007 ppm	0.2168 ppm	0.0125 ppm	0.0000 ppm	31.9766 ppm
Concentration RSD	75.3 %	2.2 %	83.4 %	0.7 %	0.3 %	68.1 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0000 ppm	0.0009 ppm	0.0552 ppm	0.3307 ppm	31.7957 ppm	49.9649 ppm
Concentration per Run 1	0.0004 ppm	0.0000 ppm	0.0010 ppm	0.0550 ppm	0.3310 ppm	31.4261 ppm	50.0128 ppm
Concentration per Run 2	0.0003 ppm	0.0002 ppm	0.0011 ppm	0.0556 ppm	0.3307 ppm	32.6004 ppm	49.8908 ppm
Concentration per Run 3	0.0003 ppm	-0.0001 ppm	0.0005 ppm	0.0550 ppm	0.3305 ppm	31.3606 ppm	49.9910 ppm
Concentration RSD	13.3 %	627.3 %	33.5 %	0.7 %	0.1 %	2.2 %	0.1 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0359 ppm	0.0035 ppm	456.9763 ppm	0.0072 ppm	0.0000 ppm	0.0014 ppm	0.0006 ppm
Concentration per Run 1	0.0359 ppm	0.0039 ppm	455.0135 ppm	0.0074 ppm	-0.0002 ppm	0.0010 ppm	0.0020 ppm
Concentration per Run 2	0.0359 ppm	0.0036 ppm	447.4382 ppm	0.0070 ppm	0.0000 ppm	0.0019 ppm	-0.0005 ppm
Concentration per Run 3	0.0358 ppm	0.0031 ppm	468.4771 ppm	0.0072 ppm	0.0003 ppm	0.0014 ppm	0.0004 ppm
Concentration RSD	0.2 %	11.8 %	2.3 %	2.4 %	1,608.0 %	28.3 %	204.5 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	4.7985 ppm	0.0018 ppm	0.3615 ppm	0.0017 ppm	-0.0039 ppm	-0.0001 ppm	0.0609 ppm
Concentration per Run 1	4.8061 ppm	0.0013 ppm	0.3607 ppm	0.0015 ppm	-0.0043 ppm	-0.0001 ppm	0.0609 ppm
Concentration per Run 2	4.7941 ppm	0.0021 ppm	0.3634 ppm	0.0017 ppm	-0.0035 ppm	-0.0001 ppm	0.0608 ppm
Concentration per Run 3	4.7952 ppm	0.0019 ppm	0.3603 ppm	0.0018 ppm	-0.0039 ppm	-0.0001 ppm	0.0610 ppm
Concentration RSD	0.1 %	22.5 %	0.5 %	9.6 %	10.1 %	20.5 %	0.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	93.1708 %	81.1702 %	79.0519 %	89.4226 %	59.2661 %	77.4241 %	0.0095 ppm
Concentration per Run 1	93.3335 %	81.1907 %	78.2525 %	89.3900 %	59.2098 %	77.4098 %	0.0094 ppm
Concentration per Run 2	93.1842 %	81.0540 %	79.8493 %	89.3501 %	59.3855 %	77.2218 %	0.0100 ppm
Concentration per Run 3	92.9948 %	81.2658 %	79.0540 %	89.5277 %	59.2029 %	77.6407 %	0.0092 ppm
Concentration RSD	0.2 %	0.1 %	1.0 %	0.1 %	0.2 %	0.3 %	4.0 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xline disconnected
Analysis started at: 6/26/2025 9:08:36 PM
Comments: <Comment>
Rack: 2
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	1.2692 ppm	0.0025 ppm	0.0001 ppm	0.6267 ppm	0.0198 ppm	24.5916 ppm
Concentration per Run 1	0.0001 ppm	2.3673 ppm	0.0025 ppm	0.0004 ppm	1.1523 ppm	0.0364 ppm	45.2061 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0026 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.1710 ppm	0.0026 ppm	0.0000 ppm	0.1010 ppm	0.0031 ppm	3.9770 ppm
Concentration RSD	115.0 %	122.4 %	3.1 %	135.1 %	118.6 %	119.4 %	118.6 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0004 ppm	-0.0048 ppm	0.9125 ppm	13.8053 ppm	0.0748 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0005 ppm	-0.0047 ppm	1.6997 ppm	25.1688 ppm	0.1039 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0048 ppm	0.0000 ppm	0.0000 ppm	0.0683 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0049 ppm	0.1252 ppm	2.4417 ppm	0.0521 ppm
Concentration RSD	34.3 %	29.4 %	27.5 %	1.9 %	122.0 %	116.4 %	35.4 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.2458 ppm	0.0028 ppm	156.7884 ppm	0.0011 ppm	0.0019 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 1	0.4525 ppm	0.0038 ppm	280.0690 ppm	0.0012 ppm	0.0020 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0027 ppm	0.0000 ppm	0.0012 ppm	0.0019 ppm	0.0012 ppm	0.0005 ppm
Concentration per Run 3	0.0391 ppm	0.0020 ppm	33.5078 ppm	0.0011 ppm	0.0018 ppm	0.0012 ppm	0.0003 ppm
Concentration RSD	118.9 %	31.3 %	111.2 %	2.2 %	4.6 %	2.3 %	30.9 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	-0.0018 ppm	0.0005 ppm	0.4436 ppm	0.0024 ppm	0.0033 ppm	0.0021 ppm	0.0007 ppm
Concentration per Run 1	0.0009 ppm	0.0010 ppm	0.8161 ppm	0.0032 ppm	0.0033 ppm	0.0024 ppm	0.0008 ppm
Concentration per Run 2	-0.0024 ppm	0.0004 ppm	0.0000 ppm	0.0024 ppm	0.0033 ppm	0.0021 ppm	0.0007 ppm
Concentration per Run 3	-0.0039 ppm	0.0000 ppm	0.0712 ppm	0.0016 ppm	0.0033 ppm	0.0019 ppm	0.0007 ppm
Concentration RSD	138.7 %	109.4 %	118.7 %	32.0 %	0.7 %	11.5 %	8.2 %

	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)	Li 670.784 {50} (Radial)
Concentration average	160.2110 %	793.1194 %	1,241.9902 %	131.2101 %	1,080.5680 %	721.5464 %	0.0017 ppm
Concentration per Run 1	50.0064 %	788.1800 %	1,242.3386 %	39.9291 %	1,065.6875 %	706.6686 %	0.0032 ppm
Concentration per Run 2	0.0000 %	791.8451 %	1,239.7532 %	0.0000 %	1,081.3700 %	722.1253 %	0.0000 ppm
Concentration per Run 3	270.4156 %	799.3330 %	1,243.8787 %	222.4911 %	1,094.6465 %	735.8454 %	0.0003 ppm
Concentration RSD	97.3 %	0.7 %	0.2 %	98.4 %	1.3 %	2.0 %	114.6 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xline disconnected
Analysis started at: 6/26/2025 9:15:35 PM
Comments: <Comment>
Rack: 2
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	0.0000 ppm	0.0011 ppm	0.0025 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	-0.0080 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0024 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	-0.0072 ppm
Concentration per Run 2	0.0000 ppm	0.0016 ppm	0.0026 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	-0.0080 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	0.0025 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	-0.0088 ppm
Concentration RSD	542.8 %	47.5 %	3.3 %	0.4 %	48.7 %	6.7 %	9.6 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0053 ppm	0.0000 ppm	-0.0069 ppm	0.0024 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0052 ppm	-0.0001 ppm	-0.0055 ppm	0.0026 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0053 ppm	0.0000 ppm	-0.0095 ppm	0.0024 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0052 ppm	-0.0001 ppm	-0.0056 ppm	0.0021 ppm
Concentration RSD	11.6 %	170.1 %	13.1 %	0.3 %	127.3 %	33.1 %	11.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0054 ppm	0.0010 ppm	0.0018 ppm	0.0010 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0102 ppm	0.0010 ppm	0.0017 ppm	0.0010 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0059 ppm	0.0010 ppm	0.0018 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0010 ppm	0.0017 ppm	0.0010 ppm	0.0002 ppm
Concentration RSD	66.9 %	13.3 %	94.7 %	1.7 %	1.4 %	3.3 %	40.6 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	-0.0068 ppm	-0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0033 ppm	0.0015 ppm	0.0005 ppm
Concentration per Run 1	-0.0068 ppm	-0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0033 ppm	0.0015 ppm	0.0005 ppm
Concentration per Run 2	-0.0068 ppm	-0.0007 ppm	0.0000 ppm	0.0002 ppm	0.0033 ppm	0.0015 ppm	0.0005 ppm
Concentration per Run 3	-0.0067 ppm	-0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0034 ppm	0.0015 ppm	0.0004 ppm
Concentration RSD	0.2 %	5.4 %	65.0 %	7.3 %	2.2 %	1.2 %	2.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	460.6378 %	827.5301 %	1,276.0934 %	462.6569 %	1,154.8071 %	832.4982 %	-0.0001 ppm
Concentration per Run 1	459.8523 %	826.0191 %	1,274.5258 %	462.7717 %	1,152.5413 %	835.0319 %	-0.0002 ppm
Concentration per Run 2	460.7887 %	828.6794 %	1,276.0151 %	462.4649 %	1,155.1905 %	830.4171 %	0.0000 ppm
Concentration per Run 3	461.2724 %	827.8917 %	1,277.7395 %	462.7341 %	1,156.6894 %	832.0455 %	-0.0002 ppm
Concentration RSD	0.2 %	0.2 %	0.1 %	0.0 %	0.2 %	0.3 %	89.5 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xline disconnected
Analysis started at: 6/26/2025 9:22:29 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	0.0000 ppm	0.0006 ppm	0.0024 ppm	-0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0103 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	0.0025 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	-0.0097 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0023 ppm	-0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0109 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0024 ppm	-0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0102 ppm
Recovery Percentage 1	0.006 %	0.116 %	0.479 %	-0.131 %	-0.004 %	-0.020 %	-2.054 %
Concentration RSD	126.2 %	56.2 %	3.5 %	6.4 %	31.6 %	3.9 %	5.9 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0054 ppm	0.0000 ppm	-0.0073 ppm	0.0006 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0053 ppm	0.0003 ppm	-0.0072 ppm	0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0053 ppm	-0.0003 ppm	-0.0042 ppm	0.0005 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0054 ppm	0.0000 ppm	-0.0104 ppm	0.0006 ppm
Recovery Percentage 1	-0.013 %	-0.009 %	0.024 %	-1.070 %	0.006 %	-0.145 %	0.127 %
Concentration RSD	5.2 %	25.3 %	8.3 %	0.5 %	932.4 %	42.8 %	13.3 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0076 ppm	0.0010 ppm	0.0018 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0072 ppm	0.0010 ppm	0.0017 ppm	0.0010 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0072 ppm	0.0010 ppm	0.0018 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0083 ppm	0.0010 ppm	0.0018 ppm	0.0010 ppm	0.0004 ppm
Recovery Percentage 1	0.000 %	0.029 %	-0.076 %	0.204 %	0.350 %	0.185 %	0.076 %
Concentration RSD	2,531.9 %	1.7 %	8.2 %	0.5 %	1.6 %	8.7 %	4.7 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	-0.0068 ppm	-0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0033 ppm	0.0015 ppm	0.0004 ppm
Concentration per Run 1	-0.0069 ppm	-0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0034 ppm	0.0015 ppm	0.0005 ppm
Concentration per Run 2	-0.0068 ppm	-0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0033 ppm	0.0015 ppm	0.0004 ppm
Concentration per Run 3	-0.0068 ppm	-0.0009 ppm	0.0000 ppm	0.0002 ppm	0.0034 ppm	0.0015 ppm	0.0005 ppm
Recovery Percentage 1	-0.130 %	-0.169 %	-0.004 %	0.032 %	0.669 %	0.298 %	0.090 %
Concentration RSD	0.4 %	5.1 %	47.1 %	16.2 %	2.1 %	1.9 %	3.8 %

	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)	Li 670.784 {50} (Radial)
Concentration average	456.2857 %	820.5544 %	1,271.8024 %	462.9601 %	1,155.0992 %	833.4415 %	-0.0002 ppm
Concentration per Run 1	455.3799 %	822.0923 %	1,270.4341 %	462.4210 %	1,153.2785 %	834.5464 %	-0.0001 ppm
Concentration per Run 2	455.6429 %	822.0973 %	1,272.4361 %	462.3805 %	1,155.2263 %	826.9550 %	-0.0002 ppm
Concentration per Run 3	457.8341 %	817.4736 %	1,272.5371 %	464.0787 %	1,156.7929 %	838.8232 %	-0.0002 ppm
Recovery Percentage 1							-0.034 %
Concentration RSD	0.3 %	0.3 %	0.1 %	0.2 %	0.2 %	0.7 %	51.3 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/27/2025 5:31:38 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	0.5219 ppm	0.4872 ppm	0.5360 ppm	0.5212 ppm	0.5035 ppm	0.4900 ppm	0.4893 ppm
Concentration per Run 1	0.5182 ppm	0.4621 ppm	0.5371 ppm	0.5191 ppm	0.4760 ppm	0.4662 ppm	0.4691 ppm
Concentration per Run 2	0.5231 ppm	0.4930 ppm	0.5355 ppm	0.5238 ppm	0.5093 ppm	0.4922 ppm	0.4895 ppm
Concentration per Run 3	0.5244 ppm	0.5063 ppm	0.5355 ppm	0.5206 ppm	0.5253 ppm	0.5116 ppm	0.5094 ppm
Recovery Percentage 1	104.383 %	97.431 %	107.206 %	104.234 %	100.703 %	97.996 %	97.867 %
Concentration RSD	0.6 %	4.6 %	0.2 %	0.5 %	5.0 %	4.6 %	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)	Mg 279.079 {121} (Axial)
Concentration average	0.5140 ppm	0.5472 ppm	0.5555 ppm	0.5355 ppm	0.4671 ppm	5.1560 ppm	0.5398 ppm
Concentration per Run 1	0.5142 ppm	0.5460 ppm	0.5553 ppm	0.5287 ppm	0.4456 ppm	4.7963 ppm	0.5353 ppm
Concentration per Run 2	0.5137 ppm	0.5483 ppm	0.5515 ppm	0.5424 ppm	0.4671 ppm	5.3040 ppm	0.5429 ppm
Concentration per Run 3	0.5140 ppm	0.5473 ppm	0.5597 ppm	0.5354 ppm	0.4887 ppm	5.3677 ppm	0.5411 ppm
Recovery Percentage 1	102.795 %	109.441 %	111.103 %	107.100 %	93.428 %	103.120 %	107.957 %
Concentration RSD	0.0 %	0.2 %	0.7 %	1.3 %	4.6 %	6.1 %	0.7 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.4769 ppm	0.5343 ppm	10.0922 ppm	0.5776 ppm	0.5753 ppm	0.5650 ppm	0.5566 ppm
Concentration per Run 1	0.4538 ppm	0.5323 ppm	9.4006 ppm	0.5754 ppm	0.5719 ppm	0.5622 ppm	0.5609 ppm
Concentration per Run 2	0.4783 ppm	0.5357 ppm	10.3899 ppm	0.5778 ppm	0.5758 ppm	0.5661 ppm	0.5540 ppm
Concentration per Run 3	0.4985 ppm	0.5348 ppm	10.4860 ppm	0.5797 ppm	0.5781 ppm	0.5668 ppm	0.5550 ppm
Recovery Percentage 1	95.372 %	106.853 %	100.922 %	115.524 %	115.053 %	113.004 %	111.329 %
Concentration RSD	4.7 %	0.3 %	6.0 %	0.4 %	0.5 %	0.4 %	0.7 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	6.2632 ppm	0.5412 ppm	0.5113 ppm	0.5517 ppm	0.5711 ppm	0.5491 ppm	0.5788 ppm
Concentration per Run 1	6.2394 ppm	0.5396 ppm	0.4836 ppm	0.5495 ppm	0.5681 ppm	0.5475 ppm	0.5833 ppm
Concentration per Run 2	6.2642 ppm	0.5412 ppm	0.5167 ppm	0.5519 ppm	0.5718 ppm	0.5473 ppm	0.5752 ppm
Concentration per Run 3	6.2859 ppm	0.5426 ppm	0.5336 ppm	0.5538 ppm	0.5732 ppm	0.5524 ppm	0.5779 ppm
Recovery Percentage 1	119.298 %	108.232 %	102.266 %	110.348 %	114.216 %	109.818 %	115.762 %
Concentration RSD	0.4 %	0.3 %	5.0 %	0.4 %	0.5 %	0.5 %	0.7 %

	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)	Li 670.784 {50} (Radial)
Concentration average	87.9440 %	85.4631 %	81.3608 %	102.7572 %	73.7139 %	89.2879 %	0.5158 ppm
Concentration per Run 1	89.8023 %	85.6678 %	81.3355 %	108.0905 %	74.3189 %	89.9462 %	0.4794 ppm
Concentration per Run 2	87.6465 %	84.9685 %	81.2359 %	102.1167 %	73.4592 %	88.6790 %	0.5304 ppm
Concentration per Run 3	86.3833 %	85.7530 %	81.5110 %	98.0643 %	73.3637 %	89.2384 %	0.5376 ppm
Recovery Percentage 1							103.162 %
Concentration RSD	2.0 %	0.5 %	0.2 %	4.9 %	0.7 %	0.7 %	6.2 %

ICP DataTrace 6

6/28/2025 10:42:52 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
 Analysis started at: 6/27/2025 5:37:57 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	0.0117 ppm	-0.0017 ppm	0.0012 ppm	0.0001 ppm	0.0001 ppm	0.0037 ppm
Concentration per Run 1	0.0000 ppm	0.0147 ppm	-0.0024 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm	0.0047 ppm
Concentration per Run 2	-0.0002 ppm	0.0104 ppm	-0.0026 ppm	0.0014 ppm	0.0001 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 3	-0.0003 ppm	0.0099 ppm	0.0000 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0040 ppm
Recovery Percentage 1	-2.459 %	11.680 %	-33.855 %	3.864 %	0.928 %	1.395 %	3.685 %
Concentration RSD	81.9 %	22.3 %	85.9 %	22.4 %	22.1 %	30.5 %	32.5 %

	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)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0007 ppm	0.0037 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0004 ppm	0.0031 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0008 ppm	0.0076 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0003 ppm	0.0011 ppm
Recovery Percentage 1	0.899 %	-0.358 %	1.874 %	3.411 %	1.397 %	0.146 %	0.027 %
Concentration RSD	90.9 %	213.8 %	64.5 %	43.4 %	33.7 %	101.4 %	3,550.6 %

	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)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0007 ppm	0.0078 ppm	-0.0004 ppm	-0.0006 ppm	-0.0006 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0007 ppm	0.0064 ppm	-0.0003 ppm	-0.0006 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	0.0070 ppm	-0.0004 ppm	-0.0004 ppm	-0.0013 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0006 ppm	0.0100 ppm	-0.0006 ppm	-0.0009 ppm	0.0002 ppm	0.0014 ppm
Recovery Percentage 1	0.087 %	1.419 %	0.390 %	-1.743 %	-6.352 %	-1.219 %	4.807 %
Concentration RSD	1,335.3 %	20.4 %	24.7 %	31.4 %	45.0 %	119.6 %	161.6 %

	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)	Zn 206.200 {463} (Axial)
Concentration average	0.0036 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0020 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 1	0.0038 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	-0.0021 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 2	0.0030 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 3	0.0040 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0026 ppm	0.0001 ppm	-0.0005 ppm
Recovery Percentage 1	0.726 %	0.587 %	0.454 %	-0.324 %	-9.822 %	1.867 %	-6.105 %
Concentration RSD	14.7 %	139.9 %	36.3 %	358.5 %	36.0 %	49.6 %	49.1 %

	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)	Li 670.784 {50} (Radial)
Concentration average	89.3998 %	87.6045 %	82.6183 %	89.0887 %	74.7367 %	87.3019 %	0.0000 ppm
Concentration per Run 1	90.5588 %	87.5751 %	82.5730 %	89.7537 %	74.3893 %	87.3331 %	0.0000 ppm
Concentration per Run 2	88.8370 %	87.5388 %	82.3318 %	88.8401 %	74.7396 %	87.2637 %	-0.0001 ppm
Concentration per Run 3	88.8037 %	87.6997 %	82.9502 %	88.6724 %	75.0813 %	87.3087 %	0.0000 ppm
Recovery Percentage 1							-0.470 %
Concentration RSD	1.1 %	0.1 %	0.4 %	0.7 %	0.5 %	0.0 %	193.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: Blank EFM Trace9
 Analysis started at: 6/27/2025 9:34:20 AM
 Rack: 0
 Vial: 1
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
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	-0.3 %	-0.2 %	-0.8 %	0.5 %	0.6 %	-0.4 %	0.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
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	-1.5 %	0.7 %	-0.3 %	0.0 %	-12.7 %	-0.5 %	2.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
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	-11.8 %	-1.5 %	2.0 %	0.1 %	-1.5 %	1.8 %	-2.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
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	-1.7 %	0.0 %	0.4 %	0.5 %	-0.3 %	-0.4 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
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	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: ICAL
 Analysis started at: 6/27/2025 9:37:41 AM
 Rack: 0
 Vial: 2
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
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	0.9946 ppm	24.9473 ppm	1.0088 ppm	0.9918 ppm	1.0082 ppm	1.0008 ppm	10.0245 ppm
Concentration per Run 2	1.0051 ppm	25.0723 ppm	0.9796 ppm	1.0002 ppm	0.9922 ppm	0.9943 ppm	9.8844 ppm
Concentration per Run 3	1.0003 ppm	24.9804 ppm	1.0116 ppm	1.0079 ppm	0.9995 ppm	1.0049 ppm	10.0910 ppm
Concentration RSD	0.5 %	0.3 %	1.8 %	0.8 %	0.8 %	0.5 %	1.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
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	1.0057 ppm	1.0028 ppm	0.9952 ppm	0.9991 ppm	24.9675 ppm	35.3060 ppm	1.0049 ppm
Concentration per Run 2	0.9962 ppm	0.9970 ppm	1.0064 ppm	0.9949 ppm	24.7926 ppm	34.4970 ppm	0.9892 ppm
Concentration per Run 3	0.9982 ppm	1.0002 ppm	0.9984 ppm	1.0061 ppm	25.2399 ppm	35.1970 ppm	1.0058 ppm
Concentration RSD	0.5 %	0.3 %	0.6 %	0.6 %	0.9 %	1.3 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
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	9.9390 ppm	1.0046 ppm	0.9972 ppm	24.9328 ppm	0.9913 ppm	1.0107 ppm	0.9978 ppm
Concentration per Run 2	10.0597 ppm	0.9928 ppm	1.0041 ppm	25.0056 ppm	1.0080 ppm	0.9805 ppm	0.9887 ppm
Concentration per Run 3	10.0013 ppm	1.0026 ppm	0.9987 ppm	25.0616 ppm	1.0007 ppm	1.0088 ppm	1.0135 ppm
Concentration RSD	0.6 %	0.6 %	0.4 %	0.3 %	0.8 %	1.7 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
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	1.0055 ppm	9.9914 ppm	0.9937 ppm	1.0028 ppm	0.9971 ppm	1.0043 ppm	0.9970 ppm
Concentration per Run 2	0.9875 ppm	9.9856 ppm	1.0058 ppm	1.0051 ppm	1.0056 ppm	0.9897 ppm	0.9937 ppm
Concentration per Run 3	1.0069 ppm	10.0230 ppm	1.0005 ppm	0.9921 ppm	0.9974 ppm	1.0060 ppm	1.0093 ppm
Concentration RSD	1.1 %	0.2 %	0.6 %	0.7 %	0.5 %	0.9 %	0.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	96.7414 %	96.3350 %	92.2927 %	88.3361 %	94.8551 %	93.7427 %
Concentration per Run 1	0.9936 ppm	96.9165 %	95.7564 %	92.5099 %	88.3148 %	94.4219 %	94.0401 %
Concentration per Run 2	1.0078 ppm	96.9078 %	98.4340 %	91.4214 %	89.7354 %	96.6766 %	92.5453 %
Concentration per Run 3	0.9986 ppm	96.3998 %	94.8147 %	92.9468 %	86.9582 %	93.4669 %	94.6426 %
Concentration RSD	0.7 %	0.3 %	1.9 %	0.9 %	1.6 %	1.7 %	1.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: ICV
Analysis started at: 6/27/2025 9:41:21 AM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5305 ppm	0.4848 ppm	0.4729 ppm	0.5036 ppm	0.4949 ppm	0.5019 ppm	0.5057 ppm
Concentration per Run 1	0.5319 ppm	0.4812 ppm	0.4736 ppm	0.5027 ppm	0.4962 ppm	0.5033 ppm	0.5071 ppm
Concentration per Run 2	0.5287 ppm	0.4862 ppm	0.4732 ppm	0.5033 ppm	0.4960 ppm	0.5027 ppm	0.5027 ppm
Concentration per Run 3	0.5308 ppm	0.4869 ppm	0.4719 ppm	0.5050 ppm	0.4925 ppm	0.4996 ppm	0.5074 ppm
Recovery Percentage 1	106.092 %	96.954 %	94.581 %	100.728 %	98.986 %	100.371 %	101.150 %
Concentration RSD	0.3 %	0.6 %	0.2 %	0.2 %	0.4 %	0.4 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4885 ppm	0.5071 ppm	0.5247 ppm	0.4949 ppm	0.5058 ppm	5.0697 ppm	0.5095 ppm
Concentration per Run 1	0.4888 ppm	0.5073 ppm	0.5261 ppm	0.4953 ppm	0.5093 ppm	5.0493 ppm	0.5088 ppm
Concentration per Run 2	0.4849 ppm	0.5046 ppm	0.5228 ppm	0.4948 ppm	0.5051 ppm	5.0958 ppm	0.5131 ppm
Concentration per Run 3	0.4918 ppm	0.5093 ppm	0.5251 ppm	0.4946 ppm	0.5031 ppm	5.0641 ppm	0.5067 ppm
Recovery Percentage 1	97.697 %	101.419 %	104.934 %	98.978 %	101.164 %	101.395 %	101.898 %
Concentration RSD	0.7 %	0.5 %	0.3 %	0.1 %	0.6 %	0.5 %	0.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5281 ppm	0.5037 ppm	0.5103 ppm	10.0534 ppm	0.5336 ppm	0.5048 ppm	0.4961 ppm
Concentration per Run 1	0.5288 ppm	0.5026 ppm	0.5090 ppm	9.9490 ppm	0.5360 ppm	0.5044 ppm	0.5009 ppm
Concentration per Run 2	0.5272 ppm	0.5048 ppm	0.5073 ppm	10.1056 ppm	0.5312 ppm	0.5051 ppm	0.4935 ppm
Concentration per Run 3	0.5282 ppm	0.5038 ppm	0.5145 ppm	10.1056 ppm	0.5337 ppm	0.5050 ppm	0.4938 ppm
Recovery Percentage 1	105.615 %	100.746 %	102.057 %	100.534 %	106.726 %	100.966 %	99.215 %
Concentration RSD	0.2 %	0.2 %	0.7 %	0.9 %	0.5 %	0.1 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4818 ppm	5.3784 ppm	0.5231 ppm	0.5009 ppm	0.5164 ppm	0.5030 ppm	0.4944 ppm
Concentration per Run 1	0.4831 ppm	5.3546 ppm	0.5249 ppm	0.4996 ppm	0.5187 ppm	0.5029 ppm	0.4944 ppm
Concentration per Run 2	0.4803 ppm	5.3687 ppm	0.5202 ppm	0.5024 ppm	0.5136 ppm	0.5029 ppm	0.4950 ppm
Concentration per Run 3	0.4822 ppm	5.4120 ppm	0.5242 ppm	0.5007 ppm	0.5170 ppm	0.5032 ppm	0.4936 ppm
Recovery Percentage 1	96.369 %	102.446 %	104.621 %	100.178 %	103.290 %	100.594 %	98.871 %
Concentration RSD	0.3 %	0.6 %	0.5 %	0.3 %	0.5 %	0.0 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5274 ppm	98.6308 %	99.7896 %	98.3460 %	96.7891 %	98.5400 %	97.5971 %
Concentration per Run 1	0.5282 ppm	98.6046 %	99.4855 %	97.9159 %	96.6862 %	97.7957 %	97.1370 %
Concentration per Run 2	0.5253 ppm	98.9648 %	99.7942 %	98.4174 %	97.1214 %	98.8691 %	97.5896 %
Concentration per Run 3	0.5288 ppm	98.3231 %	100.0890 %	98.7048 %	96.5596 %	98.9553 %	98.0648 %
Recovery Percentage 1	105.484 %						
Concentration RSD	0.4 %	0.3 %	0.3 %	0.4 %	0.3 %	0.7 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: ICB
 Analysis started at: 6/27/2025 9:44:34 AM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.0009 ppm	0.0001 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	0.0003 ppm	-0.0002 ppm	0.0005 ppm	-0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	0.0003 ppm	0.0013 ppm	-0.0004 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 3	0.0004 ppm	0.0017 ppm	0.0001 ppm	-0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	4.647 %	0.915 %	2.071 %	-2.145 %	0.049 %	0.170 %	-0.189 %
Concentration RSD	17.1 %	106.7 %	435.8 %	135.9 %	1,503.5 %	8.0 %	288.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0010 ppm	0.0027 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0003 ppm	0.0008 ppm	-0.0015 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0023 ppm	0.0012 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0003 ppm	-0.0001 ppm	0.0085 ppm	0.0005 ppm
Recovery Percentage 1	1.351 %	-1.087 %	1.698 %	2.258 %	1.934 %	0.108 %	12.513 %
Concentration RSD	102.4 %	112.3 %	261.9 %	48.2 %	124.5 %	191.8 %	39.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0005 ppm	0.0003 ppm	0.0030 ppm	0.0027 ppm	0.0002 ppm	0.0004 ppm	0.0009 ppm
Concentration per Run 1	-0.0003 ppm	0.0003 ppm	0.0027 ppm	0.0035 ppm	0.0003 ppm	0.0007 ppm	0.0025 ppm
Concentration per Run 2	0.0003 ppm	0.0002 ppm	0.0032 ppm	0.0021 ppm	0.0001 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 3	0.0017 ppm	0.0003 ppm	0.0030 ppm	0.0024 ppm	0.0002 ppm	0.0007 ppm	-0.0003 ppm
Recovery Percentage 1	0.543 %	2.640 %	5.904 %	0.134 %	0.760 %	3.769 %	1.759 %
Concentration RSD	187.8 %	27.1 %	9.8 %	26.3 %	61.5 %	139.6 %	162.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0012 ppm	0.0029 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0016 ppm	0.0040 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	-0.0014 ppm	0.0001 ppm
Concentration per Run 2	0.0006 ppm	0.0021 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 3	0.0015 ppm	0.0027 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0002 ppm
Recovery Percentage 1	12.354 %	0.584 %	0.724 %	0.088 %	1.616 %	-0.674 %	1.420 %
Concentration RSD	46.1 %	32.5 %	38.4 %	62.0 %	1.5 %	812.8 %	46.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	99.1547 %	99.2313 %	98.1701 %	99.7563 %	99.3700 %	98.8511 %
Concentration per Run 1	-0.0008 ppm	98.2432 %	99.6169 %	98.6485 %	98.8084 %	100.0143 %	99.2137 %
Concentration per Run 2	-0.0007 ppm	99.7902 %	99.2350 %	98.5622 %	100.7661 %	99.5154 %	99.3793 %
Concentration per Run 3	-0.0008 ppm	99.4306 %	98.8419 %	97.2995 %	99.6942 %	98.5803 %	97.9602 %
Recovery Percentage 1	-15.391 %						
Concentration RSD	7.1 %	0.8 %	0.4 %	0.8 %	1.0 %	0.7 %	0.8 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: ICV
 Analysis started at: 6/27/2025 9:47:47 AM
 Rack: 0
 Vial: 10
 Comment: positon changed

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5265 ppm	0.4806 ppm	0.4736 ppm	0.4975 ppm	0.4960 ppm	0.5042 ppm	0.4845 ppm
Concentration per Run 1	0.5224 ppm	0.4781 ppm	0.4706 ppm	0.4965 ppm	0.4966 ppm	0.5045 ppm	0.4810 ppm
Concentration per Run 2	0.5292 ppm	0.4809 ppm	0.4751 ppm	0.4992 ppm	0.4974 ppm	0.5042 ppm	0.4864 ppm
Concentration per Run 3	0.5279 ppm	0.4829 ppm	0.4750 ppm	0.4968 ppm	0.4940 ppm	0.5039 ppm	0.4861 ppm
Recovery Percentage 1	105.300 %	96.130 %	94.718 %	99.494 %	99.201 %	100.837 %	96.899 %
Concentration RSD	0.7 %	0.5 %	0.5 %	0.3 %	0.4 %	0.1 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4810 ppm	0.5023 ppm	0.5203 ppm	0.4956 ppm	0.5056 ppm	5.0771 ppm	0.4992 ppm
Concentration per Run 1	0.4799 ppm	0.5022 ppm	0.5144 ppm	0.4947 ppm	0.5051 ppm	5.0993 ppm	0.4972 ppm
Concentration per Run 2	0.4826 ppm	0.5023 ppm	0.5260 ppm	0.4958 ppm	0.5081 ppm	5.0704 ppm	0.5016 ppm
Concentration per Run 3	0.4804 ppm	0.5024 ppm	0.5204 ppm	0.4964 ppm	0.5035 ppm	5.0615 ppm	0.4989 ppm
Recovery Percentage 1	96.197 %	100.463 %	104.052 %	99.126 %	101.114 %	101.542 %	99.845 %
Concentration RSD	0.3 %	0.0 %	1.1 %	0.2 %	0.5 %	0.4 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5177 ppm	0.5031 ppm	0.5083 ppm	10.0530 ppm	0.5268 ppm	0.5064 ppm	0.4887 ppm
Concentration per Run 1	0.5145 ppm	0.5035 ppm	0.5053 ppm	9.9851 ppm	0.5205 ppm	0.5058 ppm	0.4872 ppm
Concentration per Run 2	0.5197 ppm	0.5037 ppm	0.5101 ppm	10.0812 ppm	0.5338 ppm	0.5082 ppm	0.4927 ppm
Concentration per Run 3	0.5189 ppm	0.5021 ppm	0.5095 ppm	10.0928 ppm	0.5261 ppm	0.5053 ppm	0.4862 ppm
Recovery Percentage 1	103.548 %	100.617 %	101.668 %	100.530 %	105.360 %	101.282 %	97.739 %
Concentration RSD	0.5 %	0.2 %	0.5 %	0.6 %	1.3 %	0.3 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4829 ppm	5.3064 ppm	0.5288 ppm	0.4975 ppm	0.5158 ppm	0.5053 ppm	0.4921 ppm
Concentration per Run 1	0.4838 ppm	5.2607 ppm	0.5261 ppm	0.4971 ppm	0.5117 ppm	0.5023 ppm	0.4913 ppm
Concentration per Run 2	0.4827 ppm	5.3290 ppm	0.5341 ppm	0.4981 ppm	0.5188 ppm	0.5066 ppm	0.4939 ppm
Concentration per Run 3	0.4823 ppm	5.3296 ppm	0.5263 ppm	0.4973 ppm	0.5169 ppm	0.5069 ppm	0.4912 ppm
Recovery Percentage 1	96.583 %	101.074 %	105.766 %	99.505 %	103.162 %	101.051 %	98.424 %
Concentration RSD	0.2 %	0.7 %	0.9 %	0.1 %	0.7 %	0.5 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5205 ppm	99.5258 %	99.7566 %	98.1283 %	98.0987 %	98.2082 %	97.5471 %
Concentration per Run 1	0.5178 ppm	99.4736 %	100.0366 %	98.3973 %	97.8248 %	98.3065 %	97.9447 %
Concentration per Run 2	0.5260 ppm	99.4090 %	99.0579 %	98.3058 %	97.9136 %	97.8423 %	97.6351 %
Concentration per Run 3	0.5178 ppm	99.6949 %	100.1751 %	97.6818 %	98.5578 %	98.4757 %	97.0616 %
Recovery Percentage 1	104.109 %						
Concentration RSD	0.9 %	0.2 %	0.6 %	0.4 %	0.4 %	0.3 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: ICB
 Analysis started at: 6/27/2025 9:51:03 AM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0057 ppm	-0.0006 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0053 ppm	-0.0016 ppm	-0.0015 ppm	0.0001 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 2	0.0002 ppm	0.0029 ppm	0.0009 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	0.0090 ppm	-0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	2.594 %	5.737 %	-12.195 %	-1.368 %	0.422 %	0.731 %	-0.372 %
Concentration RSD	23.4 %	53.6 %	217.5 %	241.1 %	72.0 %	31.3 %	271.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0007 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0003 ppm	0.0005 ppm	0.0014 ppm	0.0007 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	0.0004 ppm	0.0002 ppm	0.0008 ppm	0.0028 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0008 ppm	-0.0042 ppm	0.0006 ppm
Recovery Percentage 1	1.021 %	-0.225 %	3.418 %	1.233 %	1.394 %	0.001 %	7.639 %
Concentration RSD	114.0 %	813.5 %	60.2 %	164.7 %	27.8 %	24,481.7 %	117.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0004 ppm	0.0002 ppm	0.0027 ppm	0.0013 ppm	0.0009 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 1	0.0005 ppm	0.0001 ppm	0.0030 ppm	0.0009 ppm	0.0007 ppm	0.0006 ppm	0.0019 ppm
Concentration per Run 2	0.0018 ppm	0.0003 ppm	0.0028 ppm	0.0010 ppm	0.0009 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 3	-0.0011 ppm	0.0003 ppm	0.0023 ppm	0.0020 ppm	0.0011 ppm	0.0001 ppm	0.0002 ppm
Recovery Percentage 1	0.407 %	2.369 %	5.413 %	0.063 %	3.613 %	1.656 %	1.401 %
Concentration RSD	351.1 %	57.1 %	13.7 %	48.3 %	24.9 %	262.0 %	143.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0007 ppm	0.0015 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0019 ppm	0.0005 ppm	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0021 ppm	0.0019 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0003 ppm	0.0008 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm
Recovery Percentage 1	7.018 %	0.306 %	0.302 %	0.099 %	3.915 %	1.124 %	0.002 %
Concentration RSD	181.1 %	40.5 %	232.5 %	225.5 %	53.5 %	37.7 %	12,899.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0006 ppm	99.9223 %	99.8709 %	98.6252 %	100.1904 %	99.7802 %	99.2933 %
Concentration per Run 1	-0.0006 ppm	100.0391 %	99.5857 %	99.0748 %	100.0421 %	99.5595 %	99.8315 %
Concentration per Run 2	-0.0009 ppm	99.8400 %	100.4317 %	98.3062 %	100.5298 %	100.1374 %	98.9566 %
Concentration per Run 3	-0.0004 ppm	99.8878 %	99.5954 %	98.4944 %	99.9994 %	99.6437 %	99.0918 %
Recovery Percentage 1	-12.783 %						
Concentration RSD	38.9 %	0.1 %	0.5 %	0.4 %	0.3 %	0.3 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: LLOQ
Analysis started at: 6/27/2025 9:54:16 AM
Rack: 0
Vial: 5
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0054 ppm	0.0990 ppm	0.0041 ppm	0.0291 ppm	0.0100 ppm	0.0050 ppm	0.1008 ppm
Concentration per Run 1	0.0052 ppm	0.1015 ppm	0.0043 ppm	0.0297 ppm	0.0099 ppm	0.0050 ppm	0.1002 ppm
Concentration per Run 2	0.0053 ppm	0.0978 ppm	0.0033 ppm	0.0292 ppm	0.0101 ppm	0.0051 ppm	0.1019 ppm
Concentration per Run 3	0.0056 ppm	0.0976 ppm	0.0045 ppm	0.0283 ppm	0.0099 ppm	0.0049 ppm	0.1003 ppm
Recovery Percentage 1	107.552 %	98.965 %	81.205 %	96.936 %	99.662 %	99.757 %	100.806 %
Concentration RSD	4.2 %	2.2 %	16.0 %	2.5 %	0.9 %	1.2 %	1.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0038 ppm	0.0099 ppm	0.0105 ppm	0.0098 ppm	0.0526 ppm	2.5047 ppm	0.0122 ppm
Concentration per Run 1	0.0038 ppm	0.0095 ppm	0.0106 ppm	0.0099 ppm	0.0514 ppm	2.5184 ppm	0.0124 ppm
Concentration per Run 2	0.0038 ppm	0.0103 ppm	0.0107 ppm	0.0097 ppm	0.0536 ppm	2.5098 ppm	0.0125 ppm
Concentration per Run 3	0.0037 ppm	0.0097 ppm	0.0103 ppm	0.0098 ppm	0.0528 ppm	2.4858 ppm	0.0116 ppm
Recovery Percentage 1	94.637 %	98.641 %	105.076 %	98.118 %	105.202 %	100.187 %	121.785 %
Concentration RSD	1.7 %	4.0 %	1.8 %	0.9 %	2.1 %	0.7 %	4.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.1052 ppm	0.0099 ppm	0.0505 ppm	1.9935 ppm	0.0210 ppm	0.0098 ppm	0.0496 ppm
Concentration per Run 1	0.1052 ppm	0.0100 ppm	0.0507 ppm	2.0009 ppm	0.0203 ppm	0.0097 ppm	0.0529 ppm
Concentration per Run 2	0.1054 ppm	0.0100 ppm	0.0505 ppm	2.0113 ppm	0.0215 ppm	0.0096 ppm	0.0475 ppm
Concentration per Run 3	0.1051 ppm	0.0098 ppm	0.0503 ppm	1.9682 ppm	0.0211 ppm	0.0099 ppm	0.0484 ppm
Recovery Percentage 1	105.226 %	98.988 %	101.038 %	99.673 %	104.782 %	97.512 %	99.240 %
Concentration RSD	0.2 %	1.1 %	0.4 %	1.1 %	2.9 %	1.3 %	5.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0098 ppm	0.4946 ppm	0.0517 ppm	0.0099 ppm	0.0102 ppm	0.0194 ppm	0.0093 ppm
Concentration per Run 1	0.0109 ppm	0.4964 ppm	0.0517 ppm	0.0098 ppm	0.0100 ppm	0.0193 ppm	0.0092 ppm
Concentration per Run 2	0.0101 ppm	0.4952 ppm	0.0523 ppm	0.0100 ppm	0.0103 ppm	0.0192 ppm	0.0092 ppm
Concentration per Run 3	0.0085 ppm	0.4920 ppm	0.0510 ppm	0.0098 ppm	0.0102 ppm	0.0196 ppm	0.0093 ppm
Recovery Percentage 1	98.432 %	98.912 %	103.327 %	98.786 %	101.637 %	96.789 %	92.609 %
Concentration RSD	12.5 %	0.5 %	1.2 %	0.8 %	1.4 %	1.0 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0044 ppm	101.3600 %	100.8937 %	100.1975 %	99.7472 %	99.6713 %	99.0583 %
Concentration per Run 1	0.0044 ppm	101.3297 %	101.5314 %	100.5694 %	99.7261 %	100.2486 %	99.3747 %
Concentration per Run 2	0.0045 ppm	100.9892 %	99.9898 %	99.9999 %	99.8750 %	99.5085 %	98.8683 %
Concentration per Run 3	0.0043 ppm	101.7610 %	101.1598 %	100.0233 %	99.6406 %	99.2569 %	98.9319 %
Recovery Percentage 1	87.818 %						
Concentration RSD	2.5 %	0.4 %	0.8 %	0.3 %	0.1 %	0.5 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: ICSA
Analysis started at: 6/27/2025 9:57:29 AM
Rack: 0
Vial: 6
Comment: LDR +/-10%

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0010 ppm	500.8151 [SIC 500]	-0.0040 ppm	-0.0112 ppm	0.0020 ppm	0.0001 ppm	458.9380 ppm
Concentration per Run 1	0.0010 ppm	500.2522 ppm	-0.0035 ppm	-0.0119 ppm	0.0021 ppm	0.0000 ppm	456.8567 ppm
Concentration per Run 2	0.0010 ppm	499.7471 ppm	-0.0044 ppm	-0.0131 ppm	0.0021 ppm	0.0001 ppm	456.1511 ppm
Concentration per Run 3	0.0011 ppm	502.4459 ppm	-0.0041 ppm	-0.0085 ppm	0.0019 ppm	0.0001 ppm	463.8063 ppm
Recovery Percentage 1	14.441 %		-80.129 %	-37.232 %	20.132 %	1.509 %	
Concentration RSD	5.7 %	0.3 %	12.2 %	21.2 %	5.0 %	33.4 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0035 ppm	180.3647 ppm	0.0019 ppm	-0.0018 ppm
Concentration per Run 1	-0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0032 ppm	179.1981 ppm	0.0093 ppm	-0.0019 ppm
Concentration per Run 2	-0.0003 ppm	0.0003 ppm	0.0001 ppm	0.0044 ppm	180.3234 ppm	-0.0033 ppm	-0.0022 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0009 ppm	0.0030 ppm	181.5725 ppm	-0.0002 ppm	-0.0013 ppm
Recovery Percentage 1	-6.070 %	0.556 %	4.057 %	35.205 %		0.077 %	-36.437 %
Concentration RSD	41.8 %	136.7 %	113.3 %	20.7 %	0.7 %	343.1 %	24.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	452.9261 ppm	0.0004 ppm	0.0008 ppm	0.0147 ppm	0.0005 ppm	0.0029 ppm	-0.0146 ppm
Concentration per Run 1	454.2355 ppm	0.0002 ppm	0.0008 ppm	0.0152 ppm	0.0010 ppm	0.0040 ppm	-0.0129 ppm
Concentration per Run 2	451.5507 ppm	0.0005 ppm	0.0008 ppm	0.0169 ppm	0.0004 ppm	0.0027 ppm	-0.0184 ppm
Concentration per Run 3	452.9922 ppm	0.0004 ppm	0.0007 ppm	0.0119 ppm	0.0000 ppm	0.0020 ppm	-0.0125 ppm
Recovery Percentage 1		4.006 %	1.508 %	0.734 %	1.841 %	29.038 %	-29.211 %
Concentration RSD	0.3 %	35.2 %	11.2 %	17.3 %	112.4 %	36.0 %	22.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0034 ppm	0.0015 ppm	0.0005 ppm	0.0061 ppm	0.0000 ppm	0.0026 ppm	-0.0056 ppm
Concentration per Run 1	0.0040 ppm	0.0034 ppm	0.0015 ppm	0.0062 ppm	-0.0001 ppm	0.0022 ppm	-0.0052 ppm
Concentration per Run 2	0.0016 ppm	-0.0009 ppm	0.0014 ppm	0.0061 ppm	0.0002 ppm	0.0034 ppm	-0.0062 ppm
Concentration per Run 3	0.0045 ppm	0.0022 ppm	-0.0014 ppm	0.0061 ppm	0.0000 ppm	0.0023 ppm	-0.0053 ppm
Recovery Percentage 1	33.622 %	0.310 %	0.971 %	61.136 %	0.195 %	13.095 %	-55.863 %
Concentration RSD	46.5 %	144.1 %	331.0 %	0.9 %	767.4 %	25.1 %	10.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0073 ppm	83.9792 %	87.1136 %	70.0711 %	76.4028 %	86.6267 %	79.7795 %
Concentration per Run 1	-0.0071 ppm	84.4857 %	87.1499 %	70.1822 %	76.8145 %	86.5043 %	80.1083 %
Concentration per Run 2	-0.0075 ppm	84.1272 %	87.6805 %	69.8353 %	75.4200 %	86.8224 %	79.5221 %
Concentration per Run 3	-0.0072 ppm	83.3247 %	86.5104 %	70.1959 %	76.9738 %	86.5533 %	79.7081 %
Recovery Percentage 1	-145.485 %						
Concentration RSD	3.3 %	0.7 %	0.7 %	0.3 %	1.1 %	0.2 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: SIC Multi
Analysis started at: 6/27/2025 10:02:44 AM
Rack: 0
Vial: 7
Comment: LDR +/-10%

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0010 ppm	0.0289 ppm	-0.0024 ppm	0.0011 ppm	0.0001 ppm	-0.0019 ppm	0.0024 ppm
Concentration per Run 1	-0.0009 ppm	0.0265 ppm	-0.0015 ppm	0.0013 ppm	0.0002 ppm	-0.0018 ppm	0.0018 ppm
Concentration per Run 2	-0.0012 ppm	0.0280 ppm	-0.0035 ppm	0.0009 ppm	0.0001 ppm	-0.0020 ppm	0.0021 ppm
Concentration per Run 3	-0.0009 ppm	0.0323 ppm	-0.0022 ppm	0.0012 ppm	0.0001 ppm	-0.0019 ppm	0.0033 ppm
Recovery Percentage 1	-14.181 %	28.928 %	-48.135 %	3.736 %	1.377 %	-47.366 %	2.421 %
Concentration RSD	18.9 %	10.4 %	42.1 %	14.8 %	15.9 %	6.3 %	33.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	-0.0061 ppm	20.5143 ppm	-0.0021 ppm	0.0136 ppm	0.0069 ppm	0.0007 ppm
Concentration per Run 1	-0.0001 ppm	-0.0071 ppm	20.5679 ppm	-0.0021 ppm	0.0132 ppm	0.0049 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	-0.0056 ppm	20.5440 ppm	-0.0018 ppm	0.0132 ppm	-0.0035 ppm	0.0004 ppm
Concentration per Run 3	-0.0002 ppm	-0.0058 ppm	20.4309 ppm	-0.0022 ppm	0.0143 ppm	0.0192 ppm	0.0012 ppm
Recovery Percentage 1	-2.875 %	-30.691 %	205,142.658 %	-20.575 %	27.105 %	0.275 %	14.747 %
Concentration RSD	8.0 %	13.7 %	0.4 %	10.5 %	4.5 %	166.7 %	59.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0034 ppm	19.8465 ppm	-0.0011 ppm	0.0080 ppm	0.0003 ppm	-0.0014 ppm	-0.0175 ppm
Concentration per Run 1	0.0057 ppm	19.8403 ppm	-0.0012 ppm	0.0066 ppm	0.0005 ppm	-0.0016 ppm	-0.0185 ppm
Concentration per Run 2	0.0022 ppm	19.7746 ppm	-0.0012 ppm	0.0084 ppm	0.0007 ppm	-0.0018 ppm	-0.0145 ppm
Concentration per Run 3	0.0023 ppm	19.9247 ppm	-0.0009 ppm	0.0089 ppm	-0.0004 ppm	-0.0010 ppm	-0.0195 ppm
Recovery Percentage 1	3.385 %	198,465.151 %	-2.241 %	0.399 %	1.118 %	-14.483 %	-34.984 %
Concentration RSD	58.1 %	0.4 %	17.8 %	15.1 %	202.2 %	28.6 %	15.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0068 ppm	-0.0680 ppm	0.0075 ppm	0.0000 ppm	20.0261 ppm	-0.0040 ppm	9.6421 ppm
Concentration per Run 1	-0.0063 ppm	-0.1112 ppm	0.0074 ppm	0.0000 ppm	20.1044 ppm	-0.0031 ppm	9.6035 ppm
Concentration per Run 2	-0.0082 ppm	-0.0549 ppm	0.0079 ppm	0.0001 ppm	20.0014 ppm	-0.0047 ppm	9.6654 ppm
Concentration per Run 3	-0.0059 ppm	-0.0380 ppm	0.0072 ppm	0.0000 ppm	19.9726 ppm	-0.0041 ppm	9.6575 ppm
Recovery Percentage 1	-67.876 %	-13.608 %	14.996 %	0.307 %	200,261.475 %	-19.899 %	96,421.437 %
Concentration RSD	17.7 %	56.3 %	5.3 %	115.1 %	0.3 %	19.9 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0016 ppm	99.9470 %	100.2523 %	96.2850 %	98.3735 %	98.6761 %	98.0256 %
Concentration per Run 1	-0.0017 ppm	100.1873 %	100.5046 %	96.2554 %	98.8401 %	98.8971 %	97.8232 %
Concentration per Run 2	-0.0017 ppm	99.7361 %	100.5378 %	96.2706 %	98.1242 %	98.9008 %	98.2366 %
Concentration per Run 3	-0.0014 ppm	99.9176 %	99.7145 %	96.3289 %	98.1562 %	98.2303 %	98.0170 %
Recovery Percentage 1	-31.323 %						
Concentration RSD	11.0 %	0.2 %	0.5 %	0.0 %	0.4 %	0.4 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: LDR Check
Analysis started at: 6/27/2025 10:06:59 AM
Rack: 0
Vial: 8
Comment: LDR +/-10%

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0011 ppm	0.0463 ppm	6.0003 ppm	5.2057 [SIC 50]	9.8541 ppm	0.0020 ppm	0.0247 ppm
Concentration per Run 1	0.0012 ppm	0.0474 ppm	5.9820 ppm	5.1598 ppm	9.8947 ppm	0.0020 ppm	0.0235 ppm
Concentration per Run 2	0.0007 ppm	0.0512 ppm	6.0204 ppm	5.2288 ppm	9.8456 ppm	0.0020 ppm	0.0251 ppm
Concentration per Run 3	0.0014 ppm	0.0402 ppm	5.9986 ppm	5.2284 ppm	9.8220 ppm	0.0019 ppm	0.0255 ppm
Recovery Percentage 1			120.006 %	104.114 %	98.541 %		
Concentration RSD	30.6 %	12.1 %	0.3 %	0.8 %	0.4 %	1.1 %	4.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0018 ppm	0.0063 ppm	0.0015 ppm	19.4122 ppm	0.0064 ppm	305.0228 ppm	4.9704 ppm
Concentration per Run 1	0.0018 ppm	0.0060 ppm	0.0019 ppm	19.4001 ppm	0.0069 ppm	305.1988 ppm	4.9878 ppm
Concentration per Run 2	0.0016 ppm	0.0063 ppm	0.0012 ppm	19.3945 ppm	0.0066 ppm	305.5842 ppm	4.9795 ppm
Concentration per Run 3	0.0018 ppm	0.0067 ppm	0.0013 ppm	19.4421 ppm	0.0058 ppm	304.2853 ppm	4.9438 ppm
Recovery Percentage 1		0.000 %		97.061 %		101.674 %	
Concentration RSD	5.9 %	5.1 %	24.7 %	0.1 %	8.5 %	0.2 %	0.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0040 ppm	0.0013 ppm	5.2983 [SIC 20]	455.9231 ppm	10.4775 [SIC 20]	52.8453 ppm	0.0079 ppm
Concentration per Run 1	0.0043 ppm	0.0014 ppm	5.2729 ppm	457.2929 ppm	10.4241 ppm	52.7166 ppm	0.0072 ppm
Concentration per Run 2	0.0050 ppm	0.0013 ppm	5.2844 ppm	457.9133 ppm	10.5499 ppm	53.2300 ppm	0.0066 ppm
Concentration per Run 3	0.0026 ppm	0.0011 ppm	5.3375 ppm	452.5630 ppm	10.4587 ppm	52.5895 ppm	0.0098 ppm
Recovery Percentage 1		0.000 %	105.965 %	91.185 %	104.775 %	105.691 %	0.000 %
Concentration RSD	31.1 %	11.5 %	0.7 %	0.6 %	0.6 %	0.6 %	21.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0010 ppm	21.2774 [SIC 200]	0.0025 ppm	0.0022 ppm	0.0113 ppm	-0.0294 ppm	0.0005 ppm
Concentration per Run 1	0.0021 ppm	21.2461 ppm	0.0028 ppm	0.0022 ppm	0.0123 ppm	-0.0298 ppm	0.0007 ppm
Concentration per Run 2	0.0013 ppm	21.2553 ppm	0.0026 ppm	0.0022 ppm	0.0112 ppm	-0.0298 ppm	0.0007 ppm
Concentration per Run 3	-0.0005 ppm	21.3308 ppm	0.0022 ppm	0.0022 ppm	0.0103 ppm	-0.0285 ppm	0.0001 ppm
Recovery Percentage 1		106.387 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	139.3 %	0.2 %	11.6 %	0.6 %	8.6 %	2.4 %	65.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	21.1243 [SIC 50]	87.2473 %	95.2772 %	78.9516 %	84.7669 %	93.4079 %	81.4069 %
Concentration per Run 1	20.9461 ppm	88.2773 %	94.1086 %	78.9991 %	85.6759 %	92.3277 %	81.3466 %
Concentration per Run 2	21.2185 ppm	86.9919 %	95.8409 %	78.6100 %	84.7469 %	94.4332 %	81.3446 %
Concentration per Run 3	21.2083 ppm	86.4727 %	95.8820 %	79.2456 %	83.8780 %	93.4629 %	81.5295 %
Recovery Percentage 1	105.622 %						
Concentration RSD	0.7 %	1.1 %	1.1 %	0.4 %	1.1 %	1.1 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 10:20:59 AM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5369 ppm	0.4904 ppm	0.4769 ppm	0.5025 ppm	0.5003 ppm	0.5064 ppm	0.5081 ppm
Concentration per Run 1	0.5380 ppm	0.4897 ppm	0.4784 ppm	0.5004 ppm	0.5017 ppm	0.5066 ppm	0.5095 ppm
Concentration per Run 2	0.5385 ppm	0.4925 ppm	0.4749 ppm	0.4996 ppm	0.4996 ppm	0.5065 ppm	0.5048 ppm
Concentration per Run 3	0.5342 ppm	0.4891 ppm	0.4774 ppm	0.5075 ppm	0.4997 ppm	0.5061 ppm	0.5099 ppm
Recovery Percentage 1	107.383 %	98.087 %	95.378 %	100.503 %	100.065 %	101.282 %	101.616 %
Concentration RSD	0.4 %	0.4 %	0.4 %	0.9 %	0.2 %	0.1 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4781 ppm	0.5049 ppm	0.5213 ppm	0.5074 ppm	0.5076 ppm	5.1938 ppm	0.5217 ppm
Concentration per Run 1	0.4768 ppm	0.5035 ppm	0.5224 ppm	0.5066 ppm	0.5052 ppm	5.1930 ppm	0.5227 ppm
Concentration per Run 2	0.4780 ppm	0.5059 ppm	0.5195 ppm	0.5112 ppm	0.5072 ppm	5.1797 ppm	0.5186 ppm
Concentration per Run 3	0.4795 ppm	0.5053 ppm	0.5219 ppm	0.5043 ppm	0.5105 ppm	5.2087 ppm	0.5238 ppm
Recovery Percentage 1	95.616 %	100.985 %	104.259 %	101.471 %	101.527 %	103.876 %	104.338 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.7 %	0.5 %	0.3 %	0.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5204 ppm	0.5056 ppm	0.5112 ppm	10.3105 ppm	0.5267 ppm	0.5107 ppm	0.5005 ppm
Concentration per Run 1	0.5188 ppm	0.5033 ppm	0.5098 ppm	10.2701 ppm	0.5286 ppm	0.5112 ppm	0.5002 ppm
Concentration per Run 2	0.5225 ppm	0.5062 ppm	0.5108 ppm	10.2401 ppm	0.5244 ppm	0.5107 ppm	0.5020 ppm
Concentration per Run 3	0.5200 ppm	0.5074 ppm	0.5132 ppm	10.4214 ppm	0.5270 ppm	0.5102 ppm	0.4992 ppm
Recovery Percentage 1	104.089 %	101.124 %	102.250 %	103.105 %	105.334 %	102.133 %	100.094 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.9 %	0.4 %	0.1 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4881 ppm	5.4470 ppm	0.5152 ppm	0.5076 ppm	0.5176 ppm	0.5150 ppm	0.4966 ppm
Concentration per Run 1	0.4887 ppm	5.4490 ppm	0.5122 ppm	0.5092 ppm	0.5175 ppm	0.5146 ppm	0.4953 ppm
Concentration per Run 2	0.4883 ppm	5.4596 ppm	0.5143 ppm	0.5078 ppm	0.5178 ppm	0.5159 ppm	0.4990 ppm
Concentration per Run 3	0.4873 ppm	5.4325 ppm	0.5192 ppm	0.5059 ppm	0.5176 ppm	0.5146 ppm	0.4956 ppm
Recovery Percentage 1	97.616 %	103.753 %	103.045 %	101.528 %	103.529 %	103.003 %	99.322 %
Concentration RSD	0.1 %	0.3 %	0.7 %	0.3 %	0.0 %	0.1 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5135 ppm	99.4918 %	98.7750 %	97.3380 %	97.4673 %	97.5833 %	96.2087 %
Concentration per Run 1	0.5118 ppm	99.6961 %	98.0517 %	97.5847 %	97.9914 %	96.9110 %	96.6473 %
Concentration per Run 2	0.5102 ppm	99.9945 %	98.8686 %	97.3564 %	97.4931 %	97.2918 %	96.0280 %
Concentration per Run 3	0.5184 ppm	98.7848 %	99.4048 %	97.0731 %	96.9175 %	98.5470 %	95.9506 %
Recovery Percentage 1	102.696 %						
Concentration RSD	0.8 %	0.6 %	0.7 %	0.3 %	0.6 %	0.9 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 10:24:22 AM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0030 ppm	0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0002 ppm	0.0042 ppm	-0.0004 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0030 ppm	0.0005 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0004 ppm	0.0019 ppm	0.0001 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm
Recovery Percentage 1	3.250 %	3.037 %	1.280 %	-1.707 %	0.575 %	0.631 %	0.003 %
Concentration RSD	75.3 %	38.5 %	648.1 %	158.1 %	61.0 %	50.5 %	26,323.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0003 ppm	0.0004 ppm	0.0041 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0010 ppm	0.0123 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0004 ppm	0.0012 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	0.0006 ppm	0.0002 ppm	-0.0001 ppm	-0.0011 ppm	0.0004 ppm
Recovery Percentage 1	1.695 %	1.388 %	3.721 %	3.017 %	0.852 %	0.165 %	11.771 %
Concentration RSD	37.3 %	113.4 %	93.6 %	33.7 %	121.5 %	173.1 %	79.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0004 ppm	0.0002 ppm	0.0028 ppm	0.0039 ppm	0.0002 ppm	0.0002 ppm	0.0011 ppm
Concentration per Run 1	0.0016 ppm	0.0003 ppm	0.0030 ppm	0.0056 ppm	0.0000 ppm	0.0004 ppm	0.0017 ppm
Concentration per Run 2	0.0007 ppm	0.0000 ppm	0.0028 ppm	0.0045 ppm	-0.0002 ppm	0.0006 ppm	0.0010 ppm
Concentration per Run 3	-0.0011 ppm	0.0003 ppm	0.0026 ppm	0.0015 ppm	0.0010 ppm	-0.0003 ppm	0.0006 ppm
Recovery Percentage 1	0.424 %	2.099 %	5.629 %	0.194 %	0.947 %	2.164 %	2.247 %
Concentration RSD	322.2 %	78.9 %	6.9 %	55.2 %	268.6 %	217.3 %	50.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0005 ppm	0.0029 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0003 ppm	0.0027 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 2	-0.0013 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 3	-0.0005 ppm	0.0040 ppm	-0.0012 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0002 ppm
Recovery Percentage 1	-5.027 %	0.579 %	-0.861 %	0.087 %	2.870 %	0.050 %	1.449 %
Concentration RSD	152.3 %	34.9 %	154.3 %	89.9 %	22.8 %	3,040.0 %	56.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0006 ppm	98.0069 %	99.2114 %	97.4506 %	98.3816 %	99.2346 %	98.1129 %
Concentration per Run 1	-0.0006 ppm	97.5152 %	100.2261 %	98.2775 %	98.1653 %	99.6801 %	98.9516 %
Concentration per Run 2	-0.0005 ppm	97.9027 %	97.5000 %	96.7099 %	97.6795 %	97.6683 %	97.3459 %
Concentration per Run 3	-0.0006 ppm	98.6028 %	99.9080 %	97.3645 %	99.3000 %	100.3553 %	98.0412 %
Recovery Percentage 1	-11.736 %						
Concentration RSD	6.4 %	0.6 %	1.5 %	0.8 %	0.8 %	1.4 %	0.8 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: LDR As 5
 Analysis started at: 6/27/2025 10:28:03 AM
 Rack: 1
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0005 ppm	0.0041 ppm	4.7971 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 1	0.0004 ppm	0.0080 ppm	4.7789 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0005 ppm	0.0057 ppm	4.7990 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	0.0008 ppm	-0.0012 ppm	4.8133 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0024 ppm
Concentration RSD	33.1 %	115.9 %	0.4 %	286.7 %	1,172.4 %	119.6 %	85.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0014 ppm	0.0023 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0008 ppm	0.0061 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0015 ppm	0.0059 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0018 ppm	-0.0050 ppm	0.0002 ppm
Concentration RSD	227.5 %	241.4 %	16.2 %	93.8 %	37.3 %	272.3 %	119.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0012 ppm	0.0002 ppm	0.0010 ppm	0.0067 ppm	0.0007 ppm	0.0004 ppm	0.0065 ppm
Concentration per Run 1	0.0012 ppm	0.0003 ppm	0.0011 ppm	0.0063 ppm	0.0006 ppm	0.0001 ppm	0.0062 ppm
Concentration per Run 2	0.0014 ppm	0.0001 ppm	0.0008 ppm	0.0057 ppm	0.0007 ppm	0.0007 ppm	0.0061 ppm
Concentration per Run 3	0.0010 ppm	0.0001 ppm	0.0010 ppm	0.0081 ppm	0.0007 ppm	0.0004 ppm	0.0070 ppm
Concentration RSD	16.9 %	59.0 %	15.1 %	19.2 %	12.0 %	74.3 %	7.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0004 ppm	-0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0006 ppm	-0.0010 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 2	-0.0007 ppm	-0.0029 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0006 ppm	-0.0006 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm
Concentration RSD	111.4 %	96.2 %	297.8 %	61.0 %	48.4 %	52.1 %	60.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0007 ppm	100.5818 %	100.9825 %	101.0775 %	99.1746 %	99.7678 %	99.5280 %
Concentration per Run 1	-0.0008 ppm	100.0197 %	100.4195 %	100.4245 %	99.5508 %	99.3430 %	98.6790 %
Concentration per Run 2	-0.0007 ppm	100.4844 %	100.5918 %	101.9451 %	99.1647 %	99.2958 %	100.2217 %
Concentration per Run 3	-0.0007 ppm	101.2413 %	101.9363 %	100.8627 %	98.8083 %	100.6646 %	99.6832 %
Concentration RSD	6.6 %	0.6 %	0.8 %	0.8 %	0.4 %	0.8 %	0.8 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536019-01d2 WG2082496
 Analysis started at: 6/27/2025 10:31:14 AM
 Rack: 1
 Vial: 1
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0018 ppm	49.9040 ppm	0.2422 ppm	0.1449 ppm	0.5613 ppm	0.0025 ppm	101.3691 ppm
Concentration per Run 1	0.0015 ppm	49.7261 ppm	0.2426 ppm	0.1435 ppm	0.5594 ppm	0.0025 ppm	101.2931 ppm
Concentration per Run 2	0.0022 ppm	49.9023 ppm	0.2425 ppm	0.1451 ppm	0.5630 ppm	0.0025 ppm	100.9652 ppm
Concentration per Run 3	0.0019 ppm	50.0836 ppm	0.2416 ppm	0.1462 ppm	0.5616 ppm	0.0025 ppm	101.8489 ppm
Concentration RSD	18.3 %	0.4 %	0.2 %	1.0 %	0.3 %	0.4 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0133 ppm	0.0731 ppm	0.4195 ppm	0.7344 ppm	281.8826 ppm	6.0075 ppm	0.1053 ppm
Concentration per Run 1	0.0134 ppm	0.0735 ppm	0.4180 ppm	0.7351 ppm	280.4302 ppm	5.9754 ppm	0.1051 ppm
Concentration per Run 2	0.0133 ppm	0.0729 ppm	0.4215 ppm	0.7334 ppm	283.7141 ppm	6.0362 ppm	0.1057 ppm
Concentration per Run 3	0.0131 ppm	0.0730 ppm	0.4189 ppm	0.7348 ppm	281.5034 ppm	6.0108 ppm	0.1051 ppm
Concentration RSD	1.2 %	0.4 %	0.4 %	0.1 %	0.6 %	0.5 %	0.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	23.6732 ppm	2.3436 ppm	0.0411 ppm	4.8986 ppm	0.3396 ppm	1.2781 ppm	0.0079 ppm
Concentration per Run 1	23.7216 ppm	2.3528 ppm	0.0404 ppm	4.8801 ppm	0.3401 ppm	1.2795 ppm	0.0060 ppm
Concentration per Run 2	23.6685 ppm	2.3345 ppm	0.0415 ppm	4.8762 ppm	0.3403 ppm	1.2712 ppm	0.0090 ppm
Concentration per Run 3	23.6296 ppm	2.3436 ppm	0.0414 ppm	4.9394 ppm	0.3382 ppm	1.2837 ppm	0.0088 ppm
Concentration RSD	0.2 %	0.4 %	1.4 %	0.7 %	0.3 %	0.5 %	20.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0037 ppm	6.6295 ppm	0.0918 ppm	0.4071 ppm	2.2930 ppm	0.0000 ppm	0.2560 ppm
Concentration per Run 1	0.0019 ppm	6.6263 ppm	0.0920 ppm	0.4063 ppm	2.2882 ppm	-0.0005 ppm	0.2566 ppm
Concentration per Run 2	0.0045 ppm	6.6356 ppm	0.0913 ppm	0.4079 ppm	2.2984 ppm	0.0005 ppm	0.2557 ppm
Concentration per Run 3	0.0046 ppm	6.6267 ppm	0.0921 ppm	0.4070 ppm	2.2924 ppm	0.0000 ppm	0.2556 ppm
Concentration RSD	41.8 %	0.1 %	0.5 %	0.2 %	0.2 %	3,024.6 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	9.2698 ppm	95.7931 %	98.8614 %	85.0705 %	104.9997 %	109.2733 %	103.3118 %
Concentration per Run 1	9.2751 ppm	96.0609 %	99.2605 %	85.6536 %	105.2920 %	109.4811 %	104.0436 %
Concentration per Run 2	9.2968 ppm	95.5744 %	99.1254 %	85.1893 %	104.8695 %	109.3085 %	103.2975 %
Concentration per Run 3	9.2376 ppm	95.7441 %	98.1984 %	84.3686 %	104.8376 %	109.0301 %	102.5944 %
Concentration RSD	0.3 %	0.3 %	0.6 %	0.8 %	0.2 %	0.2 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536136-01d2 WG2082496
 Analysis started at: 6/27/2025 10:34:25 AM
 Rack: 1
 Vial: 2
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0009 ppm	102.5686 ppm	0.0394 ppm	0.0106 ppm	0.5263 ppm	0.0038 ppm	22.5424 ppm
Concentration per Run 1	-0.0010 ppm	102.1915 ppm	0.0398 ppm	0.0106 ppm	0.5258 ppm	0.0038 ppm	22.5213 ppm
Concentration per Run 2	-0.0008 ppm	102.8994 ppm	0.0397 ppm	0.0120 ppm	0.5266 ppm	0.0039 ppm	22.6237 ppm
Concentration per Run 3	-0.0010 ppm	102.6149 ppm	0.0386 ppm	0.0093 ppm	0.5264 ppm	0.0037 ppm	22.4823 ppm
Concentration RSD	13.9 %	0.3 %	1.8 %	12.8 %	0.1 %	2.1 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0023 ppm	0.0648 ppm	0.1333 ppm	0.1808 ppm	127.9768 ppm	8.9616 ppm	0.1097 ppm
Concentration per Run 1	0.0024 ppm	0.0652 ppm	0.1340 ppm	0.1813 ppm	128.0498 ppm	8.8791 ppm	0.1086 ppm
Concentration per Run 2	0.0022 ppm	0.0643 ppm	0.1330 ppm	0.1801 ppm	128.0632 ppm	9.0160 ppm	0.1105 ppm
Concentration per Run 3	0.0023 ppm	0.0649 ppm	0.1329 ppm	0.1811 ppm	127.8174 ppm	8.9898 ppm	0.1099 ppm
Concentration RSD	3.9 %	0.7 %	0.5 %	0.3 %	0.1 %	0.8 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	31.2794 ppm	1.0314 ppm	0.0148 ppm	1.0885 ppm	0.0973 ppm	0.5582 ppm	-0.0016 ppm
Concentration per Run 1	31.3533 ppm	1.0316 ppm	0.0147 ppm	1.0809 ppm	0.0970 ppm	0.5564 ppm	-0.0023 ppm
Concentration per Run 2	31.2389 ppm	1.0319 ppm	0.0144 ppm	1.0922 ppm	0.0977 ppm	0.5592 ppm	-0.0027 ppm
Concentration per Run 3	31.2461 ppm	1.0305 ppm	0.0153 ppm	1.0925 ppm	0.0972 ppm	0.5589 ppm	0.0001 ppm
Concentration RSD	0.2 %	0.1 %	3.2 %	0.6 %	0.4 %	0.3 %	90.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0076 ppm	12.0732 ppm	0.0171 ppm	0.1147 ppm	5.8911 ppm	-0.0010 ppm	0.2015 ppm
Concentration per Run 1	0.0073 ppm	12.1019 ppm	0.0176 ppm	0.1146 ppm	5.9119 ppm	-0.0026 ppm	0.2016 ppm
Concentration per Run 2	0.0095 ppm	12.0927 ppm	0.0166 ppm	0.1151 ppm	5.8822 ppm	0.0008 ppm	0.2010 ppm
Concentration per Run 3	0.0060 ppm	12.0250 ppm	0.0170 ppm	0.1145 ppm	5.8794 ppm	-0.0012 ppm	0.2018 ppm
Concentration RSD	23.6 %	0.3 %	3.0 %	0.3 %	0.3 %	168.9 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5117 ppm	98.3574 %	101.5240 %	89.9491 %	115.0972 %	118.8498 %	114.4993 %
Concentration per Run 1	0.5147 ppm	98.3987 %	102.1074 %	90.7541 %	115.2087 %	119.4040 %	115.4272 %
Concentration per Run 2	0.5110 ppm	98.4374 %	100.5612 %	89.6847 %	115.5186 %	117.9020 %	113.8979 %
Concentration per Run 3	0.5094 ppm	98.2361 %	101.9034 %	89.4084 %	114.5642 %	119.2434 %	114.1729 %
Concentration RSD	0.5 %	0.1 %	0.8 %	0.8 %	0.4 %	0.7 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536136-02d2 WG2082496
 Analysis started at: 6/27/2025 10:37:35 AM
 Rack: 1
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0014 ppm	102.2626 ppm	0.0827 ppm	0.0501 ppm	0.8482 ppm	0.0036 ppm	320.3521 ppm
Concentration per Run 1	-0.0014 ppm	102.3730 ppm	0.0834 ppm	0.0494 ppm	0.8498 ppm	0.0036 ppm	319.6878 ppm
Concentration per Run 2	-0.0014 ppm	101.7687 ppm	0.0811 ppm	0.0487 ppm	0.8471 ppm	0.0035 ppm	320.6097 ppm
Concentration per Run 3	-0.0014 ppm	102.6461 ppm	0.0835 ppm	0.0522 ppm	0.8476 ppm	0.0036 ppm	320.7588 ppm
Concentration RSD	2.1 %	0.4 %	1.6 %	3.7 %	0.2 %	2.2 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0022 ppm	0.0640 ppm	0.1272 ppm	0.1925 ppm	148.4305 ppm	14.9906 ppm	0.1258 ppm
Concentration per Run 1	0.0023 ppm	0.0638 ppm	0.1272 ppm	0.1930 ppm	148.2486 ppm	15.0117 ppm	0.1255 ppm
Concentration per Run 2	0.0023 ppm	0.0638 ppm	0.1259 ppm	0.1923 ppm	148.6166 ppm	14.9332 ppm	0.1261 ppm
Concentration per Run 3	0.0021 ppm	0.0643 ppm	0.1285 ppm	0.1922 ppm	148.4263 ppm	15.0267 ppm	0.1258 ppm
Concentration RSD	4.8 %	0.4 %	1.0 %	0.2 %	0.1 %	0.3 %	0.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	40.5140 ppm	1.7911 ppm	0.0065 ppm	2.0185 ppm	0.1050 ppm	0.8009 ppm	-0.0015 ppm
Concentration per Run 1	40.4881 ppm	1.7920 ppm	0.0062 ppm	2.0224 ppm	0.1045 ppm	0.8036 ppm	-0.0012 ppm
Concentration per Run 2	40.3084 ppm	1.7861 ppm	0.0066 ppm	2.0047 ppm	0.1048 ppm	0.7994 ppm	-0.0017 ppm
Concentration per Run 3	40.7454 ppm	1.7951 ppm	0.0068 ppm	2.0284 ppm	0.1056 ppm	0.7996 ppm	-0.0016 ppm
Concentration RSD	0.5 %	0.3 %	5.1 %	0.6 %	0.6 %	0.3 %	19.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0039 ppm	35.7263 [SIC 200]	0.0367 ppm	0.6943 ppm	6.1540 ppm	-0.0008 ppm	0.2016 ppm
Concentration per Run 1	0.0032 ppm	35.7642 ppm	0.0367 ppm	0.6953 ppm	6.1609 ppm	-0.0007 ppm	0.2013 ppm
Concentration per Run 2	0.0045 ppm	35.3686 ppm	0.0378 ppm	0.6908 ppm	6.1157 ppm	-0.0015 ppm	0.2021 ppm
Concentration per Run 3	0.0041 ppm	36.0460 ppm	0.0356 ppm	0.6969 ppm	6.1853 ppm	-0.0002 ppm	0.2012 ppm
Concentration RSD	17.6 %	1.0 %	3.0 %	0.5 %	0.6 %	79.6 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7367 ppm	92.7284 %	97.9667 %	80.8176 %	111.4390 %	117.8614 %	110.0494 %
Concentration per Run 1	0.7351 ppm	92.7112 %	98.0297 %	80.9057 %	111.2327 %	117.6665 %	110.2036 %
Concentration per Run 2	0.7336 ppm	92.6773 %	97.6726 %	80.7422 %	111.0205 %	117.4797 %	109.9477 %
Concentration per Run 3	0.7415 ppm	92.7968 %	98.1977 %	80.8048 %	112.0638 %	118.4381 %	109.9970 %
Concentration RSD	0.6 %	0.1 %	0.3 %	0.1 %	0.5 %	0.4 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 10:40:46 AM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5338 ppm	0.4888 ppm	0.4763 ppm	0.5007 ppm	0.4993 ppm	0.5050 ppm	0.5104 ppm
Concentration per Run 1	0.5335 ppm	0.4893 ppm	0.4760 ppm	0.5042 ppm	0.4992 ppm	0.5058 ppm	0.5135 ppm
Concentration per Run 2	0.5348 ppm	0.4919 ppm	0.4769 ppm	0.4989 ppm	0.5001 ppm	0.5039 ppm	0.5114 ppm
Concentration per Run 3	0.5332 ppm	0.4852 ppm	0.4759 ppm	0.4989 ppm	0.4987 ppm	0.5052 ppm	0.5062 ppm
Recovery Percentage 1	106.760 %	97.763 %	95.254 %	100.133 %	99.864 %	100.995 %	102.071 %
Concentration RSD	0.2 %	0.7 %	0.1 %	0.6 %	0.1 %	0.2 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4834 ppm	0.5036 ppm	0.5215 ppm	0.4970 ppm	0.5153 ppm	5.1252 ppm	0.5168 ppm
Concentration per Run 1	0.4839 ppm	0.5037 ppm	0.5219 ppm	0.4969 ppm	0.5172 ppm	5.1563 ppm	0.5185 ppm
Concentration per Run 2	0.4828 ppm	0.5036 ppm	0.5220 ppm	0.4974 ppm	0.5136 ppm	5.1163 ppm	0.5143 ppm
Concentration per Run 3	0.4835 ppm	0.5036 ppm	0.5205 ppm	0.4968 ppm	0.5152 ppm	5.1030 ppm	0.5175 ppm
Recovery Percentage 1	96.675 %	100.726 %	104.298 %	99.409 %	103.069 %	102.505 %	103.354 %
Concentration RSD	0.1 %	0.0 %	0.2 %	0.1 %	0.4 %	0.5 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5224 ppm	0.5003 ppm	0.5079 ppm	10.1401 ppm	0.5244 ppm	0.5076 ppm	0.4889 ppm
Concentration per Run 1	0.5229 ppm	0.5012 ppm	0.5090 ppm	10.1225 ppm	0.5268 ppm	0.5052 ppm	0.4907 ppm
Concentration per Run 2	0.5238 ppm	0.5012 ppm	0.5073 ppm	10.1727 ppm	0.5239 ppm	0.5094 ppm	0.4862 ppm
Concentration per Run 3	0.5205 ppm	0.4985 ppm	0.5075 ppm	10.1251 ppm	0.5225 ppm	0.5083 ppm	0.4897 ppm
Recovery Percentage 1	104.484 %	100.060 %	101.587 %	101.401 %	104.878 %	101.528 %	97.774 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.3 %	0.4 %	0.4 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4858 ppm	5.4184 ppm	0.5140 ppm	0.5051 ppm	0.5215 ppm	0.5104 ppm	0.4918 ppm
Concentration per Run 1	0.4846 ppm	5.4008 ppm	0.5143 ppm	0.5055 ppm	0.5229 ppm	0.5100 ppm	0.4916 ppm
Concentration per Run 2	0.4831 ppm	5.4335 ppm	0.5153 ppm	0.5056 ppm	0.5225 ppm	0.5086 ppm	0.4924 ppm
Concentration per Run 3	0.4897 ppm	5.4208 ppm	0.5123 ppm	0.5043 ppm	0.5192 ppm	0.5126 ppm	0.4915 ppm
Recovery Percentage 1	97.157 %	103.207 %	102.794 %	101.026 %	104.306 %	102.082 %	98.360 %
Concentration RSD	0.7 %	0.3 %	0.3 %	0.1 %	0.4 %	0.4 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5165 ppm	99.7779 %	100.4678 %	97.0543 %	98.6916 %	99.1633 %	96.8540 %
Concentration per Run 1	0.5182 ppm	100.0612 %	100.3965 %	97.1860 %	99.1539 %	99.0425 %	97.1783 %
Concentration per Run 2	0.5175 ppm	99.8074 %	100.3634 %	96.8166 %	98.5150 %	99.1731 %	96.5276 %
Concentration per Run 3	0.5139 ppm	99.4652 %	100.6436 %	97.1605 %	98.4058 %	99.2741 %	96.8562 %
Recovery Percentage 1	103.304 %						
Concentration RSD	0.4 %	0.3 %	0.2 %	0.2 %	0.4 %	0.1 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 10:43:59 AM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0025 ppm	-0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	0.0003 ppm	0.0007 ppm	-0.0016 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 2	0.0004 ppm	0.0048 ppm	0.0000 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 3	0.0001 ppm	0.0020 ppm	-0.0003 ppm	0.0020 ppm	0.0000 ppm	0.0001 ppm	0.0025 ppm
Recovery Percentage 1	3.535 %	2.496 %	-12.877 %	2.464 %	0.218 %	1.107 %	1.890 %
Concentration RSD	62.4 %	84.0 %	132.9 %	176.2 %	63.1 %	32.0 %	116.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm	0.0032 ppm	0.0071 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0003 ppm	0.0029 ppm	0.0102 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0003 ppm	0.0002 ppm	0.0036 ppm	0.0121 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0002 ppm	0.0030 ppm	-0.0010 ppm	0.0000 ppm
Recovery Percentage 1	2.240 %	0.935 %	4.084 %	2.056 %	6.374 %	0.284 %	1.141 %
Concentration RSD	21.3 %	207.8 %	56.0 %	28.4 %	12.1 %	99.3 %	384.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0003 ppm	0.0003 ppm	0.0024 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	-0.0007 ppm	0.0003 ppm	0.0027 ppm	0.0012 ppm	0.0006 ppm	-0.0005 ppm	-0.0021 ppm
Concentration per Run 2	-0.0003 ppm	0.0003 ppm	0.0025 ppm	0.0022 ppm	0.0000 ppm	-0.0004 ppm	0.0010 ppm
Concentration per Run 3	0.0021 ppm	0.0002 ppm	0.0020 ppm	-0.0012 ppm	0.0002 ppm	0.0009 ppm	0.0027 ppm
Recovery Percentage 1	0.350 %	2.658 %	4.780 %	0.036 %	0.901 %	-0.038 %	1.082 %
Concentration RSD	425.7 %	21.2 %	15.0 %	243.9 %	136.2 %	20,096.3 %	446.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0000 ppm	0.0106 ppm	-0.0003 ppm	0.0000 ppm	0.0005 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 1	0.0021 ppm	0.0101 ppm	-0.0007 ppm	0.0000 ppm	0.0007 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 2	-0.0024 ppm	0.0117 ppm	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	0.0100 ppm	-0.0004 ppm	0.0000 ppm	0.0004 ppm	-0.0004 ppm	-0.0001 ppm
Recovery Percentage 1	0.119 %	2.125 %	-0.519 %	0.006 %	4.792 %	-1.022 %	-0.622 %
Concentration RSD	19,022.3 %	8.8 %	215.3 %	6,588.4 %	33.1 %	415.4 %	49.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0004 ppm	98.4133 %	99.3356 %	97.9531 %	99.4971 %	99.6815 %	98.4874 %
Concentration per Run 1	-0.0003 ppm	98.1597 %	99.2417 %	98.4895 %	99.2602 %	99.1039 %	99.0548 %
Concentration per Run 2	-0.0005 ppm	98.0978 %	100.1530 %	97.3496 %	98.8505 %	100.2772 %	97.8492 %
Concentration per Run 3	-0.0004 ppm	98.9824 %	98.6121 %	98.0204 %	100.3807 %	99.6634 %	98.5581 %
Recovery Percentage 1	-8.086 %						
Concentration RSD	16.2 %	0.5 %	0.8 %	0.6 %	0.8 %	0.6 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084202-1 WG2084202
 Analysis started at: 6/27/2025 11:01:45 AM
 Rack: 1
 Vial: 5
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0044 ppm	-0.0001 ppm	0.0023 ppm	0.0001 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 1	0.0005 ppm	-0.0007 ppm	0.0003 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 2	0.0000 ppm	0.0062 ppm	-0.0020 ppm	0.0022 ppm	0.0002 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 3	-0.0001 ppm	0.0077 ppm	0.0013 ppm	0.0028 ppm	0.0001 ppm	0.0000 ppm	0.0052 ppm
Concentration RSD	238.2 %	102.3 %	1,476.3 %	17.4 %	9.8 %	147.0 %	13.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0004 ppm	0.0015 ppm	0.0439 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0005 ppm	0.0005 ppm	0.0025 ppm	0.0509 ppm	0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0004 ppm	0.0014 ppm	0.0404 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0007 ppm	0.0403 ppm	0.0003 ppm
Concentration RSD	225.4 %	74.9 %	60.6 %	13.3 %	60.6 %	13.9 %	54.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0022 ppm	0.0001 ppm	0.0001 ppm	131.6772 ppm	0.0000 ppm	0.0005 ppm	0.0012 ppm
Concentration per Run 1	0.0011 ppm	0.0001 ppm	0.0000 ppm	131.7919 ppm	0.0006 ppm	0.0007 ppm	0.0018 ppm
Concentration per Run 2	0.0018 ppm	0.0001 ppm	0.0000 ppm	131.5458 ppm	0.0000 ppm	0.0006 ppm	-0.0005 ppm
Concentration per Run 3	0.0037 ppm	0.0002 ppm	0.0003 ppm	131.6937 ppm	-0.0005 ppm	0.0002 ppm	0.0023 ppm
Concentration RSD	60.3 %	34.2 %	132.7 %	0.1 %	1,684.4 %	48.1 %	126.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	0.0479 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 1	0.0017 ppm	0.0489 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	-0.0004 ppm	0.0483 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 3	0.0011 ppm	0.0465 ppm	-0.0006 ppm	0.0000 ppm	0.0002 ppm	-0.0016 ppm	0.0000 ppm
Concentration RSD	138.6 %	2.6 %	8,512.5 %	100.1 %	114.9 %	86.8 %	195.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	94.3809 %	96.5581 %	88.5572 %	91.9141 %	94.4588 %	91.5175 %
Concentration per Run 1	-0.0007 ppm	93.6644 %	96.3388 %	88.9918 %	91.2281 %	94.1941 %	92.0880 %
Concentration per Run 2	-0.0007 ppm	95.1184 %	96.4057 %	88.1478 %	92.6202 %	94.4052 %	91.0500 %
Concentration per Run 3	-0.0009 ppm	94.3598 %	96.9298 %	88.5321 %	91.8939 %	94.7771 %	91.4147 %
Concentration RSD	16.0 %	0.8 %	0.3 %	0.5 %	0.8 %	0.3 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084202-2 WG2084202
 Analysis started at: 6/27/2025 11:05:07 AM
 Rack: 1
 Vial: 6
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0557 ppm	2.1844 ppm	0.1122 ppm	0.9278 ppm	2.1452 ppm	0.0535 ppm	9.5938 ppm
Concentration per Run 1	0.0561 ppm	2.1945 ppm	0.1116 ppm	0.9353 ppm	2.1434 ppm	0.0535 ppm	9.5983 ppm
Concentration per Run 2	0.0559 ppm	2.1838 ppm	0.1140 ppm	0.9235 ppm	2.1547 ppm	0.0537 ppm	9.5966 ppm
Concentration per Run 3	0.0551 ppm	2.1750 ppm	0.1111 ppm	0.9245 ppm	2.1375 ppm	0.0533 ppm	9.5865 ppm
Concentration RSD	0.9 %	0.4 %	1.4 %	0.7 %	0.4 %	0.3 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0473 ppm	0.5142 ppm	0.2176 ppm	0.2618 ppm	1.0792 ppm	9.8126 ppm	0.0004 ppm
Concentration per Run 1	0.0475 ppm	0.5128 ppm	0.2195 ppm	0.2617 ppm	1.0724 ppm	9.8278 ppm	0.0004 ppm
Concentration per Run 2	0.0473 ppm	0.5153 ppm	0.2187 ppm	0.2607 ppm	1.0858 ppm	9.8433 ppm	0.0004 ppm
Concentration per Run 3	0.0470 ppm	0.5145 ppm	0.2145 ppm	0.2629 ppm	1.0792 ppm	9.7665 ppm	0.0005 ppm
Concentration RSD	0.5 %	0.3 %	1.2 %	0.4 %	0.6 %	0.4 %	18.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	9.7742 ppm	0.5287 ppm	0.9786 ppm	10.0534 ppm	0.5419 ppm	0.5153 ppm	0.4638 ppm
Concentration per Run 1	9.8208 ppm	0.5286 ppm	0.9816 ppm	10.0687 ppm	0.5477 ppm	0.5147 ppm	0.4697 ppm
Concentration per Run 2	9.7852 ppm	0.5296 ppm	0.9802 ppm	10.0508 ppm	0.5435 ppm	0.5160 ppm	0.4623 ppm
Concentration per Run 3	9.7165 ppm	0.5279 ppm	0.9741 ppm	10.0406 ppm	0.5344 ppm	0.5151 ppm	0.4594 ppm
Concentration RSD	0.5 %	0.2 %	0.4 %	0.1 %	1.3 %	0.1 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1115 ppm	1.1141 ppm	0.9730 ppm	0.9613 ppm	0.9972 ppm	0.1153 ppm	0.5317 ppm
Concentration per Run 1	0.1137 ppm	1.1202 ppm	0.9808 ppm	0.9588 ppm	1.0001 ppm	0.1159 ppm	0.5313 ppm
Concentration per Run 2	0.1106 ppm	1.1163 ppm	0.9691 ppm	0.9658 ppm	1.0008 ppm	0.1146 ppm	0.5318 ppm
Concentration per Run 3	0.1100 ppm	1.1059 ppm	0.9692 ppm	0.9594 ppm	0.9907 ppm	0.1154 ppm	0.5319 ppm
Concentration RSD	1.8 %	0.7 %	0.7 %	0.4 %	0.6 %	0.6 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5338 ppm	97.9512 %	98.6367 %	92.5928 %	96.3961 %	97.4022 %	94.1791 %
Concentration per Run 1	0.5392 ppm	97.3485 %	98.4469 %	92.7032 %	95.8097 %	97.3606 %	94.1305 %
Concentration per Run 2	0.5335 ppm	97.9189 %	98.3702 %	92.2239 %	96.6735 %	97.1423 %	94.1068 %
Concentration per Run 3	0.5288 ppm	98.5861 %	99.0930 %	92.8513 %	96.7050 %	97.7037 %	94.3000 %
Concentration RSD	1.0 %	0.6 %	0.4 %	0.4 %	0.5 %	0.3 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539013-01 WG2084202
 Analysis started at: 6/27/2025 11:08:19 AM
 Rack: 1
 Vial: 7
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0025 ppm	-0.0006 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 1	-0.0004 ppm	0.0037 ppm	-0.0004 ppm	-0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	-0.0008 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0025 ppm
Concentration per Run 3	0.0002 ppm	0.0030 ppm	-0.0008 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration RSD	228.3 %	64.5 %	38.3 %	274.1 %	88.3 %	501.9 %	96.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0016 ppm	0.0043 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	0.0001 ppm	-0.0002 ppm	0.0017 ppm	0.0071 ppm	0.0004 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0017 ppm	0.0097 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0015 ppm	-0.0039 ppm	0.0002 ppm
Concentration RSD	228.3 %	69.5 %	49.2 %	1,623.1 %	5.1 %	167.8 %	510.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0022 ppm	0.0001 ppm	0.0031 ppm	0.0063 ppm	-0.0004 ppm	-0.0003 ppm	0.0021 ppm
Concentration per Run 1	0.0025 ppm	0.0002 ppm	0.0030 ppm	0.0089 ppm	-0.0004 ppm	-0.0003 ppm	0.0007 ppm
Concentration per Run 2	0.0032 ppm	0.0001 ppm	0.0031 ppm	0.0021 ppm	-0.0005 ppm	0.0006 ppm	0.0024 ppm
Concentration per Run 3	0.0010 ppm	0.0001 ppm	0.0031 ppm	0.0078 ppm	-0.0002 ppm	-0.0011 ppm	0.0033 ppm
Concentration RSD	50.8 %	40.8 %	2.4 %	57.7 %	44.7 %	296.8 %	61.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0001 ppm	0.0108 ppm	0.0006 ppm	0.0000 ppm	0.0005 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 1	-0.0010 ppm	0.0101 ppm	0.0006 ppm	0.0000 ppm	0.0005 ppm	-0.0018 ppm	-0.0001 ppm
Concentration per Run 2	0.0002 ppm	0.0116 ppm	0.0010 ppm	0.0000 ppm	0.0006 ppm	-0.0017 ppm	-0.0001 ppm
Concentration per Run 3	0.0012 ppm	0.0106 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0011 ppm	0.0001 ppm
Concentration RSD	866.6 %	7.2 %	89.7 %	470.8 %	37.1 %	25.3 %	662.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	97.6798 %	98.1975 %	95.1925 %	98.2111 %	98.4454 %	97.6124 %
Concentration per Run 1	-0.0007 ppm	98.0187 %	98.6669 %	95.5959 %	98.9327 %	98.8571 %	97.9139 %
Concentration per Run 2	-0.0009 ppm	97.9108 %	97.2255 %	95.1326 %	98.2109 %	97.8423 %	97.4291 %
Concentration per Run 3	-0.0009 ppm	97.1100 %	98.7001 %	94.8491 %	97.4897 %	98.6369 %	97.4942 %
Concentration RSD	10.9 %	0.5 %	0.9 %	0.4 %	0.7 %	0.5 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084202-3 WG2084202
 Analysis started at: 6/27/2025 11:11:31 AM
 Rack: 1
 Vial: 8
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0549 ppm	2.1647 ppm	0.1127 ppm	0.9186 ppm	2.1266 ppm	0.0528 ppm	9.6237 ppm
Concentration per Run 1	0.0547 ppm	2.1831 ppm	0.1128 ppm	0.9196 ppm	2.1410 ppm	0.0531 ppm	9.6975 ppm
Concentration per Run 2	0.0548 ppm	2.1524 ppm	0.1118 ppm	0.9151 ppm	2.1172 ppm	0.0525 ppm	9.5797 ppm
Concentration per Run 3	0.0552 ppm	2.1586 ppm	0.1135 ppm	0.9209 ppm	2.1217 ppm	0.0527 ppm	9.5938 ppm
Concentration RSD	0.4 %	0.8 %	0.8 %	0.3 %	0.6 %	0.6 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0473 ppm	0.5117 ppm	0.2164 ppm	0.2595 ppm	1.0687 ppm	9.8003 ppm	0.0007 ppm
Concentration per Run 1	0.0472 ppm	0.5109 ppm	0.2162 ppm	0.2602 ppm	1.0743 ppm	9.8738 ppm	0.0006 ppm
Concentration per Run 2	0.0475 ppm	0.5113 ppm	0.2157 ppm	0.2598 ppm	1.0635 ppm	9.7682 ppm	0.0006 ppm
Concentration per Run 3	0.0472 ppm	0.5130 ppm	0.2173 ppm	0.2584 ppm	1.0682 ppm	9.7587 ppm	0.0008 ppm
Concentration RSD	0.4 %	0.2 %	0.4 %	0.4 %	0.5 %	0.7 %	12.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	9.7821 ppm	0.5238 ppm	0.9824 ppm	10.0423 ppm	0.5426 ppm	0.5136 ppm	0.4635 ppm
Concentration per Run 1	9.7922 ppm	0.5268 ppm	0.9792 ppm	10.0949 ppm	0.5432 ppm	0.5156 ppm	0.4665 ppm
Concentration per Run 2	9.7572 ppm	0.5222 ppm	0.9831 ppm	10.0143 ppm	0.5396 ppm	0.5109 ppm	0.4665 ppm
Concentration per Run 3	9.7968 ppm	0.5224 ppm	0.9850 ppm	10.0177 ppm	0.5449 ppm	0.5143 ppm	0.4575 ppm
Concentration RSD	0.2 %	0.5 %	0.3 %	0.5 %	0.5 %	0.5 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1090 ppm	1.1065 ppm	0.9739 ppm	0.9591 ppm	0.9968 ppm	0.1156 ppm	0.5292 ppm
Concentration per Run 1	0.1085 ppm	1.1020 ppm	0.9762 ppm	0.9641 ppm	0.9958 ppm	0.1163 ppm	0.5317 ppm
Concentration per Run 2	0.1061 ppm	1.1095 ppm	0.9673 ppm	0.9562 ppm	0.9954 ppm	0.1151 ppm	0.5297 ppm
Concentration per Run 3	0.1124 ppm	1.1081 ppm	0.9782 ppm	0.9572 ppm	0.9992 ppm	0.1154 ppm	0.5261 ppm
Concentration RSD	2.9 %	0.4 %	0.6 %	0.4 %	0.2 %	0.6 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5332 ppm	98.5107 %	99.0548 %	93.1530 %	96.5522 %	97.6476 %	94.7751 %
Concentration per Run 1	0.5317 ppm	98.7635 %	98.3389 %	93.3317 %	96.3617 %	97.4864 %	95.1435 %
Concentration per Run 2	0.5317 ppm	98.9758 %	99.4900 %	92.6835 %	96.9368 %	97.5211 %	94.0543 %
Concentration per Run 3	0.5363 ppm	97.7930 %	99.3355 %	93.4439 %	96.3580 %	97.9352 %	95.1274 %
Concentration RSD	0.5 %	0.6 %	0.6 %	0.4 %	0.3 %	0.3 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084202-4 WG2084202
 Analysis started at: 6/27/2025 11:14:43 AM
 Rack: 1
 Vial: 9
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	0.0039 ppm	-0.0004 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 1	0.0003 ppm	0.0058 ppm	-0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 2	0.0004 ppm	0.0054 ppm	0.0001 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 3	0.0004 ppm	0.0004 ppm	-0.0010 ppm	-0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0032 ppm
Concentration RSD	14.3 %	78.1 %	156.1 %	75.9 %	27.5 %	202.9 %	13.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0015 ppm	0.0096 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0017 ppm	0.0037 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0014 ppm	0.0189 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0013 ppm	0.0063 ppm	0.0007 ppm
Concentration RSD	80.1 %	180.2 %	104.1 %	63.4 %	14.3 %	84.7 %	127.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0025 ppm	0.0001 ppm	0.0037 ppm	0.0061 ppm	0.0002 ppm	-0.0003 ppm	0.0025 ppm
Concentration per Run 1	0.0031 ppm	0.0002 ppm	0.0037 ppm	0.0081 ppm	0.0006 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 2	0.0028 ppm	0.0000 ppm	0.0036 ppm	0.0057 ppm	0.0002 ppm	-0.0003 ppm	0.0017 ppm
Concentration per Run 3	0.0016 ppm	0.0001 ppm	0.0038 ppm	0.0043 ppm	-0.0001 ppm	-0.0005 ppm	0.0028 ppm
Concentration RSD	33.0 %	97.9 %	2.7 %	32.2 %	158.7 %	97.5 %	30.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0014 ppm	0.0091 ppm	0.0018 ppm	0.0000 ppm	0.0005 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 1	0.0029 ppm	0.0087 ppm	0.0016 ppm	0.0000 ppm	0.0004 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 2	-0.0004 ppm	0.0089 ppm	0.0016 ppm	0.0001 ppm	0.0007 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 3	0.0017 ppm	0.0096 ppm	0.0022 ppm	0.0000 ppm	0.0004 ppm	-0.0008 ppm	0.0002 ppm
Concentration RSD	118.0 %	5.6 %	18.3 %	258.3 %	30.1 %	19.8 %	81.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	98.9005 %	99.2086 %	94.2486 %	98.8224 %	99.8634 %	97.0303 %
Concentration per Run 1	-0.0007 ppm	99.6086 %	98.9577 %	94.0215 %	99.5083 %	99.7670 %	96.7331 %
Concentration per Run 2	-0.0008 ppm	99.1859 %	99.6137 %	93.9932 %	98.7430 %	100.3373 %	97.1966 %
Concentration per Run 3	-0.0008 ppm	97.9070 %	99.0543 %	94.7311 %	98.2158 %	99.4859 %	97.1612 %
Concentration RSD	2.3 %	0.9 %	0.4 %	0.4 %	0.7 %	0.4 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539119-01 WG2084202
 Analysis started at: 6/27/2025 11:17:55 AM
 Rack: 1
 Vial: 10
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0004 ppm	0.0142 ppm	0.0007 ppm	0.0151 ppm	0.0645 ppm	0.0000 ppm	42.3943 ppm
Concentration per Run 1	-0.0004 ppm	0.0118 ppm	0.0021 ppm	0.0138 ppm	0.0646 ppm	0.0000 ppm	42.4926 ppm
Concentration per Run 2	-0.0004 ppm	0.0174 ppm	0.0001 ppm	0.0162 ppm	0.0644 ppm	0.0000 ppm	42.6012 ppm
Concentration per Run 3	-0.0004 ppm	0.0133 ppm	0.0000 ppm	0.0153 ppm	0.0643 ppm	0.0000 ppm	42.0892 ppm
Concentration RSD	5.2 %	20.4 %	169.4 %	8.2 %	0.2 %	330.0 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0003 ppm	8.1183 ppm	0.6881 ppm	0.0028 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm	8.1260 ppm	0.6902 ppm	0.0032 ppm
Concentration per Run 2	-0.0002 ppm	-0.0004 ppm	0.0003 ppm	0.0002 ppm	8.1476 ppm	0.6852 ppm	0.0026 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	8.0813 ppm	0.6890 ppm	0.0025 ppm
Concentration RSD	18.3 %	189.1 %	127.3 %	41.0 %	0.4 %	0.4 %	15.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	1.4576 ppm	0.1964 ppm	0.0010 ppm	144.8275 ppm	0.0001 ppm	0.0001 ppm	0.0022 ppm
Concentration per Run 1	1.4549 ppm	0.1974 ppm	0.0010 ppm	145.1100 ppm	0.0003 ppm	-0.0002 ppm	0.0006 ppm
Concentration per Run 2	1.4551 ppm	0.1966 ppm	0.0008 ppm	143.8373 ppm	-0.0006 ppm	0.0006 ppm	0.0036 ppm
Concentration per Run 3	1.4627 ppm	0.1952 ppm	0.0012 ppm	145.5353 ppm	0.0006 ppm	0.0000 ppm	0.0025 ppm
Concentration RSD	0.3 %	0.6 %	18.9 %	0.6 %	630.4 %	314.7 %	67.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0010 ppm	1.3924 ppm	-0.0003 ppm	0.1367 ppm	0.0002 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 1	0.0031 ppm	1.3878 ppm	-0.0012 ppm	0.1374 ppm	0.0003 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	1.3938 ppm	0.0001 ppm	0.1361 ppm	0.0002 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 3	-0.0004 ppm	1.3955 ppm	0.0002 ppm	0.1367 ppm	0.0002 ppm	-0.0021 ppm	0.0001 ppm
Concentration RSD	194.3 %	0.3 %	258.8 %	0.5 %	23.4 %	35.4 %	862.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0004 ppm	93.9630 %	97.1379 %	86.8499 %	91.6446 %	94.8882 %	90.7327 %
Concentration per Run 1	-0.0004 ppm	94.5442 %	96.7100 %	86.9876 %	91.9220 %	94.7135 %	90.9427 %
Concentration per Run 2	-0.0005 ppm	94.2202 %	96.8158 %	86.5397 %	92.0251 %	94.8332 %	90.3354 %
Concentration per Run 3	-0.0003 ppm	93.1246 %	97.8880 %	87.0223 %	90.9867 %	95.1179 %	90.9199 %
Concentration RSD	28.0 %	0.8 %	0.7 %	0.3 %	0.6 %	0.2 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539120-01 WG2084202
 Analysis started at: 6/27/2025 11:21:08 AM
 Rack: 1
 Vial: 11
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0031 ppm	-0.0009 ppm	0.0138 ppm	0.0338 ppm	0.0000 ppm	75.9564 ppm
Concentration per Run 1	-0.0001 ppm	0.0032 ppm	-0.0016 ppm	0.0139 ppm	0.0340 ppm	0.0000 ppm	76.0750 ppm
Concentration per Run 2	-0.0002 ppm	0.0055 ppm	0.0004 ppm	0.0139 ppm	0.0338 ppm	0.0000 ppm	76.2468 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	-0.0014 ppm	0.0137 ppm	0.0337 ppm	0.0000 ppm	75.5475 ppm
Concentration RSD	343.7 %	80.6 %	130.2 %	0.9 %	0.5 %	9.7 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0011 ppm	0.0008 ppm	0.0013 ppm	0.0062 ppm	0.9363 ppm	0.0029 ppm
Concentration per Run 1	-0.0001 ppm	0.0014 ppm	0.0007 ppm	0.0013 ppm	0.0055 ppm	0.9561 ppm	0.0036 ppm
Concentration per Run 2	-0.0001 ppm	0.0009 ppm	0.0011 ppm	0.0014 ppm	0.0058 ppm	0.9313 ppm	0.0023 ppm
Concentration per Run 3	-0.0001 ppm	0.0010 ppm	0.0007 ppm	0.0011 ppm	0.0071 ppm	0.9216 ppm	0.0029 ppm
Concentration RSD	42.4 %	25.8 %	30.6 %	11.0 %	14.3 %	1.9 %	21.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	1.2865 ppm	0.0952 ppm	0.0008 ppm	131.7517 ppm	0.0023 ppm	0.0047 ppm	0.0031 ppm
Concentration per Run 1	1.2895 ppm	0.0960 ppm	0.0008 ppm	132.6943 ppm	0.0025 ppm	0.0047 ppm	0.0039 ppm
Concentration per Run 2	1.2847 ppm	0.0950 ppm	0.0010 ppm	131.1239 ppm	0.0024 ppm	0.0055 ppm	0.0026 ppm
Concentration per Run 3	1.2853 ppm	0.0947 ppm	0.0008 ppm	131.4369 ppm	0.0020 ppm	0.0040 ppm	0.0028 ppm
Concentration RSD	0.2 %	0.7 %	13.5 %	0.6 %	10.5 %	15.0 %	22.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0018 ppm	2.6930 ppm	0.0004 ppm	0.2577 ppm	0.0005 ppm	-0.0016 ppm	0.0005 ppm
Concentration per Run 1	0.0010 ppm	2.6917 ppm	0.0006 ppm	0.2574 ppm	0.0004 ppm	-0.0011 ppm	0.0005 ppm
Concentration per Run 2	0.0034 ppm	2.6898 ppm	0.0004 ppm	0.2594 ppm	0.0008 ppm	-0.0024 ppm	0.0004 ppm
Concentration per Run 3	0.0008 ppm	2.6976 ppm	0.0004 ppm	0.2562 ppm	0.0004 ppm	-0.0012 ppm	0.0005 ppm
Concentration RSD	79.9 %	0.1 %	36.4 %	0.6 %	47.5 %	48.0 %	21.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0383 ppm	93.8504 %	96.9635 %	86.4583 %	91.1364 %	95.0120 %	90.5962 %
Concentration per Run 1	0.0387 ppm	93.6900 %	96.4068 %	85.9344 %	91.3963 %	94.7943 %	90.3756 %
Concentration per Run 2	0.0381 ppm	93.9146 %	96.4015 %	87.0883 %	90.6737 %	94.6196 %	91.1581 %
Concentration per Run 3	0.0381 ppm	93.9465 %	98.0823 %	86.3521 %	91.3393 %	95.6220 %	90.2547 %
Concentration RSD	1.0 %	0.1 %	1.0 %	0.7 %	0.4 %	0.6 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539120-02 WG2084202
 Analysis started at: 6/27/2025 11:24:21 AM
 Rack: 1
 Vial: 12
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0027 ppm	0.0000 ppm	0.0115 ppm	0.0342 ppm	0.0000 ppm	73.3564 ppm
Concentration per Run 1	-0.0001 ppm	0.0025 ppm	0.0005 ppm	0.0120 ppm	0.0342 ppm	0.0000 ppm	73.2782 ppm
Concentration per Run 2	-0.0001 ppm	0.0029 ppm	-0.0015 ppm	0.0102 ppm	0.0341 ppm	0.0000 ppm	73.2470 ppm
Concentration per Run 3	0.0003 ppm	0.0027 ppm	0.0010 ppm	0.0124 ppm	0.0342 ppm	0.0000 ppm	73.5439 ppm
Concentration RSD	1,291.8 %	5.8 %	7,728.6 %	10.4 %	0.1 %	83.6 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0011 ppm	0.0002 ppm	0.0019 ppm	0.0052 ppm	1.0962 ppm	0.0030 ppm
Concentration per Run 1	0.0000 ppm	0.0011 ppm	0.0003 ppm	0.0018 ppm	0.0055 ppm	1.1000 ppm	0.0036 ppm
Concentration per Run 2	0.0001 ppm	0.0012 ppm	0.0006 ppm	0.0019 ppm	0.0039 ppm	1.1017 ppm	0.0022 ppm
Concentration per Run 3	0.0001 ppm	0.0010 ppm	-0.0002 ppm	0.0019 ppm	0.0062 ppm	1.0869 ppm	0.0031 ppm
Concentration RSD	77.1 %	6.6 %	166.5 %	1.7 %	22.6 %	0.7 %	23.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	1.3308 ppm	0.1232 ppm	0.0006 ppm	131.3573 ppm	0.0020 ppm	0.0072 ppm	0.0010 ppm
Concentration per Run 1	1.3301 ppm	0.1234 ppm	0.0009 ppm	131.2935 ppm	0.0016 ppm	0.0067 ppm	0.0008 ppm
Concentration per Run 2	1.3241 ppm	0.1227 ppm	0.0003 ppm	131.9901 ppm	0.0023 ppm	0.0073 ppm	0.0002 ppm
Concentration per Run 3	1.3382 ppm	0.1235 ppm	0.0007 ppm	130.7882 ppm	0.0020 ppm	0.0076 ppm	0.0021 ppm
Concentration RSD	0.5 %	0.3 %	53.7 %	0.5 %	18.7 %	6.7 %	91.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0020 ppm	1.5388 ppm	0.0003 ppm	0.2622 ppm	0.0003 ppm	-0.0003 ppm	0.0003 ppm
Concentration per Run 1	0.0034 ppm	1.5466 ppm	-0.0002 ppm	0.2631 ppm	0.0006 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 2	0.0002 ppm	1.5322 ppm	0.0008 ppm	0.2609 ppm	0.0003 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 3	0.0025 ppm	1.5375 ppm	0.0002 ppm	0.2627 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm
Concentration RSD	83.5 %	0.5 %	195.7 %	0.4 %	93.8 %	73.7 %	65.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0530 ppm	93.8040 %	96.7620 %	86.4147 %	91.0739 %	94.9104 %	90.4507 %
Concentration per Run 1	0.0534 ppm	93.7421 %	96.6540 %	86.7406 %	91.1120 %	94.8697 %	90.6484 %
Concentration per Run 2	0.0527 ppm	94.1239 %	97.2920 %	86.4597 %	91.3857 %	94.9724 %	90.5559 %
Concentration per Run 3	0.0530 ppm	93.5461 %	96.3401 %	86.0437 %	90.7241 %	94.8889 %	90.1477 %
Concentration RSD	0.7 %	0.3 %	0.5 %	0.4 %	0.4 %	0.1 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 11:27:34 AM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5308 ppm	0.4838 ppm	0.4706 ppm	0.4979 ppm	0.4957 ppm	0.5008 ppm	0.5000 ppm
Concentration per Run 1	0.5310 ppm	0.4834 ppm	0.4716 ppm	0.4962 ppm	0.4936 ppm	0.5007 ppm	0.5050 ppm
Concentration per Run 2	0.5325 ppm	0.4911 ppm	0.4682 ppm	0.4983 ppm	0.4956 ppm	0.4994 ppm	0.4974 ppm
Concentration per Run 3	0.5288 ppm	0.4768 ppm	0.4721 ppm	0.4992 ppm	0.4979 ppm	0.5023 ppm	0.4978 ppm
Recovery Percentage 1	106.152 %	96.755 %	94.120 %	99.588 %	99.146 %	100.159 %	100.009 %
Concentration RSD	0.3 %	1.5 %	0.5 %	0.3 %	0.4 %	0.3 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4792 ppm	0.5024 ppm	0.5204 ppm	0.4969 ppm	0.4999 ppm	5.0922 ppm	0.5155 ppm
Concentration per Run 1	0.4805 ppm	0.5042 ppm	0.5198 ppm	0.4981 ppm	0.4997 ppm	5.0700 ppm	0.5117 ppm
Concentration per Run 2	0.4794 ppm	0.5027 ppm	0.5215 ppm	0.4962 ppm	0.4981 ppm	5.0991 ppm	0.5154 ppm
Concentration per Run 3	0.4778 ppm	0.5002 ppm	0.5198 ppm	0.4963 ppm	0.5019 ppm	5.1074 ppm	0.5194 ppm
Recovery Percentage 1	95.847 %	100.472 %	104.074 %	99.374 %	99.984 %	101.843 %	103.098 %
Concentration RSD	0.3 %	0.4 %	0.2 %	0.2 %	0.4 %	0.4 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5153 ppm	0.4989 ppm	0.5053 ppm	10.2042 ppm	0.5263 ppm	0.5063 ppm	0.4913 ppm
Concentration per Run 1	0.5153 ppm	0.4995 ppm	0.5052 ppm	10.1927 ppm	0.5250 ppm	0.5065 ppm	0.4933 ppm
Concentration per Run 2	0.5175 ppm	0.4985 ppm	0.5051 ppm	10.2035 ppm	0.5261 ppm	0.5057 ppm	0.4924 ppm
Concentration per Run 3	0.5130 ppm	0.4986 ppm	0.5056 ppm	10.2164 ppm	0.5277 ppm	0.5068 ppm	0.4881 ppm
Recovery Percentage 1	103.050 %	99.780 %	101.056 %	102.042 %	105.252 %	101.262 %	98.253 %
Concentration RSD	0.4 %	0.1 %	0.1 %	0.1 %	0.3 %	0.1 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4818 ppm	5.3452 ppm	0.5142 ppm	0.5029 ppm	0.5154 ppm	0.5067 ppm	0.4925 ppm
Concentration per Run 1	0.4823 ppm	5.3450 ppm	0.5129 ppm	0.5018 ppm	0.5146 ppm	0.5072 ppm	0.4930 ppm
Concentration per Run 2	0.4817 ppm	5.3655 ppm	0.5149 ppm	0.5045 ppm	0.5172 ppm	0.5046 ppm	0.4924 ppm
Concentration per Run 3	0.4814 ppm	5.3249 ppm	0.5147 ppm	0.5023 ppm	0.5146 ppm	0.5084 ppm	0.4920 ppm
Recovery Percentage 1	96.360 %	101.813 %	102.836 %	100.573 %	103.089 %	101.347 %	98.493 %
Concentration RSD	0.1 %	0.4 %	0.2 %	0.3 %	0.3 %	0.4 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5146 ppm	100.2701 %	101.1460 %	97.9606 %	98.2896 %	99.3382 %	97.3463 %
Concentration per Run 1	0.5121 ppm	100.4239 %	101.5204 %	97.6113 %	98.3325 %	99.9468 %	96.9977 %
Concentration per Run 2	0.5165 ppm	100.4311 %	101.8704 %	98.0667 %	98.7329 %	99.9681 %	97.2803 %
Concentration per Run 3	0.5152 ppm	99.9553 %	100.0472 %	98.2038 %	97.8036 %	98.0997 %	97.7609 %
Recovery Percentage 1	102.923 %						
Concentration RSD	0.4 %	0.3 %	1.0 %	0.3 %	0.5 %	1.1 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
Analysis started at: 6/27/2025 11:30:47 AM
Rack: 0
Vial: 4
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0038 ppm	-0.0001 ppm	-0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 1	-0.0001 ppm	0.0037 ppm	0.0000 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0019 ppm	-0.0004 ppm	-0.0032 ppm	0.0000 ppm	0.0000 ppm	0.0028 ppm
Concentration per Run 3	-0.0001 ppm	0.0060 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Recovery Percentage 1	-0.072 %	3.831 %	-1.342 %	-4.376 %	0.027 %	0.536 %	1.325 %
Concentration RSD	1,906.3 %	53.5 %	544.8 %	140.0 %	819.2 %	83.2 %	99.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0009 ppm	0.0053 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0011 ppm	0.0124 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0012 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0005 ppm	0.0024 ppm	0.0003 ppm
Recovery Percentage 1	1.888 %	0.300 %	1.692 %	1.713 %	1.860 %	0.214 %	0.483 %
Concentration RSD	48.8 %	300.6 %	59.1 %	105.2 %	39.5 %	115.6 %	986.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0027 ppm	0.0055 ppm	0.0003 ppm	0.0003 ppm	0.0030 ppm
Concentration per Run 1	0.0005 ppm	0.0001 ppm	0.0030 ppm	0.0054 ppm	-0.0001 ppm	0.0010 ppm	0.0017 ppm
Concentration per Run 2	-0.0009 ppm	0.0001 ppm	0.0026 ppm	0.0056 ppm	0.0006 ppm	0.0002 ppm	0.0034 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	0.0023 ppm	0.0056 ppm	0.0004 ppm	-0.0003 ppm	0.0040 ppm
Recovery Percentage 1	-0.079 %	1.744 %	5.316 %	0.277 %	1.185 %	2.959 %	6.039 %
Concentration RSD	937.3 %	69.0 %	12.7 %	2.6 %	118.2 %	214.3 %	38.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0000 ppm	0.0022 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0004 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0027 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 3	0.0004 ppm	0.0023 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0010 ppm	0.0000 ppm
Recovery Percentage 1	-0.326 %	0.443 %	0.481 %	-0.064 %	3.198 %	-1.718 %	0.498 %
Concentration RSD	1,224.3 %	24.8 %	144.4 %	499.9 %	48.9 %	301.3 %	145.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	99.0116 %	99.0287 %	97.8318 %	99.7490 %	99.0926 %	98.7133 %
Concentration per Run 1	-0.0003 ppm	98.4629 %	100.6810 %	97.6791 %	99.6481 %	100.5412 %	98.6732 %
Concentration per Run 2	-0.0004 ppm	99.3150 %	98.3257 %	97.9845 %	99.4948 %	98.9034 %	98.6436 %
Concentration per Run 3	-0.0001 ppm	99.2567 %	98.0793 %	97.8317 %	100.1040 %	97.8332 %	98.8230 %
Recovery Percentage 1	-5.468 %						
Concentration RSD	54.5 %	0.5 %	1.5 %	0.2 %	0.3 %	1.4 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084191-1 WG2084191
 Analysis started at: 6/27/2025 11:58:36 AM
 Rack: 1
 Vial: 13
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0076 ppm	-0.0005 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0158 ppm
Concentration per Run 1	0.0000 ppm	0.0066 ppm	0.0014 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0162 ppm
Concentration per Run 2	0.0001 ppm	0.0083 ppm	-0.0027 ppm	-0.0018 ppm	0.0002 ppm	0.0000 ppm	0.0146 ppm
Concentration per Run 3	0.0002 ppm	0.0079 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0167 ppm
Concentration RSD	137.3 %	11.2 %	432.7 %	213.7 %	23.7 %	105.2 %	6.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0003 ppm	0.0148 ppm	0.0182 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0002 ppm	0.0151 ppm	0.0179 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0151 ppm	0.0243 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0003 ppm	0.0142 ppm	0.0125 ppm	0.0006 ppm
Concentration RSD	197.8 %	114.4 %	36.5 %	22.3 %	3.4 %	32.3 %	38.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0049 ppm	0.0005 ppm	0.0004 ppm	0.0095 ppm	0.0005 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0044 ppm	0.0006 ppm	0.0006 ppm	0.0091 ppm	0.0001 ppm	0.0002 ppm	0.0019 ppm
Concentration per Run 2	0.0058 ppm	0.0005 ppm	0.0005 ppm	0.0092 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 3	0.0044 ppm	0.0004 ppm	0.0001 ppm	0.0103 ppm	0.0010 ppm	-0.0002 ppm	-0.0017 ppm
Concentration RSD	16.7 %	14.6 %	70.9 %	6.8 %	107.1 %	455.7 %	711.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0000 ppm	0.0260 ppm	0.0070 ppm	0.0000 ppm	0.0003 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 1	-0.0025 ppm	0.0244 ppm	0.0073 ppm	0.0000 ppm	0.0003 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0260 ppm	0.0072 ppm	0.0000 ppm	0.0003 ppm	-0.0013 ppm	-0.0002 ppm
Concentration per Run 3	0.0026 ppm	0.0276 ppm	0.0066 ppm	0.0000 ppm	0.0003 ppm	-0.0019 ppm	-0.0001 ppm
Concentration RSD	88,429.8 %	6.1 %	5.9 %	43.4 %	9.7 %	38.9 %	179.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	100.1602 %	100.0118 %	98.2769 %	99.3902 %	99.5185 %	98.1229 %
Concentration per Run 1	0.0004 ppm	99.6165 %	100.1535 %	98.0272 %	99.5413 %	99.4649 %	98.0108 %
Concentration per Run 2	0.0004 ppm	100.5160 %	99.9284 %	98.0802 %	99.2367 %	99.5059 %	97.8563 %
Concentration per Run 3	0.0004 ppm	100.3481 %	99.9534 %	98.7233 %	99.3925 %	99.5846 %	98.5016 %
Concentration RSD	7.4 %	0.5 %	0.1 %	0.4 %	0.2 %	0.1 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084191-2d2 WG2084191
 Analysis started at: 6/27/2025 12:01:58 PM
 Rack: 1
 Vial: 14
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0585 ppm	2.3006 ppm	0.1207 ppm	1.0202 ppm	2.2588 ppm	0.0568 ppm	10.0959 ppm
Concentration per Run 1	0.0586 ppm	2.3083 ppm	0.1201 ppm	1.0210 ppm	2.2677 ppm	0.0571 ppm	10.1565 ppm
Concentration per Run 2	0.0583 ppm	2.2938 ppm	0.1206 ppm	1.0184 ppm	2.2487 ppm	0.0566 ppm	10.0843 ppm
Concentration per Run 3	0.0588 ppm	2.2997 ppm	0.1214 ppm	1.0212 ppm	2.2601 ppm	0.0566 ppm	10.0468 ppm
Concentration RSD	0.4 %	0.3 %	0.5 %	0.2 %	0.4 %	0.4 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0499 ppm	0.5430 ppm	0.2263 ppm	0.2771 ppm	1.1352 ppm	10.6871 ppm	0.0005 ppm
Concentration per Run 1	0.0501 ppm	0.5449 ppm	0.2270 ppm	0.2768 ppm	1.1377 ppm	10.7275 ppm	0.0007 ppm
Concentration per Run 2	0.0500 ppm	0.5420 ppm	0.2258 ppm	0.2783 ppm	1.1363 ppm	10.6951 ppm	0.0004 ppm
Concentration per Run 3	0.0495 ppm	0.5420 ppm	0.2260 ppm	0.2763 ppm	1.1316 ppm	10.6385 ppm	0.0005 ppm
Concentration RSD	0.6 %	0.3 %	0.3 %	0.4 %	0.3 %	0.4 %	32.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	10.4328 ppm	0.5559 ppm	1.0345 ppm	11.0224 ppm	0.5720 ppm	0.5471 ppm	0.4949 ppm
Concentration per Run 1	10.4788 ppm	0.5583 ppm	1.0373 ppm	11.0389 ppm	0.5739 ppm	0.5472 ppm	0.4983 ppm
Concentration per Run 2	10.4102 ppm	0.5558 ppm	1.0314 ppm	11.0688 ppm	0.5692 ppm	0.5464 ppm	0.4963 ppm
Concentration per Run 3	10.4093 ppm	0.5537 ppm	1.0347 ppm	10.9596 ppm	0.5729 ppm	0.5478 ppm	0.4901 ppm
Concentration RSD	0.4 %	0.4 %	0.3 %	0.5 %	0.4 %	0.1 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1230 ppm	0.8948 ppm	1.0462 [SIC 20]	1.0205 ppm	1.0576 ppm	0.1243 ppm	0.5566 ppm
Concentration per Run 1	0.1243 ppm	0.8982 ppm	1.0513 ppm	1.0242 ppm	1.0556 ppm	0.1247 ppm	0.5581 ppm
Concentration per Run 2	0.1230 ppm	0.8919 ppm	1.0415 ppm	1.0157 ppm	1.0561 ppm	0.1246 ppm	0.5580 ppm
Concentration per Run 3	0.1216 ppm	0.8941 ppm	1.0460 ppm	1.0216 ppm	1.0611 ppm	0.1236 ppm	0.5538 ppm
Concentration RSD	1.1 %	0.4 %	0.5 %	0.4 %	0.3 %	0.5 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5605 ppm	98.6455 %	99.3788 %	93.8644 %	96.9781 %	98.5997 %	94.8359 %
Concentration per Run 1	0.5651 ppm	98.3071 %	98.9897 %	93.9191 %	96.6605 %	98.5373 %	94.9664 %
Concentration per Run 2	0.5571 ppm	98.8729 %	99.9444 %	94.3417 %	96.7644 %	99.0454 %	95.3992 %
Concentration per Run 3	0.5594 ppm	98.7566 %	99.2023 %	93.3324 %	97.5093 %	98.2162 %	94.1422 %
Concentration RSD	0.7 %	0.3 %	0.5 %	0.5 %	0.5 %	0.4 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539031-01d2 WG2084191
 Analysis started at: 6/27/2025 12:05:09 PM
 Rack: 1
 Vial: 20
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0008 ppm	100.4869 ppm	0.0500 ppm	0.0200 ppm	0.5133 ppm	0.0041 ppm	11.5874 ppm
Concentration per Run 1	0.0007 ppm	100.2510 ppm	0.0504 ppm	0.0208 ppm	0.5068 ppm	0.0040 ppm	11.6064 ppm
Concentration per Run 2	0.0011 ppm	100.9153 ppm	0.0484 ppm	0.0201 ppm	0.5181 ppm	0.0041 ppm	11.7288 ppm
Concentration per Run 3	0.0008 ppm	100.2944 ppm	0.0512 ppm	0.0189 ppm	0.5150 ppm	0.0041 ppm	11.4270 ppm
Concentration RSD	23.3 %	0.4 %	2.9 %	4.7 %	1.1 %	1.1 %	1.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0028 ppm	0.0901 ppm	0.1552 ppm	0.1512 ppm	170.1258 ppm	5.0296 ppm	0.1058 ppm
Concentration per Run 1	0.0029 ppm	0.0899 ppm	0.1554 ppm	0.1513 ppm	169.0416 ppm	5.0280 ppm	0.1057 ppm
Concentration per Run 2	0.0028 ppm	0.0907 ppm	0.1556 ppm	0.1510 ppm	171.9127 ppm	5.0537 ppm	0.1064 ppm
Concentration per Run 3	0.0026 ppm	0.0898 ppm	0.1546 ppm	0.1512 ppm	169.4231 ppm	5.0072 ppm	0.1052 ppm
Concentration RSD	6.0 %	0.5 %	0.4 %	0.1 %	0.9 %	0.5 %	0.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	26.0075 ppm	4.7705 ppm	0.0048 ppm	4.9996 ppm	0.1295 ppm	0.1565 ppm	-0.0023 ppm
Concentration per Run 1	25.9145 ppm	4.7816 ppm	0.0052 ppm	5.0648 ppm	0.1307 ppm	0.1571 ppm	-0.0005 ppm
Concentration per Run 2	26.0732 ppm	4.8000 ppm	0.0048 ppm	4.9711 ppm	0.1292 ppm	0.1565 ppm	-0.0037 ppm
Concentration per Run 3	26.0347 ppm	4.7299 ppm	0.0045 ppm	4.9628 ppm	0.1287 ppm	0.1559 ppm	-0.0026 ppm
Concentration RSD	0.3 %	0.8 %	6.7 %	1.1 %	0.8 %	0.4 %	71.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0008 ppm	19.5796 ppm	0.0105 ppm	0.0925 ppm	4.1876 ppm	-0.0006 ppm	0.2938 ppm
Concentration per Run 1	-0.0010 ppm	19.6528 ppm	0.0100 ppm	0.0916 ppm	4.1860 ppm	-0.0010 ppm	0.2942 ppm
Concentration per Run 2	-0.0010 ppm	19.5203 ppm	0.0108 ppm	0.0937 ppm	4.2050 ppm	0.0002 ppm	0.2951 ppm
Concentration per Run 3	-0.0004 ppm	19.5656 ppm	0.0106 ppm	0.0923 ppm	4.1717 ppm	-0.0010 ppm	0.2922 ppm
Concentration RSD	40.7 %	0.3 %	3.9 %	1.1 %	0.4 %	108.8 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3340 ppm	106.6537 %	105.6845 %	95.8298 %	116.4636 %	125.2241 %	122.5325 %
Concentration per Run 1	0.3318 ppm	106.8582 %	106.5209 %	96.2270 %	116.1174 %	125.5638 %	123.0866 %
Concentration per Run 2	0.3351 ppm	107.0673 %	104.0628 %	96.0049 %	116.3601 %	124.6518 %	122.8134 %
Concentration per Run 3	0.3350 ppm	106.0356 %	106.4699 %	95.2575 %	116.9134 %	125.4568 %	121.6975 %
Concentration RSD	0.6 %	0.5 %	1.3 %	0.5 %	0.4 %	0.4 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539739-01d2 WG2084191
 Analysis started at: 6/27/2025 12:08:21 PM
 Rack: 1
 Vial: 21
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	31.3816 ppm	0.0448 ppm	0.0098 ppm	0.3292 ppm	0.0024 ppm	7.9211 ppm
Concentration per Run 1	0.0003 ppm	31.4172 ppm	0.0455 ppm	0.0106 ppm	0.3303 ppm	0.0024 ppm	7.9089 ppm
Concentration per Run 2	0.0003 ppm	31.4501 ppm	0.0450 ppm	0.0097 ppm	0.3282 ppm	0.0023 ppm	7.9164 ppm
Concentration per Run 3	0.0006 ppm	31.2775 ppm	0.0437 ppm	0.0090 ppm	0.3290 ppm	0.0024 ppm	7.9380 ppm
Concentration RSD	39.1 %	0.3 %	2.1 %	7.9 %	0.3 %	1.7 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0019 ppm	0.0120 ppm	0.0738 ppm	0.0784 ppm	51.8153 ppm	3.2153 ppm	0.0264 ppm
Concentration per Run 1	0.0019 ppm	0.0116 ppm	0.0739 ppm	0.0785 ppm	51.8278 ppm	3.2449 ppm	0.0269 ppm
Concentration per Run 2	0.0019 ppm	0.0124 ppm	0.0740 ppm	0.0781 ppm	51.7084 ppm	3.2499 ppm	0.0263 ppm
Concentration per Run 3	0.0019 ppm	0.0119 ppm	0.0735 ppm	0.0787 ppm	51.9095 ppm	3.1510 ppm	0.0259 ppm
Concentration RSD	1.0 %	3.5 %	0.3 %	0.4 %	0.2 %	1.7 %	1.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	4.3975 ppm	1.0850 ppm	0.0034 ppm	0.2195 ppm	0.0315 ppm	0.8004 ppm	0.0062 ppm
Concentration per Run 1	4.4084 ppm	1.0858 ppm	0.0036 ppm	0.2269 ppm	0.0316 ppm	0.8017 ppm	0.0086 ppm
Concentration per Run 2	4.4025 ppm	1.0853 ppm	0.0034 ppm	0.2154 ppm	0.0312 ppm	0.8040 ppm	0.0041 ppm
Concentration per Run 3	4.3816 ppm	1.0839 ppm	0.0033 ppm	0.2161 ppm	0.0317 ppm	0.7953 ppm	0.0058 ppm
Concentration RSD	0.3 %	0.1 %	4.5 %	2.9 %	0.9 %	0.6 %	36.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0016 ppm	17.4172 ppm	0.0274 ppm	0.0357 ppm	0.8640 ppm	0.0000 ppm	0.1056 ppm
Concentration per Run 1	0.0025 ppm	17.7684 ppm	0.0277 ppm	0.0357 ppm	0.8868 ppm	0.0001 ppm	0.1062 ppm
Concentration per Run 2	0.0001 ppm	17.2770 ppm	0.0271 ppm	0.0359 ppm	0.8554 ppm	-0.0001 ppm	0.1057 ppm
Concentration per Run 3	0.0021 ppm	17.2062 ppm	0.0276 ppm	0.0355 ppm	0.8500 ppm	0.0001 ppm	0.1049 ppm
Concentration RSD	81.6 %	1.8 %	1.2 %	0.5 %	2.3 %	481.8 %	0.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2708 ppm	98.6563 %	100.5509 %	93.7047 %	103.2995 %	105.2225 %	102.0484 %
Concentration per Run 1	0.2710 ppm	98.9193 %	101.0092 %	93.8468 %	103.0147 %	105.6705 %	102.1604 %
Concentration per Run 2	0.2704 ppm	98.9067 %	100.1850 %	93.2814 %	103.5009 %	104.7817 %	101.7519 %
Concentration per Run 3	0.2710 ppm	98.1429 %	100.4585 %	93.9861 %	103.3829 %	105.2155 %	102.2330 %
Concentration RSD	0.1 %	0.5 %	0.4 %	0.4 %	0.2 %	0.4 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539739-02d2 WG2084191
 Analysis started at: 6/27/2025 12:11:34 PM
 Rack: 1
 Vial: 22
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	32.7750 ppm	0.0412 ppm	0.0067 ppm	0.2368 ppm	0.0022 ppm	2.4269 ppm
Concentration per Run 1	-0.0003 ppm	32.6653 ppm	0.0406 ppm	0.0080 ppm	0.2362 ppm	0.0022 ppm	2.4213 ppm
Concentration per Run 2	0.0000 ppm	32.8047 ppm	0.0420 ppm	0.0053 ppm	0.2371 ppm	0.0022 ppm	2.4259 ppm
Concentration per Run 3	0.0003 ppm	32.8549 ppm	0.0410 ppm	0.0068 ppm	0.2371 ppm	0.0022 ppm	2.4335 ppm
Concentration RSD	9,799.7 %	0.3 %	1.7 %	20.1 %	0.2 %	0.5 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0011 ppm	0.0094 ppm	0.0514 ppm	0.0610 ppm	47.2532 ppm	2.5098 ppm	0.0238 ppm
Concentration per Run 1	0.0011 ppm	0.0097 ppm	0.0514 ppm	0.0609 ppm	47.3093 ppm	2.5176 ppm	0.0236 ppm
Concentration per Run 2	0.0011 ppm	0.0088 ppm	0.0517 ppm	0.0614 ppm	47.1960 ppm	2.4827 ppm	0.0238 ppm
Concentration per Run 3	0.0011 ppm	0.0097 ppm	0.0510 ppm	0.0608 ppm	47.2543 ppm	2.5290 ppm	0.0240 ppm
Concentration RSD	3.7 %	5.3 %	0.6 %	0.5 %	0.1 %	1.0 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.5184 ppm	1.4694 ppm	0.0034 ppm	0.1840 ppm	0.0249 ppm	0.2154 ppm	0.0025 ppm
Concentration per Run 1	3.5305 ppm	1.4684 ppm	0.0035 ppm	0.1820 ppm	0.0247 ppm	0.2166 ppm	0.0006 ppm
Concentration per Run 2	3.5130 ppm	1.4655 ppm	0.0036 ppm	0.1728 ppm	0.0246 ppm	0.2144 ppm	0.0027 ppm
Concentration per Run 3	3.5117 ppm	1.4742 ppm	0.0031 ppm	0.1971 ppm	0.0254 ppm	0.2151 ppm	0.0040 ppm
Concentration RSD	0.3 %	0.3 %	7.2 %	6.7 %	1.8 %	0.5 %	68.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0014 ppm	20.1608 [SIC 200]	0.0128 ppm	0.0175 ppm	0.8178 ppm	-0.0009 ppm	0.0913 ppm
Concentration per Run 1	-0.0002 ppm	20.2611 ppm	0.0118 ppm	0.0175 ppm	0.8457 ppm	-0.0003 ppm	0.0915 ppm
Concentration per Run 2	0.0016 ppm	19.9600 ppm	0.0125 ppm	0.0174 ppm	0.8014 ppm	-0.0012 ppm	0.0919 ppm
Concentration per Run 3	0.0029 ppm	20.2614 ppm	0.0140 ppm	0.0178 ppm	0.8063 ppm	-0.0012 ppm	0.0906 ppm
Concentration RSD	109.0 %	0.9 %	8.9 %	1.1 %	3.0 %	60.7 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1769 ppm	99.5761 %	101.3346 %	94.2504 %	103.2795 %	104.9119 %	101.9481 %
Concentration per Run 1	0.1776 ppm	99.6802 %	101.3163 %	94.9630 %	103.1669 %	104.4659 %	102.6935 %
Concentration per Run 2	0.1774 ppm	99.4842 %	101.3649 %	93.7139 %	102.7658 %	104.9718 %	101.4948 %
Concentration per Run 3	0.1756 ppm	99.5638 %	101.3227 %	94.0741 %	103.9057 %	105.2981 %	101.6561 %
Concentration RSD	0.6 %	0.1 %	0.0 %	0.7 %	0.6 %	0.4 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539742-01d2 WG2084191
 Analysis started at: 6/27/2025 12:14:47 PM
 Rack: 1
 Vial: 15
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	24.0735 ppm	0.0352 ppm	0.0050 ppm	0.2203 ppm	0.0019 ppm	4.1428 ppm
Concentration per Run 1	-0.0005 ppm	24.1091 ppm	0.0357 ppm	0.0054 ppm	0.2209 ppm	0.0019 ppm	4.1453 ppm
Concentration per Run 2	0.0002 ppm	24.1650 ppm	0.0347 ppm	0.0044 ppm	0.2207 ppm	0.0019 ppm	4.1515 ppm
Concentration per Run 3	0.0000 ppm	23.9463 ppm	0.0352 ppm	0.0052 ppm	0.2194 ppm	0.0018 ppm	4.1316 ppm
Concentration RSD	383.4 %	0.5 %	1.4 %	10.6 %	0.4 %	1.0 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0018 ppm	0.0134 ppm	0.0681 ppm	0.0569 ppm	54.8939 ppm	2.3515 ppm	0.0211 ppm
Concentration per Run 1	0.0019 ppm	0.0133 ppm	0.0685 ppm	0.0569 ppm	54.9923 ppm	2.3756 ppm	0.0214 ppm
Concentration per Run 2	0.0018 ppm	0.0139 ppm	0.0680 ppm	0.0572 ppm	54.9448 ppm	2.3617 ppm	0.0212 ppm
Concentration per Run 3	0.0018 ppm	0.0129 ppm	0.0678 ppm	0.0567 ppm	54.7446 ppm	2.3173 ppm	0.0206 ppm
Concentration RSD	2.5 %	4.0 %	0.5 %	0.5 %	0.2 %	1.3 %	1.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.4641 ppm	0.8195 ppm	0.0022 ppm	0.1811 ppm	0.0291 ppm	0.4662 ppm	0.0039 ppm
Concentration per Run 1	3.4710 ppm	0.8196 ppm	0.0016 ppm	0.1803 ppm	0.0296 ppm	0.4646 ppm	0.0043 ppm
Concentration per Run 2	3.4683 ppm	0.8222 ppm	0.0025 ppm	0.1848 ppm	0.0287 ppm	0.4662 ppm	0.0034 ppm
Concentration per Run 3	3.4529 ppm	0.8168 ppm	0.0024 ppm	0.1782 ppm	0.0291 ppm	0.4677 ppm	0.0040 ppm
Concentration RSD	0.3 %	0.3 %	21.3 %	1.9 %	1.5 %	0.3 %	11.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	14.6929 ppm	0.0198 ppm	0.0204 ppm	0.7376 ppm	-0.0003 ppm	0.0910 ppm
Concentration per Run 1	0.0002 ppm	14.5557 ppm	0.0202 ppm	0.0202 ppm	0.7110 ppm	-0.0001 ppm	0.0910 ppm
Concentration per Run 2	0.0005 ppm	14.9321 ppm	0.0196 ppm	0.0206 ppm	0.7420 ppm	0.0002 ppm	0.0914 ppm
Concentration per Run 3	0.0018 ppm	14.5909 ppm	0.0196 ppm	0.0204 ppm	0.7599 ppm	-0.0012 ppm	0.0908 ppm
Concentration RSD	95.8 %	1.4 %	1.9 %	0.9 %	3.4 %	220.8 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2732 ppm	99.7597 %	100.8868 %	94.8068 %	101.9226 %	103.3172 %	100.8845 %
Concentration per Run 1	0.2732 ppm	100.4788 %	100.9254 %	95.1051 %	102.3813 %	103.1987 %	101.2242 %
Concentration per Run 2	0.2734 ppm	99.1032 %	100.7983 %	94.9239 %	101.0695 %	103.4358 %	100.9775 %
Concentration per Run 3	0.2731 ppm	99.6971 %	100.9368 %	94.3913 %	102.3172 %	103.3172 %	100.4518 %
Concentration RSD	0.0 %	0.7 %	0.1 %	0.4 %	0.7 %	0.1 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084191-3d2 WG2084191
 Analysis started at: 6/27/2025 12:17:58 PM
 Rack: 1
 Vial: 16
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0565 ppm	27.2480 ppm	0.1491 ppm	0.9764 ppm	2.4045 ppm	0.0566 ppm	13.7498 ppm
Concentration per Run 1	0.0568 ppm	27.2593 ppm	0.1490 ppm	0.9778 ppm	2.4099 ppm	0.0566 ppm	13.7009 ppm
Concentration per Run 2	0.0565 ppm	27.3612 ppm	0.1496 ppm	0.9826 ppm	2.4088 ppm	0.0566 ppm	13.7257 ppm
Concentration per Run 3	0.0563 ppm	27.1233 ppm	0.1488 ppm	0.9689 ppm	2.3946 ppm	0.0565 ppm	13.8228 ppm
Concentration RSD	0.4 %	0.4 %	0.3 %	0.7 %	0.4 %	0.1 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0492 ppm	0.5330 ppm	0.2805 ppm	0.3099 ppm	44.7614 ppm	12.4818 ppm	0.0224 ppm
Concentration per Run 1	0.0488 ppm	0.5317 ppm	0.2811 ppm	0.3078 ppm	44.7377 ppm	12.5408 ppm	0.0231 ppm
Concentration per Run 2	0.0496 ppm	0.5357 ppm	0.2815 ppm	0.3101 ppm	44.7041 ppm	12.5311 ppm	0.0225 ppm
Concentration per Run 3	0.0491 ppm	0.5315 ppm	0.2789 ppm	0.3118 ppm	44.8425 ppm	12.3736 ppm	0.0216 ppm
Concentration RSD	0.8 %	0.4 %	0.5 %	0.6 %	0.2 %	0.8 %	3.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	13.5336 ppm	1.2212 ppm	0.9954 ppm	10.9658 ppm	0.5770 ppm	0.9825 ppm	0.3565 ppm
Concentration per Run 1	13.6225 ppm	1.2148 ppm	0.9968 ppm	10.9696 ppm	0.5809 ppm	0.9802 ppm	0.3578 ppm
Concentration per Run 2	13.5345 ppm	1.2235 ppm	0.9974 ppm	11.0873 ppm	0.5791 ppm	0.9785 ppm	0.3558 ppm
Concentration per Run 3	13.4437 ppm	1.2253 ppm	0.9918 ppm	10.8406 ppm	0.5710 ppm	0.9887 ppm	0.3559 ppm
Concentration RSD	0.7 %	0.5 %	0.3 %	1.1 %	0.9 %	0.6 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1156 ppm	16.1143 ppm	0.9880 ppm	1.0127 ppm	1.5941 ppm	0.1201 ppm	0.5960 ppm
Concentration per Run 1	0.1111 ppm	15.9529 ppm	0.9888 ppm	1.0126 ppm	1.5951 ppm	0.1204 ppm	0.5950 ppm
Concentration per Run 2	0.1193 ppm	16.2119 ppm	0.9943 ppm	1.0144 ppm	1.5926 ppm	0.1205 ppm	0.5971 ppm
Concentration per Run 3	0.1164 ppm	16.1782 ppm	0.9808 ppm	1.0110 ppm	1.5947 ppm	0.1194 ppm	0.5958 ppm
Concentration RSD	3.6 %	0.9 %	0.7 %	0.2 %	0.1 %	0.5 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7837 ppm	97.8352 %	100.2622 %	91.7574 %	99.5487 %	102.2372 %	98.5195 %
Concentration per Run 1	0.7885 ppm	97.7825 %	100.1603 %	92.1347 %	100.1428 %	102.2449 %	98.6840 %
Concentration per Run 2	0.7872 ppm	97.5100 %	100.2401 %	91.4227 %	99.0868 %	102.3388 %	98.2577 %
Concentration per Run 3	0.7753 ppm	98.2132 %	100.3863 %	91.7148 %	99.4164 %	102.1279 %	98.6168 %
Concentration RSD	0.9 %	0.4 %	0.1 %	0.4 %	0.5 %	0.1 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084191-4d2 WG2084191
 Analysis started at: 6/27/2025 12:21:10 PM
 Rack: 1
 Vial: 17
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0571 ppm	26.6756 ppm	0.1481 ppm	0.9731 ppm	2.4376 ppm	0.0574 ppm	14.3068 ppm
Concentration per Run 1	0.0572 ppm	26.7299 ppm	0.1474 ppm	0.9732 ppm	2.4399 ppm	0.0575 ppm	14.3557 ppm
Concentration per Run 2	0.0569 ppm	26.6218 ppm	0.1500 ppm	0.9733 ppm	2.4329 ppm	0.0571 ppm	14.2487 ppm
Concentration per Run 3	0.0572 ppm	26.6752 ppm	0.1471 ppm	0.9727 ppm	2.4401 ppm	0.0575 ppm	14.3160 ppm
Concentration RSD	0.3 %	0.2 %	1.1 %	0.0 %	0.2 %	0.4 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0499 ppm	0.5392 ppm	0.2800 ppm	0.3111 ppm	44.4283 ppm	12.3649 ppm	0.0214 ppm
Concentration per Run 1	0.0505 ppm	0.5424 ppm	0.2802 ppm	0.3126 ppm	44.5557 ppm	12.4535 ppm	0.0213 ppm
Concentration per Run 2	0.0496 ppm	0.5372 ppm	0.2794 ppm	0.3101 ppm	44.1566 ppm	12.3235 ppm	0.0211 ppm
Concentration per Run 3	0.0496 ppm	0.5381 ppm	0.2803 ppm	0.3106 ppm	44.5727 ppm	12.3176 ppm	0.0217 ppm
Concentration RSD	1.0 %	0.5 %	0.2 %	0.4 %	0.5 %	0.6 %	1.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	13.4906 ppm	1.2474 ppm	1.0012 ppm	10.9590 ppm	0.5804 ppm	1.0004 ppm	0.3518 ppm
Concentration per Run 1	13.5151 ppm	1.2503 ppm	1.0008 ppm	10.9981 ppm	0.5810 ppm	0.9955 ppm	0.3541 ppm
Concentration per Run 2	13.4424 ppm	1.2392 ppm	0.9987 ppm	10.9856 ppm	0.5794 ppm	1.0041 ppm	0.3484 ppm
Concentration per Run 3	13.5144 ppm	1.2526 ppm	1.0042 ppm	10.8933 ppm	0.5807 ppm	1.0018 ppm	0.3530 ppm
Concentration RSD	0.3 %	0.6 %	0.3 %	0.5 %	0.1 %	0.4 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1160 ppm	14.5862 ppm	0.9807 ppm	1.0165 ppm	1.5640 ppm	0.1204 ppm	0.6003 ppm
Concentration per Run 1	0.1168 ppm	14.7860 ppm	0.9817 ppm	1.0153 ppm	1.5515 ppm	0.1187 ppm	0.6045 ppm
Concentration per Run 2	0.1167 ppm	14.5782 ppm	0.9764 ppm	1.0184 ppm	1.5815 ppm	0.1210 ppm	0.5988 ppm
Concentration per Run 3	0.1145 ppm	14.3945 ppm	0.9840 ppm	1.0158 ppm	1.5592 ppm	0.1214 ppm	0.5976 ppm
Concentration RSD	1.1 %	1.3 %	0.4 %	0.2 %	1.0 %	1.2 %	0.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7919 ppm	97.8653 %	99.8923 %	92.0718 %	99.6617 %	102.4463 %	99.0159 %
Concentration per Run 1	0.7934 ppm	97.7540 %	99.7943 %	92.0374 %	98.9603 %	102.6790 %	98.5055 %
Concentration per Run 2	0.7902 ppm	98.0499 %	100.1793 %	92.0217 %	99.7339 %	102.5966 %	99.2282 %
Concentration per Run 3	0.7920 ppm	97.7921 %	99.7034 %	92.1563 %	100.2910 %	102.0632 %	99.3140 %
Concentration RSD	0.2 %	0.2 %	0.3 %	0.1 %	0.7 %	0.3 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084191-5d2 WG2084191
 Analysis started at: 6/27/2025 12:24:21 PM
 Rack: 1
 Vial: 18
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0548 ppm	25.3254 ppm	0.1512 ppm	0.9695 ppm	2.3138 ppm	0.0544 ppm	13.5260 ppm
Concentration per Run 1	0.0548 ppm	25.3335 ppm	0.1520 ppm	0.9738 ppm	2.3216 ppm	0.0545 ppm	13.4924 ppm
Concentration per Run 2	0.0542 ppm	25.2943 ppm	0.1521 ppm	0.9705 ppm	2.3103 ppm	0.0544 ppm	13.4782 ppm
Concentration per Run 3	0.0553 ppm	25.3485 ppm	0.1496 ppm	0.9641 ppm	2.3095 ppm	0.0544 ppm	13.6076 ppm
Concentration RSD	1.0 %	0.1 %	0.9 %	0.5 %	0.3 %	0.2 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0478 ppm	0.5182 ppm	0.2755 ppm	0.3063 ppm	53.2203 ppm	12.3071 ppm	0.0204 ppm
Concentration per Run 1	0.0477 ppm	0.5173 ppm	0.2774 ppm	0.3057 ppm	53.2575 ppm	12.3558 ppm	0.0207 ppm
Concentration per Run 2	0.0477 ppm	0.5211 ppm	0.2757 ppm	0.3063 ppm	53.1217 ppm	12.3545 ppm	0.0206 ppm
Concentration per Run 3	0.0479 ppm	0.5164 ppm	0.2735 ppm	0.3071 ppm	53.2816 ppm	12.2110 ppm	0.0199 ppm
Concentration RSD	0.2 %	0.5 %	0.7 %	0.2 %	0.2 %	0.7 %	2.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	13.0875 ppm	1.2988 ppm	0.9823 ppm	10.6677 ppm	0.5577 ppm	0.9599 ppm	0.4442 ppm
Concentration per Run 1	13.0863 ppm	1.2942 ppm	0.9810 ppm	10.6972 ppm	0.5598 ppm	0.9632 ppm	0.4414 ppm
Concentration per Run 2	13.1408 ppm	1.2968 ppm	0.9860 ppm	10.6926 ppm	0.5597 ppm	0.9603 ppm	0.4437 ppm
Concentration per Run 3	13.0354 ppm	1.3055 ppm	0.9800 ppm	10.6132 ppm	0.5537 ppm	0.9562 ppm	0.4474 ppm
Concentration RSD	0.4 %	0.5 %	0.3 %	0.4 %	0.6 %	0.4 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1166 ppm	15.4949 ppm	1.0041 [SIC 20]	0.9842 ppm	1.6961 ppm	0.1168 ppm	0.5866 ppm
Concentration per Run 1	0.1162 ppm	15.8798 ppm	1.0045 ppm	0.9811 ppm	1.6804 ppm	0.1162 ppm	0.5853 ppm
Concentration per Run 2	0.1172 ppm	15.4619 ppm	1.0099 ppm	0.9848 ppm	1.7307 ppm	0.1184 ppm	0.5865 ppm
Concentration per Run 3	0.1163 ppm	15.1430 ppm	0.9980 ppm	0.9866 ppm	1.6772 ppm	0.1159 ppm	0.5881 ppm
Concentration RSD	0.4 %	2.4 %	0.6 %	0.3 %	1.8 %	1.1 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7822 ppm	99.0874 %	100.6765 %	92.1192 %	101.1132 %	102.9429 %	98.9633 %
Concentration per Run 1	0.7847 ppm	98.5542 %	100.7040 %	92.4773 %	101.1568 %	102.9804 %	100.0022 %
Concentration per Run 2	0.7842 ppm	99.1633 %	101.2524 %	91.7344 %	101.5369 %	103.1946 %	98.2424 %
Concentration per Run 3	0.7776 ppm	99.5446 %	100.0731 %	92.1459 %	100.6459 %	102.6539 %	98.6453 %
Concentration RSD	0.5 %	0.5 %	0.6 %	0.4 %	0.4 %	0.3 %	0.9 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: xWG2084191-6d10 WG2084191
 Analysis started at: 6/27/2025 12:27:34 PM
 Rack: 1
 Vial: 19
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	4.8343 ppm	-- ppm	0.0003 ppm	0.0436 ppm	0.0004 ppm	0.8287 ppm
Concentration per Run 1	0.0010 ppm	4.8527 ppm	-- ppm	0.0009 ppm	0.0437 ppm	0.0004 ppm	0.8330 ppm
Concentration per Run 2	0.0000 ppm	4.8361 ppm	0.0068 ppm	0.0007 ppm	0.0439 ppm	0.0004 ppm	0.8281 ppm
Concentration per Run 3	0.0000 ppm	4.8142 ppm	0.0066 ppm	-0.0006 ppm	0.0434 ppm	0.0004 ppm	0.8250 ppm
Concentration RSD	160.0 %	0.4 %		248.0 %	0.6 %	0.7 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0005 ppm	0.0023 ppm	0.0097 ppm	-- [SIC 60]	11.2710 ppm	0.4725 ppm	0.0047 ppm
Concentration per Run 1	0.0005 ppm	0.0022 ppm	0.0007 ppm	-- ppm	11.2717 ppm	0.4707 ppm	0.0050 ppm
Concentration per Run 2	0.0005 ppm	0.0023 ppm	0.0139 ppm	0.0121 ppm	11.3082 ppm	0.4758 ppm	0.0043 ppm
Concentration per Run 3	0.0005 ppm	0.0024 ppm	0.0145 ppm	0.0122 ppm	11.2329 ppm	0.4710 ppm	0.0048 ppm
Concentration RSD	4.5 %	4.5 %	80.5 %		0.3 %	0.6 %	7.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.6986 ppm	0.1630 ppm	0.0043 ppm	0.0409 ppm	0.0043 ppm	-- ppm	-- ppm
Concentration per Run 1	0.6987 ppm	0.1628 ppm	0.0043 ppm	0.0397 ppm	0.0003 ppm	-- ppm	-- ppm
Concentration per Run 2	0.6971 ppm	0.1629 ppm	0.0047 ppm	0.0429 ppm	0.0060 ppm	0.0930 ppm	0.0036 ppm
Concentration per Run 3	0.7001 ppm	0.1633 ppm	0.0040 ppm	0.0401 ppm	0.0066 ppm	0.0936 ppm	0.0055 ppm
Concentration RSD	0.2 %	0.1 %	7.4 %	4.3 %	81.3 %		

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-- ppm	2.0472 ppm	0.0024 ppm	0.0041 ppm	0.1005 ppm	-- ppm	-- [SIC 10]
Concentration per Run 1	-- ppm	-0.0126 ppm	-0.0013 ppm	0.0042 ppm	0.0006 ppm	-- ppm	-- ppm
Concentration per Run 2	-0.0027 ppm	3.0762 ppm	0.0040 ppm	0.0041 ppm	0.1547 ppm	0.0009 ppm	0.0189 ppm
Concentration per Run 3	0.0004 ppm	3.0781 ppm	0.0045 ppm	0.0041 ppm	0.1462 ppm	-0.0013 ppm	0.0184 ppm
Concentration RSD		87.1 %	134.2 %	1.0 %	86.2 %		

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0351 ppm	101.5858 %	101.9774 %	66.5327 %	66.9111 %	102.2369 %	66.8324 %
Concentration per Run 1	-0.0019 ppm	100.7422 %	101.6746 %	0.0000 %	0.0000 %	102.2176 %	0.0000 %
Concentration per Run 2	0.0534 ppm	102.7241 %	101.7080 %	100.4713 %	100.8891 %	101.8303 %	100.6278 %
Concentration per Run 3	0.0538 ppm	101.2912 %	102.5497 %	99.1269 %	99.8441 %	102.6628 %	99.8693 %
Concentration RSD	91.2 %	1.0 %	0.5 %	86.6 %	86.6 %	0.4 %	86.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 12:31:47 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5294 ppm	0.4876 ppm	0.4747 ppm	0.4957 ppm	0.5002 ppm	0.5020 ppm	0.4971 ppm
Concentration per Run 1	0.5288 ppm	0.4895 ppm	0.4726 ppm	0.4949 ppm	0.4988 ppm	0.5008 ppm	0.4992 ppm
Concentration per Run 2	0.5308 ppm	0.4831 ppm	0.4763 ppm	0.4977 ppm	0.5033 ppm	0.5011 ppm	0.4947 ppm
Concentration per Run 3	0.5285 ppm	0.4904 ppm	0.4753 ppm	0.4946 ppm	0.4985 ppm	0.5042 ppm	0.4972 ppm
Recovery Percentage 1	105.875 %	97.530 %	94.947 %	99.144 %	100.041 %	100.408 %	99.413 %
Concentration RSD	0.2 %	0.8 %	0.4 %	0.3 %	0.5 %	0.4 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4766 ppm	0.5004 ppm	0.5168 ppm	0.4960 ppm	0.5035 ppm	5.0904 ppm	0.5136 ppm
Concentration per Run 1	0.4798 ppm	0.5023 ppm	0.5154 ppm	0.4957 ppm	0.5003 ppm	5.0495 ppm	0.5093 ppm
Concentration per Run 2	0.4751 ppm	0.4999 ppm	0.5189 ppm	0.4978 ppm	0.5030 ppm	5.1278 ppm	0.5200 ppm
Concentration per Run 3	0.4749 ppm	0.4988 ppm	0.5161 ppm	0.4946 ppm	0.5073 ppm	5.0940 ppm	0.5116 ppm
Recovery Percentage 1	95.319 %	100.073 %	103.359 %	99.208 %	100.708 %	101.808 %	102.729 %
Concentration RSD	0.6 %	0.4 %	0.4 %	0.3 %	0.7 %	0.8 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5166 ppm	0.5002 ppm	0.5012 ppm	10.1446 ppm	0.5197 ppm	0.5042 ppm	0.4891 ppm
Concentration per Run 1	0.5170 ppm	0.5004 ppm	0.5023 ppm	10.1052 ppm	0.5195 ppm	0.5028 ppm	0.4960 ppm
Concentration per Run 2	0.5161 ppm	0.4974 ppm	0.5019 ppm	10.2576 ppm	0.5216 ppm	0.5036 ppm	0.4887 ppm
Concentration per Run 3	0.5168 ppm	0.5028 ppm	0.4994 ppm	10.0711 ppm	0.5178 ppm	0.5063 ppm	0.4826 ppm
Recovery Percentage 1	103.324 %	100.040 %	100.235 %	101.446 %	103.931 %	100.845 %	97.814 %
Concentration RSD	0.1 %	0.5 %	0.3 %	1.0 %	0.4 %	0.4 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4867 ppm	5.3734 ppm	0.5089 ppm	0.5034 ppm	0.5124 ppm	0.5086 ppm	0.4901 ppm
Concentration per Run 1	0.4871 ppm	5.3758 ppm	0.5104 ppm	0.4995 ppm	0.5121 ppm	0.5093 ppm	0.4894 ppm
Concentration per Run 2	0.4858 ppm	5.3741 ppm	0.5076 ppm	0.5051 ppm	0.5132 ppm	0.5080 ppm	0.4909 ppm
Concentration per Run 3	0.4872 ppm	5.3701 ppm	0.5087 ppm	0.5056 ppm	0.5121 ppm	0.5085 ppm	0.4900 ppm
Recovery Percentage 1	97.339 %	102.350 %	101.778 %	100.676 %	102.489 %	101.719 %	98.017 %
Concentration RSD	0.2 %	0.1 %	0.3 %	0.7 %	0.1 %	0.1 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5087 ppm	100.9214 %	100.8229 %	98.1074 %	99.3867 %	99.2162 %	97.6519 %
Concentration per Run 1	0.5092 ppm	100.9519 %	101.2751 %	98.0821 %	99.6276 %	99.6699 %	97.5901 %
Concentration per Run 2	0.5085 ppm	100.9239 %	101.4477 %	98.3198 %	99.2356 %	99.6127 %	97.8122 %
Concentration per Run 3	0.5083 ppm	100.8884 %	99.7460 %	97.9204 %	99.2968 %	98.3660 %	97.5535 %
Recovery Percentage 1	101.741 %						
Concentration RSD	0.1 %	0.0 %	0.9 %	0.2 %	0.2 %	0.7 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 12:35:00 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0043 ppm	-0.0012 ppm	-0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	0.0006 ppm	0.0058 ppm	-0.0006 ppm	-0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 2	0.0000 ppm	0.0050 ppm	-0.0016 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 3	-0.0004 ppm	0.0020 ppm	-0.0013 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Recovery Percentage 1	1.215 %	4.294 %	-23.085 %	-4.273 %	0.500 %	0.488 %	1.925 %
Concentration RSD	574.7 %	46.3 %	45.1 %	41.1 %	19.7 %	110.7 %	97.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0010 ppm	0.0060 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0077 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0013 ppm	0.0054 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0003 ppm	0.0017 ppm	0.0049 ppm	-0.0002 ppm
Recovery Percentage 1	1.804 %	0.147 %	2.747 %	2.421 %	2.011 %	0.240 %	-0.615 %
Concentration RSD	42.4 %	493.5 %	122.2 %	55.9 %	83.6 %	24.2 %	1,186.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0003 ppm	0.0002 ppm	0.0028 ppm	0.0008 ppm	-0.0001 ppm	-0.0002 ppm	-0.0006 ppm
Concentration per Run 1	-0.0008 ppm	0.0001 ppm	0.0027 ppm	0.0015 ppm	0.0001 ppm	-0.0002 ppm	-0.0028 ppm
Concentration per Run 2	-0.0006 ppm	0.0002 ppm	0.0030 ppm	-0.0006 ppm	-0.0003 ppm	0.0003 ppm	0.0014 ppm
Concentration per Run 3	0.0006 ppm	0.0003 ppm	0.0029 ppm	0.0017 ppm	-0.0001 ppm	-0.0006 ppm	-0.0004 ppm
Recovery Percentage 1	-0.279 %	1.730 %	5.696 %	0.042 %	-0.365 %	-1.664 %	-1.189 %
Concentration RSD	274.0 %	50.6 %	5.4 %	148.9 %	248.0 %	276.9 %	357.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	0.0034 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0024 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	0.0016 ppm	0.0044 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 3	0.0010 ppm	0.0034 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm
Recovery Percentage 1	8.136 %	0.676 %	0.192 %	0.018 %	4.225 %	-0.845 %	0.330 %
Concentration RSD	106.2 %	29.1 %	323.5 %	1,683.2 %	29.2 %	77.7 %	220.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0006 ppm	100.2146 %	99.6680 %	98.5168 %	100.4769 %	99.8464 %	98.8013 %
Concentration per Run 1	-0.0006 ppm	100.3186 %	98.5543 %	98.2371 %	100.4241 %	98.6287 %	98.4747 %
Concentration per Run 2	-0.0006 ppm	100.1532 %	99.3711 %	98.5349 %	100.5416 %	99.4748 %	98.4619 %
Concentration per Run 3	-0.0006 ppm	100.1719 %	101.0785 %	98.7784 %	100.4652 %	101.4357 %	99.4673 %
Recovery Percentage 1	-11.532 %						
Concentration RSD	4.6 %	0.1 %	1.3 %	0.3 %	0.1 %	1.4 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539739-03d2 WG2084191
 Analysis started at: 6/27/2025 12:42:51 PM
 Rack: 1
 Vial: 23
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0006 ppm	32.6628 ppm	0.0566 ppm	0.0059 ppm	0.2268 ppm	0.0024 ppm	1.8551 ppm
Concentration per Run 1	0.0005 ppm	32.6206 ppm	0.0555 ppm	0.0072 ppm	0.2275 ppm	0.0024 ppm	1.8641 ppm
Concentration per Run 2	0.0005 ppm	32.6664 ppm	0.0564 ppm	0.0060 ppm	0.2262 ppm	0.0024 ppm	1.8286 ppm
Concentration per Run 3	0.0007 ppm	32.7014 ppm	0.0578 ppm	0.0046 ppm	0.2266 ppm	0.0024 ppm	1.8726 ppm
Concentration RSD	17.0 %	0.1 %	2.0 %	21.3 %	0.3 %	0.3 %	1.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0011 ppm	0.0117 ppm	0.0479 ppm	0.0560 ppm	49.7690 ppm	2.2904 ppm	0.0228 ppm
Concentration per Run 1	0.0011 ppm	0.0119 ppm	0.0481 ppm	0.0563 ppm	49.7057 ppm	2.2724 ppm	0.0228 ppm
Concentration per Run 2	0.0011 ppm	0.0119 ppm	0.0482 ppm	0.0554 ppm	49.5346 ppm	2.2970 ppm	0.0228 ppm
Concentration per Run 3	0.0010 ppm	0.0114 ppm	0.0473 ppm	0.0562 ppm	50.0667 ppm	2.3017 ppm	0.0229 ppm
Concentration RSD	4.1 %	2.4 %	1.1 %	0.9 %	0.5 %	0.7 %	0.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.2309 ppm	1.7383 ppm	0.0030 ppm	0.1202 ppm	0.0269 ppm	0.1199 ppm	0.0052 ppm
Concentration per Run 1	3.2354 ppm	1.7438 ppm	0.0031 ppm	0.1151 ppm	0.0275 ppm	0.1188 ppm	0.0044 ppm
Concentration per Run 2	3.2450 ppm	1.7186 ppm	0.0032 ppm	0.1243 ppm	0.0271 ppm	0.1204 ppm	0.0034 ppm
Concentration per Run 3	3.2125 ppm	1.7526 ppm	0.0026 ppm	0.1212 ppm	0.0261 ppm	0.1206 ppm	0.0077 ppm
Concentration RSD	0.5 %	1.0 %	11.4 %	3.9 %	2.6 %	0.8 %	43.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0021 ppm	14.4853 ppm	0.0068 ppm	0.0168 ppm	0.6487 ppm	-0.0014 ppm	0.0872 ppm
Concentration per Run 1	0.0031 ppm	14.4761 ppm	0.0063 ppm	0.0169 ppm	0.6463 ppm	-0.0007 ppm	0.0876 ppm
Concentration per Run 2	0.0019 ppm	14.4354 ppm	0.0076 ppm	0.0165 ppm	0.6367 ppm	-0.0018 ppm	0.0867 ppm
Concentration per Run 3	0.0014 ppm	14.5445 ppm	0.0065 ppm	0.0170 ppm	0.6629 ppm	-0.0018 ppm	0.0874 ppm
Concentration RSD	40.3 %	0.4 %	10.2 %	1.5 %	2.0 %	46.4 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1799 ppm	100.6084 %	100.5563 %	95.4918 %	102.8946 %	104.6899 %	102.8283 %
Concentration per Run 1	0.1804 ppm	100.7150 %	100.7823 %	95.7772 %	102.6647 %	104.9438 %	103.2501 %
Concentration per Run 2	0.1820 ppm	99.6989 %	101.3628 %	95.4904 %	102.9601 %	104.5701 %	102.8035 %
Concentration per Run 3	0.1775 ppm	101.4112 %	99.5238 %	95.2079 %	103.0589 %	104.5560 %	102.4314 %
Concentration RSD	1.3 %	0.9 %	0.9 %	0.3 %	0.2 %	0.2 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: xL2539739-04d2 WG2084191
 Analysis started at: 6/27/2025 12:46:11 PM
 Rack: 1
 Vial: 24
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	∞ ppm	25.3317 ppm	0.0202 ppm	∞ [SIC 50]	0.1313 ppm	0.0014 ppm	1.0874 ppm
Concentration per Run 1	∞ ppm	25.4133 ppm	0.0213 ppm	∞ ppm	0.1316 ppm	0.0014 ppm	1.0834 ppm
Concentration per Run 2	0.0000 ppm	25.3379 ppm	0.0190 ppm	0.0041 ppm	0.1318 ppm	0.0014 ppm	1.0968 ppm
Concentration per Run 3	0.0002 ppm	25.2439 ppm	0.0201 ppm	0.0056 ppm	0.1305 ppm	0.0014 ppm	1.0821 ppm
Concentration RSD		0.3 %	5.8 %		0.6 %	1.0 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	∞ ppm	∞ ppm	∞ ppm	0.0249 ppm	39.5876 ppm	1.5606 ppm	0.0177 ppm
Concentration per Run 1	∞ ppm	∞ ppm	∞ ppm	0.0291 ppm	39.5767 ppm	1.5603 ppm	0.0179 ppm
Concentration per Run 2	0.0004 ppm	0.0068 ppm	0.0445 ppm	0.0228 ppm	39.6984 ppm	1.5666 ppm	0.0173 ppm
Concentration per Run 3	0.0005 ppm	0.0065 ppm	0.0444 ppm	0.0228 ppm	39.4875 ppm	1.5549 ppm	0.0178 ppm
Concentration RSD				14.6 %	0.3 %	0.4 %	1.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	∞ [SIC 700]	0.2934 ppm	∞ [SIC 20]	0.0904 ppm	∞ [SIC 20]	0.0400 ppm	-0.0007 ppm
Concentration per Run 1	∞ ppm	0.2938 ppm	∞ ppm	0.0912 ppm	∞ ppm	0.0399 ppm	-0.0023 ppm
Concentration per Run 2	2.8398 ppm	0.2937 ppm	0.0018 ppm	0.0955 ppm	0.0182 ppm	0.0404 ppm	-0.0005 ppm
Concentration per Run 3	2.8349 ppm	0.2928 ppm	0.0019 ppm	0.0844 ppm	0.0186 ppm	0.0398 ppm	0.0007 ppm
Concentration RSD		0.2 %		6.2 %		0.8 %	215.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0006 ppm	∞ ppm	∞ [SIC 20]	0.0098 ppm	∞ ppm	-0.0001 ppm	0.0627 ppm
Concentration per Run 1	0.0007 ppm	∞ ppm	∞ ppm	0.0097 ppm	∞ ppm	-0.0005 ppm	0.0626 ppm
Concentration per Run 2	0.0007 ppm	13.8231 ppm	0.0034 ppm	0.0101 ppm	0.5905 ppm	0.0003 ppm	0.0631 ppm
Concentration per Run 3	0.0005 ppm	13.3253 ppm	0.0038 ppm	0.0097 ppm	0.5644 ppm	-0.0002 ppm	0.0624 ppm
Concentration RSD	20.5 %			2.4 %		266.7 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	∞ [SIC 50]	67.6694 %	101.9201 %	96.8385 %	102.1829 %	101.7638 %	100.5154 %
Concentration per Run 1	∞ ppm	0.0000 %	101.8588 %	96.9345 %	101.4664 %	101.8713 %	100.4976 %
Concentration per Run 2	0.1115 ppm	101.2628 %	101.3712 %	96.4655 %	102.3442 %	101.3453 %	100.4229 %
Concentration per Run 3	0.1109 ppm	101.7456 %	102.5302 %	97.1156 %	102.7381 %	102.0749 %	100.6258 %
Concentration RSD		86.6 %	0.6 %	0.3 %	0.6 %	0.4 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539742-02d2 WG2084191
 Analysis started at: 6/27/2025 12:49:25 PM
 Rack: 1
 Vial: 25
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	24.4818 ppm	0.0361 ppm	0.0046 ppm	0.2299 ppm	0.0020 ppm	4.4648 ppm
Concentration per Run 1	-0.0003 ppm	24.3895 ppm	0.0367 ppm	0.0047 ppm	0.2296 ppm	0.0020 ppm	4.4479 ppm
Concentration per Run 2	0.0002 ppm	24.4803 ppm	0.0358 ppm	0.0045 ppm	0.2290 ppm	0.0020 ppm	4.4656 ppm
Concentration per Run 3	0.0000 ppm	24.5756 ppm	0.0357 ppm	0.0045 ppm	0.2311 ppm	0.0020 ppm	4.4809 ppm
Concentration RSD	676.0 %	0.4 %	1.6 %	1.9 %	0.5 %	0.6 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0018 ppm	0.0099 ppm	0.0680 ppm	0.0523 ppm	48.2066 ppm	1.9867 ppm	0.0193 ppm
Concentration per Run 1	0.0019 ppm	0.0099 ppm	0.0674 ppm	0.0523 ppm	48.2080 ppm	1.9533 ppm	0.0194 ppm
Concentration per Run 2	0.0019 ppm	0.0098 ppm	0.0676 ppm	0.0522 ppm	48.2715 ppm	2.0009 ppm	0.0191 ppm
Concentration per Run 3	0.0018 ppm	0.0100 ppm	0.0689 ppm	0.0525 ppm	48.1405 ppm	2.0060 ppm	0.0196 ppm
Concentration RSD	3.2 %	1.1 %	1.2 %	0.3 %	0.1 %	1.5 %	1.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.2158 ppm	0.7194 ppm	0.0020 ppm	0.1341 ppm	0.0243 ppm	0.4964 ppm	0.0043 ppm
Concentration per Run 1	3.2095 ppm	0.7180 ppm	0.0017 ppm	0.1378 ppm	0.0238 ppm	0.4952 ppm	0.0043 ppm
Concentration per Run 2	3.2149 ppm	0.7203 ppm	0.0019 ppm	0.1328 ppm	0.0250 ppm	0.4965 ppm	0.0036 ppm
Concentration per Run 3	3.2232 ppm	0.7200 ppm	0.0024 ppm	0.1318 ppm	0.0241 ppm	0.4976 ppm	0.0049 ppm
Concentration RSD	0.2 %	0.2 %	18.3 %	2.4 %	2.5 %	0.2 %	15.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0007 ppm	10.7361 ppm	0.0199 ppm	0.0205 ppm	0.6275 ppm	0.0001 ppm	0.0864 ppm
Concentration per Run 1	0.0012 ppm	10.6972 ppm	0.0195 ppm	0.0203 ppm	0.6285 ppm	-0.0005 ppm	0.0866 ppm
Concentration per Run 2	0.0015 ppm	10.7448 ppm	0.0188 ppm	0.0206 ppm	0.6293 ppm	0.0011 ppm	0.0867 ppm
Concentration per Run 3	-0.0004 ppm	10.7664 ppm	0.0212 ppm	0.0204 ppm	0.6247 ppm	-0.0003 ppm	0.0860 ppm
Concentration RSD	138.9 %	0.3 %	6.1 %	0.7 %	0.4 %	1,435.9 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2321 ppm	100.5665 %	102.2330 %	95.6462 %	102.6579 %	104.9614 %	101.5672 %
Concentration per Run 1	0.2302 ppm	101.0514 %	102.2281 %	95.5679 %	103.0175 %	104.5800 %	101.5787 %
Concentration per Run 2	0.2323 ppm	100.5510 %	102.4426 %	95.2434 %	103.1240 %	105.1500 %	101.2747 %
Concentration per Run 3	0.2337 ppm	100.0969 %	102.0281 %	96.1274 %	101.8322 %	105.1542 %	101.8484 %
Concentration RSD	0.8 %	0.5 %	0.2 %	0.5 %	0.7 %	0.3 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539742-03d2 WG2084191
 Analysis started at: 6/27/2025 12:52:36 PM
 Rack: 1
 Vial: 26
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	19.0699 ppm	0.0313 ppm	0.0048 ppm	0.2044 ppm	0.0015 ppm	3.9578 ppm
Concentration per Run 1	-0.0001 ppm	19.0291 ppm	0.0306 ppm	0.0037 ppm	0.2041 ppm	0.0016 ppm	3.9570 ppm
Concentration per Run 2	0.0005 ppm	19.0978 ppm	0.0315 ppm	0.0060 ppm	0.2049 ppm	0.0016 ppm	3.9547 ppm
Concentration per Run 3	0.0001 ppm	19.0829 ppm	0.0318 ppm	0.0047 ppm	0.2042 ppm	0.0015 ppm	3.9615 ppm
Concentration RSD	168.5 %	0.2 %	2.0 %	24.2 %	0.2 %	1.0 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0017 ppm	0.0085 ppm	0.0557 ppm	0.0542 ppm	38.7281 ppm	2.0827 ppm	0.0161 ppm
Concentration per Run 1	0.0017 ppm	0.0084 ppm	0.0558 ppm	0.0539 ppm	38.7264 ppm	2.0890 ppm	0.0168 ppm
Concentration per Run 2	0.0018 ppm	0.0087 ppm	0.0554 ppm	0.0543 ppm	38.6932 ppm	2.0769 ppm	0.0155 ppm
Concentration per Run 3	0.0017 ppm	0.0083 ppm	0.0559 ppm	0.0544 ppm	38.7647 ppm	2.0820 ppm	0.0160 ppm
Concentration RSD	3.2 %	2.5 %	0.5 %	0.4 %	0.1 %	0.3 %	4.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.6351 ppm	0.7039 ppm	0.0017 ppm	0.1682 ppm	0.0313 ppm	0.4744 ppm	0.0067 ppm
Concentration per Run 1	2.6510 ppm	0.7023 ppm	0.0018 ppm	0.1668 ppm	0.0315 ppm	0.4743 ppm	0.0050 ppm
Concentration per Run 2	2.6339 ppm	0.7031 ppm	0.0017 ppm	0.1689 ppm	0.0311 ppm	0.4750 ppm	0.0070 ppm
Concentration per Run 3	2.6205 ppm	0.7063 ppm	0.0016 ppm	0.1690 ppm	0.0313 ppm	0.4738 ppm	0.0082 ppm
Concentration RSD	0.6 %	0.3 %	6.8 %	0.7 %	0.7 %	0.1 %	24.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0007 ppm	13.8249 ppm	0.0179 ppm	0.0171 ppm	0.6558 ppm	-0.0005 ppm	0.0875 ppm
Concentration per Run 1	0.0020 ppm	13.8324 ppm	0.0181 ppm	0.0171 ppm	0.6442 ppm	-0.0009 ppm	0.0873 ppm
Concentration per Run 2	0.0003 ppm	13.7908 ppm	0.0173 ppm	0.0170 ppm	0.6674 ppm	-0.0002 ppm	0.0877 ppm
Concentration per Run 3	0.0000 ppm	13.8513 ppm	0.0183 ppm	0.0171 ppm	0.6557 ppm	-0.0004 ppm	0.0875 ppm
Concentration RSD	148.5 %	0.2 %	3.0 %	0.3 %	1.8 %	74.6 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2181 ppm	100.5512 %	101.4053 %	96.6963 %	102.6410 %	103.9652 %	102.4434 %
Concentration per Run 1	0.2202 ppm	99.8625 %	101.4672 %	97.0468 %	102.4527 %	103.7531 %	102.7707 %
Concentration per Run 2	0.2177 ppm	100.7647 %	101.0215 %	97.2418 %	102.6569 %	103.9861 %	102.9922 %
Concentration per Run 3	0.2165 ppm	101.0263 %	101.7273 %	95.8004 %	102.8134 %	104.1563 %	101.5674 %
Concentration RSD	0.9 %	0.6 %	0.4 %	0.8 %	0.2 %	0.2 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539742-04d2 WG2084191
 Analysis started at: 6/27/2025 12:55:47 PM
 Rack: 1
 Vial: 27
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0002 ppm	21.1465 ppm	0.0226 ppm	0.0035 ppm	0.1286 ppm	0.0012 ppm	1.2051 ppm
Concentration per Run 1	0.0000 ppm	21.1072 ppm	0.0218 ppm	0.0037 ppm	0.1280 ppm	0.0013 ppm	1.2077 ppm
Concentration per Run 2	-0.0004 ppm	21.1421 ppm	0.0221 ppm	0.0019 ppm	0.1284 ppm	0.0012 ppm	1.2084 ppm
Concentration per Run 3	-0.0001 ppm	21.1904 ppm	0.0240 ppm	0.0050 ppm	0.1292 ppm	0.0012 ppm	1.1993 ppm
Concentration RSD	131.2 %	0.2 %	5.2 %	42.7 %	0.5 %	1.8 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0007 ppm	0.0067 ppm	0.0425 ppm	0.0322 ppm	37.3360 ppm	1.5475 ppm	0.0168 ppm
Concentration per Run 1	0.0007 ppm	0.0067 ppm	0.0426 ppm	0.0321 ppm	37.4523 ppm	1.5428 ppm	0.0167 ppm
Concentration per Run 2	0.0007 ppm	0.0069 ppm	0.0422 ppm	0.0322 ppm	37.2517 ppm	1.5304 ppm	0.0168 ppm
Concentration per Run 3	0.0006 ppm	0.0064 ppm	0.0428 ppm	0.0323 ppm	37.3039 ppm	1.5693 ppm	0.0169 ppm
Concentration RSD	12.0 %	3.8 %	0.7 %	0.3 %	0.3 %	1.3 %	0.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.5354 ppm	0.2197 ppm	0.0017 ppm	0.0932 ppm	0.0196 ppm	0.0266 ppm	0.0012 ppm
Concentration per Run 1	2.5339 ppm	0.2201 ppm	0.0016 ppm	0.0955 ppm	0.0202 ppm	0.0264 ppm	-0.0018 ppm
Concentration per Run 2	2.5384 ppm	0.2200 ppm	0.0020 ppm	0.0912 ppm	0.0193 ppm	0.0264 ppm	0.0032 ppm
Concentration per Run 3	2.5339 ppm	0.2191 ppm	0.0016 ppm	0.0930 ppm	0.0194 ppm	0.0271 ppm	0.0022 ppm
Concentration RSD	0.1 %	0.2 %	13.2 %	2.3 %	2.4 %	1.6 %	219.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0022 ppm	12.1287 ppm	0.0047 ppm	0.0102 ppm	0.5384 ppm	-0.0007 ppm	0.0608 ppm
Concentration per Run 1	0.0025 ppm	12.5941 ppm	0.0054 ppm	0.0100 ppm	0.5450 ppm	0.0000 ppm	0.0604 ppm
Concentration per Run 2	0.0029 ppm	11.9688 ppm	0.0039 ppm	0.0104 ppm	0.5359 ppm	-0.0008 ppm	0.0612 ppm
Concentration per Run 3	0.0011 ppm	11.8234 ppm	0.0049 ppm	0.0102 ppm	0.5342 ppm	-0.0014 ppm	0.0608 ppm
Concentration RSD	43.5 %	3.4 %	15.7 %	1.6 %	1.1 %	96.4 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1304 ppm	101.0273 %	102.1290 %	96.3727 %	102.1426 %	103.4454 %	100.7017 %
Concentration per Run 1	0.1315 ppm	100.6047 %	101.3734 %	96.7072 %	102.6346 %	102.7566 %	100.8789 %
Concentration per Run 2	0.1300 ppm	101.0969 %	102.4702 %	96.6310 %	101.4662 %	103.7945 %	101.4767 %
Concentration per Run 3	0.1298 ppm	101.3804 %	102.5433 %	95.7799 %	102.3270 %	103.7851 %	99.7496 %
Concentration RSD	0.7 %	0.4 %	0.6 %	0.5 %	0.6 %	0.6 %	0.9 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539742-05d2 WG2084191
 Analysis started at: 6/27/2025 12:58:58 PM
 Rack: 1
 Vial: 28
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	22.6008 ppm	0.0341 ppm	0.0064 ppm	0.1984 ppm	0.0016 ppm	4.9508 ppm
Concentration per Run 1	0.0002 ppm	22.4925 ppm	0.0350 ppm	0.0065 ppm	0.1979 ppm	0.0016 ppm	4.9162 ppm
Concentration per Run 2	0.0000 ppm	22.6775 ppm	0.0336 ppm	0.0065 ppm	0.1982 ppm	0.0016 ppm	4.9942 ppm
Concentration per Run 3	0.0001 ppm	22.6324 ppm	0.0338 ppm	0.0061 ppm	0.1990 ppm	0.0016 ppm	4.9421 ppm
Concentration RSD	114.9 %	0.4 %	2.2 %	4.1 %	0.3 %	0.4 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0015 ppm	0.0091 ppm	0.0564 ppm	0.0626 ppm	43.9812 ppm	2.2503 ppm	0.0195 ppm
Concentration per Run 1	0.0015 ppm	0.0093 ppm	0.0566 ppm	0.0618 ppm	43.7559 ppm	2.2574 ppm	0.0198 ppm
Concentration per Run 2	0.0015 ppm	0.0092 ppm	0.0564 ppm	0.0627 ppm	44.2210 ppm	2.2256 ppm	0.0195 ppm
Concentration per Run 3	0.0015 ppm	0.0089 ppm	0.0562 ppm	0.0632 ppm	43.9666 ppm	2.2678 ppm	0.0194 ppm
Concentration RSD	2.3 %	2.3 %	0.3 %	1.1 %	0.5 %	1.0 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.3258 ppm	0.6711 ppm	0.0028 ppm	0.1369 ppm	0.0252 ppm	2.2205 ppm	0.0136 ppm
Concentration per Run 1	3.3291 ppm	0.6685 ppm	0.0027 ppm	0.1380 ppm	0.0251 ppm	2.2207 ppm	0.0132 ppm
Concentration per Run 2	3.3257 ppm	0.6724 ppm	0.0029 ppm	0.1368 ppm	0.0252 ppm	2.2235 ppm	0.0137 ppm
Concentration per Run 3	3.3227 ppm	0.6724 ppm	0.0027 ppm	0.1359 ppm	0.0254 ppm	2.2175 ppm	0.0138 ppm
Concentration RSD	0.1 %	0.3 %	3.1 %	0.8 %	0.5 %	0.1 %	2.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0015 ppm	11.1890 ppm	0.0138 ppm	0.0258 ppm	0.5799 ppm	-0.0007 ppm	0.0816 ppm
Concentration per Run 1	-0.0001 ppm	11.2245 ppm	0.0142 ppm	0.0262 ppm	0.5853 ppm	-0.0003 ppm	0.0806 ppm
Concentration per Run 2	0.0013 ppm	11.1988 ppm	0.0135 ppm	0.0257 ppm	0.5842 ppm	-0.0020 ppm	0.0817 ppm
Concentration per Run 3	0.0032 ppm	11.1438 ppm	0.0137 ppm	0.0256 ppm	0.5703 ppm	0.0004 ppm	0.0824 ppm
Concentration RSD	111.7 %	0.4 %	2.6 %	1.3 %	1.4 %	186.4 %	1.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2452 ppm	100.8088 %	102.1719 %	96.0195 %	102.5061 %	104.7391 %	101.9569 %
Concentration per Run 1	0.2459 ppm	100.5554 %	103.1004 %	95.8093 %	103.3213 %	105.4168 %	101.9945 %
Concentration per Run 2	0.2448 ppm	100.6707 %	100.7054 %	96.0603 %	101.6714 %	103.8247 %	102.1526 %
Concentration per Run 3	0.2450 ppm	101.2002 %	102.7099 %	96.1888 %	102.5256 %	104.9757 %	101.7237 %
Concentration RSD	0.2 %	0.3 %	1.3 %	0.2 %	0.8 %	0.8 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539742-06d2 WG2084191
 Analysis started at: 6/27/2025 1:02:09 PM
 Rack: 1
 Vial: 29
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	21.1045 ppm	0.0351 ppm	0.0074 ppm	0.2118 ppm	0.0015 ppm	5.5640 ppm
Concentration per Run 1	0.0004 ppm	21.0881 ppm	0.0351 ppm	0.0072 ppm	0.2121 ppm	0.0015 ppm	5.5376 ppm
Concentration per Run 2	0.0001 ppm	21.0916 ppm	0.0358 ppm	0.0077 ppm	0.2115 ppm	0.0015 ppm	5.6062 ppm
Concentration per Run 3	0.0002 ppm	21.1337 ppm	0.0343 ppm	0.0071 ppm	0.2116 ppm	0.0015 ppm	5.5482 ppm
Concentration RSD	63.7 %	0.1 %	2.1 %	4.0 %	0.1 %	1.6 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0032 ppm	0.0101 ppm	0.0606 ppm	0.1025 ppm	84.3455 ppm	2.1043 ppm	0.0181 ppm
Concentration per Run 1	0.0031 ppm	0.0102 ppm	0.0608 ppm	0.1027 ppm	84.3550 ppm	2.1180 ppm	0.0182 ppm
Concentration per Run 2	0.0032 ppm	0.0102 ppm	0.0603 ppm	0.1019 ppm	84.8097 ppm	2.0895 ppm	0.0184 ppm
Concentration per Run 3	0.0034 ppm	0.0098 ppm	0.0607 ppm	0.1030 ppm	83.8716 ppm	2.1055 ppm	0.0177 ppm
Concentration RSD	4.7 %	2.1 %	0.4 %	0.5 %	0.6 %	0.7 %	1.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.0853 ppm	0.8736 ppm	0.0040 ppm	0.1530 ppm	0.0338 ppm	1.0287 ppm	0.0112 ppm
Concentration per Run 1	3.0927 ppm	0.8727 ppm	0.0039 ppm	0.1542 ppm	0.0335 ppm	1.0307 ppm	0.0111 ppm
Concentration per Run 2	3.0904 ppm	0.8773 ppm	0.0039 ppm	0.1527 ppm	0.0344 ppm	1.0308 ppm	0.0109 ppm
Concentration per Run 3	3.0728 ppm	0.8707 ppm	0.0041 ppm	0.1520 ppm	0.0335 ppm	1.0245 ppm	0.0117 ppm
Concentration RSD	0.4 %	0.4 %	3.2 %	0.7 %	1.6 %	0.4 %	3.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0007 ppm	10.8076 ppm	0.0185 ppm	0.0259 ppm	0.5456 ppm	-0.0007 ppm	0.0834 ppm
Concentration per Run 1	0.0003 ppm	10.8039 ppm	0.0190 ppm	0.0262 ppm	0.5444 ppm	-0.0009 ppm	0.0840 ppm
Concentration per Run 2	0.0017 ppm	10.7909 ppm	0.0178 ppm	0.0258 ppm	0.5502 ppm	-0.0006 ppm	0.0828 ppm
Concentration per Run 3	0.0000 ppm	10.8280 ppm	0.0187 ppm	0.0258 ppm	0.5421 ppm	-0.0005 ppm	0.0835 ppm
Concentration RSD	145.4 %	0.2 %	3.5 %	1.0 %	0.8 %	33.9 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3224 ppm	100.9837 %	102.2815 %	94.7817 %	102.3323 %	104.9537 %	100.7794 %
Concentration per Run 1	0.3230 ppm	100.9637 %	102.3058 %	94.1912 %	101.8519 %	104.5581 %	100.2036 %
Concentration per Run 2	0.3230 ppm	100.9699 %	101.5586 %	95.1862 %	103.1145 %	104.7657 %	101.2787 %
Concentration per Run 3	0.3213 ppm	101.0175 %	102.9800 %	94.9677 %	102.0306 %	105.5373 %	100.8558 %
Concentration RSD	0.3 %	0.0 %	0.7 %	0.6 %	0.7 %	0.5 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539826-01d2 WG2084191
 Analysis started at: 6/27/2025 1:05:21 PM
 Rack: 1
 Vial: 30
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	38.8393 ppm	0.0858 ppm	0.0004 ppm	0.1226 ppm	0.0016 ppm	3.7153 ppm
Concentration per Run 1	-0.0007 ppm	38.7118 ppm	0.0849 ppm	0.0008 ppm	0.1224 ppm	0.0016 ppm	3.6948 ppm
Concentration per Run 2	-0.0001 ppm	38.8503 ppm	0.0862 ppm	0.0008 ppm	0.1225 ppm	0.0017 ppm	3.7142 ppm
Concentration per Run 3	-0.0002 ppm	38.9558 ppm	0.0862 ppm	-0.0002 ppm	0.1230 ppm	0.0016 ppm	3.7368 ppm
Concentration RSD	90.3 %	0.3 %	0.9 %	126.7 %	0.3 %	4.7 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0005 ppm	0.0132 ppm	0.0346 ppm	0.0309 ppm	41.7859 ppm	6.4201 ppm	0.0483 ppm
Concentration per Run 1	0.0004 ppm	0.0130 ppm	0.0345 ppm	0.0309 ppm	41.6392 ppm	6.4310 ppm	0.0491 ppm
Concentration per Run 2	0.0005 ppm	0.0134 ppm	0.0346 ppm	0.0308 ppm	41.8399 ppm	6.4118 ppm	0.0477 ppm
Concentration per Run 3	0.0005 ppm	0.0132 ppm	0.0347 ppm	0.0309 ppm	41.8786 ppm	6.4175 ppm	0.0481 ppm
Concentration RSD	17.8 %	1.4 %	0.3 %	0.1 %	0.3 %	0.2 %	1.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	6.9889 ppm	0.5142 ppm	0.0022 ppm	1.7774 ppm	0.0295 ppm	0.0290 ppm	0.0001 ppm
Concentration per Run 1	7.0049 ppm	0.5150 ppm	0.0023 ppm	1.7743 ppm	0.0298 ppm	0.0285 ppm	-0.0004 ppm
Concentration per Run 2	6.9831 ppm	0.5124 ppm	0.0022 ppm	1.7789 ppm	0.0292 ppm	0.0293 ppm	0.0017 ppm
Concentration per Run 3	6.9787 ppm	0.5152 ppm	0.0022 ppm	1.7791 ppm	0.0295 ppm	0.0292 ppm	-0.0010 ppm
Concentration RSD	0.2 %	0.3 %	3.5 %	0.2 %	1.1 %	1.4 %	1,445.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0012 ppm	19.6401 ppm	0.0062 ppm	0.0233 ppm	1.8503 ppm	-0.0012 ppm	0.0465 ppm
Concentration per Run 1	0.0007 ppm	19.8668 ppm	0.0061 ppm	0.0232 ppm	1.8554 ppm	-0.0002 ppm	0.0466 ppm
Concentration per Run 2	0.0007 ppm	19.6333 ppm	0.0060 ppm	0.0231 ppm	1.8485 ppm	-0.0017 ppm	0.0466 ppm
Concentration per Run 3	0.0021 ppm	19.4202 ppm	0.0066 ppm	0.0235 ppm	1.8470 ppm	-0.0016 ppm	0.0462 ppm
Concentration RSD	69.0 %	1.1 %	4.8 %	0.9 %	0.2 %	73.5 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0851 ppm	101.4529 %	102.9517 %	94.6068 %	105.9015 %	108.1805 %	104.0404 %
Concentration per Run 1	0.0857 ppm	101.7051 %	103.6050 %	94.4036 %	106.4340 %	108.6299 %	103.9434 %
Concentration per Run 2	0.0848 ppm	101.8828 %	102.9466 %	95.0449 %	106.0908 %	108.0687 %	104.3023 %
Concentration per Run 3	0.0847 ppm	100.7708 %	102.3034 %	94.3719 %	105.1796 %	107.8430 %	103.8756 %
Concentration RSD	0.7 %	0.6 %	0.6 %	0.4 %	0.6 %	0.4 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539998-01d2 WG2084191
 Analysis started at: 6/27/2025 1:08:33 PM
 Rack: 1
 Vial: 31
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	27.0457 ppm	0.0106 ppm	0.0046 ppm	0.0692 ppm	0.0007 ppm	10.8446 ppm
Concentration per Run 1	-0.0001 ppm	27.0551 ppm	0.0123 ppm	0.0048 ppm	0.0692 ppm	0.0007 ppm	10.8877 ppm
Concentration per Run 2	-0.0001 ppm	27.0432 ppm	0.0090 ppm	0.0051 ppm	0.0693 ppm	0.0007 ppm	10.7802 ppm
Concentration per Run 3	0.0001 ppm	27.0389 ppm	0.0105 ppm	0.0039 ppm	0.0690 ppm	0.0008 ppm	10.8658 ppm
Concentration RSD	206.4 %	0.0 %	16.0 %	13.3 %	0.2 %	3.4 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0005 ppm	0.0042 ppm	0.0470 ppm	0.0373 ppm	39.0732 ppm	1.2161 ppm	0.0128 ppm
Concentration per Run 1	0.0005 ppm	0.0045 ppm	0.0470 ppm	0.0370 ppm	39.0514 ppm	1.2012 ppm	0.0129 ppm
Concentration per Run 2	0.0006 ppm	0.0036 ppm	0.0473 ppm	0.0376 ppm	39.1074 ppm	1.2314 ppm	0.0127 ppm
Concentration per Run 3	0.0005 ppm	0.0043 ppm	0.0466 ppm	0.0371 ppm	39.0607 ppm	1.2156 ppm	0.0129 ppm
Concentration RSD	15.7 %	10.9 %	0.7 %	0.9 %	0.1 %	1.2 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.3223 ppm	0.1429 ppm	0.0027 ppm	0.1705 ppm	0.0140 ppm	0.1010 ppm	0.0011 ppm
Concentration per Run 1	2.3249 ppm	0.1437 ppm	0.0028 ppm	0.1775 ppm	0.0140 ppm	0.1004 ppm	0.0031 ppm
Concentration per Run 2	2.3269 ppm	0.1422 ppm	0.0028 ppm	0.1679 ppm	0.0144 ppm	0.1014 ppm	-0.0010 ppm
Concentration per Run 3	2.3150 ppm	0.1428 ppm	0.0025 ppm	0.1662 ppm	0.0137 ppm	0.1013 ppm	0.0014 ppm
Concentration RSD	0.3 %	0.5 %	5.9 %	3.6 %	2.5 %	0.5 %	177.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0029 ppm	12.5653 ppm	0.0055 ppm	0.0862 ppm	0.8368 ppm	-0.0013 ppm	0.0604 ppm
Concentration per Run 1	0.0041 ppm	12.5640 ppm	0.0056 ppm	0.0866 ppm	0.8332 ppm	-0.0013 ppm	0.0601 ppm
Concentration per Run 2	0.0018 ppm	12.5310 ppm	0.0055 ppm	0.0862 ppm	0.8260 ppm	-0.0010 ppm	0.0609 ppm
Concentration per Run 3	0.0027 ppm	12.6009 ppm	0.0055 ppm	0.0858 ppm	0.8511 ppm	-0.0017 ppm	0.0603 ppm
Concentration RSD	40.6 %	0.3 %	1.5 %	0.5 %	1.5 %	24.8 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0910 ppm	100.5712 %	102.2843 %	95.6819 %	100.5656 %	102.5964 %	99.5569 %
Concentration per Run 1	0.0909 ppm	99.7533 %	101.6593 %	95.1239 %	100.1294 %	102.1922 %	99.0218 %
Concentration per Run 2	0.0914 ppm	100.5520 %	102.5577 %	95.9404 %	100.1760 %	102.7028 %	99.8402 %
Concentration per Run 3	0.0906 ppm	101.4083 %	102.6359 %	95.9814 %	101.3913 %	102.8943 %	99.8086 %
Concentration RSD	0.5 %	0.8 %	0.5 %	0.5 %	0.7 %	0.4 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084191-6d10 WG2084191
 Analysis started at: 6/27/2025 1:11:46 PM
 Rack: 1
 Vial: 39
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	4.7187 ppm	0.0073 ppm	0.0008 ppm	0.0433 ppm	0.0004 ppm	0.8266 ppm
Concentration per Run 1	0.0001 ppm	4.7322 ppm	0.0078 ppm	0.0012 ppm	0.0435 ppm	0.0004 ppm	0.8238 ppm
Concentration per Run 2	0.0002 ppm	4.7384 ppm	0.0067 ppm	0.0009 ppm	0.0433 ppm	0.0004 ppm	0.8303 ppm
Concentration per Run 3	0.0003 ppm	4.6854 ppm	0.0074 ppm	0.0004 ppm	0.0430 ppm	0.0004 ppm	0.8258 ppm
Concentration RSD	49.7 %	0.6 %	7.7 %	44.1 %	0.6 %	2.4 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0004 ppm	0.0023 ppm	0.0141 ppm	0.0116 ppm	11.3158 ppm	0.4366 ppm	0.0045 ppm
Concentration per Run 1	0.0003 ppm	0.0025 ppm	0.0143 ppm	0.0119 ppm	11.3149 ppm	0.4468 ppm	0.0046 ppm
Concentration per Run 2	0.0004 ppm	0.0021 ppm	0.0139 ppm	0.0116 ppm	11.3441 ppm	0.4363 ppm	0.0050 ppm
Concentration per Run 3	0.0005 ppm	0.0023 ppm	0.0140 ppm	0.0114 ppm	11.2883 ppm	0.4268 ppm	0.0039 ppm
Concentration RSD	15.6 %	7.8 %	1.5 %	2.0 %	0.2 %	2.3 %	13.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.6891 ppm	0.1622 ppm	0.0005 ppm	0.0292 ppm	0.0059 ppm	0.0922 ppm	0.0010 ppm
Concentration per Run 1	0.6933 ppm	0.1624 ppm	0.0001 ppm	0.0296 ppm	0.0059 ppm	0.0921 ppm	0.0019 ppm
Concentration per Run 2	0.6867 ppm	0.1630 ppm	0.0004 ppm	0.0297 ppm	0.0060 ppm	0.0926 ppm	0.0029 ppm
Concentration per Run 3	0.6874 ppm	0.1614 ppm	0.0010 ppm	0.0282 ppm	0.0059 ppm	0.0919 ppm	-0.0019 ppm
Concentration RSD	0.5 %	0.5 %	83.5 %	3.0 %	1.2 %	0.4 %	263.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0002 ppm	2.4818 ppm	0.0033 ppm	0.0040 ppm	0.1362 ppm	-0.0009 ppm	0.0184 ppm
Concentration per Run 1	0.0019 ppm	2.5710 ppm	0.0035 ppm	0.0040 ppm	0.1406 ppm	-0.0003 ppm	0.0181 ppm
Concentration per Run 2	-0.0015 ppm	2.3894 ppm	0.0037 ppm	0.0039 ppm	0.1335 ppm	-0.0009 ppm	0.0186 ppm
Concentration per Run 3	-0.0012 ppm	2.4850 ppm	0.0029 ppm	0.0040 ppm	0.1344 ppm	-0.0014 ppm	0.0184 ppm
Concentration RSD	749.6 %	3.7 %	12.2 %	1.3 %	2.9 %	60.2 %	1.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0533 ppm	101.9757 %	101.3123 %	99.9008 %	101.2462 %	101.2328 %	100.5678 %
Concentration per Run 1	0.0534 ppm	102.0936 %	101.4338 %	100.2149 %	101.3977 %	101.4835 %	101.1757 %
Concentration per Run 2	0.0532 ppm	101.6622 %	101.6308 %	99.6626 %	100.9453 %	101.7716 %	100.0975 %
Concentration per Run 3	0.0534 ppm	102.1712 %	100.8722 %	99.8250 %	101.3958 %	100.4433 %	100.4303 %
Concentration RSD	0.3 %	0.3 %	0.4 %	0.3 %	0.3 %	0.7 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
 Analysis started at: 6/27/2025 1:14:57 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5347 ppm	0.4885 ppm	0.4768 ppm	0.4982 ppm	0.5021 ppm	0.5020 ppm	0.4979 ppm
Concentration per Run 1	0.5357 ppm	0.4916 ppm	0.4781 ppm	0.4961 ppm	0.5013 ppm	0.5034 ppm	0.4997 ppm
Concentration per Run 2	0.5339 ppm	0.4869 ppm	0.4765 ppm	0.5032 ppm	0.5020 ppm	0.5013 ppm	0.4945 ppm
Concentration per Run 3	0.5344 ppm	0.4871 ppm	0.4760 ppm	0.4954 ppm	0.5029 ppm	0.5013 ppm	0.4995 ppm
Recovery Percentage 1	106.932 %	97.702 %	95.369 %	99.647 %	100.412 %	100.403 %	99.583 %
Concentration RSD	0.2 %	0.5 %	0.2 %	0.9 %	0.2 %	0.2 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4802 ppm	0.5006 ppm	0.5189 ppm	0.5019 ppm	0.5054 ppm	5.1869 ppm	0.5259 ppm
Concentration per Run 1	0.4797 ppm	0.5014 ppm	0.5181 ppm	0.5059 ppm	0.5075 ppm	5.1396 ppm	0.5185 ppm
Concentration per Run 2	0.4814 ppm	0.5015 ppm	0.5211 ppm	0.4994 ppm	0.5046 ppm	5.1899 ppm	0.5270 ppm
Concentration per Run 3	0.4794 ppm	0.4989 ppm	0.5175 ppm	0.5004 ppm	0.5039 ppm	5.2312 ppm	0.5324 ppm
Recovery Percentage 1	96.030 %	100.125 %	103.778 %	100.382 %	101.075 %	103.738 %	105.188 %
Concentration RSD	0.2 %	0.3 %	0.4 %	0.7 %	0.4 %	0.9 %	1.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5172 ppm	0.4993 ppm	0.5067 ppm	10.3702 ppm	0.5210 ppm	0.5071 ppm	0.4973 ppm
Concentration per Run 1	0.5184 ppm	0.4996 ppm	0.5059 ppm	10.3157 ppm	0.5194 ppm	0.5081 ppm	0.5003 ppm
Concentration per Run 2	0.5161 ppm	0.4984 ppm	0.5067 ppm	10.3761 ppm	0.5260 ppm	0.5057 ppm	0.5000 ppm
Concentration per Run 3	0.5170 ppm	0.4999 ppm	0.5075 ppm	10.4189 ppm	0.5177 ppm	0.5077 ppm	0.4918 ppm
Recovery Percentage 1	103.432 %	99.861 %	101.338 %	103.702 %	104.203 %	101.428 %	99.467 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.5 %	0.9 %	0.3 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4901 ppm	5.4029 ppm	0.5131 ppm	0.5065 ppm	0.5160 ppm	0.5123 ppm	0.4928 ppm
Concentration per Run 1	0.4929 ppm	5.3860 ppm	0.5098 ppm	0.5074 ppm	0.5153 ppm	0.5120 ppm	0.4959 ppm
Concentration per Run 2	0.4894 ppm	5.4033 ppm	0.5145 ppm	0.5071 ppm	0.5167 ppm	0.5138 ppm	0.4924 ppm
Concentration per Run 3	0.4879 ppm	5.4193 ppm	0.5152 ppm	0.5051 ppm	0.5160 ppm	0.5110 ppm	0.4902 ppm
Recovery Percentage 1	98.014 %	102.912 %	102.630 %	101.304 %	103.201 %	102.450 %	98.570 %
Concentration RSD	0.5 %	0.3 %	0.6 %	0.2 %	0.1 %	0.3 %	0.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5114 ppm	100.6001 %	101.1090 %	98.3537 %	99.1977 %	100.2056 %	97.6071 %
Concentration per Run 1	0.5107 ppm	101.2228 %	100.4066 %	98.5822 %	99.2057 %	99.4975 %	97.7590 %
Concentration per Run 2	0.5138 ppm	100.0997 %	102.1270 %	97.9903 %	98.7166 %	101.0299 %	97.2811 %
Concentration per Run 3	0.5097 ppm	100.4778 %	100.7933 %	98.4886 %	99.6709 %	100.0895 %	97.7811 %
Recovery Percentage 1	102.277 %						
Concentration RSD	0.4 %	0.6 %	0.9 %	0.3 %	0.5 %	0.8 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 1:18:10 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0007 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0039 ppm	0.0004 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 2	0.0002 ppm	0.0012 ppm	-0.0004 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0049 ppm	0.0004 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm
Recovery Percentage 1	1.828 %	0.730 %	2.961 %	-1.381 %	-0.055 %	0.494 %	-0.487 %
Concentration RSD	94.2 %	607.0 %	347.5 %	30.2 %	1,012.4 %	27.3 %	181.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0013 ppm	0.0033 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0006 ppm	0.0132 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0019 ppm	0.0054 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0013 ppm	-0.0087 ppm	0.0004 ppm
Recovery Percentage 1	0.085 %	0.365 %	2.773 %	0.548 %	2.535 %	0.132 %	7.681 %
Concentration RSD	537.1 %	110.1 %	92.2 %	395.7 %	49.0 %	335.3 %	74.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0026 ppm	-0.0011 ppm	0.0005 ppm	0.0002 ppm	0.0008 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	0.0027 ppm	-0.0033 ppm	0.0006 ppm	0.0005 ppm	0.0022 ppm
Concentration per Run 2	-0.0002 ppm	0.0002 ppm	0.0027 ppm	-0.0023 ppm	0.0007 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	0.0025 ppm	0.0024 ppm	0.0002 ppm	0.0002 ppm	-0.0017 ppm
Recovery Percentage 1	0.087 %	1.812 %	5.277 %	-0.054 %	2.081 %	2.063 %	1.691 %
Concentration RSD	295.4 %	37.6 %	6.1 %	287.1 %	56.8 %	135.1 %	263.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0003 ppm	0.0063 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0005 ppm	0.0110 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0039 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0014 ppm	0.0041 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	2.640 %	1.266 %	-0.276 %	0.118 %	2.754 %	-1.625 %	-0.164 %
Concentration RSD	376.2 %	63.5 %	127.3 %	148.1 %	53.3 %	121.6 %	207.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	100.3805 %	100.8068 %	98.7169 %	101.1419 %	101.0982 %	99.4959 %
Concentration per Run 1	-0.0005 ppm	101.0730 %	101.5676 %	98.9341 %	101.6243 %	101.6985 %	99.6528 %
Concentration per Run 2	-0.0005 ppm	100.1083 %	100.5308 %	98.7296 %	101.2852 %	100.9509 %	99.5102 %
Concentration per Run 3	-0.0004 ppm	99.9601 %	100.3219 %	98.4871 %	100.5162 %	100.6453 %	99.3248 %
Recovery Percentage 1	-9.999 %						
Concentration RSD	14.6 %	0.6 %	0.7 %	0.2 %	0.6 %	0.5 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539998-03d2 WG2084191
 Analysis started at: 6/27/2025 1:24:10 PM
 Rack: 1
 Vial: 33
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0002 ppm	36.4072 ppm	0.0134 ppm	0.0050 ppm	0.1110 ppm	0.0008 ppm	22.5950 ppm
Concentration per Run 1	-0.0003 ppm	36.4134 ppm	0.0144 ppm	0.0048 ppm	0.1103 ppm	0.0008 ppm	22.6208 ppm
Concentration per Run 2	0.0000 ppm	36.4922 ppm	0.0135 ppm	0.0046 ppm	0.1109 ppm	0.0008 ppm	22.7555 ppm
Concentration per Run 3	-0.0003 ppm	36.3162 ppm	0.0123 ppm	0.0056 ppm	0.1119 ppm	0.0009 ppm	22.4086 ppm
Concentration RSD	104.4 %	0.2 %	8.0 %	10.2 %	0.7 %	2.8 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0009 ppm	0.0063 ppm	0.0569 ppm	0.0614 ppm	49.9899 ppm	1.5424 ppm	0.0210 ppm
Concentration per Run 1	0.0008 ppm	0.0063 ppm	0.0559 ppm	0.0618 ppm	49.9948 ppm	1.5454 ppm	0.0209 ppm
Concentration per Run 2	0.0010 ppm	0.0064 ppm	0.0580 ppm	0.0611 ppm	50.0047 ppm	1.5216 ppm	0.0208 ppm
Concentration per Run 3	0.0009 ppm	0.0063 ppm	0.0566 ppm	0.0613 ppm	49.9703 ppm	1.5603 ppm	0.0213 ppm
Concentration RSD	10.3 %	0.5 %	1.9 %	0.6 %	0.0 %	1.3 %	1.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.6086 ppm	0.2613 ppm	0.0044 ppm	0.1863 ppm	0.0196 ppm	0.1538 ppm	0.0009 ppm
Concentration per Run 1	3.5849 ppm	0.2617 ppm	0.0043 ppm	0.1884 ppm	0.0194 ppm	0.1544 ppm	0.0010 ppm
Concentration per Run 2	3.6281 ppm	0.2626 ppm	0.0039 ppm	0.1854 ppm	0.0198 ppm	0.1534 ppm	0.0000 ppm
Concentration per Run 3	3.6128 ppm	0.2595 ppm	0.0049 ppm	0.1851 ppm	0.0195 ppm	0.1536 ppm	0.0016 ppm
Concentration RSD	0.6 %	0.6 %	11.2 %	1.0 %	0.9 %	0.4 %	89.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0030 ppm	12.7261 ppm	0.0063 ppm	0.1848 ppm	1.1151 ppm	-0.0001 ppm	0.0760 ppm
Concentration per Run 1	0.0038 ppm	12.5373 ppm	0.0071 ppm	0.1847 ppm	1.1149 ppm	-0.0007 ppm	0.0758 ppm
Concentration per Run 2	0.0020 ppm	12.8994 ppm	0.0061 ppm	0.1838 ppm	1.1110 ppm	-0.0001 ppm	0.0760 ppm
Concentration per Run 3	0.0030 ppm	12.7417 ppm	0.0058 ppm	0.1858 ppm	1.1193 ppm	0.0007 ppm	0.0761 ppm
Concentration RSD	30.2 %	1.4 %	10.4 %	0.5 %	0.4 %	1,234.7 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5247 ppm	100.9028 %	103.1240 %	95.1710 %	101.6044 %	103.9391 %	100.6947 %
Concentration per Run 1	0.5156 ppm	101.5139 %	102.7213 %	94.9907 %	101.4077 %	103.3748 %	100.6288 %
Concentration per Run 2	0.5301 ppm	100.2955 %	103.4380 %	95.3322 %	101.4654 %	104.8921 %	100.8254 %
Concentration per Run 3	0.5282 ppm	100.8991 %	103.2127 %	95.1900 %	101.9402 %	103.5505 %	100.6300 %
Concentration RSD	1.5 %	0.6 %	0.4 %	0.2 %	0.3 %	0.8 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2540101-01d2 WG2084191
 Analysis started at: 6/27/2025 1:27:26 PM
 Rack: 1
 Vial: 34
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0010 ppm	61.5941 ppm	0.0705 ppm	0.0146 ppm	0.1883 ppm	0.0032 ppm	219.6515 ppm
Concentration per Run 1	-0.0011 ppm	61.6626 ppm	0.0691 ppm	0.0170 ppm	0.1881 ppm	0.0031 ppm	216.8242 ppm
Concentration per Run 2	-0.0010 ppm	61.8435 ppm	0.0727 ppm	0.0131 ppm	0.1882 ppm	0.0032 ppm	218.5629 ppm
Concentration per Run 3	-0.0010 ppm	61.2763 ppm	0.0697 ppm	0.0138 ppm	0.1887 ppm	0.0032 ppm	223.5675 ppm
Concentration RSD	8.1 %	0.5 %	2.7 %	14.2 %	0.2 %	0.9 %	1.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0009 ppm	0.0904 ppm	0.0849 ppm	0.2342 ppm	159.0515 ppm	5.2697 ppm	0.1623 ppm
Concentration per Run 1	0.0009 ppm	0.0906 ppm	0.0848 ppm	0.2345 ppm	157.7736 ppm	5.2864 ppm	0.1616 ppm
Concentration per Run 2	0.0010 ppm	0.0904 ppm	0.0848 ppm	0.2341 ppm	158.1622 ppm	5.2447 ppm	0.1624 ppm
Concentration per Run 3	0.0009 ppm	0.0903 ppm	0.0850 ppm	0.2340 ppm	161.2188 ppm	5.2781 ppm	0.1628 ppm
Concentration RSD	6.1 %	0.2 %	0.1 %	0.1 %	1.2 %	0.4 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	64.1878 ppm	4.8606 ppm	0.0046 ppm	1.4805 ppm	0.1669 ppm	0.2640 ppm	-0.0009 ppm
Concentration per Run 1	64.3720 ppm	4.8267 ppm	0.0048 ppm	1.4805 ppm	0.1665 ppm	0.2648 ppm	0.0014 ppm
Concentration per Run 2	63.8930 ppm	4.8488 ppm	0.0048 ppm	1.4882 ppm	0.1673 ppm	0.2649 ppm	-0.0037 ppm
Concentration per Run 3	64.2985 ppm	4.9062 ppm	0.0044 ppm	1.4727 ppm	0.1670 ppm	0.2623 ppm	-0.0005 ppm
Concentration RSD	0.4 %	0.8 %	5.0 %	0.5 %	0.2 %	0.6 %	270.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0002 ppm	29.9968 [SIC 200]	0.0046 ppm	0.5521 ppm	0.4847 ppm	-0.0028 ppm	0.0725 ppm
Concentration per Run 1	0.0014 ppm	30.1302 ppm	0.0044 ppm	0.5537 ppm	0.4778 ppm	-0.0026 ppm	0.0725 ppm
Concentration per Run 2	-0.0011 ppm	29.9115 ppm	0.0044 ppm	0.5540 ppm	0.4873 ppm	-0.0025 ppm	0.0725 ppm
Concentration per Run 3	-0.0010 ppm	29.9488 ppm	0.0051 ppm	0.5486 ppm	0.4890 ppm	-0.0034 ppm	0.0725 ppm
Concentration RSD	568.1 %	0.4 %	8.3 %	0.5 %	1.2 %	17.6 %	0.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4873 ppm	96.7069 %	99.9354 %	84.4706 %	112.4230 %	117.7946 %	110.4218 %
Concentration per Run 1	0.4879 ppm	96.4533 %	101.4131 %	84.1860 %	111.9858 %	118.2369 %	110.0118 %
Concentration per Run 2	0.4838 ppm	97.1441 %	101.3553 %	84.8788 %	113.0569 %	120.4646 %	110.7702 %
Concentration per Run 3	0.4901 ppm	96.5234 %	97.0377 %	84.3470 %	112.2263 %	114.6824 %	110.4833 %
Concentration RSD	0.7 %	0.4 %	2.5 %	0.4 %	0.5 %	2.5 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2540101-02d2 WG2084191
 Analysis started at: 6/27/2025 1:30:40 PM
 Rack: 1
 Vial: 35
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0018 ppm	101.8152 ppm	0.0681 ppm	0.0181 ppm	0.1706 ppm	0.0047 ppm	17.5995 ppm
Concentration per Run 1	0.0020 ppm	101.5175 ppm	0.0694 ppm	0.0188 ppm	0.1700 ppm	0.0047 ppm	17.5902 ppm
Concentration per Run 2	0.0016 ppm	101.5877 ppm	0.0673 ppm	0.0178 ppm	0.1707 ppm	0.0047 ppm	17.5427 ppm
Concentration per Run 3	0.0018 ppm	102.3404 ppm	0.0676 ppm	0.0176 ppm	0.1712 ppm	0.0047 ppm	17.6657 ppm
Concentration RSD	12.0 %	0.4 %	1.7 %	3.7 %	0.3 %	0.3 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0034 ppm	0.1139 ppm	0.1421 ppm	0.3474 ppm	233.1289 ppm	7.4954 ppm	0.2580 ppm
Concentration per Run 1	0.0035 ppm	0.1141 ppm	0.1423 ppm	0.3474 ppm	232.6172 ppm	7.4021 ppm	0.2561 ppm
Concentration per Run 2	0.0035 ppm	0.1142 ppm	0.1427 ppm	0.3469 ppm	233.1493 ppm	7.5563 ppm	0.2607 ppm
Concentration per Run 3	0.0034 ppm	0.1133 ppm	0.1413 ppm	0.3479 ppm	233.6203 ppm	7.5278 ppm	0.2571 ppm
Concentration RSD	1.2 %	0.4 %	0.5 %	0.1 %	0.2 %	1.1 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	56.0241 ppm	1.6456 ppm	0.0052 ppm	1.9245 ppm	0.2362 ppm	0.1482 ppm	-0.0067 ppm
Concentration per Run 1	56.3199 ppm	1.6409 ppm	0.0047 ppm	1.9026 ppm	0.2364 ppm	0.1480 ppm	-0.0072 ppm
Concentration per Run 2	56.1765 ppm	1.6483 ppm	0.0055 ppm	1.9361 ppm	0.2382 ppm	0.1473 ppm	-0.0053 ppm
Concentration per Run 3	55.5759 ppm	1.6477 ppm	0.0055 ppm	1.9348 ppm	0.2341 ppm	0.1492 ppm	-0.0076 ppm
Concentration RSD	0.7 %	0.3 %	8.3 %	1.0 %	0.9 %	0.6 %	18.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0048 ppm	39.4706 [SIC 200]	0.0059 ppm	0.1063 ppm	0.9150 ppm	0.0003 ppm	0.1130 ppm
Concentration per Run 1	0.0044 ppm	40.0807 ppm	0.0060 ppm	0.1061 ppm	0.9191 ppm	0.0001 ppm	0.1136 ppm
Concentration per Run 2	0.0033 ppm	39.7896 ppm	0.0062 ppm	0.1062 ppm	0.9445 ppm	0.0008 ppm	0.1130 ppm
Concentration per Run 3	0.0065 ppm	38.5415 ppm	0.0055 ppm	0.1066 ppm	0.8815 ppm	0.0001 ppm	0.1124 ppm
Concentration RSD	34.8 %	2.1 %	6.1 %	0.2 %	3.5 %	106.5 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7094 ppm	102.3928 %	102.3929 %	89.9669 %	115.2466 %	125.4453 %	121.8629 %
Concentration per Run 1	0.7102 ppm	102.4042 %	102.4272 %	90.3090 %	115.3846 %	125.4267 %	122.0340 %
Concentration per Run 2	0.7166 ppm	102.1468 %	102.1628 %	90.1101 %	115.3033 %	124.5888 %	122.1071 %
Concentration per Run 3	0.7014 ppm	102.6275 %	102.5887 %	89.4815 %	115.0521 %	126.3206 %	121.4474 %
Concentration RSD	1.1 %	0.2 %	0.2 %	0.5 %	0.2 %	0.7 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2540101-03d2 WG2084191
 Analysis started at: 6/27/2025 1:33:53 PM
 Rack: 1
 Vial: 36
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0014 ppm	103.2372 ppm	0.0571 ppm	0.0112 ppm	0.6403 ppm	0.0059 ppm	59.7959 ppm
Concentration per Run 1	-0.0014 ppm	102.3295 ppm	0.0572 ppm	0.0103 ppm	0.6364 ppm	0.0059 ppm	59.4394 ppm
Concentration per Run 2	-0.0014 ppm	103.9624 ppm	0.0578 ppm	0.0129 ppm	0.6474 ppm	0.0060 ppm	60.0725 ppm
Concentration per Run 3	-0.0013 ppm	103.4199 ppm	0.0563 ppm	0.0105 ppm	0.6372 ppm	0.0060 ppm	59.8757 ppm
Concentration RSD	3.8 %	0.8 %	1.3 %	12.6 %	1.0 %	0.4 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0031 ppm	0.1351 ppm	0.1456 ppm	0.2604 ppm	204.9151 ppm	6.1542 ppm	0.2375 ppm
Concentration per Run 1	0.0031 ppm	0.1348 ppm	0.1458 ppm	0.2594 ppm	204.5652 ppm	6.0482 ppm	0.2333 ppm
Concentration per Run 2	0.0030 ppm	0.1348 ppm	0.1460 ppm	0.2607 ppm	206.3669 ppm	6.2756 ppm	0.2434 ppm
Concentration per Run 3	0.0031 ppm	0.1357 ppm	0.1449 ppm	0.2612 ppm	203.8130 ppm	6.1388 ppm	0.2359 ppm
Concentration RSD	1.7 %	0.4 %	0.4 %	0.4 %	0.6 %	1.9 %	2.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	43.8107 ppm	5.3353 ppm	0.0042 ppm	2.9244 ppm	0.2596 ppm	0.3756 ppm	-0.0007 ppm
Concentration per Run 1	43.9148 ppm	5.3159 ppm	0.0045 ppm	2.8855 ppm	0.2596 ppm	0.3757 ppm	0.0002 ppm
Concentration per Run 2	43.9568 ppm	5.3489 ppm	0.0043 ppm	2.9748 ppm	0.2608 ppm	0.3745 ppm	-0.0002 ppm
Concentration per Run 3	43.5606 ppm	5.3412 ppm	0.0037 ppm	2.9127 ppm	0.2585 ppm	0.3766 ppm	-0.0021 ppm
Concentration RSD	0.5 %	0.3 %	9.7 %	1.6 %	0.4 %	0.3 %	169.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0023 ppm	27.9857 [SIC 200]	0.0066 ppm	0.2297 ppm	0.7439 ppm	-0.0018 ppm	0.1149 ppm
Concentration per Run 1	-0.0002 ppm	28.0405 ppm	0.0070 ppm	0.2279 ppm	0.7469 ppm	-0.0013 ppm	0.1152 ppm
Concentration per Run 2	0.0029 ppm	28.3906 ppm	0.0061 ppm	0.2312 ppm	0.7773 ppm	-0.0025 ppm	0.1145 ppm
Concentration per Run 3	0.0044 ppm	27.5260 ppm	0.0066 ppm	0.2301 ppm	0.7076 ppm	-0.0017 ppm	0.1149 ppm
Concentration RSD	101.1 %	1.6 %	6.9 %	0.7 %	4.7 %	33.4 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9645 ppm	101.9643 %	105.9120 %	90.3878 %	130.4304 %	137.7565 %	129.5781 %
Concentration per Run 1	0.9659 ppm	102.5226 %	105.9600 %	90.7729 %	130.6120 %	136.7980 %	130.5052 %
Concentration per Run 2	0.9716 ppm	101.2085 %	105.7895 %	90.2174 %	129.8253 %	138.4857 %	128.7114 %
Concentration per Run 3	0.9560 ppm	102.1617 %	105.9866 %	90.1732 %	130.8538 %	137.9858 %	129.5176 %
Concentration RSD	0.8 %	0.7 %	0.1 %	0.4 %	0.4 %	0.6 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2540101-04d2 WG2084191
 Analysis started at: 6/27/2025 1:37:07 PM
 Rack: 1
 Vial: 37
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0011 ppm	91.3242 ppm	0.0603 ppm	0.0139 ppm	0.4933 ppm	0.0051 ppm	63.0612 ppm
Concentration per Run 1	-0.0008 ppm	91.1127 ppm	0.0590 ppm	0.0150 ppm	0.4913 ppm	0.0051 ppm	62.9529 ppm
Concentration per Run 2	-0.0016 ppm	91.6148 ppm	0.0609 ppm	0.0139 ppm	0.4961 ppm	0.0051 ppm	62.3549 ppm
Concentration per Run 3	-0.0007 ppm	91.2450 ppm	0.0609 ppm	0.0128 ppm	0.4925 ppm	0.0051 ppm	63.8757 ppm
Concentration RSD	46.3 %	0.3 %	1.8 %	7.8 %	0.5 %	0.2 %	1.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0026 ppm	0.0935 ppm	0.1305 ppm	0.1896 ppm	170.5284 ppm	5.5565 ppm	0.2085 ppm
Concentration per Run 1	0.0026 ppm	0.0939 ppm	0.1311 ppm	0.1905 ppm	170.1218 ppm	5.5369 ppm	0.2082 ppm
Concentration per Run 2	0.0027 ppm	0.0933 ppm	0.1298 ppm	0.1891 ppm	169.1034 ppm	5.6113 ppm	0.2109 ppm
Concentration per Run 3	0.0025 ppm	0.0933 ppm	0.1308 ppm	0.1892 ppm	172.3599 ppm	5.5213 ppm	0.2063 ppm
Concentration RSD	4.5 %	0.4 %	0.5 %	0.4 %	1.0 %	0.9 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	39.8843 ppm	2.9527 ppm	0.0036 ppm	3.1817 ppm	0.2008 ppm	0.2757 ppm	-0.0014 ppm
Concentration per Run 1	39.9733 ppm	2.9456 ppm	0.0040 ppm	3.1884 ppm	0.2010 ppm	0.2762 ppm	-0.0014 ppm
Concentration per Run 2	39.8678 ppm	2.9300 ppm	0.0034 ppm	3.2147 ppm	0.1990 ppm	0.2757 ppm	-0.0009 ppm
Concentration per Run 3	39.8119 ppm	2.9825 ppm	0.0035 ppm	3.1418 ppm	0.2024 ppm	0.2751 ppm	-0.0021 ppm
Concentration RSD	0.2 %	0.9 %	9.3 %	1.2 %	0.8 %	0.2 %	41.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0009 ppm	25.9890 [SIC 200]	0.0069 ppm	0.2322 ppm	0.7303 ppm	-0.0019 ppm	0.1085 ppm
Concentration per Run 1	0.0019 ppm	26.8978 ppm	0.0071 ppm	0.2320 ppm	0.7578 ppm	-0.0026 ppm	0.1089 ppm
Concentration per Run 2	0.0018 ppm	25.8042 ppm	0.0071 ppm	0.2332 ppm	0.7276 ppm	-0.0018 ppm	0.1086 ppm
Concentration per Run 3	-0.0011 ppm	25.2650 ppm	0.0064 ppm	0.2313 ppm	0.7055 ppm	-0.0015 ppm	0.1079 ppm
Concentration RSD	190.1 %	3.2 %	6.0 %	0.4 %	3.6 %	29.2 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8508 ppm	100.3332 %	104.2611 %	89.3417 %	124.6483 %	130.4724 %	123.2302 %
Concentration per Run 1	0.8540 ppm	99.4458 %	104.6819 %	89.7207 %	123.1865 %	130.6849 %	123.5079 %
Concentration per Run 2	0.8460 ppm	100.5955 %	105.2555 %	88.8935 %	125.4708 %	131.3638 %	122.8332 %
Concentration per Run 3	0.8526 ppm	100.9583 %	102.8459 %	89.4109 %	125.2877 %	129.3683 %	123.3494 %
Concentration RSD	0.5 %	0.8 %	1.2 %	0.5 %	1.0 %	0.8 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2540101-05d2 WG2084191
 Analysis started at: 6/27/2025 1:40:18 PM
 Rack: 1
 Vial: 38
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0017 ppm	120.9424 ppm	0.1382 ppm	0.0289 ppm	0.6167 ppm	0.0060 ppm	156.4767 ppm
Concentration per Run 1	0.0015 ppm	121.6678 ppm	0.1377 ppm	0.0287 ppm	0.6169 ppm	0.0060 ppm	157.3297 ppm
Concentration per Run 2	0.0017 ppm	120.6162 ppm	0.1377 ppm	0.0296 ppm	0.6171 ppm	0.0060 ppm	156.0587 ppm
Concentration per Run 3	0.0018 ppm	120.5433 ppm	0.1391 ppm	0.0285 ppm	0.6160 ppm	0.0060 ppm	156.0418 ppm
Concentration RSD	10.5 %	0.5 %	0.6 %	2.0 %	0.1 %	0.4 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0037 ppm	0.1172 ppm	0.1648 ppm	0.2463 ppm	247.0921 ppm	11.1502 ppm	0.2778 ppm
Concentration per Run 1	0.0036 ppm	0.1174 ppm	0.1657 ppm	0.2468 ppm	247.8086 ppm	11.2853 ppm	0.2807 ppm
Concentration per Run 2	0.0038 ppm	0.1174 ppm	0.1639 ppm	0.2473 ppm	246.4469 ppm	11.0529 ppm	0.2728 ppm
Concentration per Run 3	0.0036 ppm	0.1167 ppm	0.1649 ppm	0.2447 ppm	247.0207 ppm	11.1123 ppm	0.2798 ppm
Concentration RSD	3.3 %	0.4 %	0.6 %	0.6 %	0.3 %	1.1 %	1.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	58.6201 ppm	7.4050 ppm	0.0028 ppm	2.5576 ppm	0.2583 ppm	0.1997 ppm	-0.0064 ppm
Concentration per Run 1	58.5413 ppm	7.4339 ppm	0.0030 ppm	2.5843 ppm	0.2589 ppm	0.2004 ppm	-0.0083 ppm
Concentration per Run 2	58.6980 ppm	7.3788 ppm	0.0026 ppm	2.5207 ppm	0.2581 ppm	0.1984 ppm	-0.0048 ppm
Concentration per Run 3	58.6209 ppm	7.4021 ppm	0.0029 ppm	2.5677 ppm	0.2579 ppm	0.2002 ppm	-0.0061 ppm
Concentration RSD	0.1 %	0.4 %	8.4 %	1.3 %	0.2 %	0.5 %	27.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0017 ppm	49.4809 [SIC 200]	0.0070 ppm	0.6761 ppm	1.1900 ppm	-0.0041 ppm	0.1409 ppm
Concentration per Run 1	0.0011 ppm	50.2124 ppm	0.0075 ppm	0.6764 ppm	1.2010 ppm	-0.0047 ppm	0.1408 ppm
Concentration per Run 2	-0.0024 ppm	49.6659 ppm	0.0066 ppm	0.6781 ppm	1.1998 ppm	-0.0032 ppm	0.1414 ppm
Concentration per Run 3	-0.0040 ppm	48.5645 ppm	0.0069 ppm	0.6737 ppm	1.1692 ppm	-0.0043 ppm	0.1407 ppm
Concentration RSD	149.1 %	1.7 %	6.2 %	0.3 %	1.5 %	20.0 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7199 ppm	100.4465 %	101.9262 %	84.0425 %	120.0613 %	131.8681 %	123.1530 %
Concentration per Run 1	0.7187 ppm	100.4643 %	101.0392 %	84.5689 %	119.9677 %	131.7928 %	124.1441 %
Concentration per Run 2	0.7220 ppm	100.6564 %	103.0651 %	84.3624 %	119.4766 %	132.5782 %	122.7402 %
Concentration per Run 3	0.7191 ppm	100.2186 %	101.6742 %	83.1963 %	120.7396 %	131.2332 %	122.5747 %
Concentration RSD	0.3 %	0.2 %	1.0 %	0.9 %	0.5 %	0.5 %	0.7 %

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6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539998-02d2 WG2084191
 Analysis started at: 6/27/2025 1:43:30 PM
 Rack: 1
 Vial: 32
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	28.6829 ppm	0.0104 ppm	0.0049 ppm	0.0777 ppm	0.0007 ppm	9.9323 ppm
Concentration per Run 1	-0.0001 ppm	28.5886 ppm	0.0098 ppm	0.0051 ppm	0.0773 ppm	0.0007 ppm	9.9655 ppm
Concentration per Run 2	0.0001 ppm	28.7372 ppm	0.0112 ppm	0.0049 ppm	0.0777 ppm	0.0007 ppm	9.9280 ppm
Concentration per Run 3	0.0000 ppm	28.7229 ppm	0.0102 ppm	0.0047 ppm	0.0780 ppm	0.0007 ppm	9.9034 ppm
Concentration RSD	599.7 %	0.3 %	7.1 %	4.7 %	0.5 %	3.2 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0006 ppm	0.0032 ppm	0.0470 ppm	0.0360 ppm	40.8120 ppm	1.3596 ppm	0.0140 ppm
Concentration per Run 1	0.0006 ppm	0.0032 ppm	0.0477 ppm	0.0365 ppm	40.6773 ppm	1.3377 ppm	0.0144 ppm
Concentration per Run 2	0.0007 ppm	0.0033 ppm	0.0468 ppm	0.0359 ppm	40.7402 ppm	1.3825 ppm	0.0141 ppm
Concentration per Run 3	0.0006 ppm	0.0031 ppm	0.0464 ppm	0.0356 ppm	41.0186 ppm	1.3587 ppm	0.0136 ppm
Concentration RSD	4.7 %	2.7 %	1.4 %	1.4 %	0.4 %	1.6 %	2.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	1.6848 ppm	0.1497 ppm	0.0036 ppm	0.2395 ppm	0.0143 ppm	0.3106 ppm	0.0018 ppm
Concentration per Run 1	1.7020 ppm	0.1499 ppm	0.0037 ppm	0.2358 ppm	0.0145 ppm	0.3099 ppm	0.0044 ppm
Concentration per Run 2	1.6800 ppm	0.1495 ppm	0.0035 ppm	0.2416 ppm	0.0142 ppm	0.3089 ppm	0.0014 ppm
Concentration per Run 3	1.6724 ppm	0.1496 ppm	0.0035 ppm	0.2409 ppm	0.0143 ppm	0.3131 ppm	-0.0006 ppm
Concentration RSD	0.9 %	0.2 %	4.5 %	1.3 %	1.3 %	0.7 %	143.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0018 ppm	13.2502 ppm	0.0058 ppm	0.0779 ppm	0.9148 ppm	-0.0006 ppm	0.0640 ppm
Concentration per Run 1	0.0010 ppm	13.3493 ppm	0.0066 ppm	0.0776 ppm	0.9259 ppm	-0.0011 ppm	0.0645 ppm
Concentration per Run 2	0.0031 ppm	13.3032 ppm	0.0061 ppm	0.0779 ppm	0.9225 ppm	0.0003 ppm	0.0641 ppm
Concentration per Run 3	0.0012 ppm	13.0982 ppm	0.0048 ppm	0.0783 ppm	0.8960 ppm	-0.0009 ppm	0.0636 ppm
Concentration RSD	65.2 %	1.0 %	16.3 %	0.4 %	1.8 %	131.0 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1383 ppm	100.8903 %	102.3479 %	95.8944 %	101.0655 %	102.8555 %	99.8860 %
Concentration per Run 1	0.1400 ppm	99.6874 %	102.6333 %	95.9601 %	99.4383 %	103.4323 %	99.9036 %
Concentration per Run 2	0.1374 ppm	101.8223 %	102.2837 %	95.7490 %	102.0757 %	102.9770 %	99.5472 %
Concentration per Run 3	0.1376 ppm	101.1612 %	102.1268 %	95.9740 %	101.6823 %	102.1570 %	100.2072 %
Concentration RSD	1.0 %	1.1 %	0.3 %	0.1 %	1.4 %	0.6 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539739-04d2 WG2084191
 Analysis started at: 6/27/2025 1:48:44 PM
 Rack: 1
 Vial: 40
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	24.6359 ppm	0.0191 ppm	0.0028 ppm	0.1272 ppm	0.0014 ppm	1.0926 ppm
Concentration per Run 1	-0.0004 ppm	24.7038 ppm	0.0195 ppm	0.0036 ppm	0.1272 ppm	0.0014 ppm	1.0939 ppm
Concentration per Run 2	-0.0003 ppm	24.5231 ppm	0.0186 ppm	0.0020 ppm	0.1266 ppm	0.0014 ppm	1.0900 ppm
Concentration per Run 3	-0.0001 ppm	24.6807 ppm	0.0191 ppm	0.0028 ppm	0.1279 ppm	0.0014 ppm	1.0938 ppm
Concentration RSD	72.1 %	0.4 %	2.4 %	29.6 %	0.5 %	1.3 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0004 ppm	0.0064 ppm	0.0438 ppm	0.0231 ppm	39.3677 ppm	1.3720 ppm	0.0167 ppm
Concentration per Run 1	0.0004 ppm	0.0064 ppm	0.0433 ppm	0.0231 ppm	39.2361 ppm	1.3734 ppm	0.0165 ppm
Concentration per Run 2	0.0004 ppm	0.0066 ppm	0.0443 ppm	0.0230 ppm	39.4537 ppm	1.3745 ppm	0.0165 ppm
Concentration per Run 3	0.0005 ppm	0.0061 ppm	0.0438 ppm	0.0231 ppm	39.4134 ppm	1.3682 ppm	0.0171 ppm
Concentration RSD	6.4 %	3.8 %	1.2 %	0.2 %	0.3 %	0.2 %	2.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.7584 ppm	0.2936 ppm	0.0017 ppm	0.0667 ppm	0.0181 ppm	0.0395 ppm	0.0014 ppm
Concentration per Run 1	2.7484 ppm	0.2934 ppm	0.0016 ppm	0.0628 ppm	0.0177 ppm	0.0401 ppm	-0.0003 ppm
Concentration per Run 2	2.7729 ppm	0.2934 ppm	0.0019 ppm	0.0657 ppm	0.0185 ppm	0.0390 ppm	0.0038 ppm
Concentration per Run 3	2.7540 ppm	0.2941 ppm	0.0017 ppm	0.0715 ppm	0.0181 ppm	0.0394 ppm	0.0006 ppm
Concentration RSD	0.5 %	0.1 %	9.9 %	6.7 %	2.0 %	1.4 %	158.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0012 ppm	10.1763 ppm	0.0039 ppm	0.0090 ppm	0.4775 ppm	-0.0006 ppm	0.0617 ppm
Concentration per Run 1	0.0002 ppm	10.1478 ppm	0.0032 ppm	0.0090 ppm	0.4771 ppm	-0.0011 ppm	0.0619 ppm
Concentration per Run 2	0.0009 ppm	10.2521 ppm	0.0050 ppm	0.0091 ppm	0.4866 ppm	0.0005 ppm	0.0616 ppm
Concentration per Run 3	0.0026 ppm	10.1290 ppm	0.0033 ppm	0.0090 ppm	0.4687 ppm	-0.0011 ppm	0.0617 ppm
Concentration RSD	97.9 %	0.7 %	26.4 %	0.5 %	1.9 %	170.3 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1108 ppm	101.0955 %	101.8247 %	96.9129 %	100.8472 %	102.5807 %	100.4940 %
Concentration per Run 1	0.1106 ppm	101.2417 %	101.7229 %	96.8208 %	100.6787 %	102.5312 %	100.1071 %
Concentration per Run 2	0.1109 ppm	101.4800 %	102.6034 %	96.7710 %	101.3636 %	103.1576 %	100.5532 %
Concentration per Run 3	0.1109 ppm	100.5647 %	101.1477 %	97.1470 %	100.4992 %	102.0533 %	100.8216 %
Concentration RSD	0.2 %	0.5 %	0.7 %	0.2 %	0.5 %	0.5 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
 Analysis started at: 6/27/2025 1:54:38 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5295 ppm	0.4795 ppm	0.4727 ppm	0.4966 ppm	0.4962 ppm	0.4999 ppm	0.4886 ppm
Concentration per Run 1	0.5292 ppm	0.4787 ppm	0.4749 ppm	0.4953 ppm	0.4963 ppm	0.5008 ppm	0.4902 ppm
Concentration per Run 2	0.5276 ppm	0.4812 ppm	0.4697 ppm	0.4955 ppm	0.4974 ppm	0.4993 ppm	0.4927 ppm
Concentration per Run 3	0.5317 ppm	0.4785 ppm	0.4736 ppm	0.4991 ppm	0.4949 ppm	0.4996 ppm	0.4828 ppm
Recovery Percentage 1	105.894 %	95.895 %	94.548 %	99.320 %	99.242 %	99.985 %	97.712 %
Concentration RSD	0.4 %	0.3 %	0.6 %	0.4 %	0.3 %	0.2 %	1.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4777 ppm	0.4981 ppm	0.5182 ppm	0.4989 ppm	0.5006 ppm	5.0992 ppm	0.5178 ppm
Concentration per Run 1	0.4788 ppm	0.4985 ppm	0.5190 ppm	0.5005 ppm	0.5033 ppm	5.1069 ppm	0.5143 ppm
Concentration per Run 2	0.4802 ppm	0.5002 ppm	0.5167 ppm	0.4979 ppm	0.5010 ppm	5.1136 ppm	0.5246 ppm
Concentration per Run 3	0.4741 ppm	0.4955 ppm	0.5191 ppm	0.4985 ppm	0.4976 ppm	5.0770 ppm	0.5143 ppm
Recovery Percentage 1	95.540 %	99.615 %	103.647 %	99.787 %	100.129 %	101.983 %	103.551 %
Concentration RSD	0.7 %	0.5 %	0.3 %	0.3 %	0.6 %	0.4 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5115 ppm	0.4981 ppm	0.4999 ppm	10.1617 ppm	0.5222 ppm	0.5049 ppm	0.4968 ppm
Concentration per Run 1	0.5134 ppm	0.4988 ppm	0.4995 ppm	10.1576 ppm	0.5189 ppm	0.5049 ppm	0.5010 ppm
Concentration per Run 2	0.5110 ppm	0.5024 ppm	0.5008 ppm	10.2443 ppm	0.5214 ppm	0.5033 ppm	0.4942 ppm
Concentration per Run 3	0.5102 ppm	0.4931 ppm	0.4996 ppm	10.0831 ppm	0.5264 ppm	0.5064 ppm	0.4951 ppm
Recovery Percentage 1	102.304 %	99.616 %	99.990 %	101.617 %	104.448 %	100.973 %	99.355 %
Concentration RSD	0.3 %	0.9 %	0.1 %	0.8 %	0.7 %	0.3 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4822 ppm	5.3930 ppm	0.5067 ppm	0.5019 ppm	0.5124 ppm	0.5066 ppm	0.4915 ppm
Concentration per Run 1	0.4807 ppm	5.3831 ppm	0.5056 ppm	0.5012 ppm	0.5122 ppm	0.5032 ppm	0.4937 ppm
Concentration per Run 2	0.4833 ppm	5.3929 ppm	0.5068 ppm	0.5026 ppm	0.5108 ppm	0.5082 ppm	0.4922 ppm
Concentration per Run 3	0.4826 ppm	5.4030 ppm	0.5077 ppm	0.5020 ppm	0.5140 ppm	0.5082 ppm	0.4888 ppm
Recovery Percentage 1	96.441 %	102.723 %	101.345 %	100.384 %	102.475 %	101.312 %	98.308 %
Concentration RSD	0.3 %	0.2 %	0.2 %	0.1 %	0.3 %	0.6 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5083 ppm	101.1110 %	101.6846 %	98.7809 %	98.7641 %	100.9394 %	98.0995 %
Concentration per Run 1	0.5069 ppm	101.2622 %	101.7701 %	99.0350 %	98.2389 %	101.0152 %	98.5623 %
Concentration per Run 2	0.5098 ppm	101.4179 %	100.8502 %	98.4473 %	99.1233 %	100.3828 %	97.6193 %
Concentration per Run 3	0.5083 ppm	100.6530 %	102.4336 %	98.8603 %	98.9301 %	101.4202 %	98.1170 %
Recovery Percentage 1	101.663 %						
Concentration RSD	0.3 %	0.4 %	0.8 %	0.3 %	0.5 %	0.5 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 1:57:54 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0004 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0017 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 2	0.0001 ppm	0.0014 ppm	0.0012 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0024 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm
Recovery Percentage 1	0.284 %	0.708 %	8.523 %	-1.247 %	0.136 %	0.371 %	-0.480 %
Concentration RSD	301.0 %	303.2 %	156.0 %	106.7 %	171.8 %	137.0 %	205.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0012 ppm	0.0076 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0001 ppm	0.0016 ppm	0.0070 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	0.0005 ppm	-0.0002 ppm	0.0010 ppm	0.0064 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0095 ppm	0.0001 ppm
Recovery Percentage 1	0.212 %	-1.979 %	2.399 %	-0.389 %	2.361 %	0.305 %	1.995 %
Concentration RSD	307.6 %	40.5 %	95.9 %	443.1 %	31.6 %	21.4 %	453.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0024 ppm	-0.0028 ppm	0.0005 ppm	0.0001 ppm	0.0016 ppm
Concentration per Run 1	-0.0012 ppm	0.0001 ppm	0.0024 ppm	-0.0048 ppm	0.0004 ppm	-0.0002 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0023 ppm	-0.0046 ppm	0.0002 ppm	-0.0010 ppm	0.0006 ppm
Concentration per Run 3	0.0007 ppm	0.0001 ppm	0.0024 ppm	0.0008 ppm	0.0009 ppm	0.0015 ppm	0.0025 ppm
Recovery Percentage 1	-0.192 %	0.496 %	4.742 %	-0.142 %	1.967 %	1.226 %	3.229 %
Concentration RSD	490.3 %	76.1 %	1.8 %	112.3 %	65.7 %	1,060.5 %	58.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0009 ppm	0.0110 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 1	0.0003 ppm	0.0128 ppm	-0.0016 ppm	0.0000 ppm	0.0005 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 2	0.0014 ppm	0.0102 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 3	0.0009 ppm	0.0101 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	-0.0014 ppm	0.0000 ppm
Recovery Percentage 1	8.554 %	2.210 %	-0.558 %	-0.133 %	3.271 %	-4.617 %	0.687 %
Concentration RSD	65.6 %	13.6 %	417.7 %	212.0 %	48.8 %	62.6 %	131.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0007 ppm	100.0086 %	100.6166 %	98.5398 %	100.4073 %	101.5070 %	99.1646 %
Concentration per Run 1	-0.0007 ppm	100.6877 %	101.1656 %	98.5594 %	101.1676 %	101.6233 %	99.0972 %
Concentration per Run 2	-0.0008 ppm	99.4539 %	100.2480 %	98.5180 %	99.8916 %	101.4523 %	99.1576 %
Concentration per Run 3	-0.0006 ppm	99.8843 %	100.4362 %	98.5419 %	100.1625 %	101.4454 %	99.2390 %
Recovery Percentage 1	-14.445 %						
Concentration RSD	14.6 %	0.6 %	0.5 %	0.0 %	0.7 %	0.1 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2537294-01d2 WG2084309
 Analysis started at: 6/27/2025 2:25:47 PM
 Rack: 1
 Vial: 41
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0007 ppm	84.5023 ppm	0.0941 ppm	0.0060 ppm	0.3133 ppm	0.0021 ppm	100.7857 ppm
Concentration per Run 1	0.0005 ppm	88.0741 ppm	0.0946 ppm	0.0056 ppm	0.3259 ppm	0.0021 ppm	105.1912 ppm
Concentration per Run 2	0.0006 ppm	87.6249 ppm	0.0938 ppm	0.0074 ppm	0.3258 ppm	0.0021 ppm	104.6696 ppm
Concentration per Run 3	0.0010 ppm	77.8079 ppm	0.0940 ppm	0.0051 ppm	0.2881 ppm	0.0019 ppm	92.4962 ppm
Concentration RSD	32.6 %	6.9 %	0.4 %	20.0 %	6.9 %	5.1 %	7.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0017 ppm	0.0824 ppm	0.1691 ppm	0.1817 ppm	142.8266 ppm	13.8692 ppm	0.1434 ppm
Concentration per Run 1	0.0016 ppm	0.0823 ppm	0.1691 ppm	0.1834 ppm	149.1435 ppm	14.3597 ppm	0.1481 ppm
Concentration per Run 2	0.0018 ppm	0.0826 ppm	0.1688 ppm	0.1806 ppm	148.4302 ppm	14.4268 ppm	0.1500 ppm
Concentration per Run 3	0.0016 ppm	0.0822 ppm	0.1695 ppm	0.1812 ppm	130.9061 ppm	12.8210 ppm	0.1322 ppm
Concentration RSD	5.6 %	0.3 %	0.2 %	0.8 %	7.2 %	6.5 %	6.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	42.7006 ppm	4.1647 ppm	0.0028 ppm	1.2965 ppm	0.1791 ppm	0.0757 ppm	-0.0037 ppm
Concentration per Run 1	42.5446 ppm	4.3529 ppm	0.0028 ppm	1.3469 ppm	0.1780 ppm	0.0744 ppm	-0.0059 ppm
Concentration per Run 2	42.9695 ppm	4.3456 ppm	0.0028 ppm	1.3490 ppm	0.1801 ppm	0.0761 ppm	-0.0029 ppm
Concentration per Run 3	42.5878 ppm	3.7955 ppm	0.0027 ppm	1.1936 ppm	0.1793 ppm	0.0764 ppm	-0.0024 ppm
Concentration RSD	0.5 %	7.7 %	0.8 %	6.9 %	0.6 %	1.5 %	51.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0013 ppm	15.5166 ppm	0.0095 ppm	0.3902 ppm	2.8245 ppm	-0.0032 ppm	0.1504 ppm
Concentration per Run 1	-0.0010 ppm	15.3661 ppm	0.0096 ppm	0.4046 ppm	2.8194 ppm	-0.0033 ppm	0.1516 ppm
Concentration per Run 2	-0.0042 ppm	15.6281 ppm	0.0094 ppm	0.4080 ppm	2.8175 ppm	-0.0043 ppm	0.1492 ppm
Concentration per Run 3	0.0012 ppm	15.5556 ppm	0.0095 ppm	0.3580 ppm	2.8366 ppm	-0.0021 ppm	0.1505 ppm
Concentration RSD	202.2 %	0.9 %	1.4 %	7.2 %	0.4 %	35.2 %	0.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3244 ppm	98.1695 %	103.4743 %	85.5862 %	106.0287 %	116.2884 %	108.0995 %
Concentration per Run 1	0.3209 ppm	98.1302 %	99.5588 %	85.3605 %	104.4808 %	115.6007 %	107.9014 %
Concentration per Run 2	0.3287 ppm	97.4412 %	99.0468 %	85.7969 %	106.7953 %	113.9658 %	108.3160 %
Concentration per Run 3	0.3234 ppm	98.9370 %	111.8174 %	85.6011 %	106.8099 %	119.2986 %	108.0811 %
Concentration RSD	1.2 %	0.8 %	7.0 %	0.3 %	1.3 %	2.3 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2537325-01d2 WG2084309
 Analysis started at: 6/27/2025 2:29:12 PM
 Rack: 1
 Vial: 42
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	77.8090 ppm	0.0658 ppm	0.0199 ppm	0.4612 ppm	0.0030 ppm	379.9509 ppm
Concentration per Run 1	0.0001 ppm	77.8255 ppm	0.0668 ppm	0.0204 ppm	0.4616 ppm	0.0030 ppm	378.9160 ppm
Concentration per Run 2	-0.0002 ppm	77.7519 ppm	0.0639 ppm	0.0198 ppm	0.4605 ppm	0.0030 ppm	381.0130 ppm
Concentration per Run 3	0.0007 ppm	77.8495 ppm	0.0666 ppm	0.0195 ppm	0.4614 ppm	0.0030 ppm	379.9236 ppm
Concentration RSD	228.4 %	0.1 %	2.4 %	2.4 %	0.1 %	0.4 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0015 ppm	0.0589 ppm	0.0952 ppm	0.2754 ppm	174.0462 ppm	5.9974 ppm	0.2039 ppm
Concentration per Run 1	0.0014 ppm	0.0590 ppm	0.0948 ppm	0.2754 ppm	173.6255 ppm	5.9938 ppm	0.2044 ppm
Concentration per Run 2	0.0015 ppm	0.0590 ppm	0.0959 ppm	0.2747 ppm	174.2259 ppm	6.0110 ppm	0.2047 ppm
Concentration per Run 3	0.0016 ppm	0.0586 ppm	0.0949 ppm	0.2762 ppm	174.2872 ppm	5.9874 ppm	0.2028 ppm
Concentration RSD	4.1 %	0.4 %	0.6 %	0.3 %	0.2 %	0.2 %	0.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	65.2217 ppm	3.7413 ppm	0.0021 ppm	0.6642 ppm	0.1550 ppm	0.0846 ppm	-0.0060 ppm
Concentration per Run 1	65.2698 ppm	3.7400 ppm	0.0022 ppm	0.6630 ppm	0.1549 ppm	0.0836 ppm	-0.0052 ppm
Concentration per Run 2	65.6985 ppm	3.7370 ppm	0.0016 ppm	0.6678 ppm	0.1572 ppm	0.0845 ppm	-0.0076 ppm
Concentration per Run 3	64.6968 ppm	3.7469 ppm	0.0024 ppm	0.6618 ppm	0.1530 ppm	0.0857 ppm	-0.0053 ppm
Concentration RSD	0.8 %	0.1 %	17.8 %	0.5 %	1.3 %	1.2 %	22.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0010 ppm	19.8740 ppm	0.0128 ppm	0.4352 ppm	0.5087 ppm	-0.0017 ppm	0.0867 ppm
Concentration per Run 1	-0.0003 ppm	19.9859 ppm	0.0113 ppm	0.4363 ppm	0.5251 ppm	-0.0015 ppm	0.0868 ppm
Concentration per Run 2	-0.0004 ppm	19.6643 ppm	0.0144 ppm	0.4346 ppm	0.5080 ppm	-0.0011 ppm	0.0869 ppm
Concentration per Run 3	-0.0022 ppm	19.9717 ppm	0.0127 ppm	0.4347 ppm	0.4931 ppm	-0.0026 ppm	0.0863 ppm
Concentration RSD	114.4 %	0.9 %	11.8 %	0.2 %	3.1 %	46.3 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0302 ppm	93.5305 %	98.5545 %	77.8651 %	104.5914 %	117.3254 %	105.3244 %
Concentration per Run 1	1.0241 ppm	94.4822 %	99.0745 %	77.2512 %	106.0279 %	117.6052 %	104.3817 %
Concentration per Run 2	1.0428 ppm	93.2290 %	97.6355 %	77.8625 %	104.4780 %	116.4166 %	105.5700 %
Concentration per Run 3	1.0236 ppm	92.8804 %	98.9535 %	78.4816 %	103.2683 %	117.9542 %	106.0214 %
Concentration RSD	1.1 %	0.9 %	0.8 %	0.8 %	1.3 %	0.7 %	0.8 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2537325-05d2 WG2084309
 Analysis started at: 6/27/2025 2:32:24 PM
 Rack: 1
 Vial: 43
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0016 ppm	112.7707 ppm	0.0667 ppm	0.0148 ppm	0.7785 ppm	0.0044 ppm	9.6674 ppm
Concentration per Run 1	-0.0017 ppm	112.8003 ppm	0.0680 ppm	0.0156 ppm	0.7780 ppm	0.0044 ppm	9.7653 ppm
Concentration per Run 2	-0.0017 ppm	113.1176 ppm	0.0649 ppm	0.0145 ppm	0.7765 ppm	0.0043 ppm	9.6557 ppm
Concentration per Run 3	-0.0014 ppm	112.3943 ppm	0.0672 ppm	0.0143 ppm	0.7809 ppm	0.0043 ppm	9.5813 ppm
Concentration RSD	11.2 %	0.3 %	2.4 %	5.0 %	0.3 %	1.2 %	1.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0020 ppm	0.0812 ppm	0.1307 ppm	0.1175 ppm	181.5642 ppm	7.5357 ppm	0.2009 ppm
Concentration per Run 1	0.0022 ppm	0.0811 ppm	0.1311 ppm	0.1173 ppm	182.8448 ppm	7.4657 ppm	0.1978 ppm
Concentration per Run 2	0.0018 ppm	0.0814 ppm	0.1309 ppm	0.1180 ppm	181.3855 ppm	7.6578 ppm	0.2026 ppm
Concentration per Run 3	0.0019 ppm	0.0813 ppm	0.1301 ppm	0.1173 ppm	180.4622 ppm	7.4836 ppm	0.2024 ppm
Concentration RSD	8.8 %	0.2 %	0.4 %	0.4 %	0.7 %	1.4 %	1.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	29.1504 ppm	4.7672 ppm	0.0014 ppm	0.5216 ppm	0.1677 ppm	0.0980 ppm	-0.0036 ppm
Concentration per Run 1	29.1486 ppm	4.7894 ppm	0.0016 ppm	0.5344 ppm	0.1693 ppm	0.0988 ppm	-0.0039 ppm
Concentration per Run 2	29.1940 ppm	4.7695 ppm	0.0016 ppm	0.5116 ppm	0.1664 ppm	0.0971 ppm	-0.0014 ppm
Concentration per Run 3	29.1085 ppm	4.7427 ppm	0.0010 ppm	0.5187 ppm	0.1674 ppm	0.0979 ppm	-0.0057 ppm
Concentration RSD	0.1 %	0.5 %	26.0 %	2.2 %	0.9 %	0.9 %	59.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0000 ppm	37.6634 [SIC 200]	0.0059 ppm	0.0555 ppm	1.3114 ppm	-0.0025 ppm	0.1373 ppm
Concentration per Run 1	0.0018 ppm	38.2095 ppm	0.0061 ppm	0.0559 ppm	1.3239 ppm	-0.0022 ppm	0.1368 ppm
Concentration per Run 2	-0.0010 ppm	38.2029 ppm	0.0057 ppm	0.0551 ppm	1.3341 ppm	-0.0033 ppm	0.1384 ppm
Concentration per Run 3	-0.0009 ppm	36.5778 ppm	0.0061 ppm	0.0555 ppm	1.2763 ppm	-0.0019 ppm	0.1366 ppm
Concentration RSD	7,423.8 %	2.5 %	3.6 %	0.8 %	2.4 %	28.7 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5320 ppm	99.1457 %	102.1908 %	88.9383 %	109.2687 %	113.1436 %	108.3469 %
Concentration per Run 1	0.5333 ppm	98.6516 %	101.4104 %	89.3705 %	108.9771 %	113.0786 %	109.2740 %
Concentration per Run 2	0.5309 ppm	99.6104 %	102.7566 %	88.6286 %	109.8996 %	113.7164 %	107.7197 %
Concentration per Run 3	0.5319 ppm	99.1750 %	102.4055 %	88.8159 %	108.9295 %	112.6357 %	108.0470 %
Concentration RSD	0.2 %	0.5 %	0.7 %	0.4 %	0.5 %	0.5 %	0.8 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2537339-01d2 WG2084309
 Analysis started at: 6/27/2025 2:35:36 PM
 Rack: 1
 Vial: 44
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0054 ppm	89.1776 ppm	0.0414 ppm	0.0171 ppm	1.5007 ppm	0.0050 ppm	19.5561 ppm
Concentration per Run 1	0.0057 ppm	89.4762 ppm	0.0413 ppm	0.0173 ppm	1.4982 ppm	0.0050 ppm	19.5092 ppm
Concentration per Run 2	0.0052 ppm	88.7588 ppm	0.0420 ppm	0.0165 ppm	1.5045 ppm	0.0051 ppm	19.4262 ppm
Concentration per Run 3	0.0053 ppm	89.2979 ppm	0.0409 ppm	0.0176 ppm	1.4994 ppm	0.0050 ppm	19.7328 ppm
Concentration RSD	5.1 %	0.4 %	1.3 %	3.3 %	0.2 %	0.5 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0021 ppm	0.0592 ppm	0.3743 ppm	1.3773 ppm	103.2904 ppm	7.3759 ppm	0.0931 ppm
Concentration per Run 1	0.0019 ppm	0.0592 ppm	0.3732 ppm	1.3837 ppm	102.9372 ppm	7.4085 ppm	0.0932 ppm
Concentration per Run 2	0.0021 ppm	0.0591 ppm	0.3760 ppm	1.3698 ppm	103.6104 ppm	7.3598 ppm	0.0934 ppm
Concentration per Run 3	0.0022 ppm	0.0593 ppm	0.3736 ppm	1.3786 ppm	103.3236 ppm	7.3595 ppm	0.0927 ppm
Concentration RSD	6.1 %	0.2 %	0.4 %	0.5 %	0.3 %	0.4 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	15.9914 ppm	2.0181 ppm	0.0020 ppm	5.1692 ppm	0.1035 ppm	0.8282 ppm	-0.0017 ppm
Concentration per Run 1	15.9369 ppm	2.0184 ppm	0.0020 ppm	5.2183 ppm	0.1015 ppm	0.8270 ppm	-0.0012 ppm
Concentration per Run 2	16.0460 ppm	2.0154 ppm	0.0023 ppm	5.0993 ppm	0.1040 ppm	0.8290 ppm	-0.0043 ppm
Concentration per Run 3	15.9914 ppm	2.0205 ppm	0.0017 ppm	5.1900 ppm	0.1050 ppm	0.8284 ppm	0.0005 ppm
Concentration RSD	0.3 %	0.1 %	13.7 %	1.2 %	1.7 %	0.1 %	145.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0073 ppm	9.5889 ppm	0.0936 ppm	0.1240 ppm	1.1162 ppm	-0.0002 ppm	0.1330 ppm
Concentration per Run 1	0.0088 ppm	9.6189 ppm	0.0929 ppm	0.1237 ppm	1.0934 ppm	-0.0003 ppm	0.1328 ppm
Concentration per Run 2	0.0081 ppm	9.7225 ppm	0.0941 ppm	0.1246 ppm	1.1300 ppm	0.0001 ppm	0.1332 ppm
Concentration per Run 3	0.0050 ppm	9.4255 ppm	0.0938 ppm	0.1236 ppm	1.1252 ppm	-0.0005 ppm	0.1330 ppm
Concentration RSD	28.0 %	1.6 %	0.7 %	0.5 %	1.8 %	150.0 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9889 ppm	100.6646 %	103.7004 %	92.0756 %	123.7213 %	128.3026 %	121.8003 %
Concentration per Run 1	0.9836 ppm	101.0049 %	104.6024 %	91.6998 %	124.2668 %	129.0895 %	121.4277 %
Concentration per Run 2	0.9948 ppm	100.1635 %	103.2897 %	92.5472 %	123.2874 %	127.6529 %	122.5513 %
Concentration per Run 3	0.9883 ppm	100.8255 %	103.2093 %	91.9799 %	123.6098 %	128.1653 %	121.4218 %
Concentration RSD	0.6 %	0.4 %	0.8 %	0.5 %	0.4 %	0.6 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2537339-02d2 WG2084309
 Analysis started at: 6/27/2025 2:38:48 PM
 Rack: 1
 Vial: 45
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0004 ppm	30.8974 ppm	0.0298 ppm	0.0101 ppm	0.2686 ppm	0.0021 ppm	8.5367 ppm
Concentration per Run 1	-0.0003 ppm	30.8022 ppm	0.0284 ppm	0.0106 ppm	0.2668 ppm	0.0021 ppm	8.5518 ppm
Concentration per Run 2	-0.0005 ppm	30.9844 ppm	0.0304 ppm	0.0100 ppm	0.2703 ppm	0.0021 ppm	8.5036 ppm
Concentration per Run 3	-0.0004 ppm	30.9055 ppm	0.0307 ppm	0.0098 ppm	0.2687 ppm	0.0021 ppm	8.5548 ppm
Concentration RSD	23.2 %	0.3 %	4.2 %	4.3 %	0.6 %	0.4 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0007 ppm	0.0283 ppm	0.0781 ppm	0.0739 ppm	72.2446 ppm	3.8882 ppm	0.0571 ppm
Concentration per Run 1	0.0007 ppm	0.0286 ppm	0.0784 ppm	0.0741 ppm	72.0804 ppm	3.8562 ppm	0.0572 ppm
Concentration per Run 2	0.0006 ppm	0.0282 ppm	0.0778 ppm	0.0738 ppm	72.5098 ppm	3.9309 ppm	0.0571 ppm
Concentration per Run 3	0.0007 ppm	0.0281 ppm	0.0782 ppm	0.0736 ppm	72.1436 ppm	3.8775 ppm	0.0572 ppm
Concentration RSD	9.7 %	0.9 %	0.4 %	0.4 %	0.3 %	1.0 %	0.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	11.4276 ppm	0.4349 ppm	0.0005 ppm	1.4172 ppm	0.0684 ppm	0.0414 ppm	0.0016 ppm
Concentration per Run 1	11.4626 ppm	0.4353 ppm	0.0005 ppm	1.4064 ppm	0.0679 ppm	0.0413 ppm	0.0012 ppm
Concentration per Run 2	11.4165 ppm	0.4352 ppm	0.0004 ppm	1.4305 ppm	0.0683 ppm	0.0416 ppm	0.0020 ppm
Concentration per Run 3	11.4037 ppm	0.4341 ppm	0.0006 ppm	1.4147 ppm	0.0689 ppm	0.0414 ppm	0.0015 ppm
Concentration RSD	0.3 %	0.1 %	15.1 %	0.9 %	0.7 %	0.3 %	25.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0021 ppm	2.6471 ppm	0.0120 ppm	0.0404 ppm	1.0364 ppm	-0.0008 ppm	0.0757 ppm
Concentration per Run 1	0.0014 ppm	2.7132 ppm	0.0122 ppm	0.0404 ppm	1.0363 ppm	-0.0004 ppm	0.0758 ppm
Concentration per Run 2	0.0037 ppm	2.6234 ppm	0.0123 ppm	0.0404 ppm	1.0400 ppm	-0.0014 ppm	0.0756 ppm
Concentration per Run 3	0.0012 ppm	2.6048 ppm	0.0115 ppm	0.0402 ppm	1.0330 ppm	-0.0005 ppm	0.0757 ppm
Concentration RSD	66.7 %	2.2 %	3.7 %	0.2 %	0.3 %	69.5 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2270 ppm	100.4919 %	103.2616 %	94.7454 %	107.2069 %	109.9055 %	105.7237 %
Concentration per Run 1	0.2292 ppm	99.8506 %	103.3923 %	94.8658 %	106.7022 %	109.9856 %	105.7297 %
Concentration per Run 2	0.2255 ppm	101.2033 %	103.4369 %	94.7950 %	107.7414 %	109.9490 %	105.9325 %
Concentration per Run 3	0.2264 ppm	100.4218 %	102.9556 %	94.5755 %	107.1772 %	109.7819 %	105.5088 %
Concentration RSD	0.8 %	0.7 %	0.3 %	0.2 %	0.5 %	0.1 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2537339-03d2 WG2084309
 Analysis started at: 6/27/2025 2:42:02 PM
 Rack: 1
 Vial: 46
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	21.9427 ppm	0.0082 ppm	0.0098 ppm	0.2632 ppm	0.0021 ppm	13.0228 ppm
Concentration per Run 1	-0.0003 ppm	21.9567 ppm	0.0071 ppm	0.0101 ppm	0.2635 ppm	0.0022 ppm	12.9999 ppm
Concentration per Run 2	0.0000 ppm	21.9074 ppm	0.0079 ppm	0.0098 ppm	0.2639 ppm	0.0021 ppm	13.2365 ppm
Concentration per Run 3	0.0001 ppm	21.9639 ppm	0.0095 ppm	0.0093 ppm	0.2621 ppm	0.0022 ppm	12.8322 ppm
Concentration RSD	432.3 %	0.1 %	15.4 %	4.4 %	0.3 %	2.5 %	1.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0007 ppm	0.0202 ppm	0.0960 ppm	0.0447 ppm	61.0872 ppm	2.8437 ppm	0.0347 ppm
Concentration per Run 1	0.0005 ppm	0.0197 ppm	0.0985 ppm	0.0433 ppm	61.0726 ppm	2.8712 ppm	0.0357 ppm
Concentration per Run 2	0.0009 ppm	0.0198 ppm	0.0949 ppm	0.0452 ppm	61.4251 ppm	2.8390 ppm	0.0344 ppm
Concentration per Run 3	0.0008 ppm	0.0210 ppm	0.0948 ppm	0.0454 ppm	60.7641 ppm	2.8211 ppm	0.0340 ppm
Concentration RSD	28.1 %	3.6 %	2.2 %	2.6 %	0.5 %	0.9 %	2.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	8.1985 ppm	0.7459 ppm	0.0064 ppm	1.0389 ppm	0.0461 ppm	0.0345 ppm	-0.0016 ppm
Concentration per Run 1	8.3508 ppm	0.7464 ppm	0.0065 ppm	1.0406 ppm	0.0479 ppm	0.0343 ppm	-0.0006 ppm
Concentration per Run 2	8.0921 ppm	0.7514 ppm	0.0064 ppm	1.0395 ppm	0.0451 ppm	0.0341 ppm	-0.0023 ppm
Concentration per Run 3	8.1527 ppm	0.7400 ppm	0.0063 ppm	1.0366 ppm	0.0452 ppm	0.0351 ppm	-0.0020 ppm
Concentration RSD	1.6 %	0.8 %	1.6 %	0.2 %	3.4 %	1.6 %	57.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0003 ppm	6.1469 ppm	0.0057 ppm	0.0610 ppm	0.7582 ppm	-0.0015 ppm	0.0727 ppm
Concentration per Run 1	-0.0011 ppm	6.1387 ppm	0.0061 ppm	0.0613 ppm	0.7909 ppm	-0.0012 ppm	0.0729 ppm
Concentration per Run 2	0.0021 ppm	6.0479 ppm	0.0059 ppm	0.0607 ppm	0.7400 ppm	-0.0010 ppm	0.0723 ppm
Concentration per Run 3	-0.0002 ppm	6.2539 ppm	0.0051 ppm	0.0610 ppm	0.7436 ppm	-0.0024 ppm	0.0730 ppm
Concentration RSD	613.6 %	1.7 %	9.3 %	0.5 %	3.7 %	48.6 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1107 ppm	101.8071 %	101.8279 %	95.2470 %	109.4246 %	113.1214 %	110.2547 %
Concentration per Run 1	0.1132 ppm	102.1057 %	101.4461 %	95.9022 %	113.1220 %	113.5357 %	110.6722 %
Concentration per Run 2	0.1079 ppm	101.8160 %	100.1224 %	95.2356 %	108.1185 %	111.1976 %	110.3101 %
Concentration per Run 3	0.1110 ppm	101.4995 %	103.9152 %	94.6032 %	107.0332 %	114.6309 %	109.7818 %
Concentration RSD	2.4 %	0.3 %	1.9 %	0.7 %	3.0 %	1.6 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538360-01d2 WG2084309
 Analysis started at: 6/27/2025 2:45:15 PM
 Rack: 1
 Vial: 47
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0007 ppm	62.8850 ppm	0.0233 ppm	0.0090 ppm	0.3026 ppm	0.0029 ppm	5.6285 ppm
Concentration per Run 1	0.0005 ppm	63.3958 ppm	0.0240 ppm	0.0100 ppm	0.3068 ppm	0.0030 ppm	5.6220 ppm
Concentration per Run 2	0.0006 ppm	62.8615 ppm	0.0227 ppm	0.0083 ppm	0.2990 ppm	0.0029 ppm	5.6339 ppm
Concentration per Run 3	0.0009 ppm	62.3976 ppm	0.0231 ppm	0.0088 ppm	0.3018 ppm	0.0029 ppm	5.6296 ppm
Concentration RSD	26.5 %	0.8 %	2.8 %	9.8 %	1.3 %	2.0 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0019 ppm	0.0573 ppm	0.1228 ppm	0.1103 ppm	122.2896 ppm	10.2637 ppm	0.0515 ppm
Concentration per Run 1	0.0017 ppm	0.0572 ppm	0.1224 ppm	0.1082 ppm	122.8718 ppm	10.5584 ppm	0.0532 ppm
Concentration per Run 2	0.0020 ppm	0.0573 ppm	0.1242 ppm	0.1109 ppm	121.8077 ppm	10.1842 ppm	0.0506 ppm
Concentration per Run 3	0.0019 ppm	0.0573 ppm	0.1217 ppm	0.1118 ppm	122.1893 ppm	10.0484 ppm	0.0508 ppm
Concentration RSD	8.0 %	0.1 %	1.0 %	1.7 %	0.4 %	2.6 %	2.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	15.8241 ppm	3.4459 ppm	0.0054 ppm	0.6845 ppm	0.0951 ppm	0.0500 ppm	-0.0025 ppm
Concentration per Run 1	15.8924 ppm	3.4241 ppm	0.0053 ppm	0.6840 ppm	0.0950 ppm	0.0488 ppm	-0.0019 ppm
Concentration per Run 2	15.8661 ppm	3.4567 ppm	0.0059 ppm	0.6838 ppm	0.0957 ppm	0.0508 ppm	-0.0022 ppm
Concentration per Run 3	15.7139 ppm	3.4570 ppm	0.0048 ppm	0.6856 ppm	0.0945 ppm	0.0505 ppm	-0.0035 ppm
Concentration RSD	0.6 %	0.5 %	9.8 %	0.1 %	0.6 %	2.2 %	34.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0023 ppm	23.1530 [SIC 200]	0.0087 ppm	0.0573 ppm	3.4087 ppm	-0.0015 ppm	0.1515 ppm
Concentration per Run 1	-0.0032 ppm	23.0728 ppm	0.0085 ppm	0.0581 ppm	3.4224 ppm	-0.0011 ppm	0.1494 ppm
Concentration per Run 2	-0.0047 ppm	23.3703 ppm	0.0081 ppm	0.0568 ppm	3.4329 ppm	-0.0019 ppm	0.1528 ppm
Concentration per Run 3	0.0012 ppm	23.0159 ppm	0.0095 ppm	0.0572 ppm	3.3710 ppm	-0.0015 ppm	0.1524 ppm
Concentration RSD	135.7 %	0.8 %	8.1 %	1.2 %	1.0 %	26.5 %	1.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1999 ppm	103.6326 %	103.2250 %	94.6641 %	117.4432 %	124.1196 %	121.5513 %
Concentration per Run 1	0.2006 ppm	103.7661 %	103.4183 %	94.7584 %	120.2202 %	124.7820 %	121.6109 %
Concentration per Run 2	0.2009 ppm	103.4191 %	103.3729 %	94.7272 %	115.6557 %	124.1491 %	121.4153 %
Concentration per Run 3	0.1984 ppm	103.7126 %	102.8839 %	94.5066 %	116.4536 %	123.4276 %	121.6276 %
Concentration RSD	0.7 %	0.2 %	0.3 %	0.1 %	2.1 %	0.5 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538360-02d2 WG2084309
 Analysis started at: 6/27/2025 2:48:28 PM
 Rack: 1
 Vial: 48
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0008 ppm	69.3475 ppm	0.0331 ppm	0.0098 ppm	0.4964 ppm	0.0033 ppm	12.0133 ppm
Concentration per Run 1	0.0007 ppm	68.8706 ppm	0.0335 ppm	0.0104 ppm	0.5019 ppm	0.0034 ppm	11.9590 ppm
Concentration per Run 2	0.0007 ppm	70.1960 ppm	0.0334 ppm	0.0093 ppm	0.4940 ppm	0.0033 ppm	12.0676 ppm
Concentration per Run 3	0.0009 ppm	68.9760 ppm	0.0324 ppm	0.0095 ppm	0.4932 ppm	0.0032 ppm	12.0134 ppm
Concentration RSD	16.9 %	1.1 %	1.8 %	6.0 %	1.0 %	1.9 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0021 ppm	0.0481 ppm	0.1267 ppm	0.1159 ppm	127.3011 ppm	5.9768 ppm	0.0707 ppm
Concentration per Run 1	0.0021 ppm	0.0489 ppm	0.1262 ppm	0.1162 ppm	127.7055 ppm	6.0171 ppm	0.0715 ppm
Concentration per Run 2	0.0022 ppm	0.0478 ppm	0.1270 ppm	0.1156 ppm	127.0116 ppm	6.0087 ppm	0.0703 ppm
Concentration per Run 3	0.0021 ppm	0.0477 ppm	0.1269 ppm	0.1159 ppm	127.1863 ppm	5.9046 ppm	0.0702 ppm
Concentration RSD	1.7 %	1.4 %	0.4 %	0.2 %	0.3 %	1.0 %	1.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	16.7898 ppm	2.7094 ppm	0.0055 ppm	0.6244 ppm	0.0995 ppm	0.3796 ppm	-0.0020 ppm
Concentration per Run 1	16.7940 ppm	2.6907 ppm	0.0056 ppm	0.6084 ppm	0.0995 ppm	0.3806 ppm	-0.0014 ppm
Concentration per Run 2	16.8102 ppm	2.7350 ppm	0.0057 ppm	0.6421 ppm	0.1001 ppm	0.3782 ppm	-0.0015 ppm
Concentration per Run 3	16.7652 ppm	2.7026 ppm	0.0051 ppm	0.6226 ppm	0.0988 ppm	0.3800 ppm	-0.0031 ppm
Concentration RSD	0.1 %	0.8 %	5.4 %	2.7 %	0.6 %	0.3 %	47.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0012 ppm	18.3952 ppm	0.0159 ppm	0.0872 ppm	2.0860 ppm	-0.0007 ppm	0.1492 ppm
Concentration per Run 1	-0.0002 ppm	18.4941 ppm	0.0172 ppm	0.0881 ppm	2.0732 ppm	-0.0006 ppm	0.1495 ppm
Concentration per Run 2	-0.0005 ppm	18.3373 ppm	0.0145 ppm	0.0871 ppm	2.1279 ppm	-0.0009 ppm	0.1491 ppm
Concentration per Run 3	-0.0027 ppm	18.3542 ppm	0.0159 ppm	0.0864 ppm	2.0569 ppm	-0.0006 ppm	0.1491 ppm
Concentration RSD	117.0 %	0.5 %	8.5 %	1.0 %	1.8 %	19.8 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3362 ppm	102.9247 %	102.3356 %	92.2911 %	114.7425 %	121.5278 %	117.6979 %
Concentration per Run 1	0.3351 ppm	102.6278 %	102.0332 %	92.0752 %	114.1390 %	119.9750 %	117.3505 %
Concentration per Run 2	0.3361 ppm	103.0716 %	102.9940 %	92.5289 %	115.6568 %	123.6923 %	117.7721 %
Concentration per Run 3	0.3372 ppm	103.0748 %	101.9795 %	92.2693 %	114.4316 %	120.9163 %	117.9710 %
Concentration RSD	0.3 %	0.2 %	0.6 %	0.2 %	0.7 %	1.6 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538367-02d2 WG2084309
 Analysis started at: 6/27/2025 2:51:42 PM
 Rack: 1
 Vial: 49
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	63.5138 ppm	0.0218 ppm	-0.0007 ppm	0.1926 ppm	0.0052 ppm	16.3501 ppm
Concentration per Run 1	0.0000 ppm	63.4386 ppm	0.0212 ppm	-0.0018 ppm	0.1908 ppm	0.0051 ppm	16.4124 ppm
Concentration per Run 2	0.0004 ppm	63.5718 ppm	0.0221 ppm	0.0006 ppm	0.1928 ppm	0.0052 ppm	16.2827 ppm
Concentration per Run 3	0.0004 ppm	63.5310 ppm	0.0221 ppm	-0.0008 ppm	0.1942 ppm	0.0052 ppm	16.3551 ppm
Concentration RSD	86.6 %	0.1 %	2.4 %	181.3 %	0.9 %	0.5 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0029 ppm	0.1018 ppm	0.0871 ppm	0.3007 ppm	156.5143 ppm	15.2647 ppm	0.1683 ppm
Concentration per Run 1	0.0028 ppm	0.1021 ppm	0.0870 ppm	0.2997 ppm	157.2074 ppm	15.1749 ppm	0.1693 ppm
Concentration per Run 2	0.0030 ppm	0.1022 ppm	0.0875 ppm	0.3018 ppm	156.0585 ppm	15.2523 ppm	0.1668 ppm
Concentration per Run 3	0.0030 ppm	0.1011 ppm	0.0868 ppm	0.3007 ppm	156.2771 ppm	15.3669 ppm	0.1689 ppm
Concentration RSD	3.0 %	0.6 %	0.4 %	0.4 %	0.4 %	0.6 %	0.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	31.4104 ppm	2.2966 ppm	0.0104 ppm	0.5077 ppm	0.1973 ppm	0.1404 ppm	-0.0022 ppm
Concentration per Run 1	31.4462 ppm	2.3129 ppm	0.0107 ppm	0.5131 ppm	0.1957 ppm	0.1422 ppm	-0.0035 ppm
Concentration per Run 2	31.3798 ppm	2.2841 ppm	0.0104 ppm	0.5050 ppm	0.1984 ppm	0.1399 ppm	-0.0023 ppm
Concentration per Run 3	31.4051 ppm	2.2929 ppm	0.0101 ppm	0.5050 ppm	0.1977 ppm	0.1390 ppm	-0.0007 ppm
Concentration RSD	0.1 %	0.6 %	2.9 %	0.9 %	0.7 %	1.2 %	64.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0004 ppm	6.4206 ppm	0.0059 ppm	0.0569 ppm	1.8530 ppm	0.0003 ppm	0.0888 ppm
Concentration per Run 1	-0.0022 ppm	6.3936 ppm	0.0054 ppm	0.0563 ppm	1.8522 ppm	0.0017 ppm	0.0885 ppm
Concentration per Run 2	0.0019 ppm	6.4256 ppm	0.0068 ppm	0.0570 ppm	1.8612 ppm	-0.0008 ppm	0.0887 ppm
Concentration per Run 3	-0.0008 ppm	6.4427 ppm	0.0056 ppm	0.0573 ppm	1.8456 ppm	0.0001 ppm	0.0890 ppm
Concentration RSD	576.0 %	0.4 %	12.8 %	0.9 %	0.4 %	384.7 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4207 ppm	99.2246 %	98.7144 %	89.3162 %	116.2976 %	123.4068 %	119.2198 %
Concentration per Run 1	0.4202 ppm	98.8669 %	98.0281 %	89.4571 %	117.0399 %	122.5349 %	119.3562 %
Concentration per Run 2	0.4226 ppm	98.9462 %	99.7728 %	89.5198 %	115.4996 %	124.7440 %	119.5841 %
Concentration per Run 3	0.4194 ppm	99.8606 %	98.3425 %	88.9716 %	116.3532 %	122.9414 %	118.7191 %
Concentration RSD	0.4 %	0.6 %	0.9 %	0.3 %	0.7 %	1.0 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538367-03d2 WG2084309
 Analysis started at: 6/27/2025 2:54:54 PM
 Rack: 1
 Vial: 50
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	66.7562 ppm	0.0205 ppm	-0.0006 ppm	0.2028 ppm	0.0062 ppm	17.3045 ppm
Concentration per Run 1	-0.0005 ppm	66.9856 ppm	0.0210 ppm	-0.0005 ppm	0.2031 ppm	0.0062 ppm	17.3264 ppm
Concentration per Run 2	0.0000 ppm	66.4699 ppm	0.0210 ppm	-0.0009 ppm	0.2033 ppm	0.0062 ppm	17.3400 ppm
Concentration per Run 3	-0.0003 ppm	66.8131 ppm	0.0194 ppm	-0.0004 ppm	0.2020 ppm	0.0062 ppm	17.2470 ppm
Concentration RSD	83.4 %	0.4 %	4.7 %	41.0 %	0.3 %	0.5 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0029 ppm	0.0815 ppm	0.1087 ppm	0.2065 ppm	160.2085 ppm	15.7725 ppm	0.1781 ppm
Concentration per Run 1	0.0027 ppm	0.0820 ppm	0.1095 ppm	0.2053 ppm	160.2710 ppm	15.7750 ppm	0.1772 ppm
Concentration per Run 2	0.0032 ppm	0.0818 ppm	0.1085 ppm	0.2088 ppm	160.2776 ppm	15.6799 ppm	0.1780 ppm
Concentration per Run 3	0.0027 ppm	0.0808 ppm	0.1082 ppm	0.2054 ppm	160.0769 ppm	15.8626 ppm	0.1790 ppm
Concentration RSD	8.9 %	0.8 %	0.6 %	1.0 %	0.1 %	0.6 %	0.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	33.3837 ppm	2.2333 ppm	0.0129 ppm	0.5803 ppm	0.1464 ppm	0.0919 ppm	-0.0042 ppm
Concentration per Run 1	33.7289 ppm	2.2413 ppm	0.0128 ppm	0.5853 ppm	0.1463 ppm	0.0915 ppm	-0.0054 ppm
Concentration per Run 2	33.0954 ppm	2.2318 ppm	0.0131 ppm	0.5697 ppm	0.1475 ppm	0.0920 ppm	-0.0021 ppm
Concentration per Run 3	33.3267 ppm	2.2269 ppm	0.0127 ppm	0.5859 ppm	0.1453 ppm	0.0922 ppm	-0.0050 ppm
Concentration RSD	1.0 %	0.3 %	1.4 %	1.6 %	0.8 %	0.4 %	43.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0024 ppm	6.6553 ppm	0.0060 ppm	0.0646 ppm	1.9978 ppm	-0.0008 ppm	0.0920 ppm
Concentration per Run 1	0.0019 ppm	6.5998 ppm	0.0057 ppm	0.0654 ppm	2.0075 ppm	-0.0011 ppm	0.0926 ppm
Concentration per Run 2	-0.0064 ppm	6.7009 ppm	0.0060 ppm	0.0642 ppm	1.9834 ppm	-0.0010 ppm	0.0917 ppm
Concentration per Run 3	-0.0026 ppm	6.6653 ppm	0.0063 ppm	0.0643 ppm	2.0026 ppm	-0.0003 ppm	0.0917 ppm
Concentration RSD	174.8 %	0.8 %	5.3 %	1.0 %	0.6 %	55.8 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5340 ppm	98.8637 %	98.9606 %	88.6718 %	116.8531 %	124.7934 %	120.1625 %
Concentration per Run 1	0.5392 ppm	98.7657 %	99.4305 %	88.1442 %	117.6403 %	125.7978 %	120.4644 %
Concentration per Run 2	0.5343 ppm	99.0331 %	98.7489 %	89.0963 %	115.4153 %	124.2707 %	120.1465 %
Concentration per Run 3	0.5286 ppm	98.7922 %	98.7025 %	88.7748 %	117.5037 %	124.3116 %	119.8768 %
Concentration RSD	1.0 %	0.1 %	0.4 %	0.5 %	1.1 %	0.7 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
 Analysis started at: 6/27/2025 3:00:08 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5323 ppm	0.4850 ppm	0.4738 ppm	0.4953 ppm	0.4969 ppm	0.4991 ppm	0.4856 ppm
Concentration per Run 1	0.5356 ppm	0.4852 ppm	0.4734 ppm	0.4951 ppm	0.4961 ppm	0.4988 ppm	0.4824 ppm
Concentration per Run 2	0.5323 ppm	0.4874 ppm	0.4759 ppm	0.4946 ppm	0.4976 ppm	0.4996 ppm	0.4873 ppm
Concentration per Run 3	0.5290 ppm	0.4825 ppm	0.4720 ppm	0.4962 ppm	0.4970 ppm	0.4989 ppm	0.4871 ppm
Recovery Percentage 1	106.463 %	97.007 %	94.752 %	99.063 %	99.380 %	99.817 %	97.117 %
Concentration RSD	0.6 %	0.5 %	0.4 %	0.2 %	0.1 %	0.1 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4736 ppm	0.4958 ppm	0.5178 ppm	0.4985 ppm	0.5023 ppm	5.1429 ppm	0.5238 ppm
Concentration per Run 1	0.4773 ppm	0.4998 ppm	0.5204 ppm	0.5014 ppm	0.5003 ppm	5.1670 ppm	0.5239 ppm
Concentration per Run 2	0.4738 ppm	0.4959 ppm	0.5182 ppm	0.4978 ppm	0.5047 ppm	5.1606 ppm	0.5294 ppm
Concentration per Run 3	0.4698 ppm	0.4918 ppm	0.5148 ppm	0.4962 ppm	0.5019 ppm	5.1010 ppm	0.5183 ppm
Recovery Percentage 1	94.729 %	99.162 %	103.560 %	99.696 %	100.466 %	102.857 %	104.767 %
Concentration RSD	0.8 %	0.8 %	0.5 %	0.5 %	0.4 %	0.7 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5139 ppm	0.4945 ppm	0.5014 ppm	10.3097 ppm	0.5200 ppm	0.5053 ppm	0.4896 ppm
Concentration per Run 1	0.5175 ppm	0.4908 ppm	0.5030 ppm	10.3206 ppm	0.5217 ppm	0.5029 ppm	0.4923 ppm
Concentration per Run 2	0.5135 ppm	0.4949 ppm	0.5002 ppm	10.4254 ppm	0.5206 ppm	0.5065 ppm	0.4891 ppm
Concentration per Run 3	0.5108 ppm	0.4978 ppm	0.5011 ppm	10.1831 ppm	0.5179 ppm	0.5065 ppm	0.4873 ppm
Recovery Percentage 1	102.784 %	98.904 %	100.285 %	103.097 %	104.008 %	101.065 %	97.913 %
Concentration RSD	0.7 %	0.7 %	0.3 %	1.2 %	0.4 %	0.4 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4833 ppm	5.3963 ppm	0.5087 ppm	0.5035 ppm	0.5142 ppm	0.5088 ppm	0.4879 ppm
Concentration per Run 1	0.4809 ppm	5.4333 ppm	0.5099 ppm	0.5029 ppm	0.5139 ppm	0.5070 ppm	0.4923 ppm
Concentration per Run 2	0.4878 ppm	5.3783 ppm	0.5119 ppm	0.5041 ppm	0.5161 ppm	0.5114 ppm	0.4854 ppm
Concentration per Run 3	0.4813 ppm	5.3773 ppm	0.5043 ppm	0.5035 ppm	0.5126 ppm	0.5080 ppm	0.4862 ppm
Recovery Percentage 1	96.669 %	102.787 %	101.744 %	100.693 %	102.843 %	101.761 %	97.588 %
Concentration RSD	0.8 %	0.6 %	0.8 %	0.1 %	0.3 %	0.4 %	0.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5074 ppm	100.7841 %	102.0281 %	98.8430 %	99.6038 %	100.6400 %	98.1657 %
Concentration per Run 1	0.5091 ppm	100.8885 %	101.9081 %	98.5382 %	99.3125 %	100.1228 %	97.7781 %
Concentration per Run 2	0.5073 ppm	100.4914 %	102.3017 %	99.1645 %	99.8910 %	101.4376 %	98.6158 %
Concentration per Run 3	0.5056 ppm	100.9724 %	101.8745 %	98.8262 %	99.6079 %	100.3596 %	98.1032 %
Recovery Percentage 1	101.471 %						
Concentration RSD	0.3 %	0.3 %	0.2 %	0.3 %	0.3 %	0.7 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 3:03:21 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0017 ppm	-0.0004 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0028 ppm	0.0004 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 2	-0.0003 ppm	0.0016 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 3	0.0004 ppm	0.0007 ppm	-0.0013 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm
Recovery Percentage 1	0.301 %	1.703 %	-8.387 %	-1.951 %	0.137 %	0.571 %	-1.138 %
Concentration RSD	1,644.8 %	59.9 %	200.5 %	104.0 %	165.7 %	49.9 %	34.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0020 ppm	0.0050 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0021 ppm	0.0082 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0012 ppm	-0.0058 ppm	-0.0005 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0027 ppm	0.0126 ppm	0.0003 ppm
Recovery Percentage 1	1.874 %	-0.673 %	1.400 %	0.744 %	4.017 %	0.200 %	-5.090 %
Concentration RSD	22.6 %	146.8 %	78.7 %	115.6 %	37.3 %	191.7 %	191.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0002 ppm	0.0001 ppm	0.0025 ppm	-0.0024 ppm	0.0003 ppm	0.0005 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0028 ppm	-0.0028 ppm	0.0003 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 2	0.0004 ppm	0.0000 ppm	0.0023 ppm	-0.0013 ppm	0.0005 ppm	0.0006 ppm	0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0024 ppm	-0.0030 ppm	0.0000 ppm	0.0008 ppm	0.0017 ppm
Recovery Percentage 1	0.155 %	1.259 %	4.993 %	-0.118 %	1.169 %	4.914 %	1.685 %
Concentration RSD	138.9 %	77.3 %	12.1 %	38.4 %	84.2 %	67.6 %	197.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0005 ppm	0.0056 ppm	-0.0003 ppm	0.0000 ppm	0.0004 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0050 ppm	-0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 2	0.0021 ppm	0.0050 ppm	-0.0005 ppm	0.0000 ppm	0.0004 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0069 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0009 ppm	0.0000 ppm
Recovery Percentage 1	5.012 %	1.129 %	-0.541 %	0.054 %	4.386 %	-2.008 %	-0.658 %
Concentration RSD	286.3 %	18.9 %	96.2 %	537.4 %	8.5 %	170.6 %	170.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0007 ppm	100.8506 %	100.3882 %	99.0391 %	101.4497 %	100.6864 %	99.3928 %
Concentration per Run 1	-0.0007 ppm	101.1281 %	100.8941 %	99.0438 %	101.3708 %	100.7677 %	99.5700 %
Concentration per Run 2	-0.0006 ppm	99.7829 %	100.4668 %	99.2667 %	100.4084 %	100.7054 %	99.5296 %
Concentration per Run 3	-0.0008 ppm	101.6409 %	99.8037 %	98.8067 %	102.5699 %	100.5860 %	99.0788 %
Recovery Percentage 1	-14.459 %						
Concentration RSD	12.2 %	1.0 %	0.5 %	0.2 %	1.1 %	0.1 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-01d2 WG2084309
 Analysis started at: 6/27/2025 3:12:20 PM
 Rack: 1
 Vial: 51
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0023 ppm	172.0071 ppm	0.0327 ppm	0.0129 ppm	1.2411 ppm	0.0065 ppm	12.9166 ppm
Concentration per Run 1	-0.0022 ppm	171.3908 ppm	0.0329 ppm	0.0114 ppm	1.2382 ppm	0.0065 ppm	12.9879 ppm
Concentration per Run 2	-0.0022 ppm	172.2521 ppm	0.0335 ppm	0.0136 ppm	1.2438 ppm	0.0064 ppm	12.7643 ppm
Concentration per Run 3	-0.0026 ppm	172.3785 ppm	0.0316 ppm	0.0138 ppm	1.2415 ppm	0.0066 ppm	12.9974 ppm
Concentration RSD	10.1 %	0.3 %	3.1 %	10.4 %	0.2 %	1.2 %	1.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0033 ppm	0.1500 ppm	0.2583 ppm	0.1311 ppm	229.6468 ppm	23.1423 ppm	0.1979 ppm
Concentration per Run 1	0.0033 ppm	0.1500 ppm	0.2588 ppm	0.1306 ppm	229.8684 ppm	22.9919 ppm	0.1970 ppm
Concentration per Run 2	0.0032 ppm	0.1502 ppm	0.2578 ppm	0.1316 ppm	228.3331 ppm	23.5366 ppm	0.2013 ppm
Concentration per Run 3	0.0032 ppm	0.1499 ppm	0.2584 ppm	0.1312 ppm	230.7390 ppm	22.8984 ppm	0.1956 ppm
Concentration RSD	1.4 %	0.1 %	0.2 %	0.4 %	0.5 %	1.5 %	1.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	54.6451 ppm	9.0269 ppm	0.0043 ppm	0.8268 ppm	0.1597 ppm	0.2035 ppm	-0.0068 ppm
Concentration per Run 1	54.8419 ppm	9.0309 ppm	0.0042 ppm	0.8240 ppm	0.1594 ppm	0.2038 ppm	-0.0054 ppm
Concentration per Run 2	54.5023 ppm	8.9775 ppm	0.0043 ppm	0.8452 ppm	0.1601 ppm	0.2046 ppm	-0.0074 ppm
Concentration per Run 3	54.5910 ppm	9.0724 ppm	0.0045 ppm	0.8112 ppm	0.1595 ppm	0.2021 ppm	-0.0077 ppm
Concentration RSD	0.3 %	0.5 %	3.0 %	2.1 %	0.2 %	0.6 %	18.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0012 ppm	14.2221 ppm	0.0132 ppm	0.1513 ppm	6.1293 ppm	-0.0046 ppm	0.4396 ppm
Concentration per Run 1	0.0020 ppm	13.9645 ppm	0.0118 ppm	0.1509 ppm	6.1506 ppm	-0.0044 ppm	0.4394 ppm
Concentration per Run 2	-0.0004 ppm	14.4994 ppm	0.0142 ppm	0.1511 ppm	6.1222 ppm	-0.0062 ppm	0.4399 ppm
Concentration per Run 3	0.0021 ppm	14.2024 ppm	0.0135 ppm	0.1519 ppm	6.1153 ppm	-0.0030 ppm	0.4395 ppm
Concentration RSD	118.1 %	1.9 %	9.3 %	0.4 %	0.3 %	35.1 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6411 ppm	104.7154 %	107.8490 %	90.6012 %	107.4240 %	111.0821 %	105.3511 %
Concentration per Run 1	0.6428 ppm	104.7320 %	107.3656 %	90.6966 %	107.6023 %	110.7898 %	105.0831 %
Concentration per Run 2	0.6405 ppm	104.8101 %	109.0369 %	90.3265 %	107.0858 %	111.6352 %	105.2751 %
Concentration per Run 3	0.6400 ppm	104.6040 %	107.1446 %	90.7804 %	107.5839 %	110.8213 %	105.6951 %
Concentration RSD	0.2 %	0.1 %	1.0 %	0.3 %	0.3 %	0.4 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-03d2 WG2084309
 Analysis started at: 6/27/2025 3:15:38 PM
 Rack: 1
 Vial: 52
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0014 ppm	170.2988 ppm	0.0297 ppm	0.0198 ppm	1.5606 ppm	0.0079 ppm	27.3434 ppm
Concentration per Run 1	-0.0015 ppm	169.6926 ppm	0.0314 ppm	0.0205 ppm	1.5661 ppm	0.0080 ppm	27.3962 ppm
Concentration per Run 2	-0.0013 ppm	170.9569 ppm	0.0280 ppm	0.0184 ppm	1.5664 ppm	0.0079 ppm	27.3794 ppm
Concentration per Run 3	-0.0014 ppm	170.2468 ppm	0.0298 ppm	0.0205 ppm	1.5494 ppm	0.0079 ppm	27.2546 ppm
Concentration RSD	9.1 %	0.4 %	5.7 %	6.0 %	0.6 %	0.6 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0051 ppm	0.1037 ppm	0.2274 ppm	0.1052 ppm	201.2402 ppm	21.1298 ppm	0.1646 ppm
Concentration per Run 1	0.0052 ppm	0.1043 ppm	0.2280 ppm	0.1051 ppm	202.8264 ppm	21.0668 ppm	0.1643 ppm
Concentration per Run 2	0.0050 ppm	0.1034 ppm	0.2273 ppm	0.1054 ppm	201.4900 ppm	21.3864 ppm	0.1665 ppm
Concentration per Run 3	0.0049 ppm	0.1033 ppm	0.2268 ppm	0.1052 ppm	199.4043 ppm	20.9363 ppm	0.1631 ppm
Concentration RSD	2.5 %	0.5 %	0.3 %	0.1 %	0.9 %	1.1 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	46.9878 ppm	9.8055 ppm	0.0043 ppm	0.5956 ppm	0.1735 ppm	0.3820 ppm	-0.0044 ppm
Concentration per Run 1	47.1432 ppm	9.8856 ppm	0.0044 ppm	0.5917 ppm	0.1736 ppm	0.3831 ppm	-0.0058 ppm
Concentration per Run 2	46.8615 ppm	9.8059 ppm	0.0043 ppm	0.6096 ppm	0.1745 ppm	0.3811 ppm	-0.0043 ppm
Concentration per Run 3	46.9588 ppm	9.7250 ppm	0.0042 ppm	0.5856 ppm	0.1725 ppm	0.3817 ppm	-0.0029 ppm
Concentration RSD	0.3 %	0.8 %	3.3 %	2.1 %	0.6 %	0.3 %	33.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	8.9062 ppm	0.0137 ppm	0.2039 ppm	4.8860 ppm	-0.0049 ppm	0.2523 ppm
Concentration per Run 1	0.0013 ppm	9.0755 ppm	0.0140 ppm	0.2053 ppm	4.8936 ppm	-0.0054 ppm	0.2519 ppm
Concentration per Run 2	0.0017 ppm	8.9230 ppm	0.0143 ppm	0.2042 ppm	4.8963 ppm	-0.0051 ppm	0.2518 ppm
Concentration per Run 3	-0.0005 ppm	8.7199 ppm	0.0127 ppm	0.2023 ppm	4.8680 ppm	-0.0042 ppm	0.2531 ppm
Concentration RSD	139.6 %	2.0 %	6.6 %	0.8 %	0.3 %	12.2 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6896 ppm	104.4629 %	107.2831 %	90.4722 %	133.3844 %	138.4033 %	130.7011 %
Concentration per Run 1	0.6950 ppm	103.6186 %	107.0183 %	90.4032 %	133.2149 %	138.0523 %	130.6832 %
Concentration per Run 2	0.6885 ppm	104.6900 %	107.5479 %	90.7596 %	133.6450 %	138.6928 %	130.9148 %
Concentration per Run 3	0.6853 ppm	105.0802 %	107.2832 %	90.2539 %	133.2933 %	138.4647 %	130.5052 %
Concentration RSD	0.7 %	0.7 %	0.2 %	0.3 %	0.2 %	0.2 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-05d2 WG2084309
 Analysis started at: 6/27/2025 3:18:50 PM
 Rack: 1
 Vial: 53
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0018 ppm	197.1886 ppm	0.0375 ppm	0.0123 ppm	1.5040 ppm	0.0077 ppm	12.6004 ppm
Concentration per Run 1	-0.0011 ppm	197.0162 ppm	0.0371 ppm	0.0117 ppm	1.4945 ppm	0.0077 ppm	12.5732 ppm
Concentration per Run 2	-0.0019 ppm	198.0738 ppm	0.0375 ppm	0.0126 ppm	1.5155 ppm	0.0078 ppm	12.6115 ppm
Concentration per Run 3	-0.0025 ppm	196.4759 ppm	0.0378 ppm	0.0126 ppm	1.5020 ppm	0.0077 ppm	12.6166 ppm
Concentration RSD	40.2 %	0.4 %	1.0 %	4.2 %	0.7 %	0.4 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0034 ppm	0.1678 ppm	0.2761 ppm	0.1537 ppm	249.2267 ppm	24.8720 ppm	0.2231 ppm
Concentration per Run 1	0.0035 ppm	0.1685 ppm	0.2754 ppm	0.1543 ppm	248.2000 ppm	24.8075 ppm	0.2224 ppm
Concentration per Run 2	0.0032 ppm	0.1681 ppm	0.2760 ppm	0.1538 ppm	249.6786 ppm	24.9189 ppm	0.2245 ppm
Concentration per Run 3	0.0034 ppm	0.1668 ppm	0.2770 ppm	0.1528 ppm	249.8015 ppm	24.8896 ppm	0.2223 ppm
Concentration RSD	3.4 %	0.5 %	0.3 %	0.5 %	0.4 %	0.2 %	0.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	58.2334 ppm	14.7690 ppm	0.0038 ppm	1.0411 ppm	0.1853 ppm	0.2054 ppm	-0.0069 ppm
Concentration per Run 1	58.1361 ppm	14.7254 ppm	0.0037 ppm	1.0389 ppm	0.1836 ppm	0.2081 ppm	-0.0052 ppm
Concentration per Run 2	58.2246 ppm	14.8131 ppm	0.0040 ppm	1.0524 ppm	0.1865 ppm	0.2047 ppm	-0.0073 ppm
Concentration per Run 3	58.3395 ppm	14.7685 ppm	0.0037 ppm	1.0320 ppm	0.1859 ppm	0.2035 ppm	-0.0082 ppm
Concentration RSD	0.2 %	0.3 %	4.5 %	1.0 %	0.8 %	1.2 %	22.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0030 ppm	19.5589 ppm	0.0152 ppm	0.1245 ppm	6.4580 ppm	-0.0091 ppm	0.4113 ppm
Concentration per Run 1	-0.0031 ppm	19.6864 ppm	0.0148 ppm	0.1237 ppm	6.4432 ppm	-0.0090 ppm	0.4111 ppm
Concentration per Run 2	-0.0030 ppm	19.3258 ppm	0.0149 ppm	0.1258 ppm	6.4487 ppm	-0.0096 ppm	0.4124 ppm
Concentration per Run 3	-0.0028 ppm	19.6644 ppm	0.0160 ppm	0.1239 ppm	6.4822 ppm	-0.0087 ppm	0.4104 ppm
Concentration RSD	6.7 %	1.0 %	4.5 %	0.9 %	0.3 %	5.3 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6957 ppm	104.6790 %	109.3075 %	89.8047 %	115.7147 %	121.7616 %	114.1190 %
Concentration per Run 1	0.6930 ppm	104.6927 %	110.1230 %	89.5035 %	115.5396 %	122.3176 %	114.0674 %
Concentration per Run 2	0.6958 ppm	105.1654 %	109.3657 %	90.0788 %	115.9001 %	122.4882 %	114.2480 %
Concentration per Run 3	0.6982 ppm	104.1787 %	108.4338 %	89.8318 %	115.7044 %	120.4790 %	114.0416 %
Concentration RSD	0.4 %	0.5 %	0.8 %	0.3 %	0.2 %	0.9 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-07d2 WG2084309
 Analysis started at: 6/27/2025 3:22:02 PM
 Rack: 1
 Vial: 54
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0026 ppm	207.0569 ppm	0.0439 ppm	0.0109 ppm	1.6026 ppm	0.0085 ppm	21.1853 ppm
Concentration per Run 1	-0.0028 ppm	208.0052 ppm	0.0423 ppm	0.0114 ppm	1.6143 ppm	0.0086 ppm	21.2201 ppm
Concentration per Run 2	-0.0030 ppm	206.3426 ppm	0.0439 ppm	0.0110 ppm	1.6024 ppm	0.0084 ppm	21.2577 ppm
Concentration per Run 3	-0.0022 ppm	206.8230 ppm	0.0455 ppm	0.0105 ppm	1.5911 ppm	0.0084 ppm	21.0781 ppm
Concentration RSD	16.7 %	0.4 %	3.6 %	4.0 %	0.7 %	1.6 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0040 ppm	0.1604 ppm	0.3055 ppm	0.1715 ppm	284.5575 ppm	25.9128 ppm	0.2289 ppm
Concentration per Run 1	0.0038 ppm	0.1597 ppm	0.3069 ppm	0.1708 ppm	284.7934 ppm	26.1790 ppm	0.2308 ppm
Concentration per Run 2	0.0039 ppm	0.1602 ppm	0.3055 ppm	0.1715 ppm	286.2257 ppm	25.7966 ppm	0.2279 ppm
Concentration per Run 3	0.0041 ppm	0.1612 ppm	0.3040 ppm	0.1722 ppm	282.6533 ppm	25.7627 ppm	0.2281 ppm
Concentration RSD	3.8 %	0.5 %	0.5 %	0.4 %	0.6 %	0.9 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	59.9530 ppm	13.7205 ppm	0.0032 ppm	1.1197 ppm	0.1861 ppm	0.2147 ppm	-0.0068 ppm
Concentration per Run 1	60.2940 ppm	13.7332 ppm	0.0029 ppm	1.1352 ppm	0.1862 ppm	0.2149 ppm	-0.0086 ppm
Concentration per Run 2	59.8019 ppm	13.7372 ppm	0.0033 ppm	1.1108 ppm	0.1864 ppm	0.2155 ppm	-0.0039 ppm
Concentration per Run 3	59.7632 ppm	13.6911 ppm	0.0035 ppm	1.1130 ppm	0.1856 ppm	0.2135 ppm	-0.0079 ppm
Concentration RSD	0.5 %	0.2 %	8.6 %	1.2 %	0.2 %	0.5 %	37.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0027 ppm	14.7404 ppm	0.0144 ppm	0.1666 ppm	6.0600 ppm	-0.0063 ppm	0.5161 ppm
Concentration per Run 1	-0.0023 ppm	14.9386 ppm	0.0145 ppm	0.1675 ppm	6.0971 ppm	-0.0066 ppm	0.5162 ppm
Concentration per Run 2	-0.0031 ppm	14.6584 ppm	0.0152 ppm	0.1667 ppm	6.0610 ppm	-0.0057 ppm	0.5158 ppm
Concentration per Run 3	-0.0027 ppm	14.6243 ppm	0.0135 ppm	0.1654 ppm	6.0220 ppm	-0.0066 ppm	0.5163 ppm
Concentration RSD	15.5 %	1.2 %	5.8 %	0.6 %	0.6 %	8.0 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6924 ppm	105.7984 %	110.1153 %	89.3042 %	117.4620 %	122.6273 %	114.1128 %
Concentration per Run 1	0.6968 ppm	105.2694 %	110.1716 %	89.1846 %	117.0601 %	122.7930 %	114.3267 %
Concentration per Run 2	0.6910 ppm	106.6458 %	108.8795 %	88.9951 %	118.6790 %	121.3928 %	113.6551 %
Concentration per Run 3	0.6893 ppm	105.4801 %	111.2950 %	89.7329 %	116.6468 %	123.6962 %	114.3567 %
Concentration RSD	0.6 %	0.7 %	1.1 %	0.4 %	0.9 %	0.9 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-09d2 WG2084309
 Analysis started at: 6/27/2025 3:25:14 PM
 Rack: 1
 Vial: 55
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0026 ppm	191.3041 ppm	0.0322 ppm	0.0101 ppm	1.5294 ppm	0.0073 ppm	19.0726 ppm
Concentration per Run 1	-0.0023 ppm	191.2855 ppm	0.0315 ppm	0.0101 ppm	1.5246 ppm	0.0073 ppm	19.0117 ppm
Concentration per Run 2	-0.0030 ppm	190.7693 ppm	0.0336 ppm	0.0108 ppm	1.5389 ppm	0.0074 ppm	19.1369 ppm
Concentration per Run 3	-0.0025 ppm	191.8574 ppm	0.0314 ppm	0.0094 ppm	1.5247 ppm	0.0074 ppm	19.0693 ppm
Concentration RSD	13.4 %	0.3 %	4.0 %	7.0 %	0.5 %	0.9 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0027 ppm	0.1363 ppm	0.2834 ppm	0.1457 ppm	243.5643 ppm	23.2675 ppm	0.2070 ppm
Concentration per Run 1	0.0027 ppm	0.1370 ppm	0.2818 ppm	0.1454 ppm	242.9896 ppm	23.5515 ppm	0.2080 ppm
Concentration per Run 2	0.0026 ppm	0.1363 ppm	0.2864 ppm	0.1451 ppm	244.6309 ppm	23.2572 ppm	0.2067 ppm
Concentration per Run 3	0.0028 ppm	0.1356 ppm	0.2821 ppm	0.1465 ppm	243.0724 ppm	22.9939 ppm	0.2063 ppm
Concentration RSD	2.3 %	0.5 %	0.9 %	0.5 %	0.4 %	1.2 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	61.6686 ppm	7.2507 ppm	0.0018 ppm	1.0938 ppm	0.1910 ppm	0.1748 ppm	-0.0075 ppm
Concentration per Run 1	61.4689 ppm	7.2360 ppm	0.0017 ppm	1.1111 ppm	0.1885 ppm	0.1767 ppm	-0.0077 ppm
Concentration per Run 2	61.9571 ppm	7.2557 ppm	0.0016 ppm	1.0870 ppm	0.1928 ppm	0.1745 ppm	-0.0068 ppm
Concentration per Run 3	61.5798 ppm	7.2603 ppm	0.0020 ppm	1.0833 ppm	0.1918 ppm	0.1731 ppm	-0.0081 ppm
Concentration RSD	0.4 %	0.2 %	12.5 %	1.4 %	1.2 %	1.0 %	8.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0004 ppm	15.4529 ppm	0.0143 ppm	0.1504 ppm	6.0265 ppm	-0.0028 ppm	0.3928 ppm
Concentration per Run 1	0.0022 ppm	15.4749 ppm	0.0154 ppm	0.1500 ppm	6.0088 ppm	-0.0023 ppm	0.3920 ppm
Concentration per Run 2	-0.0003 ppm	15.5138 ppm	0.0137 ppm	0.1515 ppm	6.0523 ppm	-0.0029 ppm	0.3932 ppm
Concentration per Run 3	-0.0008 ppm	15.3700 ppm	0.0139 ppm	0.1497 ppm	6.0185 ppm	-0.0032 ppm	0.3933 ppm
Concentration RSD	443.0 %	0.5 %	6.2 %	0.7 %	0.4 %	15.7 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6391 ppm	106.0815 %	110.5164 %	90.8631 %	119.3125 %	124.7812 %	116.3791 %
Concentration per Run 1	0.6355 ppm	106.5087 %	111.1633 %	90.9358 %	119.8633 %	125.2915 %	116.4791 %
Concentration per Run 2	0.6456 ppm	105.4258 %	110.0011 %	90.7952 %	119.0180 %	124.5863 %	116.4742 %
Concentration per Run 3	0.6362 ppm	106.3101 %	110.3847 %	90.8582 %	119.0562 %	124.4658 %	116.1840 %
Concentration RSD	0.9 %	0.5 %	0.5 %	0.1 %	0.4 %	0.4 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: zL2539318-11d2 WG2084309
 Analysis started at: 6/27/2025 3:28:26 PM
 Rack: 1
 Vial: 56
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0017 ppm	187.5764 ppm	0.0134 ppm	0.0106 ppm	1.4952 ppm	0.0078 ppm	20.0889 ppm
Concentration per Run 1	-0.0014 ppm	186.8202 ppm	-0.0246 ppm	0.0111 ppm	1.4872 ppm	0.0078 ppm	20.0592 ppm
Concentration per Run 2	-0.0018 ppm	188.0496 ppm	0.0315 ppm	0.0109 ppm	1.5023 ppm	0.0078 ppm	20.0948 ppm
Concentration per Run 3	-0.0018 ppm	187.8594 ppm	0.0334 ppm	0.0097 ppm	1.4962 ppm	0.0078 ppm	20.1127 ppm
Concentration RSD	13.4 %	0.4 %	245.2 %	7.4 %	0.5 %	0.4 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0026 ppm	0.1174 ppm	0.2573 ppm	0.1367 ppm	231.8649 ppm	19.8528 ppm	0.1861 ppm
Concentration per Run 1	0.0026 ppm	0.1177 ppm	0.2547 ppm	0.1369 ppm	231.2976 ppm	19.6946 ppm	0.1843 ppm
Concentration per Run 2	0.0026 ppm	0.1177 ppm	0.2586 ppm	0.1362 ppm	232.0078 ppm	20.0921 ppm	0.1879 ppm
Concentration per Run 3	0.0025 ppm	0.1167 ppm	0.2585 ppm	0.1370 ppm	232.2892 ppm	19.7716 ppm	0.1860 ppm
Concentration RSD	2.9 %	0.5 %	0.9 %	0.3 %	0.2 %	1.1 %	1.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	55.9718 ppm	6.8693 ppm	0.0010 ppm	1.0123 ppm	0.1716 ppm	0.1462 ppm	-0.0037 ppm
Concentration per Run 1	56.1879 ppm	6.8610 ppm	0.0008 ppm	1.0070 ppm	0.1702 ppm	0.1264 ppm	-0.0048 ppm
Concentration per Run 2	55.8832 ppm	6.8620 ppm	0.0014 ppm	1.0256 ppm	0.1736 ppm	0.1561 ppm	-0.0026 ppm
Concentration per Run 3	55.8442 ppm	6.8849 ppm	0.0008 ppm	1.0044 ppm	0.1711 ppm	0.1562 ppm	-0.0038 ppm
Concentration RSD	0.3 %	0.2 %	31.1 %	1.1 %	1.0 %	11.8 %	29.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0301 ppm	11.4288 ppm	0.0220 ppm	0.1247 ppm	5.4843 ppm	0.0909 ppm	0.3282 ppm
Concentration per Run 1	-0.0962 ppm	11.6078 ppm	0.0222 ppm	0.1235 ppm	5.4790 ppm	0.2773 ppm	0.3289 ppm
Concentration per Run 2	0.0025 ppm	11.7387 ppm	0.0226 ppm	0.1251 ppm	5.4825 ppm	-0.0023 ppm	0.3271 ppm
Concentration per Run 3	0.0033 ppm	10.9400 ppm	0.0210 ppm	0.1255 ppm	5.4913 ppm	-0.0024 ppm	0.3287 ppm
Concentration RSD	190.0 %	3.7 %	3.8 %	0.9 %	0.1 %	177.6 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6031 ppm	106.4303 %	110.5871 %	63.0408 %	127.8830 %	135.7179 %	125.3607 %
Concentration per Run 1	0.6005 ppm	106.4113 %	111.5474 %	6.8529 %	127.8135 %	136.6289 %	125.7476 %
Concentration per Run 2	0.6072 ppm	106.0223 %	110.2454 %	90.9464 %	127.8293 %	135.2929 %	124.9059 %
Concentration per Run 3	0.6017 ppm	106.8574 %	109.9684 %	91.3232 %	128.0063 %	135.2320 %	125.4287 %
Concentration RSD	0.6 %	0.4 %	0.8 %	77.2 %	0.1 %	0.6 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-13d2 WG2084309
 Analysis started at: 6/27/2025 3:31:39 PM
 Rack: 1
 Vial: 57
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0002 ppm	234.0501 ppm	0.0328 ppm	0.0131 ppm	2.3613 ppm	0.0100 ppm	29.6580 ppm
Concentration per Run 1	0.0009 ppm	233.1461 ppm	0.0346 ppm	0.0139 ppm	2.3634 ppm	0.0099 ppm	29.5413 ppm
Concentration per Run 2	-0.0021 ppm	234.6598 ppm	0.0315 ppm	0.0107 ppm	2.3697 ppm	0.0101 ppm	29.6362 ppm
Concentration per Run 3	0.0007 ppm	234.3444 ppm	0.0323 ppm	0.0147 ppm	2.3509 ppm	0.0100 ppm	29.7964 ppm
Concentration RSD	1,079.4 %	0.3 %	4.9 %	16.2 %	0.4 %	0.7 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0036 ppm	0.1510 ppm	0.2977 ppm	0.1678 ppm	252.6547 ppm	26.7642 ppm	0.1806 ppm
Concentration per Run 1	0.0043 ppm	0.1530 ppm	0.2965 ppm	0.1707 ppm	252.7399 ppm	26.7012 ppm	0.1802 ppm
Concentration per Run 2	0.0024 ppm	0.1474 ppm	0.3030 ppm	0.1624 ppm	252.8179 ppm	26.8466 ppm	0.1822 ppm
Concentration per Run 3	0.0040 ppm	0.1526 ppm	0.2935 ppm	0.1701 ppm	252.4064 ppm	26.7449 ppm	0.1794 ppm
Concentration RSD	28.8 %	2.1 %	1.6 %	2.8 %	0.1 %	0.3 %	0.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	61.3001 ppm	7.1220 ppm	0.0008 ppm	1.1699 ppm	0.2239 ppm	0.1113 ppm	-0.0087 ppm
Concentration per Run 1	60.6335 ppm	7.1218 ppm	0.0009 ppm	1.1710 ppm	0.2225 ppm	0.1119 ppm	-0.0079 ppm
Concentration per Run 2	62.7902 ppm	7.1048 ppm	0.0008 ppm	1.1730 ppm	0.2279 ppm	0.1116 ppm	-0.0076 ppm
Concentration per Run 3	60.4766 ppm	7.1394 ppm	0.0008 ppm	1.1658 ppm	0.2212 ppm	0.1105 ppm	-0.0107 ppm
Concentration RSD	2.1 %	0.2 %	10.1 %	0.3 %	1.6 %	0.6 %	19.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0000 ppm	4.4805 ppm	0.0158 ppm	0.2205 ppm	5.6937 ppm	-0.0039 ppm	0.2924 ppm
Concentration per Run 1	-0.0001 ppm	4.6476 ppm	0.0171 ppm	0.2209 ppm	5.6378 ppm	-0.0051 ppm	0.2933 ppm
Concentration per Run 2	0.0000 ppm	4.3229 ppm	0.0150 ppm	0.2213 ppm	5.8314 ppm	-0.0019 ppm	0.2911 ppm
Concentration per Run 3	0.0002 ppm	4.4709 ppm	0.0153 ppm	0.2193 ppm	5.6118 ppm	-0.0048 ppm	0.2930 ppm
Concentration RSD	356.1 %	3.6 %	7.4 %	0.5 %	2.1 %	44.0 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5950 ppm	108.3610 %	112.3588 %	92.8586 %	133.9253 %	147.9480 %	139.5442 %
Concentration per Run 1	0.5901 ppm	107.3074 %	113.4936 %	93.2130 %	129.2980 %	149.0264 %	140.2586 %
Concentration per Run 2	0.6066 ppm	109.5776 %	111.3753 %	93.0728 %	141.1048 %	146.6312 %	139.6414 %
Concentration per Run 3	0.5883 ppm	108.1979 %	112.2074 %	92.2898 %	131.3732 %	148.1864 %	138.7325 %
Concentration RSD	1.7 %	1.1 %	0.9 %	0.5 %	4.7 %	0.8 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-15d2 WG2084309
 Analysis started at: 6/27/2025 3:34:52 PM
 Rack: 1
 Vial: 58
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0018 ppm	176.5081 ppm	0.0333 ppm	0.0112 ppm	1.2937 ppm	0.0077 ppm	11.4009 ppm
Concentration per Run 1	-0.0013 ppm	176.5442 ppm	0.0319 ppm	0.0104 ppm	1.2989 ppm	0.0077 ppm	11.3967 ppm
Concentration per Run 2	-0.0022 ppm	176.2115 ppm	0.0337 ppm	0.0122 ppm	1.2963 ppm	0.0076 ppm	11.3614 ppm
Concentration per Run 3	-0.0021 ppm	176.7685 ppm	0.0343 ppm	0.0110 ppm	1.2860 ppm	0.0076 ppm	11.4446 ppm
Concentration RSD	27.9 %	0.2 %	3.7 %	8.4 %	0.5 %	0.7 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0032 ppm	0.1346 ppm	0.2565 ppm	0.1179 ppm	241.4395 ppm	21.4814 ppm	0.1975 ppm
Concentration per Run 1	0.0032 ppm	0.1354 ppm	0.2559 ppm	0.1185 ppm	241.7895 ppm	21.3217 ppm	0.1973 ppm
Concentration per Run 2	0.0031 ppm	0.1353 ppm	0.2565 ppm	0.1177 ppm	240.2150 ppm	21.7695 ppm	0.1987 ppm
Concentration per Run 3	0.0032 ppm	0.1331 ppm	0.2571 ppm	0.1174 ppm	242.3140 ppm	21.3531 ppm	0.1964 ppm
Concentration RSD	1.2 %	1.0 %	0.2 %	0.5 %	0.5 %	1.2 %	0.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	54.0981 ppm	9.5809 ppm	0.0033 ppm	0.8443 ppm	0.1573 ppm	0.1605 ppm	-0.0063 ppm
Concentration per Run 1	53.9785 ppm	9.6039 ppm	0.0035 ppm	0.8462 ppm	0.1560 ppm	0.1596 ppm	-0.0055 ppm
Concentration per Run 2	54.2797 ppm	9.5216 ppm	0.0032 ppm	0.8502 ppm	0.1583 ppm	0.1619 ppm	-0.0055 ppm
Concentration per Run 3	54.0361 ppm	9.6172 ppm	0.0032 ppm	0.8365 ppm	0.1574 ppm	0.1602 ppm	-0.0080 ppm
Concentration RSD	0.3 %	0.5 %	5.2 %	0.8 %	0.7 %	0.8 %	22.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0018 ppm	13.4254 ppm	0.0145 ppm	0.1482 ppm	5.5128 ppm	-0.0053 ppm	0.4402 ppm
Concentration per Run 1	-0.0010 ppm	13.7993 ppm	0.0150 ppm	0.1490 ppm	5.5050 ppm	-0.0045 ppm	0.4396 ppm
Concentration per Run 2	-0.0031 ppm	13.5363 ppm	0.0134 ppm	0.1486 ppm	5.5200 ppm	-0.0052 ppm	0.4411 ppm
Concentration per Run 3	-0.0012 ppm	12.9406 ppm	0.0152 ppm	0.1471 ppm	5.5133 ppm	-0.0062 ppm	0.4398 ppm
Concentration RSD	66.2 %	3.3 %	6.9 %	0.7 %	0.1 %	16.4 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5592 ppm	105.0332 %	108.4989 %	90.5486 %	108.8091 %	112.6436 %	106.0796 %
Concentration per Run 1	0.5569 ppm	105.9161 %	108.7781 %	90.8628 %	109.7585 %	112.9059 %	106.2769 %
Concentration per Run 2	0.5591 ppm	104.8630 %	108.9415 %	90.2336 %	108.7058 %	112.6488 %	105.9460 %
Concentration per Run 3	0.5615 ppm	104.3205 %	107.7772 %	90.5495 %	107.9629 %	112.3760 %	106.0158 %
Concentration RSD	0.4 %	0.8 %	0.6 %	0.3 %	0.8 %	0.2 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-17d2 WG2084309
 Analysis started at: 6/27/2025 3:38:06 PM
 Rack: 1
 Vial: 59
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0019 ppm	181.3332 ppm	0.0289 ppm	0.0126 ppm	1.3325 ppm	0.0083 ppm	28.0998 ppm
Concentration per Run 1	-0.0017 ppm	181.3203 ppm	0.0297 ppm	0.0115 ppm	1.3308 ppm	0.0083 ppm	28.1304 ppm
Concentration per Run 2	-0.0017 ppm	181.8166 ppm	0.0280 ppm	0.0126 ppm	1.3383 ppm	0.0084 ppm	27.9907 ppm
Concentration per Run 3	-0.0022 ppm	180.8627 ppm	0.0289 ppm	0.0137 ppm	1.3284 ppm	0.0083 ppm	28.1784 ppm
Concentration RSD	15.2 %	0.3 %	3.0 %	8.8 %	0.4 %	0.7 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0034 ppm	0.1065 ppm	0.2339 ppm	0.1051 ppm	226.8555 ppm	21.3851 ppm	0.1677 ppm
Concentration per Run 1	0.0035 ppm	0.1061 ppm	0.2357 ppm	0.1051 ppm	226.5881 ppm	21.2663 ppm	0.1688 ppm
Concentration per Run 2	0.0034 ppm	0.1073 ppm	0.2335 ppm	0.1055 ppm	226.7227 ppm	21.3802 ppm	0.1675 ppm
Concentration per Run 3	0.0033 ppm	0.1061 ppm	0.2326 ppm	0.1046 ppm	227.2556 ppm	21.5086 ppm	0.1667 ppm
Concentration RSD	3.5 %	0.7 %	0.7 %	0.4 %	0.2 %	0.6 %	0.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	47.6843 ppm	8.7342 ppm	0.0023 ppm	0.8377 ppm	0.1593 ppm	0.1521 ppm	-0.0038 ppm
Concentration per Run 1	47.8147 ppm	8.7261 ppm	0.0028 ppm	0.8496 ppm	0.1608 ppm	0.1498 ppm	-0.0061 ppm
Concentration per Run 2	47.5117 ppm	8.7256 ppm	0.0018 ppm	0.8388 ppm	0.1584 ppm	0.1525 ppm	-0.0024 ppm
Concentration per Run 3	47.7266 ppm	8.7511 ppm	0.0024 ppm	0.8247 ppm	0.1586 ppm	0.1542 ppm	-0.0028 ppm
Concentration RSD	0.3 %	0.2 %	21.8 %	1.5 %	0.8 %	1.5 %	53.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0015 ppm	12.1437 ppm	0.0165 ppm	0.1332 ppm	4.8790 ppm	-0.0036 ppm	0.3038 ppm
Concentration per Run 1	-0.0016 ppm	12.2408 ppm	0.0161 ppm	0.1323 ppm	4.8973 ppm	-0.0040 ppm	0.3028 ppm
Concentration per Run 2	0.0013 ppm	11.8402 ppm	0.0165 ppm	0.1341 ppm	4.8754 ppm	-0.0031 ppm	0.3042 ppm
Concentration per Run 3	0.0048 ppm	12.3499 ppm	0.0168 ppm	0.1332 ppm	4.8645 ppm	-0.0038 ppm	0.3044 ppm
Concentration RSD	215.3 %	2.2 %	2.1 %	0.7 %	0.3 %	13.0 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6538 ppm	105.4577 %	108.3464 %	90.3566 %	127.1724 %	132.2751 %	123.8929 %
Concentration per Run 1	0.6590 ppm	104.1742 %	107.9562 %	91.2444 %	125.9347 %	131.9786 %	125.0025 %
Concentration per Run 2	0.6511 ppm	105.9520 %	108.5359 %	90.1518 %	127.3782 %	132.6019 %	123.8287 %
Concentration per Run 3	0.6512 ppm	106.2471 %	108.5472 %	89.6737 %	128.2043 %	132.2448 %	122.8476 %
Concentration RSD	0.7 %	1.1 %	0.3 %	0.9 %	0.9 %	0.2 %	0.9 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 3:43:20 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5290 ppm	0.4854 ppm	0.4733 ppm	0.4954 ppm	0.4994 ppm	0.4976 ppm	0.4828 ppm
Concentration per Run 1	0.5288 ppm	0.4840 ppm	0.4721 ppm	0.4929 ppm	0.5019 ppm	0.4995 ppm	0.4852 ppm
Concentration per Run 2	0.5298 ppm	0.4850 ppm	0.4781 ppm	0.4989 ppm	0.4964 ppm	0.4971 ppm	0.4819 ppm
Concentration per Run 3	0.5285 ppm	0.4873 ppm	0.4697 ppm	0.4943 ppm	0.5000 ppm	0.4961 ppm	0.4814 ppm
Recovery Percentage 1	105.805 %	97.087 %	94.660 %	99.073 %	99.883 %	99.513 %	96.566 %
Concentration RSD	0.1 %	0.4 %	0.9 %	0.6 %	0.6 %	0.3 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4696 ppm	0.4968 ppm	0.5145 ppm	0.5005 ppm	0.5027 ppm	5.1811 ppm	0.5238 ppm
Concentration per Run 1	0.4701 ppm	0.4954 ppm	0.5146 ppm	0.4968 ppm	0.5024 ppm	5.1882 ppm	0.5219 ppm
Concentration per Run 2	0.4681 ppm	0.4982 ppm	0.5155 ppm	0.5041 ppm	0.5020 ppm	5.1379 ppm	0.5191 ppm
Concentration per Run 3	0.4707 ppm	0.4967 ppm	0.5134 ppm	0.5006 ppm	0.5037 ppm	5.2171 ppm	0.5306 ppm
Recovery Percentage 1	93.927 %	99.357 %	102.901 %	100.107 %	100.537 %	103.622 %	104.768 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.7 %	0.2 %	0.8 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5079 ppm	0.4952 ppm	0.4994 ppm	10.3700 ppm	0.5194 ppm	0.5027 ppm	0.4885 ppm
Concentration per Run 1	0.5074 ppm	0.4958 ppm	0.4974 ppm	10.2661 ppm	0.5204 ppm	0.5013 ppm	0.4833 ppm
Concentration per Run 2	0.5062 ppm	0.4949 ppm	0.5008 ppm	10.3833 ppm	0.5198 ppm	0.5056 ppm	0.4928 ppm
Concentration per Run 3	0.5100 ppm	0.4950 ppm	0.4999 ppm	10.4607 ppm	0.5178 ppm	0.5012 ppm	0.4895 ppm
Recovery Percentage 1	101.575 %	99.048 %	99.872 %	103.700 %	103.871 %	100.538 %	97.705 %
Concentration RSD	0.4 %	0.1 %	0.4 %	0.9 %	0.3 %	0.5 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4853 ppm	5.3880 ppm	0.5049 ppm	0.5036 ppm	0.5119 ppm	0.5098 ppm	0.4855 ppm
Concentration per Run 1	0.4843 ppm	5.3697 ppm	0.5032 ppm	0.5056 ppm	0.5116 ppm	0.5096 ppm	0.4863 ppm
Concentration per Run 2	0.4895 ppm	5.4079 ppm	0.5079 ppm	0.4998 ppm	0.5132 ppm	0.5121 ppm	0.4857 ppm
Concentration per Run 3	0.4820 ppm	5.3865 ppm	0.5037 ppm	0.5053 ppm	0.5109 ppm	0.5076 ppm	0.4843 ppm
Recovery Percentage 1	97.052 %	102.629 %	100.987 %	100.713 %	102.381 %	101.956 %	97.090 %
Concentration RSD	0.8 %	0.4 %	0.5 %	0.7 %	0.2 %	0.4 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5026 ppm	101.2855 %	101.6365 %	98.5839 %	100.0992 %	100.3425 %	98.0143 %
Concentration per Run 1	0.5036 ppm	101.5616 %	100.6705 %	99.0211 %	100.3439 %	99.2257 %	98.3712 %
Concentration per Run 2	0.5019 ppm	101.3296 %	102.4592 %	98.7480 %	100.0515 %	101.1068 %	98.5230 %
Concentration per Run 3	0.5024 ppm	100.9652 %	101.7800 %	97.9825 %	99.9022 %	100.6951 %	97.1486 %
Recovery Percentage 1	100.523 %						
Concentration RSD	0.2 %	0.3 %	0.9 %	0.5 %	0.2 %	1.0 %	0.8 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 3:46:34 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.0070 ppm	0.0002 ppm	-0.0016 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 1	0.0006 ppm	0.0020 ppm	0.0011 ppm	-0.0018 ppm	-0.0001 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 2	0.0002 ppm	0.0058 ppm	-0.0007 ppm	-0.0012 ppm	-0.0001 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 3	0.0002 ppm	0.0133 ppm	0.0002 ppm	-0.0016 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	4.533 %	7.020 %	3.908 %	-5.216 %	-0.478 %	0.736 %	-0.697 %
Concentration RSD	66.5 %	81.8 %	462.7 %	18.9 %	55.6 %	46.4 %	110.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0033 ppm	0.0079 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0037 ppm	0.0082 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0029 ppm	0.0080 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0034 ppm	0.0074 ppm	-0.0002 ppm
Recovery Percentage 1	0.583 %	-0.081 %	2.045 %	3.169 %	6.640 %	0.314 %	-1.182 %
Concentration RSD	154.4 %	456.8 %	102.0 %	57.7 %	12.8 %	5.0 %	444.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0005 ppm	0.0001 ppm	0.0023 ppm	-0.0025 ppm	0.0003 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 1	0.0007 ppm	0.0001 ppm	0.0025 ppm	-0.0040 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 2	-0.0005 ppm	0.0001 ppm	0.0025 ppm	-0.0035 ppm	0.0002 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 3	0.0014 ppm	0.0001 ppm	0.0020 ppm	0.0000 ppm	0.0006 ppm	-0.0006 ppm	0.0008 ppm
Recovery Percentage 1	0.516 %	1.239 %	4.656 %	-0.125 %	1.184 %	2.293 %	0.955 %
Concentration RSD	188.6 %	7.7 %	12.9 %	88.5 %	80.3 %	402.0 %	117.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	0.0061 ppm	-0.0002 ppm	0.0000 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0013 ppm	0.0108 ppm	-0.0003 ppm	0.0000 ppm	0.0008 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	0.0002 ppm	0.0038 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0008 ppm	0.0038 ppm	-0.0004 ppm	0.0000 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm
Recovery Percentage 1	7.910 %	1.228 %	-0.372 %	0.015 %	7.599 %	-0.020 %	0.387 %
Concentration RSD	71.2 %	66.3 %	133.1 %	1,605.0 %	9.8 %	9,540.1 %	37.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	101.8657 %	101.2957 %	99.5737 %	102.6707 %	101.7665 %	99.7873 %
Concentration per Run 1	-0.0007 ppm	101.8001 %	100.9763 %	99.2554 %	102.1024 %	101.7298 %	99.5667 %
Concentration per Run 2	-0.0009 ppm	101.5070 %	102.1826 %	99.9933 %	102.5296 %	101.8676 %	100.1437 %
Concentration per Run 3	-0.0007 ppm	102.2902 %	100.7283 %	99.4723 %	103.3801 %	101.7021 %	99.6516 %
Recovery Percentage 1	-15.049 %						
Concentration RSD	13.9 %	0.4 %	0.8 %	0.4 %	0.6 %	0.1 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: LDR 500 FE
 Analysis started at: 6/27/2025 3:57:26 PM
 Rack: 1
 Vial: 60
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0067 ppm	0.0157 ppm	-0.0036 ppm	0.0008 ppm	0.0005 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 1	-0.0063 ppm	0.0182 ppm	-0.0023 ppm	-0.0002 ppm	0.0004 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 2	-0.0071 ppm	0.0109 ppm	-0.0052 ppm	0.0008 ppm	0.0005 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 3	-0.0067 ppm	0.0180 ppm	-0.0033 ppm	0.0016 ppm	0.0004 ppm	0.0000 ppm	0.0026 ppm
Concentration RSD	5.8 %	26.6 %	41.1 %	117.7 %	11.0 %	1,764.7 %	19.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0032 ppm	-0.0028 ppm	-0.0022 ppm	-0.0046 ppm	455.6935 ppm	-0.0696 ppm	0.0001 ppm
Concentration per Run 1	0.0031 ppm	-0.0028 ppm	-0.0017 ppm	-0.0046 ppm	456.6500 ppm	-0.0775 ppm	0.0004 ppm
Concentration per Run 2	0.0032 ppm	-0.0025 ppm	-0.0024 ppm	-0.0050 ppm	454.9631 ppm	-0.0658 ppm	0.0000 ppm
Concentration per Run 3	0.0034 ppm	-0.0031 ppm	-0.0024 ppm	-0.0042 ppm	455.4675 ppm	-0.0655 ppm	0.0000 ppm
Concentration RSD	4.4 %	11.4 %	18.1 %	8.6 %	0.2 %	9.8 %	246.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0280 ppm	-0.0019 ppm	-0.0031 ppm	0.0018 ppm	-0.0024 ppm	-0.0004 ppm	-0.0078 ppm
Concentration per Run 1	0.0265 ppm	-0.0019 ppm	-0.0029 ppm	-0.0017 ppm	-0.0027 ppm	-0.0006 ppm	-0.0073 ppm
Concentration per Run 2	0.0285 ppm	-0.0017 ppm	-0.0033 ppm	0.0036 ppm	-0.0025 ppm	-0.0005 ppm	-0.0086 ppm
Concentration per Run 3	0.0291 ppm	-0.0020 ppm	-0.0031 ppm	0.0035 ppm	-0.0021 ppm	-0.0001 ppm	-0.0076 ppm
Concentration RSD	4.8 %	10.0 %	6.4 %	170.3 %	12.2 %	64.7 %	8.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0043 ppm	-0.0006 ppm	0.0013 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm	-0.0050 ppm
Concentration per Run 1	-0.0041 ppm	0.0005 ppm	0.0018 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0051 ppm
Concentration per Run 2	-0.0034 ppm	-0.0005 ppm	0.0012 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0046 ppm
Concentration per Run 3	-0.0053 ppm	-0.0017 ppm	0.0011 ppm	0.0003 ppm	0.0002 ppm	-0.0009 ppm	-0.0053 ppm
Concentration RSD	22.5 %	190.5 %	28.1 %	12.3 %	87.1 %	268.5 %	6.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0022 ppm	99.2558 %	100.5668 %	87.7680 %	98.7431 %	98.6875 %	94.4095 %
Concentration per Run 1	-0.0021 ppm	99.6498 %	100.1971 %	87.6431 %	99.0470 %	98.4045 %	94.4767 %
Concentration per Run 2	-0.0023 ppm	99.5032 %	101.0424 %	87.7580 %	98.9741 %	98.9165 %	94.1315 %
Concentration per Run 3	-0.0024 ppm	98.6144 %	100.4608 %	87.9029 %	98.2084 %	98.7414 %	94.6203 %
Concentration RSD	7.1 %	0.6 %	0.4 %	0.1 %	0.5 %	0.3 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-11d2 WG2084309
 Analysis started at: 6/27/2025 4:14:19 PM
 Rack: 2
 Vial: 1
 Comment: Instrument issue

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0027 ppm	188.1094 ppm	0.0316 ppm	0.0109 ppm	1.5098 ppm	0.0079 ppm	20.3104 ppm
Concentration per Run 1	-0.0025 ppm	190.8163 ppm	0.0328 ppm	0.0114 ppm	1.5300 ppm	0.0080 ppm	20.4718 ppm
Concentration per Run 2	-0.0027 ppm	185.5751 ppm	0.0313 ppm	0.0104 ppm	1.4981 ppm	0.0079 ppm	20.1137 ppm
Concentration per Run 3	-0.0029 ppm	187.9368 ppm	0.0307 ppm	0.0110 ppm	1.5013 ppm	0.0079 ppm	20.3458 ppm
Concentration RSD	7.1 %	1.4 %	3.4 %	4.4 %	1.2 %	0.4 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0027 ppm	0.1245 ppm	0.2757 ppm	0.1408 ppm	233.8402 ppm	19.6686 ppm	0.1871 ppm
Concentration per Run 1	0.0027 ppm	0.1259 ppm	0.2779 ppm	0.1409 ppm	234.6233 ppm	19.8728 ppm	0.1924 ppm
Concentration per Run 2	0.0026 ppm	0.1238 ppm	0.2761 ppm	0.1408 ppm	233.3408 ppm	19.4396 ppm	0.1836 ppm
Concentration per Run 3	0.0028 ppm	0.1239 ppm	0.2730 ppm	0.1408 ppm	233.5564 ppm	19.6934 ppm	0.1852 ppm
Concentration RSD	3.0 %	0.9 %	0.9 %	0.0 %	0.3 %	1.1 %	2.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	59.4037 ppm	6.9247 ppm	0.0014 ppm	0.9235 ppm	0.1866 ppm	0.1615 ppm	-0.0045 ppm
Concentration per Run 1	59.6287 ppm	7.0153 ppm	0.0016 ppm	0.9368 ppm	0.1891 ppm	0.1626 ppm	-0.0036 ppm
Concentration per Run 2	59.5540 ppm	6.8658 ppm	0.0014 ppm	0.9085 ppm	0.1869 ppm	0.1611 ppm	-0.0053 ppm
Concentration per Run 3	59.0283 ppm	6.8929 ppm	0.0012 ppm	0.9252 ppm	0.1837 ppm	0.1608 ppm	-0.0045 ppm
Concentration RSD	0.6 %	1.2 %	14.2 %	1.5 %	1.5 %	0.6 %	19.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0003 ppm	7.0748 ppm	0.0224 ppm	0.1241 ppm	5.7267 ppm	-0.0009 ppm	0.3422 ppm
Concentration per Run 1	0.0001 ppm	6.9912 ppm	0.0233 ppm	0.1251 ppm	5.7450 ppm	-0.0012 ppm	0.3427 ppm
Concentration per Run 2	-0.0012 ppm	7.0594 ppm	0.0223 ppm	0.1231 ppm	5.7274 ppm	-0.0021 ppm	0.3420 ppm
Concentration per Run 3	0.0001 ppm	7.1737 ppm	0.0216 ppm	0.1243 ppm	5.7077 ppm	0.0007 ppm	0.3420 ppm
Concentration RSD	219.9 %	1.3 %	3.8 %	0.8 %	0.3 %	164.2 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6533 ppm	106.7694 %	110.7133 %	92.8346 %	130.5811 %	135.1518 %	128.2165 %
Concentration per Run 1	0.6596 ppm	106.8470 %	110.3452 %	92.7587 %	130.8675 %	135.4720 %	128.3819 %
Concentration per Run 2	0.6571 ppm	106.6012 %	111.3125 %	93.1791 %	130.8439 %	134.5597 %	128.1286 %
Concentration per Run 3	0.6433 ppm	106.8598 %	110.4823 %	92.5661 %	130.0319 %	135.4236 %	128.1391 %
Concentration RSD	1.3 %	0.1 %	0.5 %	0.3 %	0.4 %	0.4 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: xL2539318-11d10 WG2084309
 Analysis started at: 6/27/2025 4:17:37 PM
 Rack: 2
 Vial: 2
 Comment: False tl+

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	39.7006 ppm	0.0076 ppm	0.0008 ppm	0.3218 ppm	0.0017 ppm	4.3730 ppm
Concentration per Run 1	0.0002 ppm	39.7108 ppm	0.0080 ppm	0.0001 ppm	0.3222 ppm	0.0017 ppm	4.3900 ppm
Concentration per Run 2	-0.0002 ppm	39.7510 ppm	0.0064 ppm	0.0009 ppm	0.3217 ppm	0.0017 ppm	4.3889 ppm
Concentration per Run 3	-0.0005 ppm	39.6400 ppm	0.0085 ppm	0.0012 ppm	0.3215 ppm	0.0017 ppm	4.3401 ppm
Concentration RSD	276.7 %	0.1 %	14.3 %	74.8 %	0.1 %	1.3 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0006 ppm	0.0270 ppm	0.0579 ppm	0.0346 ppm	54.6400 ppm	4.0067 ppm	0.0387 ppm
Concentration per Run 1	0.0007 ppm	0.0270 ppm	0.0580 ppm	0.0348 ppm	54.7671 ppm	4.0015 ppm	0.0391 ppm
Concentration per Run 2	0.0005 ppm	0.0269 ppm	0.0574 ppm	0.0343 ppm	54.6514 ppm	3.9809 ppm	0.0383 ppm
Concentration per Run 3	0.0005 ppm	0.0271 ppm	0.0582 ppm	0.0346 ppm	54.5016 ppm	4.0378 ppm	0.0388 ppm
Concentration RSD	19.3 %	0.2 %	0.7 %	0.6 %	0.2 %	0.7 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	12.8960 ppm	1.5169 ppm	0.0002 ppm	0.1799 ppm	0.0407 ppm	0.0328 ppm	-0.0007 ppm
Concentration per Run 1	12.9250 ppm	1.5159 ppm	0.0003 ppm	0.1790 ppm	0.0409 ppm	0.0324 ppm	0.0022 ppm
Concentration per Run 2	12.8822 ppm	1.5186 ppm	0.0003 ppm	0.1808 ppm	0.0407 ppm	0.0342 ppm	-0.0026 ppm
Concentration per Run 3	12.8808 ppm	1.5161 ppm	0.0001 ppm	0.1799 ppm	0.0406 ppm	0.0320 ppm	-0.0016 ppm
Concentration RSD	0.2 %	0.1 %	32.2 %	0.5 %	0.4 %	3.5 %	386.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	1.2057 ppm	0.0041 ppm	0.0259 ppm	1.1968 ppm	-0.0015 ppm	0.0832 ppm
Concentration per Run 1	-0.0003 ppm	1.2165 ppm	0.0042 ppm	0.0262 ppm	1.2036 ppm	-0.0019 ppm	0.0829 ppm
Concentration per Run 2	0.0023 ppm	1.1939 ppm	0.0038 ppm	0.0259 ppm	1.1969 ppm	-0.0014 ppm	0.0831 ppm
Concentration per Run 3	0.0004 ppm	1.2068 ppm	0.0044 ppm	0.0258 ppm	1.1897 ppm	-0.0014 ppm	0.0836 ppm
Concentration RSD	163.1 %	0.9 %	7.1 %	0.8 %	0.6 %	18.9 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1378 ppm	103.9908 %	104.0383 %	97.9218 %	107.3091 %	107.7150 %	105.4737 %
Concentration per Run 1	0.1379 ppm	104.3877 %	103.3734 %	98.1672 %	107.5179 %	107.2753 %	105.2281 %
Concentration per Run 2	0.1374 ppm	104.0110 %	104.4460 %	98.1144 %	107.5263 %	108.3563 %	106.0427 %
Concentration per Run 3	0.1381 ppm	103.5736 %	104.2955 %	97.4837 %	106.8830 %	107.5135 %	105.1504 %
Concentration RSD	0.3 %	0.4 %	0.6 %	0.4 %	0.3 %	0.5 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084297-2d2 WG2084297
 Analysis started at: 6/27/2025 4:28:18 PM
 Rack: 2
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.3217 ppm	15.2887 ppm	0.7361 ppm	0.7061 ppm	0.7939 ppm	0.5846 ppm	14.7471 ppm
Concentration per Run 1	0.3234 ppm	15.3593 ppm	0.7357 ppm	0.7142 ppm	0.7920 ppm	0.5845 ppm	14.7331 ppm
Concentration per Run 2	0.3227 ppm	15.2485 ppm	0.7368 ppm	0.7040 ppm	0.7931 ppm	0.5842 ppm	14.7681 ppm
Concentration per Run 3	0.3191 ppm	15.2582 ppm	0.7359 ppm	0.7001 ppm	0.7966 ppm	0.5852 ppm	14.7399 ppm
Concentration RSD	0.7 %	0.4 %	0.1 %	1.0 %	0.3 %	0.1 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4715 ppm	0.9266 ppm	0.6221 ppm	0.3409 ppm	17.7020 ppm	5.4370 ppm	0.3732 ppm
Concentration per Run 1	0.4739 ppm	0.9288 ppm	0.6255 ppm	0.3416 ppm	17.7207 ppm	5.4188 ppm	0.3708 ppm
Concentration per Run 2	0.4722 ppm	0.9296 ppm	0.6238 ppm	0.3407 ppm	17.7053 ppm	5.3656 ppm	0.3667 ppm
Concentration per Run 3	0.4684 ppm	0.9213 ppm	0.6171 ppm	0.3405 ppm	17.6800 ppm	5.5268 ppm	0.3820 ppm
Concentration RSD	0.6 %	0.5 %	0.7 %	0.2 %	0.1 %	1.5 %	2.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	6.0496 ppm	1.5851 ppm	0.5872 ppm	7.6367 ppm	0.6118 ppm	0.5541 ppm	0.4508 ppm
Concentration per Run 1	6.0776 ppm	1.5836 ppm	0.5909 ppm	7.5526 ppm	0.6180 ppm	0.5549 ppm	0.4466 ppm
Concentration per Run 2	6.0646 ppm	1.5856 ppm	0.5875 ppm	7.5707 ppm	0.6155 ppm	0.5548 ppm	0.4513 ppm
Concentration per Run 3	6.0065 ppm	1.5863 ppm	0.5831 ppm	7.7868 ppm	0.6019 ppm	0.5527 ppm	0.4546 ppm
Concentration RSD	0.6 %	0.1 %	0.7 %	1.7 %	1.4 %	0.2 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.3679 ppm	9.4505 ppm	0.3845 ppm	0.7524 ppm	1.3861 ppm	0.8285 ppm	0.5630 ppm
Concentration per Run 1	0.3680 ppm	9.6831 ppm	0.3903 ppm	0.7495 ppm	1.3923 ppm	0.8302 ppm	0.5627 ppm
Concentration per Run 2	0.3674 ppm	9.4537 ppm	0.3856 ppm	0.7538 ppm	1.3849 ppm	0.8284 ppm	0.5637 ppm
Concentration per Run 3	0.3683 ppm	9.2149 ppm	0.3778 ppm	0.7538 ppm	1.3810 ppm	0.8270 ppm	0.5625 ppm
Concentration RSD	0.1 %	2.5 %	1.6 %	0.3 %	0.4 %	0.2 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1655 ppm	101.9087 %	102.5056 %	95.9909 %	105.8020 %	106.4303 %	102.9835 %
Concentration per Run 1	1.1782 ppm	101.5167 %	103.3214 %	96.1952 %	106.0331 %	106.7481 %	103.0193 %
Concentration per Run 2	1.1709 ppm	101.6831 %	103.0655 %	96.0781 %	105.7798 %	107.0077 %	103.1210 %
Concentration per Run 3	1.1473 ppm	102.5263 %	101.1297 %	95.6995 %	105.5931 %	105.5350 %	102.8102 %
Concentration RSD	1.4 %	0.5 %	1.2 %	0.3 %	0.2 %	0.7 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084297-3d2 WG2084297
 Analysis started at: 6/27/2025 4:31:37 PM
 Rack: 2
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.3353 ppm	16.1351 ppm	0.7793 ppm	0.7382 ppm	0.8941 ppm	0.6229 ppm	15.8557 ppm
Concentration per Run 1	0.3341 ppm	16.1211 ppm	0.7771 ppm	0.7303 ppm	0.8939 ppm	0.6239 ppm	15.9209 ppm
Concentration per Run 2	0.3357 ppm	16.0859 ppm	0.7828 ppm	0.7403 ppm	0.8928 ppm	0.6220 ppm	15.8230 ppm
Concentration per Run 3	0.3361 ppm	16.1982 ppm	0.7779 ppm	0.7441 ppm	0.8955 ppm	0.6227 ppm	15.8231 ppm
Concentration RSD	0.3 %	0.4 %	0.4 %	1.0 %	0.2 %	0.2 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4456 ppm	0.9620 ppm	0.6546 ppm	0.3576 ppm	19.2787 ppm	5.8019 ppm	0.4002 ppm
Concentration per Run 1	0.4460 ppm	0.9588 ppm	0.6503 ppm	0.3558 ppm	19.3270 ppm	5.7682 ppm	0.3964 ppm
Concentration per Run 2	0.4444 ppm	0.9625 ppm	0.6567 ppm	0.3581 ppm	19.2324 ppm	5.7819 ppm	0.3977 ppm
Concentration per Run 3	0.4465 ppm	0.9646 ppm	0.6568 ppm	0.3589 ppm	19.2766 ppm	5.8555 ppm	0.4065 ppm
Concentration RSD	0.2 %	0.3 %	0.6 %	0.5 %	0.2 %	0.8 %	1.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	6.1808 ppm	1.6648 ppm	0.6168 ppm	8.0548 ppm	0.6324 ppm	0.5859 ppm	0.4404 ppm
Concentration per Run 1	6.1822 ppm	1.6736 ppm	0.6139 ppm	7.9682 ppm	0.6275 ppm	0.5856 ppm	0.4427 ppm
Concentration per Run 2	6.1795 ppm	1.6577 ppm	0.6179 ppm	8.0278 ppm	0.6381 ppm	0.5861 ppm	0.4357 ppm
Concentration per Run 3	6.1808 ppm	1.6630 ppm	0.6188 ppm	8.1684 ppm	0.6317 ppm	0.5860 ppm	0.4429 ppm
Concentration RSD	0.0 %	0.5 %	0.4 %	1.3 %	0.9 %	0.0 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.3960 ppm	9.6685 ppm	0.3960 ppm	0.8480 ppm	1.4292 ppm	0.7748 ppm	0.5893 ppm
Concentration per Run 1	0.3948 ppm	9.7912 ppm	0.3917 ppm	0.8487 ppm	1.4319 ppm	0.7739 ppm	0.5889 ppm
Concentration per Run 2	0.3972 ppm	9.6192 ppm	0.3973 ppm	0.8449 ppm	1.4330 ppm	0.7743 ppm	0.5888 ppm
Concentration per Run 3	0.3960 ppm	9.5949 ppm	0.3989 ppm	0.8503 ppm	1.4227 ppm	0.7762 ppm	0.5900 ppm
Concentration RSD	0.3 %	1.1 %	1.0 %	0.3 %	0.4 %	0.2 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2130 ppm	102.0157 %	102.1544 %	95.9400 %	106.2173 %	106.6064 %	103.3965 %
Concentration per Run 1	1.2048 ppm	103.0081 %	102.2674 %	95.7023 %	107.1580 %	106.7402 %	103.0964 %
Concentration per Run 2	1.2210 ppm	101.6206 %	102.0444 %	96.0084 %	105.6860 %	106.3783 %	103.5999 %
Concentration per Run 3	1.2132 ppm	101.4185 %	102.1513 %	96.1091 %	105.8080 %	106.7006 %	103.4933 %
Concentration RSD	0.7 %	0.8 %	0.1 %	0.2 %	0.8 %	0.2 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: OB 013-01 d10
 Analysis started at: 6/27/2025 4:43:42 PM
 Rack: 2
 Vial: 5
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.3835 ppm	-0.0008 ppm	0.0162 ppm	0.0205 ppm	0.0000 ppm	47.7222 ppm
Concentration per Run 1	0.0000 ppm	0.3866 ppm	-0.0016 ppm	0.0150 ppm	0.0205 ppm	0.0000 ppm	47.6102 ppm
Concentration per Run 2	0.0005 ppm	0.3838 ppm	0.0010 ppm	0.0170 ppm	0.0205 ppm	0.0001 ppm	47.5170 ppm
Concentration per Run 3	0.0003 ppm	0.3800 ppm	-0.0017 ppm	0.0167 ppm	0.0204 ppm	0.0000 ppm	48.0393 ppm
Concentration RSD	85.5 %	0.9 %	200.8 %	6.6 %	0.4 %	34.3 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0008 ppm	0.0009 ppm	0.0006 ppm	0.0925 ppm	1.3125 ppm	0.0014 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	0.0009 ppm	0.0003 ppm	0.0926 ppm	1.3260 ppm	0.0019 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	0.0010 ppm	0.0008 ppm	0.0921 ppm	1.3033 ppm	0.0013 ppm
Concentration per Run 3	-0.0002 ppm	0.0005 ppm	0.0010 ppm	0.0008 ppm	0.0929 ppm	1.3083 ppm	0.0008 ppm
Concentration RSD	36.2 %	37.8 %	4.5 %	40.5 %	0.4 %	0.9 %	39.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.7985 ppm	0.0797 ppm	0.0008 ppm	140.2901 ppm	0.0031 ppm	0.0011 ppm	0.0004 ppm
Concentration per Run 1	0.7982 ppm	0.0797 ppm	0.0007 ppm	140.5170 ppm	0.0033 ppm	0.0012 ppm	0.0018 ppm
Concentration per Run 2	0.8007 ppm	0.0793 ppm	0.0010 ppm	140.3332 ppm	0.0028 ppm	0.0007 ppm	0.0004 ppm
Concentration per Run 3	0.7964 ppm	0.0800 ppm	0.0008 ppm	140.0200 ppm	0.0032 ppm	0.0013 ppm	-0.0010 ppm
Concentration RSD	0.3 %	0.5 %	22.9 %	0.2 %	9.9 %	29.4 %	347.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0006 ppm	6.4662 ppm	-0.0002 ppm	0.2454 ppm	0.0089 ppm	-0.0006 ppm	0.0005 ppm
Concentration per Run 1	-0.0002 ppm	6.4257 ppm	-0.0005 ppm	0.2450 ppm	0.0089 ppm	-0.0008 ppm	0.0006 ppm
Concentration per Run 2	0.0010 ppm	6.4906 ppm	-0.0001 ppm	0.2470 ppm	0.0090 ppm	-0.0006 ppm	0.0005 ppm
Concentration per Run 3	0.0011 ppm	6.4824 ppm	0.0000 ppm	0.2442 ppm	0.0090 ppm	-0.0004 ppm	0.0004 ppm
Concentration RSD	109.8 %	0.5 %	120.3 %	0.6 %	0.4 %	37.4 %	20.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0142 ppm	97.5921 %	101.0110 %	90.6340 %	95.5258 %	99.2664 %	94.0174 %
Concentration per Run 1	0.0143 ppm	98.1887 %	101.4532 %	90.8853 %	96.3893 %	100.0610 %	94.2338 %
Concentration per Run 2	0.0143 ppm	96.8455 %	101.3518 %	90.3773 %	94.6099 %	99.3531 %	93.8096 %
Concentration per Run 3	0.0142 ppm	97.7421 %	100.2279 %	90.6394 %	95.5783 %	98.3852 %	94.0087 %
Concentration RSD	0.4 %	0.7 %	0.7 %	0.3 %	0.9 %	0.8 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 4:47:01 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5248 ppm	0.4816 ppm	0.4670 ppm	0.4901 ppm	0.4944 ppm	0.4946 ppm	0.4806 ppm
Concentration per Run 1	0.5273 ppm	0.4816 ppm	0.4647 ppm	0.4941 ppm	0.4916 ppm	0.4940 ppm	0.4774 ppm
Concentration per Run 2	0.5241 ppm	0.4786 ppm	0.4694 ppm	0.4919 ppm	0.4939 ppm	0.4933 ppm	0.4803 ppm
Concentration per Run 3	0.5230 ppm	0.4846 ppm	0.4668 ppm	0.4842 ppm	0.4977 ppm	0.4964 ppm	0.4842 ppm
Recovery Percentage 1	104.964 %	96.315 %	93.398 %	98.016 %	98.882 %	98.910 %	96.128 %
Concentration RSD	0.4 %	0.6 %	0.5 %	1.1 %	0.6 %	0.3 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4636 ppm	0.4902 ppm	0.5077 ppm	0.4990 ppm	0.4931 ppm	5.1170 ppm	0.5202 ppm
Concentration per Run 1	0.4645 ppm	0.4903 ppm	0.5117 ppm	0.4966 ppm	0.4966 ppm	5.1006 ppm	0.5182 ppm
Concentration per Run 2	0.4623 ppm	0.4897 ppm	0.5081 ppm	0.5000 ppm	0.4906 ppm	5.0938 ppm	0.5198 ppm
Concentration per Run 3	0.4641 ppm	0.4905 ppm	0.5032 ppm	0.5003 ppm	0.4919 ppm	5.1567 ppm	0.5225 ppm
Recovery Percentage 1	92.722 %	98.034 %	101.540 %	99.797 %	98.610 %	102.340 %	104.035 %
Concentration RSD	0.3 %	0.1 %	0.8 %	0.4 %	0.6 %	0.7 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5013 ppm	0.4943 ppm	0.4924 ppm	10.2604 ppm	0.5104 ppm	0.4991 ppm	0.4868 ppm
Concentration per Run 1	0.5063 ppm	0.4937 ppm	0.4942 ppm	10.2769 ppm	0.5166 ppm	0.5001 ppm	0.4837 ppm
Concentration per Run 2	0.4996 ppm	0.4946 ppm	0.4925 ppm	10.2410 ppm	0.5104 ppm	0.4993 ppm	0.4884 ppm
Concentration per Run 3	0.4980 ppm	0.4947 ppm	0.4906 ppm	10.2632 ppm	0.5043 ppm	0.4980 ppm	0.4882 ppm
Recovery Percentage 1	100.264 %	98.862 %	98.487 %	102.604 %	102.086 %	99.826 %	97.354 %
Concentration RSD	0.9 %	0.1 %	0.4 %	0.2 %	1.2 %	0.2 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4778 ppm	5.3095 ppm	0.4968 ppm	0.5007 ppm	0.5062 ppm	0.5041 ppm	0.4840 ppm
Concentration per Run 1	0.4776 ppm	5.3216 ppm	0.5014 ppm	0.4973 ppm	0.5087 ppm	0.5043 ppm	0.4827 ppm
Concentration per Run 2	0.4783 ppm	5.3076 ppm	0.4993 ppm	0.4991 ppm	0.5057 ppm	0.5036 ppm	0.4860 ppm
Concentration per Run 3	0.4774 ppm	5.2995 ppm	0.4897 ppm	0.5058 ppm	0.5043 ppm	0.5045 ppm	0.4833 ppm
Recovery Percentage 1	95.553 %	101.134 %	99.354 %	100.142 %	101.246 %	100.826 %	96.800 %
Concentration RSD	0.1 %	0.2 %	1.3 %	0.9 %	0.5 %	0.1 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4927 ppm	102.9398 %	102.4238 %	99.4583 %	100.5157 %	101.1055 %	98.4084 %
Concentration per Run 1	0.4982 ppm	102.2600 %	103.2606 %	98.6884 %	100.6132 %	101.8111 %	97.6060 %
Concentration per Run 2	0.4940 ppm	102.7142 %	102.1771 %	99.3196 %	99.9036 %	101.3895 %	98.3348 %
Concentration per Run 3	0.4859 ppm	103.8451 %	101.8338 %	100.3670 %	101.0304 %	100.1159 %	99.2842 %
Recovery Percentage 1	98.533 %						
Concentration RSD	1.3 %	0.8 %	0.7 %	0.9 %	0.6 %	0.9 %	0.9 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 4:50:14 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0025 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 1	0.0002 ppm	0.0037 ppm	-0.0008 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0022 ppm	0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	-0.0003 ppm	0.0016 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0015 ppm
Recovery Percentage 1	-0.103 %	2.502 %	-3.552 %	-0.696 %	-0.127 %	0.479 %	-0.861 %
Concentration RSD	3,334.3 %	43.4 %	399.7 %	291.6 %	133.1 %	75.7 %	84.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0013 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0016 ppm	0.0072 ppm	0.0004 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0017 ppm	-0.0055 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0008 ppm	-0.0002 ppm
Recovery Percentage 1	0.462 %	-0.580 %	1.063 %	2.766 %	2.617 %	0.011 %	8.311 %
Concentration RSD	206.5 %	101.6 %	228.4 %	57.0 %	45.2 %	2,261.6 %	157.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0008 ppm	0.0001 ppm	0.0026 ppm	0.0017 ppm	0.0001 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 1	0.0007 ppm	0.0001 ppm	0.0029 ppm	0.0050 ppm	0.0001 ppm	0.0002 ppm	0.0018 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	0.0029 ppm	-0.0014 ppm	0.0004 ppm	0.0004 ppm	0.0013 ppm
Concentration per Run 3	0.0015 ppm	0.0003 ppm	0.0021 ppm	0.0013 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm
Recovery Percentage 1	0.817 %	1.005 %	5.267 %	0.083 %	0.296 %	1.813 %	2.401 %
Concentration RSD	82.3 %	137.2 %	18.6 %	192.8 %	416.2 %	94.3 %	55.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0010 ppm	0.0022 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0007 ppm	0.0015 ppm	-0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 2	0.0013 ppm	0.0022 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 3	0.0011 ppm	0.0030 ppm	-0.0009 ppm	0.0001 ppm	0.0004 ppm	-0.0004 ppm	-0.0003 ppm
Recovery Percentage 1	10.251 %	0.449 %	-0.806 %	0.268 %	3.154 %	-1.603 %	-0.417 %
Concentration RSD	26.7 %	34.0 %	120.0 %	247.6 %	39.1 %	179.1 %	602.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	101.4399 %	101.4059 %	99.8671 %	102.1760 %	101.9223 %	100.0895 %
Concentration per Run 1	-0.0008 ppm	101.3019 %	101.5942 %	99.9916 %	102.5750 %	102.0394 %	100.0945 %
Concentration per Run 2	-0.0008 ppm	101.7958 %	100.8946 %	100.3705 %	101.5964 %	101.0114 %	100.5053 %
Concentration per Run 3	-0.0007 ppm	101.2219 %	101.7288 %	99.2392 %	102.3565 %	102.7159 %	99.6685 %
Recovery Percentage 1	-15.075 %						
Concentration RSD	1.6 %	0.3 %	0.4 %	0.6 %	0.5 %	0.8 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-01 WG2079154
 Analysis started at: 6/27/2025 5:11:00 PM
 Rack: 2
 Vial: 6
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0989 ppm	0.0019 ppm	0.0012 ppm	0.0051 ppm	0.0001 ppm	0.7133 ppm
Concentration per Run 1	0.0000 ppm	0.0953 ppm	0.0025 ppm	0.0010 ppm	0.0052 ppm	0.0001 ppm	0.7112 ppm
Concentration per Run 2	0.0002 ppm	0.1006 ppm	0.0015 ppm	0.0007 ppm	0.0052 ppm	0.0001 ppm	0.7139 ppm
Concentration per Run 3	0.0001 ppm	0.1007 ppm	0.0019 ppm	0.0019 ppm	0.0051 ppm	0.0001 ppm	0.7147 ppm
Concentration RSD	93.6 %	3.2 %	25.8 %	51.8 %	1.2 %	6.1 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0092 ppm	0.0003 ppm	0.0004 ppm	0.9826 ppm	0.5776 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0094 ppm	0.0004 ppm	0.0005 ppm	0.9766 ppm	0.5926 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0093 ppm	0.0002 ppm	0.0004 ppm	0.9867 ppm	0.5802 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0089 ppm	0.0004 ppm	0.0004 ppm	0.9844 ppm	0.5599 ppm	0.0005 ppm
Concentration RSD	92.4 %	2.9 %	36.7 %	11.8 %	0.5 %	2.9 %	62.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.6439 ppm	0.8937 ppm	0.0005 ppm	2.8451 ppm	0.0088 ppm	0.0003 ppm	0.0008 ppm
Concentration per Run 1	0.6423 ppm	0.8906 ppm	0.0007 ppm	2.8432 ppm	0.0089 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 2	0.6454 ppm	0.8971 ppm	0.0004 ppm	2.8715 ppm	0.0083 ppm	0.0011 ppm	0.0018 ppm
Concentration per Run 3	0.6441 ppm	0.8933 ppm	0.0002 ppm	2.8205 ppm	0.0091 ppm	-0.0002 ppm	-0.0002 ppm
Concentration RSD	0.2 %	0.4 %	54.3 %	0.9 %	5.0 %	193.9 %	127.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	5.0292 ppm	-0.0009 ppm	0.0093 ppm	0.0002 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.0009 ppm	5.0261 ppm	-0.0001 ppm	0.0094 ppm	0.0002 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 2	0.0020 ppm	5.0280 ppm	-0.0013 ppm	0.0093 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0014 ppm	5.0335 ppm	-0.0014 ppm	0.0093 ppm	0.0002 ppm	-0.0009 ppm	-0.0001 ppm
Concentration RSD	185.6 %	0.1 %	79.1 %	0.5 %	78.6 %	158.1 %	2,580.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	104.1280 %	104.2854 %	103.2764 %	102.6167 %	103.3942 %	100.7391 %
Concentration per Run 1	0.0009 ppm	104.4264 %	104.3904 %	102.8049 %	102.3714 %	103.5040 %	100.2468 %
Concentration per Run 2	0.0008 ppm	103.3602 %	104.4439 %	103.6851 %	101.5577 %	103.4999 %	100.8721 %
Concentration per Run 3	0.0009 ppm	104.5973 %	104.0217 %	103.3392 %	103.9209 %	103.1785 %	101.0984 %
Concentration RSD	11.3 %	0.6 %	0.2 %	0.4 %	1.2 %	0.2 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-02 WG2079154
 Analysis started at: 6/27/2025 5:14:26 PM
 Rack: 2
 Vial: 7
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0056 ppm	-0.0004 ppm	0.0209 ppm	0.0284 ppm	0.0000 ppm	7.9273 ppm
Concentration per Run 1	0.0002 ppm	-0.0017 ppm	0.0006 ppm	0.0216 ppm	0.0286 ppm	0.0000 ppm	7.9324 ppm
Concentration per Run 2	0.0000 ppm	0.0092 ppm	-0.0019 ppm	0.0208 ppm	0.0282 ppm	0.0000 ppm	7.9391 ppm
Concentration per Run 3	0.0000 ppm	0.0091 ppm	0.0000 ppm	0.0203 ppm	0.0284 ppm	0.0000 ppm	7.9103 ppm
Concentration RSD	252.4 %	113.2 %	285.2 %	3.3 %	0.7 %	110.3 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0012 ppm	0.0062 ppm	3.0173 ppm	0.0015 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0010 ppm	0.0062 ppm	3.0535 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0015 ppm	0.0055 ppm	3.0207 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0013 ppm	0.0070 ppm	2.9776 ppm	0.0014 ppm
Concentration RSD	219.4 %	549.6 %	41.1 %	20.9 %	11.8 %	1.3 %	11.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.8385 ppm	0.0046 ppm	0.0006 ppm	209.6561 ppm	0.0008 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 1	0.8448 ppm	0.0046 ppm	0.0006 ppm	210.9336 ppm	0.0012 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 2	0.8391 ppm	0.0048 ppm	0.0005 ppm	209.8546 ppm	0.0002 ppm	0.0003 ppm	0.0012 ppm
Concentration per Run 3	0.8315 ppm	0.0044 ppm	0.0006 ppm	208.1801 ppm	0.0010 ppm	0.0002 ppm	0.0010 ppm
Concentration RSD	0.8 %	5.3 %	13.4 %	0.7 %	63.0 %	122.9 %	45.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0009 ppm	5.9192 ppm	-0.0010 ppm	0.0763 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.0014 ppm	5.9335 ppm	-0.0015 ppm	0.0768 ppm	0.0002 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	5.9155 ppm	-0.0004 ppm	0.0759 ppm	0.0002 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 3	-0.0007 ppm	5.9086 ppm	-0.0011 ppm	0.0762 ppm	0.0001 ppm	0.0009 ppm	-0.0001 ppm
Concentration RSD	47.5 %	0.2 %	58.8 %	0.6 %	57.2 %	160.2 %	397.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	96.0510 %	99.1236 %	89.1301 %	93.2832 %	97.3837 %	92.3461 %
Concentration per Run 1	0.0013 ppm	95.9027 %	99.0996 %	89.2102 %	93.7370 %	97.7351 %	92.4781 %
Concentration per Run 2	0.0015 ppm	96.5028 %	99.3105 %	88.9231 %	93.0218 %	97.5103 %	92.4151 %
Concentration per Run 3	0.0018 ppm	95.7476 %	98.9607 %	89.2569 %	93.0908 %	96.9058 %	92.1450 %
Concentration RSD	15.0 %	0.4 %	0.2 %	0.2 %	0.4 %	0.4 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-03 WG2079154
 Analysis started at: 6/27/2025 5:17:39 PM
 Rack: 2
 Vial: 8
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0020 ppm	-0.0005 ppm	0.0244 ppm	0.0267 ppm	0.0000 ppm	16.2911 ppm
Concentration per Run 1	0.0000 ppm	-0.0016 ppm	-0.0003 ppm	0.0240 ppm	0.0265 ppm	0.0000 ppm	16.3449 ppm
Concentration per Run 2	0.0000 ppm	0.0044 ppm	0.0011 ppm	0.0236 ppm	0.0268 ppm	0.0000 ppm	16.3089 ppm
Concentration per Run 3	-0.0001 ppm	0.0031 ppm	-0.0023 ppm	0.0256 ppm	0.0268 ppm	0.0000 ppm	16.2196 ppm
Concentration RSD	242.4 %	162.5 %	341.8 %	4.2 %	0.7 %	456.5 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0002 ppm	0.0046 ppm	0.0000 ppm	0.0012 ppm	0.0122 ppm	3.6992 ppm	0.0027 ppm
Concentration per Run 1	0.0002 ppm	0.0049 ppm	0.0002 ppm	0.0013 ppm	0.0128 ppm	3.6554 ppm	0.0025 ppm
Concentration per Run 2	0.0002 ppm	0.0042 ppm	-0.0001 ppm	0.0012 ppm	0.0122 ppm	3.7242 ppm	0.0030 ppm
Concentration per Run 3	0.0002 ppm	0.0047 ppm	-0.0002 ppm	0.0012 ppm	0.0116 ppm	3.7180 ppm	0.0024 ppm
Concentration RSD	7.8 %	7.7 %	516.6 %	4.9 %	4.8 %	1.0 %	12.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.1181 ppm	0.4594 ppm	0.0001 ppm	94.6550 ppm	0.0229 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 1	3.1225 ppm	0.4598 ppm	0.0002 ppm	93.9852 ppm	0.0227 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 2	3.1318 ppm	0.4597 ppm	-0.0002 ppm	95.1176 ppm	0.0228 ppm	-0.0006 ppm	-0.0007 ppm
Concentration per Run 3	3.1001 ppm	0.4586 ppm	0.0002 ppm	94.8622 ppm	0.0231 ppm	-0.0010 ppm	0.0008 ppm
Concentration RSD	0.5 %	0.1 %	293.5 %	0.6 %	1.0 %	136.0 %	230.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0004 ppm	6.9332 ppm	-0.0005 ppm	0.1198 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 1	0.0018 ppm	6.9807 ppm	-0.0007 ppm	0.1190 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 2	0.0002 ppm	6.9259 ppm	-0.0006 ppm	0.1203 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0007 ppm	6.8929 ppm	-0.0002 ppm	0.1202 ppm	0.0002 ppm	-0.0013 ppm	-0.0001 ppm
Concentration RSD	284.3 %	0.6 %	55.6 %	0.6 %	96.7 %	107.7 %	25.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	98.4914 %	101.5236 %	93.0741 %	96.6296 %	99.5772 %	94.4064 %
Concentration per Run 1	0.0005 ppm	99.0347 %	101.7232 %	93.3231 %	97.2655 %	99.8494 %	94.5663 %
Concentration per Run 2	0.0005 ppm	97.9152 %	101.3224 %	92.2782 %	96.1044 %	99.3198 %	93.8924 %
Concentration per Run 3	0.0007 ppm	98.5244 %	101.5251 %	93.6209 %	96.5188 %	99.5624 %	94.7603 %
Concentration RSD	18.0 %	0.6 %	0.2 %	0.8 %	0.6 %	0.3 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-04 WG2079154
 Analysis started at: 6/27/2025 5:20:52 PM
 Rack: 2
 Vial: 9
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0004 ppm	0.0044 ppm	0.2531 ppm	0.0522 ppm	0.1058 ppm	0.0000 ppm	68.7708 ppm
Concentration per Run 1	-0.0005 ppm	0.0020 ppm	0.2510 ppm	0.0512 ppm	0.1059 ppm	0.0000 ppm	68.5377 ppm
Concentration per Run 2	-0.0003 ppm	0.0082 ppm	0.2537 ppm	0.0518 ppm	0.1058 ppm	0.0000 ppm	68.7747 ppm
Concentration per Run 3	-0.0003 ppm	0.0029 ppm	0.2546 ppm	0.0536 ppm	0.1059 ppm	0.0000 ppm	69.0000 ppm
Concentration RSD	28.1 %	75.4 %	0.7 %	2.4 %	0.1 %	154.6 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0018 ppm	-0.0007 ppm	0.0002 ppm	41.8194 ppm	6.8510 ppm	0.0032 ppm
Concentration per Run 1	0.0000 ppm	0.0016 ppm	-0.0005 ppm	0.0001 ppm	41.5944 ppm	6.8595 ppm	0.0039 ppm
Concentration per Run 2	0.0001 ppm	0.0017 ppm	-0.0007 ppm	0.0003 ppm	41.6977 ppm	6.8573 ppm	0.0028 ppm
Concentration per Run 3	-0.0001 ppm	0.0019 ppm	-0.0008 ppm	0.0002 ppm	42.1661 ppm	6.8362 ppm	0.0030 ppm
Concentration RSD	297.9 %	9.5 %	19.0 %	30.1 %	0.7 %	0.2 %	16.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	9.3652 ppm	11.3553 ppm	-0.0008 ppm	56.2223 ppm	0.0028 ppm	-0.0010 ppm	-0.0017 ppm
Concentration per Run 1	9.4187 ppm	11.3072 ppm	-0.0005 ppm	56.3176 ppm	0.0028 ppm	-0.0015 ppm	-0.0023 ppm
Concentration per Run 2	9.3144 ppm	11.3481 ppm	-0.0011 ppm	56.4701 ppm	0.0028 ppm	-0.0007 ppm	-0.0014 ppm
Concentration per Run 3	9.3626 ppm	11.4105 ppm	-0.0008 ppm	55.8792 ppm	0.0028 ppm	-0.0008 ppm	-0.0015 ppm
Concentration RSD	0.6 %	0.5 %	37.4 %	0.5 %	0.9 %	42.2 %	30.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0027 ppm	11.6820 ppm	-0.0007 ppm	0.3588 ppm	0.0002 ppm	-0.0078 ppm	-0.0008 ppm
Concentration per Run 1	-0.0026 ppm	11.7494 ppm	-0.0005 ppm	0.3586 ppm	0.0001 ppm	-0.0073 ppm	-0.0009 ppm
Concentration per Run 2	-0.0011 ppm	11.5865 ppm	-0.0017 ppm	0.3589 ppm	0.0003 ppm	-0.0076 ppm	-0.0008 ppm
Concentration per Run 3	-0.0045 ppm	11.7101 ppm	0.0000 ppm	0.3590 ppm	0.0003 ppm	-0.0085 ppm	-0.0008 ppm
Concentration RSD	60.6 %	0.7 %	126.6 %	0.0 %	67.2 %	7.6 %	9.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	98.2705 %	100.4243 %	90.3501 %	96.1832 %	98.6102 %	93.0458 %
Concentration per Run 1	0.0004 ppm	98.0687 %	100.4529 %	90.7095 %	96.4529 %	98.6588 %	93.3533 %
Concentration per Run 2	0.0004 ppm	97.9997 %	101.3188 %	90.5357 %	95.6074 %	99.7102 %	93.4372 %
Concentration per Run 3	0.0006 ppm	98.7432 %	99.5010 %	89.8049 %	96.4893 %	97.4617 %	92.3470 %
Concentration RSD	31.8 %	0.4 %	0.9 %	0.5 %	0.5 %	1.1 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-05 WG2079154
 Analysis started at: 6/27/2025 5:25:32 PM
 Rack: 2
 Vial: 10
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0267 ppm	0.0264 ppm	0.0415 ppm	0.0697 ppm	0.0000 ppm	41.3670 ppm
Concentration per Run 1	-0.0001 ppm	0.0272 ppm	0.0263 ppm	0.0418 ppm	0.0702 ppm	0.0000 ppm	41.4566 ppm
Concentration per Run 2	0.0003 ppm	0.0290 ppm	0.0273 ppm	0.0425 ppm	0.0696 ppm	0.0000 ppm	41.2468 ppm
Concentration per Run 3	0.0002 ppm	0.0239 ppm	0.0257 ppm	0.0403 ppm	0.0694 ppm	0.0000 ppm	41.3975 ppm
Concentration RSD	175.5 %	9.9 %	3.1 %	2.7 %	0.6 %	12.4 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0012 ppm	0.0004 ppm	0.0053 ppm	0.6471 ppm	51.2453 ppm	0.0013 ppm
Concentration per Run 1	-0.0001 ppm	0.0013 ppm	0.0005 ppm	0.0052 ppm	0.6467 ppm	51.4307 ppm	0.0016 ppm
Concentration per Run 2	-0.0002 ppm	0.0013 ppm	0.0005 ppm	0.0054 ppm	0.6483 ppm	51.0901 ppm	0.0009 ppm
Concentration per Run 3	-0.0001 ppm	0.0009 ppm	0.0004 ppm	0.0054 ppm	0.6463 ppm	51.2150 ppm	0.0014 ppm
Concentration RSD	36.5 %	19.8 %	18.0 %	2.3 %	0.2 %	0.3 %	27.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	6.9891 ppm	1.2645 ppm	0.0005 ppm	91.2588 ppm	0.0088 ppm	0.0001 ppm	0.0012 ppm
Concentration per Run 1	7.0146 ppm	1.2671 ppm	0.0002 ppm	91.6572 ppm	0.0096 ppm	0.0006 ppm	0.0029 ppm
Concentration per Run 2	7.0047 ppm	1.2648 ppm	0.0008 ppm	90.9725 ppm	0.0086 ppm	-0.0002 ppm	0.0009 ppm
Concentration per Run 3	6.9481 ppm	1.2617 ppm	0.0004 ppm	91.1467 ppm	0.0081 ppm	-0.0002 ppm	-0.0001 ppm
Concentration RSD	0.5 %	0.2 %	59.0 %	0.4 %	8.5 %	469.1 %	124.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0003 ppm	7.9854 ppm	-0.0013 ppm	0.1641 ppm	0.0005 ppm	-0.0046 ppm	0.0003 ppm
Concentration per Run 1	0.0016 ppm	7.9955 ppm	-0.0018 ppm	0.1644 ppm	0.0005 ppm	-0.0041 ppm	0.0002 ppm
Concentration per Run 2	-0.0034 ppm	8.0400 ppm	-0.0015 ppm	0.1638 ppm	0.0005 ppm	-0.0042 ppm	0.0004 ppm
Concentration per Run 3	0.0008 ppm	7.9208 ppm	-0.0007 ppm	0.1640 ppm	0.0006 ppm	-0.0055 ppm	0.0001 ppm
Concentration RSD	803.6 %	0.8 %	44.3 %	0.2 %	16.3 %	18.0 %	61.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0099 ppm	97.5763 %	100.5891 %	91.1831 %	96.1873 %	99.4633 %	93.9665 %
Concentration per Run 1	0.0099 ppm	97.1616 %	100.4187 %	91.3355 %	95.9986 %	99.4199 %	93.9087 %
Concentration per Run 2	0.0102 ppm	97.1832 %	100.3366 %	91.2403 %	96.3046 %	98.9543 %	93.8462 %
Concentration per Run 3	0.0097 ppm	98.3843 %	101.0119 %	90.9737 %	96.2589 %	100.0157 %	94.1446 %
Concentration RSD	2.1 %	0.7 %	0.4 %	0.2 %	0.2 %	0.5 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-06 WG2079154
 Analysis started at: 6/27/2025 5:28:52 PM
 Rack: 2
 Vial: 11
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0207 ppm	-0.0003 ppm	0.0089 ppm	0.0159 ppm	0.0000 ppm	12.4996 ppm
Concentration per Run 1	-0.0001 ppm	0.0196 ppm	0.0004 ppm	0.0071 ppm	0.0158 ppm	0.0000 ppm	12.5102 ppm
Concentration per Run 2	0.0001 ppm	0.0232 ppm	-0.0002 ppm	0.0093 ppm	0.0158 ppm	0.0000 ppm	12.6091 ppm
Concentration per Run 3	0.0001 ppm	0.0194 ppm	-0.0010 ppm	0.0102 ppm	0.0159 ppm	0.0000 ppm	12.3795 ppm
Concentration RSD	256.0 %	10.1 %	264.5 %	18.2 %	0.5 %	107.5 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0009 ppm	0.0033 ppm	2.4778 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0009 ppm	0.0034 ppm	2.4888 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0008 ppm	0.0033 ppm	2.4862 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0011 ppm	0.0033 ppm	2.4585 ppm	0.0003 ppm
Concentration RSD	190.6 %	288.3 %	51.4 %	17.0 %	2.8 %	0.7 %	89.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.0518 ppm	0.0078 ppm	0.0001 ppm	48.4697 ppm	0.0013 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 1	2.0576 ppm	0.0078 ppm	0.0004 ppm	48.5450 ppm	0.0015 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 2	2.0570 ppm	0.0079 ppm	0.0000 ppm	49.0054 ppm	0.0009 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 3	2.0408 ppm	0.0078 ppm	-0.0001 ppm	47.8588 ppm	0.0015 ppm	-0.0005 ppm	0.0008 ppm
Concentration RSD	0.5 %	0.8 %	246.4 %	1.2 %	28.1 %	153.2 %	126.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0007 ppm	5.4860 ppm	-0.0005 ppm	0.0870 ppm	0.0001 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	-0.0002 ppm	5.4774 ppm	-0.0004 ppm	0.0869 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	-0.0025 ppm	5.5251 ppm	-0.0004 ppm	0.0871 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0006 ppm	5.4555 ppm	-0.0007 ppm	0.0871 ppm	0.0004 ppm	-0.0011 ppm	0.0000 ppm
Concentration RSD	227.0 %	0.6 %	37.7 %	0.1 %	237.6 %	207.2 %	129.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	100.9330 %	102.7568 %	96.5939 %	99.1958 %	100.8403 %	96.6336 %
Concentration per Run 1	-0.0001 ppm	100.9822 %	102.6066 %	96.4885 %	99.7987 %	100.6494 %	96.5525 %
Concentration per Run 2	-0.0001 ppm	100.3148 %	102.3630 %	96.9764 %	98.7931 %	101.0720 %	97.1096 %
Concentration per Run 3	-0.0002 ppm	101.5019 %	103.3009 %	96.3169 %	98.9957 %	100.7995 %	96.2387 %
Concentration RSD	69.7 %	0.6 %	0.5 %	0.4 %	0.5 %	0.2 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-07 WG2079154
 Analysis started at: 6/27/2025 5:32:06 PM
 Rack: 2
 Vial: 12
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.3340 ppm	0.0015 ppm	0.0026 ppm	0.1286 ppm	0.0006 ppm	16.8154 ppm
Concentration per Run 1	0.0002 ppm	0.3319 ppm	-0.0003 ppm	0.0038 ppm	0.1288 ppm	0.0006 ppm	16.7979 ppm
Concentration per Run 2	0.0002 ppm	0.3353 ppm	0.0012 ppm	0.0017 ppm	0.1283 ppm	0.0007 ppm	16.7972 ppm
Concentration per Run 3	0.0002 ppm	0.3350 ppm	0.0035 ppm	0.0022 ppm	0.1286 ppm	0.0006 ppm	16.8510 ppm
Concentration RSD	15.7 %	0.6 %	128.0 %	43.8 %	0.2 %	4.7 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0012 ppm	0.0005 ppm	0.0010 ppm	2.2813 ppm	2.7772 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0015 ppm	0.0005 ppm	0.0010 ppm	2.2836 ppm	2.8092 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0012 ppm	0.0006 ppm	0.0011 ppm	2.2758 ppm	2.7427 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	0.0004 ppm	0.0008 ppm	2.2845 ppm	2.7798 ppm	0.0009 ppm
Concentration RSD	636.5 %	24.3 %	18.2 %	19.1 %	0.2 %	1.2 %	36.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.4987 ppm	0.2061 ppm	-0.0001 ppm	119.1452 ppm	0.0028 ppm	0.0004 ppm	0.0021 ppm
Concentration per Run 1	3.5216 ppm	0.2066 ppm	-0.0001 ppm	119.9479 ppm	0.0027 ppm	0.0001 ppm	0.0046 ppm
Concentration per Run 2	3.4919 ppm	0.2057 ppm	0.0001 ppm	118.6048 ppm	0.0028 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 3	3.4826 ppm	0.2061 ppm	-0.0001 ppm	118.8830 ppm	0.0030 ppm	0.0008 ppm	0.0011 ppm
Concentration RSD	0.6 %	0.2 %	192.7 %	0.6 %	6.2 %	91.1 %	103.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0002 ppm	4.4354 ppm	-0.0010 ppm	0.1774 ppm	0.0003 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 1	0.0012 ppm	4.4583 ppm	-0.0009 ppm	0.1768 ppm	0.0005 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 2	-0.0005 ppm	4.4209 ppm	-0.0014 ppm	0.1774 ppm	0.0002 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	4.4269 ppm	-0.0005 ppm	0.1779 ppm	0.0003 ppm	0.0009 ppm	0.0004 ppm
Concentration RSD	422.2 %	0.5 %	47.2 %	0.3 %	47.6 %	138.7 %	18.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0022 ppm	98.6572 %	101.4698 %	92.4010 %	97.2212 %	100.1974 %	94.9823 %
Concentration per Run 1	0.0023 ppm	98.2016 %	101.9194 %	92.8511 %	97.4549 %	101.0024 %	95.5666 %
Concentration per Run 2	0.0020 ppm	98.8049 %	100.6631 %	92.4987 %	97.1682 %	99.0759 %	95.1013 %
Concentration per Run 3	0.0022 ppm	98.9650 %	101.8267 %	91.8532 %	97.0406 %	100.5139 %	94.2788 %
Concentration RSD	6.3 %	0.4 %	0.7 %	0.5 %	0.2 %	1.0 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-08 WG2079154
 Analysis started at: 6/27/2025 5:35:19 PM
 Rack: 2
 Vial: 13
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0846 ppm	0.0073 ppm	0.0081 ppm	0.2186 ppm	0.0001 ppm	24.3313 ppm
Concentration per Run 1	0.0002 ppm	0.0851 ppm	0.0086 ppm	0.0077 ppm	0.2181 ppm	0.0001 ppm	24.3916 ppm
Concentration per Run 2	0.0000 ppm	0.0874 ppm	0.0073 ppm	0.0078 ppm	0.2191 ppm	0.0001 ppm	24.2480 ppm
Concentration per Run 3	0.0002 ppm	0.0811 ppm	0.0061 ppm	0.0088 ppm	0.2185 ppm	0.0001 ppm	24.3543 ppm
Concentration RSD	120.1 %	3.8 %	17.5 %	7.4 %	0.2 %	16.0 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0004 ppm	0.0014 ppm	0.0006 ppm	0.0012 ppm	0.7993 ppm	7.1028 ppm	0.0005 ppm
Concentration per Run 1	0.0003 ppm	0.0013 ppm	0.0008 ppm	0.0013 ppm	0.7977 ppm	7.0937 ppm	0.0008 ppm
Concentration per Run 2	0.0004 ppm	0.0016 ppm	0.0007 ppm	0.0011 ppm	0.7981 ppm	7.1328 ppm	0.0006 ppm
Concentration per Run 3	0.0004 ppm	0.0012 ppm	0.0004 ppm	0.0013 ppm	0.8020 ppm	7.0818 ppm	0.0003 ppm
Concentration RSD	14.4 %	14.5 %	36.0 %	10.5 %	0.3 %	0.4 %	48.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	4.0088 ppm	1.0647 ppm	0.0006 ppm	294.5078 ppm	0.0043 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	4.0158 ppm	1.0680 ppm	0.0005 ppm	293.8085 ppm	0.0042 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 2	3.9958 ppm	1.0608 ppm	0.0007 ppm	295.9323 ppm	0.0045 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 3	4.0147 ppm	1.0655 ppm	0.0007 ppm	293.7826 ppm	0.0042 ppm	0.0003 ppm	-0.0004 ppm
Concentration RSD	0.3 %	0.3 %	21.9 %	0.4 %	4.5 %	316.4 %	560.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0001 ppm	5.3661 ppm	-0.0015 ppm	0.1607 ppm	0.0004 ppm	-0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0004 ppm	5.3763 ppm	-0.0017 ppm	0.1597 ppm	0.0003 ppm	-0.0013 ppm	0.0001 ppm
Concentration per Run 2	-0.0004 ppm	5.3628 ppm	-0.0010 ppm	0.1619 ppm	0.0005 ppm	-0.0006 ppm	0.0007 ppm
Concentration per Run 3	-0.0002 ppm	5.3591 ppm	-0.0017 ppm	0.1606 ppm	0.0003 ppm	-0.0007 ppm	0.0005 ppm
Concentration RSD	507.2 %	0.2 %	26.7 %	0.7 %	30.8 %	44.6 %	71.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	94.5295 %	99.6876 %	86.1154 %	92.5422 %	97.9102 %	91.1082 %
Concentration per Run 1	0.0000 ppm	95.1858 %	99.0533 %	86.0429 %	92.8439 %	97.2209 %	91.0824 %
Concentration per Run 2	0.0000 ppm	93.8931 %	99.8720 %	85.8682 %	92.2680 %	98.1382 %	90.8704 %
Concentration per Run 3	-0.0001 ppm	94.5097 %	100.1374 %	86.4352 %	92.5147 %	98.3714 %	91.3717 %
Concentration RSD	259.5 %	0.7 %	0.6 %	0.3 %	0.3 %	0.6 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-09 WG2079154
 Analysis started at: 6/27/2025 5:38:33 PM
 Rack: 2
 Vial: 14
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0121 ppm	0.0004 ppm	0.0061 ppm	0.0043 ppm	0.0000 ppm	1.5029 ppm
Concentration per Run 1	0.0001 ppm	0.0156 ppm	0.0002 ppm	0.0058 ppm	0.0043 ppm	0.0000 ppm	1.5051 ppm
Concentration per Run 2	-0.0003 ppm	0.0094 ppm	0.0005 ppm	0.0057 ppm	0.0043 ppm	0.0000 ppm	1.5041 ppm
Concentration per Run 3	-0.0002 ppm	0.0112 ppm	0.0004 ppm	0.0069 ppm	0.0042 ppm	0.0000 ppm	1.4995 ppm
Concentration RSD	167.3 %	26.6 %	38.0 %	11.5 %	1.2 %	31.2 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0009 ppm	0.0500 ppm	1.2017 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0009 ppm	0.0509 ppm	1.2110 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0010 ppm	0.0495 ppm	1.1969 ppm	0.0009 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0010 ppm	0.0497 ppm	1.1972 ppm	0.0004 ppm
Concentration RSD	91.0 %	590.2 %	85.9 %	8.2 %	1.5 %	0.7 %	139.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.4829 ppm	0.0224 ppm	0.0002 ppm	28.0571 ppm	0.0007 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 1	0.4858 ppm	0.0227 ppm	0.0003 ppm	28.2882 ppm	0.0008 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.4807 ppm	0.0224 ppm	0.0000 ppm	28.1419 ppm	0.0005 ppm	-0.0002 ppm	-0.0005 ppm
Concentration per Run 3	0.4823 ppm	0.0222 ppm	0.0003 ppm	27.7412 ppm	0.0007 ppm	-0.0001 ppm	0.0019 ppm
Concentration RSD	0.5 %	1.1 %	91.4 %	1.0 %	28.3 %	45.2 %	289.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0005 ppm	0.0821 ppm	-0.0007 ppm	0.0077 ppm	0.0004 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0013 ppm	0.0828 ppm	-0.0010 ppm	0.0076 ppm	0.0003 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	0.0807 ppm	-0.0002 ppm	0.0077 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0827 ppm	-0.0010 ppm	0.0078 ppm	0.0004 ppm	0.0002 ppm	-0.0001 ppm
Concentration RSD	119.3 %	1.4 %	64.6 %	0.9 %	21.5 %	233.5 %	14,629.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	102.5845 %	103.5409 %	100.5324 %	100.6409 %	101.9016 %	98.6014 %
Concentration per Run 1	0.0010 ppm	102.5793 %	103.2410 %	100.6522 %	101.1789 %	101.6602 %	98.8785 %
Concentration per Run 2	0.0012 ppm	102.1247 %	103.7517 %	101.3070 %	100.3899 %	102.6901 %	98.9307 %
Concentration per Run 3	0.0012 ppm	103.0494 %	103.6300 %	99.6380 %	100.3537 %	101.3545 %	97.9949 %
Concentration RSD	10.4 %	0.5 %	0.3 %	0.8 %	0.5 %	0.7 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: I2535055-02 WG2081034
 Analysis started at: 6/27/2025 5:41:46 PM
 Rack: 2
 Vial: 18
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	49.6783 ppm	0.0193 ppm	0.0064 ppm	0.4013 ppm	0.0009 ppm	10.1692 ppm
Concentration per Run 1	0.0003 ppm	49.5958 ppm	0.0196 ppm	0.0057 ppm	0.4025 ppm	0.0009 ppm	10.1468 ppm
Concentration per Run 2	0.0005 ppm	49.6106 ppm	0.0202 ppm	0.0077 ppm	0.4006 ppm	0.0009 ppm	10.1863 ppm
Concentration per Run 3	0.0002 ppm	49.8284 ppm	0.0181 ppm	0.0058 ppm	0.4008 ppm	0.0009 ppm	10.1745 ppm
Concentration RSD	56.9 %	0.3 %	5.6 %	17.6 %	0.3 %	2.0 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0017 ppm	0.0066 ppm	0.1149 ppm	0.2514 ppm	58.2660 ppm	1.5583 ppm	0.0225 ppm
Concentration per Run 1	0.0017 ppm	0.0064 ppm	0.1147 ppm	0.2505 ppm	58.2628 ppm	1.5746 ppm	0.0225 ppm
Concentration per Run 2	0.0017 ppm	0.0066 ppm	0.1151 ppm	0.2510 ppm	58.0893 ppm	1.5535 ppm	0.0229 ppm
Concentration per Run 3	0.0018 ppm	0.0068 ppm	0.1148 ppm	0.2526 ppm	58.4459 ppm	1.5466 ppm	0.0220 ppm
Concentration RSD	3.6 %	3.2 %	0.2 %	0.4 %	0.3 %	0.9 %	2.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.3175 ppm	0.5637 ppm	0.0036 ppm	0.2893 ppm	0.0241 ppm	2.4373 ppm	0.0010 ppm
Concentration per Run 1	3.3157 ppm	0.5627 ppm	0.0035 ppm	0.2888 ppm	0.0248 ppm	2.4398 ppm	0.0008 ppm
Concentration per Run 2	3.3235 ppm	0.5647 ppm	0.0036 ppm	0.2887 ppm	0.0236 ppm	2.4358 ppm	0.0007 ppm
Concentration per Run 3	3.3134 ppm	0.5637 ppm	0.0038 ppm	0.2905 ppm	0.0238 ppm	2.4363 ppm	0.0014 ppm
Concentration RSD	0.2 %	0.2 %	3.9 %	0.4 %	2.5 %	0.1 %	38.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	9.7894 ppm	0.0119 ppm	0.0627 ppm	0.6413 ppm	-0.0004 ppm	0.1181 ppm
Concentration per Run 1	-0.0001 ppm	9.7452 ppm	0.0119 ppm	0.0630 ppm	0.6399 ppm	-0.0008 ppm	0.1177 ppm
Concentration per Run 2	0.0011 ppm	9.8586 ppm	0.0125 ppm	0.0624 ppm	0.6430 ppm	0.0003 ppm	0.1178 ppm
Concentration per Run 3	0.0015 ppm	9.7643 ppm	0.0114 ppm	0.0626 ppm	0.6410 ppm	-0.0008 ppm	0.1189 ppm
Concentration RSD	99.9 %	0.6 %	4.8 %	0.5 %	0.2 %	148.9 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7501 ppm	101.1076 %	101.8067 %	94.0754 %	102.2634 %	103.3613 %	99.6546 %
Concentration per Run 1	0.7456 ppm	101.0009 %	101.8378 %	94.6378 %	101.9640 %	103.5350 %	100.2487 %
Concentration per Run 2	0.7575 ppm	100.9897 %	101.5208 %	93.7963 %	102.6193 %	103.2652 %	99.4757 %
Concentration per Run 3	0.7471 ppm	101.3322 %	102.0614 %	93.7922 %	102.2069 %	103.2838 %	99.2395 %
Concentration RSD	0.9 %	0.2 %	0.3 %	0.5 %	0.3 %	0.1 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
 Analysis started at: 6/27/2025 5:44:59 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5235 ppm	0.4874 ppm	0.4661 ppm	0.4858 ppm	0.4965 ppm	0.4950 ppm	0.4772 ppm
Concentration per Run 1	0.5259 ppm	0.4897 ppm	0.4641 ppm	0.4839 ppm	0.4945 ppm	0.4953 ppm	0.4765 ppm
Concentration per Run 2	0.5252 ppm	0.4852 ppm	0.4673 ppm	0.4905 ppm	0.4982 ppm	0.4941 ppm	0.4755 ppm
Concentration per Run 3	0.5193 ppm	0.4873 ppm	0.4668 ppm	0.4830 ppm	0.4968 ppm	0.4955 ppm	0.4795 ppm
Recovery Percentage 1	104.691 %	97.485 %	93.217 %	97.165 %	99.302 %	98.992 %	95.431 %
Concentration RSD	0.7 %	0.5 %	0.4 %	0.8 %	0.4 %	0.1 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4624 ppm	0.4914 ppm	0.5060 ppm	0.4947 ppm	0.4992 ppm	5.1960 ppm	0.5239 ppm
Concentration per Run 1	0.4644 ppm	0.4913 ppm	0.5083 ppm	0.4935 ppm	0.5003 ppm	5.2099 ppm	0.5292 ppm
Concentration per Run 2	0.4592 ppm	0.4913 ppm	0.5080 ppm	0.4969 ppm	0.4975 ppm	5.1985 ppm	0.5200 ppm
Concentration per Run 3	0.4635 ppm	0.4918 ppm	0.5018 ppm	0.4939 ppm	0.4997 ppm	5.1795 ppm	0.5224 ppm
Recovery Percentage 1	92.477 %	98.289 %	101.207 %	98.949 %	99.833 %	103.919 %	104.777 %
Concentration RSD	0.6 %	0.1 %	0.7 %	0.4 %	0.3 %	0.3 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5031 ppm	0.4933 ppm	0.4878 ppm	10.3243 ppm	0.5070 ppm	0.4961 ppm	0.4825 ppm
Concentration per Run 1	0.5079 ppm	0.4937 ppm	0.4890 ppm	10.3484 ppm	0.5090 ppm	0.4951 ppm	0.4785 ppm
Concentration per Run 2	0.5021 ppm	0.4913 ppm	0.4882 ppm	10.3739 ppm	0.5098 ppm	0.4978 ppm	0.4833 ppm
Concentration per Run 3	0.4994 ppm	0.4947 ppm	0.4861 ppm	10.2506 ppm	0.5023 ppm	0.4954 ppm	0.4858 ppm
Recovery Percentage 1	100.626 %	98.652 %	97.551 %	103.243 %	101.404 %	99.215 %	96.509 %
Concentration RSD	0.9 %	0.4 %	0.3 %	0.6 %	0.8 %	0.3 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4775 ppm	5.3109 ppm	0.4953 ppm	0.5000 ppm	0.5056 ppm	0.5037 ppm	0.4834 ppm
Concentration per Run 1	0.4755 ppm	5.3210 ppm	0.4961 ppm	0.5012 ppm	0.5082 ppm	0.5047 ppm	0.4826 ppm
Concentration per Run 2	0.4771 ppm	5.3039 ppm	0.4976 ppm	0.4992 ppm	0.5071 ppm	0.5015 ppm	0.4834 ppm
Concentration per Run 3	0.4799 ppm	5.3078 ppm	0.4921 ppm	0.4996 ppm	0.5014 ppm	0.5050 ppm	0.4841 ppm
Recovery Percentage 1	95.507 %	101.160 %	99.056 %	99.998 %	101.111 %	100.749 %	96.676 %
Concentration RSD	0.5 %	0.2 %	0.6 %	0.2 %	0.7 %	0.4 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4911 ppm	102.0112 %	102.0312 %	99.0047 %	100.3239 %	100.7431 %	97.9831 %
Concentration per Run 1	0.4933 ppm	101.8910 %	101.7589 %	99.6323 %	100.6892 %	100.9991 %	98.3553 %
Concentration per Run 2	0.4923 ppm	101.4977 %	102.5870 %	98.9075 %	99.9872 %	100.8652 %	98.0209 %
Concentration per Run 3	0.4876 ppm	102.6449 %	101.7478 %	98.4744 %	100.2951 %	100.3650 %	97.5732 %
Recovery Percentage 1	98.214 %						
Concentration RSD	0.6 %	0.6 %	0.5 %	0.6 %	0.4 %	0.3 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 5:48:12 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0087 ppm	-0.0003 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	0.0003 ppm	0.0062 ppm	-0.0002 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 2	0.0003 ppm	0.0089 ppm	-0.0010 ppm	-0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 3	0.0001 ppm	0.0111 ppm	0.0005 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm
Recovery Percentage 1	3.340 %	8.709 %	-5.135 %	-2.207 %	-0.185 %	0.356 %	-0.628 %
Concentration RSD	50.6 %	28.5 %	283.0 %	56.6 %	215.3 %	149.4 %	315.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0021 ppm	0.0083 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0004 ppm	0.0021 ppm	0.0028 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0020 ppm	0.0029 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0022 ppm	0.0190 ppm	0.0001 ppm
Recovery Percentage 1	1.375 %	-0.710 %	2.659 %	2.356 %	4.228 %	0.331 %	-5.626 %
Concentration RSD	112.5 %	160.3 %	77.4 %	57.6 %	5.8 %	112.9 %	170.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0005 ppm	0.0001 ppm	0.0021 ppm	0.0049 ppm	0.0001 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.0009 ppm	0.0000 ppm	0.0023 ppm	0.0068 ppm	0.0002 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 2	-0.0004 ppm	0.0002 ppm	0.0020 ppm	0.0022 ppm	0.0001 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 3	-0.0019 ppm	0.0001 ppm	0.0021 ppm	0.0056 ppm	0.0000 ppm	0.0001 ppm	0.0014 ppm
Recovery Percentage 1	-0.476 %	0.881 %	4.267 %	0.244 %	0.388 %	-2.841 %	0.810 %
Concentration RSD	298.3 %	85.2 %	8.4 %	49.4 %	125.8 %	114.2 %	223.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0001 ppm	0.0031 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0031 ppm	-0.0005 ppm	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 2	0.0004 ppm	0.0032 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0003 ppm	0.0031 ppm	-0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0007 ppm	0.0002 ppm
Recovery Percentage 1	1.438 %	0.629 %	-0.494 %	0.180 %	4.501 %	-0.490 %	0.369 %
Concentration RSD	253.1 %	2.6 %	108.6 %	79.6 %	6.0 %	557.1 %	373.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	101.2879 %	100.8111 %	99.3810 %	101.5644 %	100.8766 %	99.2657 %
Concentration per Run 1	-0.0007 ppm	102.2448 %	100.2426 %	99.5236 %	102.7591 %	100.5422 %	99.3162 %
Concentration per Run 2	-0.0007 ppm	100.3502 %	100.2346 %	99.7902 %	100.0963 %	100.3590 %	99.8022 %
Concentration per Run 3	-0.0008 ppm	101.2688 %	101.9559 %	98.8292 %	101.8378 %	101.7286 %	98.6788 %
Recovery Percentage 1	-15.403 %						
Concentration RSD	7.7 %	0.9 %	1.0 %	0.5 %	1.3 %	0.7 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-10 WG2079154
 Analysis started at: 6/27/2025 6:20:51 PM
 Rack: 2
 Vial: 15
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.0232 ppm	0.0019 ppm	0.0095 ppm	0.0167 ppm	0.0000 ppm	12.5764 ppm
Concentration per Run 1	0.0003 ppm	0.0221 ppm	0.0019 ppm	0.0088 ppm	0.0166 ppm	0.0000 ppm	12.4926 ppm
Concentration per Run 2	0.0003 ppm	0.0234 ppm	0.0019 ppm	0.0092 ppm	0.0167 ppm	0.0000 ppm	12.6704 ppm
Concentration per Run 3	0.0002 ppm	0.0242 ppm	0.0019 ppm	0.0105 ppm	0.0168 ppm	0.0000 ppm	12.5663 ppm
Concentration RSD	31.8 %	4.7 %	0.9 %	9.6 %	0.4 %	32.5 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0009 ppm	0.0004 ppm	0.0010 ppm	0.3057 ppm	2.1897 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0008 ppm	0.3003 ppm	2.1951 ppm	0.0015 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	0.0005 ppm	0.0011 ppm	0.3090 ppm	2.1838 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0010 ppm	0.0004 ppm	0.0010 ppm	0.3078 ppm	2.1903 ppm	0.0009 ppm
Concentration RSD	154.9 %	35.7 %	14.8 %	15.8 %	1.5 %	0.3 %	44.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.2926 ppm	0.2149 ppm	0.0004 ppm	49.3448 ppm	0.0023 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 1	2.3016 ppm	0.2133 ppm	0.0005 ppm	49.3194 ppm	0.0026 ppm	0.0004 ppm	0.0011 ppm
Concentration per Run 2	2.2913 ppm	0.2167 ppm	0.0005 ppm	49.1220 ppm	0.0022 ppm	-0.0002 ppm	0.0023 ppm
Concentration per Run 3	2.2850 ppm	0.2147 ppm	0.0001 ppm	49.5930 ppm	0.0021 ppm	0.0000 ppm	-0.0017 ppm
Concentration RSD	0.4 %	0.8 %	68.9 %	0.5 %	11.2 %	318.7 %	369.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0003 ppm	2.2498 ppm	-0.0012 ppm	0.0849 ppm	0.0004 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0002 ppm	2.2488 ppm	-0.0014 ppm	0.0845 ppm	0.0005 ppm	-0.0014 ppm	0.0001 ppm
Concentration per Run 2	0.0028 ppm	2.2531 ppm	-0.0010 ppm	0.0852 ppm	0.0003 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 3	-0.0035 ppm	2.2476 ppm	-0.0012 ppm	0.0851 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm
Concentration RSD	1,046.2 %	0.1 %	18.0 %	0.4 %	15.0 %	704.9 %	304.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	102.6088 %	102.1608 %	99.4436 %	100.4698 %	100.6448 %	98.3592 %
Concentration per Run 1	0.0016 ppm	102.9552 %	102.9875 %	99.1047 %	101.5005 %	101.2473 %	98.4199 %
Concentration per Run 2	0.0016 ppm	102.8544 %	101.7553 %	99.2980 %	100.5575 %	100.3862 %	98.4329 %
Concentration per Run 3	0.0017 ppm	102.0167 %	101.7396 %	99.9281 %	99.3515 %	100.3010 %	98.2249 %
Concentration RSD	3.2 %	0.5 %	0.7 %	0.4 %	1.1 %	0.5 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-11 WG2079154
 Analysis started at: 6/27/2025 6:24:18 PM
 Rack: 2
 Vial: 16
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0199 ppm	0.0095 ppm	0.0158 ppm	0.0294 ppm	0.0000 ppm	19.8613 ppm
Concentration per Run 1	0.0001 ppm	0.0211 ppm	0.0091 ppm	0.0164 ppm	0.0296 ppm	0.0000 ppm	19.9254 ppm
Concentration per Run 2	0.0002 ppm	0.0198 ppm	0.0093 ppm	0.0159 ppm	0.0294 ppm	0.0000 ppm	19.8137 ppm
Concentration per Run 3	-0.0001 ppm	0.0189 ppm	0.0102 ppm	0.0150 ppm	0.0292 ppm	0.0000 ppm	19.8449 ppm
Concentration RSD	200.0 %	5.5 %	6.3 %	4.4 %	0.7 %	57.0 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0050 ppm	0.0003 ppm	0.0006 ppm	3.7430 ppm	3.4015 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0049 ppm	0.0004 ppm	0.0006 ppm	3.7604 ppm	3.4338 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0052 ppm	0.0001 ppm	0.0009 ppm	3.7352 ppm	3.3811 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0049 ppm	0.0003 ppm	0.0005 ppm	3.7334 ppm	3.3896 ppm	0.0003 ppm
Concentration RSD	108.2 %	3.9 %	73.4 %	31.1 %	0.4 %	0.8 %	30.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.2008 ppm	1.4892 ppm	-0.0001 ppm	65.5834 ppm	0.0027 ppm	-0.0003 ppm	0.0015 ppm
Concentration per Run 1	3.2113 ppm	1.4971 ppm	0.0000 ppm	65.8700 ppm	0.0028 ppm	0.0002 ppm	-0.0004 ppm
Concentration per Run 2	3.1961 ppm	1.4858 ppm	0.0000 ppm	65.4138 ppm	0.0024 ppm	-0.0012 ppm	0.0004 ppm
Concentration per Run 3	3.1952 ppm	1.4847 ppm	-0.0002 ppm	65.4664 ppm	0.0028 ppm	0.0000 ppm	0.0046 ppm
Concentration RSD	0.3 %	0.5 %	203.1 %	0.4 %	8.3 %	230.2 %	176.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0016 ppm	4.8669 ppm	-0.0010 ppm	0.1372 ppm	0.0006 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 1	-0.0014 ppm	4.8695 ppm	-0.0007 ppm	0.1379 ppm	0.0005 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 2	-0.0007 ppm	4.8771 ppm	-0.0004 ppm	0.1374 ppm	0.0007 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 3	-0.0028 ppm	4.8541 ppm	-0.0019 ppm	0.1363 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm
Concentration RSD	67.5 %	0.2 %	80.7 %	0.6 %	19.6 %	114.9 %	52.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	101.0920 %	101.9148 %	96.3617 %	98.6447 %	100.4694 %	96.4063 %
Concentration per Run 1	0.0014 ppm	100.5465 %	101.4941 %	96.1366 %	98.6974 %	100.3988 %	96.0797 %
Concentration per Run 2	0.0012 ppm	101.1368 %	101.9198 %	96.5882 %	98.3785 %	100.0880 %	96.6678 %
Concentration per Run 3	0.0013 ppm	101.5926 %	102.3304 %	96.3602 %	98.8581 %	100.9212 %	96.4713 %
Concentration RSD	6.8 %	0.5 %	0.4 %	0.2 %	0.2 %	0.4 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-12 WG2079154
 Analysis started at: 6/27/2025 6:27:31 PM
 Rack: 2
 Vial: 17
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0288 ppm	0.0058 ppm	0.0114 ppm	0.0175 ppm	0.0000 ppm	13.4471 ppm
Concentration per Run 1	-0.0001 ppm	0.0266 ppm	0.0055 ppm	0.0113 ppm	0.0176 ppm	0.0000 ppm	13.4875 ppm
Concentration per Run 2	0.0001 ppm	0.0317 ppm	0.0072 ppm	0.0123 ppm	0.0174 ppm	0.0000 ppm	13.4240 ppm
Concentration per Run 3	-0.0003 ppm	0.0280 ppm	0.0047 ppm	0.0107 ppm	0.0175 ppm	0.0000 ppm	13.4298 ppm
Concentration RSD	179.8 %	9.2 %	21.6 %	6.8 %	0.6 %	8.8 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0020 ppm	0.0006 ppm	0.0009 ppm	0.7465 ppm	3.2149 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0020 ppm	0.0005 ppm	0.0009 ppm	0.7529 ppm	3.2752 ppm	0.0009 ppm
Concentration per Run 2	-0.0001 ppm	0.0018 ppm	0.0006 ppm	0.0010 ppm	0.7421 ppm	3.1873 ppm	0.0016 ppm
Concentration per Run 3	0.0001 ppm	0.0021 ppm	0.0005 ppm	0.0009 ppm	0.7445 ppm	3.1823 ppm	0.0005 ppm
Concentration RSD	335.5 %	6.2 %	5.9 %	6.1 %	0.8 %	1.6 %	54.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.4461 ppm	0.4313 ppm	-0.0001 ppm	52.7067 ppm	0.0031 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 1	2.4587 ppm	0.4341 ppm	-0.0001 ppm	53.0978 ppm	0.0030 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 2	2.4368 ppm	0.4286 ppm	-0.0002 ppm	52.3657 ppm	0.0029 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 3	2.4428 ppm	0.4313 ppm	0.0000 ppm	52.6565 ppm	0.0034 ppm	-0.0001 ppm	0.0015 ppm
Concentration RSD	0.5 %	0.6 %	100.1 %	0.7 %	7.6 %	149.6 %	137.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0007 ppm	2.5062 ppm	-0.0013 ppm	0.0899 ppm	0.0007 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 1	-0.0004 ppm	2.5109 ppm	-0.0011 ppm	0.0903 ppm	0.0007 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 2	-0.0003 ppm	2.5024 ppm	-0.0016 ppm	0.0896 ppm	0.0007 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0014 ppm	2.5052 ppm	-0.0014 ppm	0.0897 ppm	0.0007 ppm	-0.0003 ppm	0.0001 ppm
Concentration RSD	92.9 %	0.2 %	16.7 %	0.4 %	5.3 %	74.5 %	100.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	101.1765 %	102.8912 %	97.4009 %	99.1392 %	101.3850 %	96.8069 %
Concentration per Run 1	0.0023 ppm	101.0992 %	102.7030 %	97.0051 %	99.3952 %	101.6577 %	96.8245 %
Concentration per Run 2	0.0024 ppm	101.1977 %	103.3904 %	97.3485 %	99.7065 %	101.5541 %	96.6047 %
Concentration per Run 3	0.0022 ppm	101.2325 %	102.5801 %	97.8490 %	98.3161 %	100.9431 %	96.9913 %
Concentration RSD	3.3 %	0.1 %	0.4 %	0.4 %	0.7 %	0.4 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2535879-01 WG2082357
 Analysis started at: 6/27/2025 6:40:48 PM
 Rack: 2
 Vial: 19
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0021 ppm	0.0004 ppm	0.1224 ppm	0.0375 ppm	0.0000 ppm	101.6632 ppm
Concentration per Run 1	0.0002 ppm	-0.0033 ppm	0.0015 ppm	0.1226 ppm	0.0374 ppm	0.0000 ppm	101.8730 ppm
Concentration per Run 2	0.0002 ppm	0.0030 ppm	-0.0014 ppm	0.1214 ppm	0.0376 ppm	0.0000 ppm	101.5362 ppm
Concentration per Run 3	0.0003 ppm	0.0067 ppm	0.0010 ppm	0.1232 ppm	0.0376 ppm	0.0000 ppm	101.5803 ppm
Concentration RSD	16.2 %	235.4 %	443.1 %	0.7 %	0.2 %	76.9 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0005 ppm	0.0002 ppm	0.0040 ppm	0.0024 ppm	0.0045 ppm	10.8520 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.0002 ppm	0.0042 ppm	0.0022 ppm	0.0048 ppm	10.7506 ppm	0.0001 ppm
Concentration per Run 2	-0.0005 ppm	0.0002 ppm	0.0040 ppm	0.0026 ppm	0.0040 ppm	10.8819 ppm	-0.0001 ppm
Concentration per Run 3	-0.0005 ppm	0.0002 ppm	0.0039 ppm	0.0025 ppm	0.0048 ppm	10.9236 ppm	0.0001 ppm
Concentration RSD	2.0 %	6.2 %	4.0 %	7.4 %	9.8 %	0.8 %	294.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	23.9233 ppm	0.0010 ppm	0.0012 ppm	459.0229 ppm	0.0011 ppm	-0.0005 ppm	0.0019 ppm
Concentration per Run 1	24.0615 ppm	0.0011 ppm	0.0009 ppm	456.6819 ppm	0.0012 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	23.9528 ppm	0.0010 ppm	0.0015 ppm	459.9326 ppm	0.0013 ppm	-0.0007 ppm	0.0028 ppm
Concentration per Run 3	23.7556 ppm	0.0010 ppm	0.0012 ppm	460.4541 ppm	0.0008 ppm	-0.0004 ppm	0.0027 ppm
Concentration RSD	0.6 %	7.6 %	24.0 %	0.4 %	24.6 %	41.3 %	83.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0006 ppm	6.0264 ppm	-0.0007 ppm	0.6046 ppm	0.0004 ppm	-0.0003 ppm	0.0034 ppm
Concentration per Run 1	-0.0008 ppm	6.0401 ppm	-0.0011 ppm	0.6003 ppm	0.0006 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 2	0.0003 ppm	6.0252 ppm	-0.0004 ppm	0.6061 ppm	0.0004 ppm	-0.0007 ppm	0.0036 ppm
Concentration per Run 3	-0.0012 ppm	6.0139 ppm	-0.0006 ppm	0.6075 ppm	0.0004 ppm	-0.0002 ppm	0.0033 ppm
Concentration RSD	142.4 %	0.2 %	51.9 %	0.6 %	27.0 %	117.0 %	5.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0051 ppm	92.3799 %	97.2960 %	81.5063 %	89.4672 %	95.2728 %	87.5968 %
Concentration per Run 1	0.0050 ppm	92.0060 %	96.8671 %	81.7605 %	89.4748 %	94.9108 %	87.8524 %
Concentration per Run 2	0.0051 ppm	92.4685 %	97.2698 %	81.1742 %	88.9144 %	95.3038 %	87.4190 %
Concentration per Run 3	0.0050 ppm	92.6653 %	97.7510 %	81.5843 %	90.0125 %	95.6036 %	87.5190 %
Concentration RSD	1.4 %	0.4 %	0.5 %	0.4 %	0.6 %	0.4 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: eL2535879-02 WG2082357
 Analysis started at: 6/27/2025 6:44:08 PM
 Rack: 2
 Vial: 20
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	0.6077 ppm	0.0023 ppm	0.2749 ppm	0.0470 ppm	0.0004 ppm	170.8838 ppm
Concentration per Run 1	0.0002 ppm	0.6113 ppm	0.0013 ppm	0.2751 ppm	0.0469 ppm	0.0004 ppm	170.6502 ppm
Concentration per Run 2	0.0006 ppm	0.6105 ppm	0.0031 ppm	0.2760 ppm	0.0470 ppm	0.0004 ppm	171.6989 ppm
Concentration per Run 3	0.0005 ppm	0.6012 ppm	0.0026 ppm	0.2736 ppm	0.0470 ppm	0.0005 ppm	170.3025 ppm
Concentration RSD	47.4 %	0.9 %	40.9 %	0.4 %	0.1 %	4.2 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0013 ppm	0.0099 ppm	0.0005 ppm	0.0097 ppm	0.0156 ppm	18.5487 ppm	0.0003 ppm
Concentration per Run 1	0.0013 ppm	0.0099 ppm	0.0008 ppm	0.0095 ppm	0.0155 ppm	18.4253 ppm	0.0008 ppm
Concentration per Run 2	0.0012 ppm	0.0094 ppm	0.0003 ppm	0.0098 ppm	0.0158 ppm	18.6986 ppm	0.0002 ppm
Concentration per Run 3	0.0013 ppm	0.0104 ppm	0.0004 ppm	0.0098 ppm	0.0156 ppm	18.5222 ppm	-0.0003 ppm
Concentration RSD	4.2 %	5.2 %	45.6 %	1.7 %	1.2 %	0.7 %	219.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	92.8253 ppm	1.2570 ppm	-0.0001 ppm	1,060.0785 [SIC 500]	0.0154 ppm	-0.0003 ppm	-0.0004 ppm
Concentration per Run 1	92.8335 ppm	1.2599 ppm	-0.0001 ppm	1,055.9507 ppm	0.0150 ppm	-0.0008 ppm	-0.0014 ppm
Concentration per Run 2	92.9435 ppm	1.2608 ppm	0.0002 ppm	1,070.0064 ppm	0.0154 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 3	92.6988 ppm	1.2505 ppm	-0.0003 ppm	1,054.2785 ppm	0.0159 ppm	-0.0004 ppm	0.0000 ppm
Concentration RSD	0.1 %	0.5 %	367.2 %	0.8 %	2.9 %	220.9 %	201.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0025 ppm	5.4724 ppm	-0.0009 ppm	0.9290 ppm	0.0004 ppm	-0.0024 ppm	0.0001 ppm
Concentration per Run 1	-0.0009 ppm	5.4881 ppm	-0.0012 ppm	0.9259 ppm	0.0001 ppm	-0.0021 ppm	0.0001 ppm
Concentration per Run 2	0.0050 ppm	5.4798 ppm	-0.0005 ppm	0.9303 ppm	0.0006 ppm	-0.0018 ppm	0.0001 ppm
Concentration per Run 3	0.0036 ppm	5.4494 ppm	-0.0011 ppm	0.9309 ppm	0.0004 ppm	-0.0032 ppm	0.0000 ppm
Concentration RSD	121.5 %	0.4 %	41.5 %	0.3 %	70.9 %	30.0 %	15.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0606 ppm	84.3806 %	93.4254 %	72.3081 %	88.9969 %	99.5964 %	87.6414 %
Concentration per Run 1	0.0604 ppm	84.7124 %	93.8589 %	72.4826 %	89.0320 %	100.0956 %	87.7368 %
Concentration per Run 2	0.0611 ppm	84.0678 %	93.4020 %	72.1131 %	88.8522 %	99.9342 %	87.5711 %
Concentration per Run 3	0.0603 ppm	84.3616 %	93.0154 %	72.3286 %	89.1064 %	98.7594 %	87.6164 %
Concentration RSD	0.8 %	0.4 %	0.5 %	0.3 %	0.1 %	0.7 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2535879-03 WG2082357
 Analysis started at: 6/27/2025 6:47:21 PM
 Rack: 2
 Vial: 21
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0090 ppm	-0.0010 ppm	0.0466 ppm	0.0075 ppm	0.0000 ppm	30.6163 ppm
Concentration per Run 1	-0.0001 ppm	0.0092 ppm	-0.0008 ppm	0.0463 ppm	0.0074 ppm	0.0000 ppm	30.4391 ppm
Concentration per Run 2	0.0000 ppm	0.0067 ppm	-0.0007 ppm	0.0471 ppm	0.0075 ppm	0.0000 ppm	30.7470 ppm
Concentration per Run 3	0.0002 ppm	0.0110 ppm	-0.0014 ppm	0.0466 ppm	0.0075 ppm	0.0000 ppm	30.6627 ppm
Concentration RSD	343.3 %	23.8 %	42.8 %	0.9 %	0.5 %	141.6 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0019 ppm	0.0013 ppm	0.0071 ppm	2.7089 ppm	0.0006 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0018 ppm	0.0015 ppm	0.0062 ppm	2.7412 ppm	0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0018 ppm	0.0010 ppm	0.0073 ppm	2.7163 ppm	0.0005 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0021 ppm	0.0013 ppm	0.0078 ppm	2.6691 ppm	0.0004 ppm
Concentration RSD	16.1 %	125.2 %	10.7 %	18.6 %	11.4 %	1.4 %	22.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	4.9542 ppm	0.0011 ppm	0.0098 ppm	46.6534 ppm	0.0006 ppm	-0.0002 ppm	0.0020 ppm
Concentration per Run 1	4.9512 ppm	0.0012 ppm	0.0095 ppm	46.5898 ppm	0.0005 ppm	-0.0004 ppm	0.0016 ppm
Concentration per Run 2	4.9643 ppm	0.0011 ppm	0.0098 ppm	46.9231 ppm	0.0004 ppm	-0.0014 ppm	0.0028 ppm
Concentration per Run 3	4.9471 ppm	0.0010 ppm	0.0101 ppm	46.4472 ppm	0.0009 ppm	0.0011 ppm	0.0016 ppm
Concentration RSD	0.2 %	11.4 %	2.9 %	0.5 %	40.8 %	582.0 %	34.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0034 ppm	4.8842 ppm	-0.0009 ppm	0.1228 ppm	0.0003 ppm	0.0008 ppm	0.0009 ppm
Concentration per Run 1	0.0039 ppm	4.8935 ppm	-0.0009 ppm	0.1224 ppm	0.0002 ppm	0.0010 ppm	0.0008 ppm
Concentration per Run 2	0.0036 ppm	4.8717 ppm	-0.0001 ppm	0.1235 ppm	0.0003 ppm	0.0007 ppm	0.0010 ppm
Concentration per Run 3	0.0029 ppm	4.8873 ppm	-0.0017 ppm	0.1225 ppm	0.0003 ppm	0.0008 ppm	0.0009 ppm
Concentration RSD	15.6 %	0.2 %	92.6 %	0.5 %	26.4 %	16.2 %	13.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	100.4051 %	102.4251 %	96.1466 %	98.0828 %	100.5882 %	95.8845 %
Concentration per Run 1	0.0004 ppm	101.0453 %	103.0337 %	95.9460 %	98.4277 %	100.5923 %	95.9731 %
Concentration per Run 2	0.0007 ppm	99.7972 %	101.9177 %	96.3435 %	96.9881 %	100.6764 %	96.0076 %
Concentration per Run 3	0.0007 ppm	100.3728 %	102.3239 %	96.1503 %	98.8325 %	100.4957 %	95.6727 %
Concentration RSD	26.8 %	0.6 %	0.6 %	0.2 %	1.0 %	0.1 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2535879-04 WG2082357
 Analysis started at: 6/27/2025 6:50:34 PM
 Rack: 2
 Vial: 22
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0002 ppm	0.0543 ppm	-0.0005 ppm	0.0736 ppm	0.0180 ppm	0.0000 ppm	30.7073 ppm
Concentration per Run 1	-0.0001 ppm	0.0523 ppm	-0.0005 ppm	0.0735 ppm	0.0180 ppm	0.0000 ppm	30.5891 ppm
Concentration per Run 2	-0.0002 ppm	0.0563 ppm	-0.0009 ppm	0.0747 ppm	0.0179 ppm	0.0000 ppm	30.8073 ppm
Concentration per Run 3	-0.0002 ppm	0.0543 ppm	-0.0001 ppm	0.0726 ppm	0.0181 ppm	0.0000 ppm	30.7257 ppm
Concentration RSD	50.9 %	3.7 %	82.3 %	1.4 %	0.8 %	63.7 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0010 ppm	0.0003 ppm	0.0024 ppm	0.2371 ppm	7.3884 ppm	0.0014 ppm
Concentration per Run 1	-0.0001 ppm	0.0010 ppm	0.0005 ppm	0.0024 ppm	0.2373 ppm	7.4452 ppm	0.0015 ppm
Concentration per Run 2	-0.0001 ppm	0.0012 ppm	0.0001 ppm	0.0022 ppm	0.2364 ppm	7.4104 ppm	0.0015 ppm
Concentration per Run 3	-0.0001 ppm	0.0007 ppm	0.0003 ppm	0.0026 ppm	0.2377 ppm	7.3095 ppm	0.0010 ppm
Concentration RSD	34.5 %	27.6 %	65.4 %	7.6 %	0.3 %	1.0 %	20.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	23.0510 ppm	0.6722 ppm	0.0053 ppm	152.7119 ppm	0.0038 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 1	23.1495 ppm	0.6704 ppm	0.0055 ppm	153.4936 ppm	0.0036 ppm	-0.0003 ppm	0.0025 ppm
Concentration per Run 2	23.0677 ppm	0.6731 ppm	0.0050 ppm	153.2349 ppm	0.0040 ppm	0.0008 ppm	-0.0013 ppm
Concentration per Run 3	22.9356 ppm	0.6731 ppm	0.0053 ppm	151.4071 ppm	0.0037 ppm	0.0008 ppm	-0.0001 ppm
Concentration RSD	0.5 %	0.2 %	4.2 %	0.7 %	6.0 %	141.2 %	498.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0035 ppm	8.2338 ppm	-0.0012 ppm	0.1298 ppm	0.0005 ppm	-0.0005 ppm	0.0020 ppm
Concentration per Run 1	0.0040 ppm	8.2436 ppm	-0.0018 ppm	0.1293 ppm	0.0007 ppm	-0.0008 ppm	0.0019 ppm
Concentration per Run 2	0.0031 ppm	8.2610 ppm	-0.0008 ppm	0.1295 ppm	0.0007 ppm	0.0007 ppm	0.0020 ppm
Concentration per Run 3	0.0032 ppm	8.1967 ppm	-0.0011 ppm	0.1306 ppm	0.0003 ppm	-0.0013 ppm	0.0020 ppm
Concentration RSD	14.1 %	0.4 %	41.7 %	0.5 %	43.8 %	215.8 %	2.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0022 ppm	98.1148 %	100.2515 %	90.4642 %	95.9187 %	98.5702 %	92.9958 %
Concentration per Run 1	0.0023 ppm	97.1784 %	101.0045 %	90.7489 %	94.9769 %	99.5762 %	93.5081 %
Concentration per Run 2	0.0023 ppm	98.4080 %	99.8751 %	90.2969 %	96.9425 %	98.2728 %	92.7360 %
Concentration per Run 3	0.0022 ppm	98.7581 %	99.8750 %	90.3468 %	95.8369 %	97.8615 %	92.7432 %
Concentration RSD	3.4 %	0.8 %	0.7 %	0.3 %	1.0 %	0.9 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: xL2536075-01 WG2082357
 Analysis started at: 6/27/2025 6:53:48 PM
 Rack: 2
 Vial: 23
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	0.0096 ppm	∞ ppm	0.0179 ppm	0.0227 ppm	0.0000 ppm	12.3116 ppm
Concentration per Run 1	0.0008 ppm	0.0116 ppm	∞ ppm	0.0182 ppm	0.0227 ppm	0.0000 ppm	12.3838 ppm
Concentration per Run 2	0.0002 ppm	0.0124 ppm	0.0009 ppm	0.0180 ppm	0.0228 ppm	0.0000 ppm	12.2957 ppm
Concentration per Run 3	0.0003 ppm	0.0049 ppm	-0.0003 ppm	0.0174 ppm	0.0226 ppm	0.0000 ppm	12.2553 ppm
Concentration RSD	65.9 %	43.1 %		2.4 %	0.4 %	49.3 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0010 ppm	0.0033 ppm	0.0006 ppm	∞ ppm	0.9687 ppm	1.0576 ppm	0.0050 ppm
Concentration per Run 1	0.0010 ppm	0.0032 ppm	0.0005 ppm	∞ ppm	0.9724 ppm	1.0622 ppm	0.0053 ppm
Concentration per Run 2	0.0010 ppm	0.0032 ppm	0.0009 ppm	0.0015 ppm	0.9695 ppm	1.0616 ppm	0.0047 ppm
Concentration per Run 3	0.0010 ppm	0.0034 ppm	0.0005 ppm	0.0019 ppm	0.9642 ppm	1.0489 ppm	0.0050 ppm
Concentration RSD	2.2 %	4.5 %	34.3 %		0.4 %	0.7 %	6.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.8242 ppm	0.4997 ppm	0.0003 ppm	45.8416 ppm	0.1159 ppm	∞ ppm	∞ ppm
Concentration per Run 1	3.8497 ppm	0.5036 ppm	0.0007 ppm	45.7513 ppm	0.0003 ppm	∞ ppm	∞ ppm
Concentration per Run 2	3.8369 ppm	0.4976 ppm	0.0001 ppm	45.9108 ppm	0.1765 ppm	0.0005 ppm	0.0007 ppm
Concentration per Run 3	3.7861 ppm	0.4978 ppm	0.0000 ppm	45.8628 ppm	0.1709 ppm	0.0006 ppm	-0.0021 ppm
Concentration RSD	0.9 %	0.7 %	141.1 %	0.2 %	86.4 %		

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	∞ ppm	5.6627 ppm	-0.0009 ppm	0.1037 ppm	0.0004 ppm	∞ ppm	∞ ppm
Concentration per Run 1	∞ ppm	-0.0125 ppm	-0.0013 ppm	0.1034 ppm	0.0005 ppm	∞ ppm	∞ ppm
Concentration per Run 2	-0.0010 ppm	8.5240 ppm	-0.0006 ppm	0.1039 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	-0.0003 ppm	8.4765 ppm	-0.0008 ppm	0.1037 ppm	0.0002 ppm	-0.0003 ppm	-0.0001 ppm
Concentration RSD		86.8 %	39.2 %	0.3 %	52.2 %		

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0033 ppm	102.8151 %	103.1520 %	64.9901 %	66.3819 %	101.6257 %	64.8904 %
Concentration per Run 1	-0.0019 ppm	102.0520 %	103.2527 %	0.0000 %	0.0000 %	102.1011 %	0.0000 %
Concentration per Run 2	0.0060 ppm	103.0724 %	103.6180 %	97.0223 %	100.1202 %	101.7341 %	97.0744 %
Concentration per Run 3	0.0059 ppm	103.3209 %	102.5853 %	97.9479 %	99.0255 %	101.0420 %	97.5968 %
Concentration RSD	136.7 %	0.7 %	0.5 %	86.6 %	86.6 %	0.5 %	86.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536075-02 WG2082357
 Analysis started at: 6/27/2025 6:57:01 PM
 Rack: 2
 Vial: 24
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0104 ppm	0.0010 ppm	0.0488 ppm	0.0165 ppm	0.0000 ppm	20.4328 ppm
Concentration per Run 1	0.0003 ppm	0.0163 ppm	0.0010 ppm	0.0478 ppm	0.0165 ppm	0.0000 ppm	20.4843 ppm
Concentration per Run 2	0.0001 ppm	0.0058 ppm	0.0020 ppm	0.0504 ppm	0.0165 ppm	0.0000 ppm	20.4389 ppm
Concentration per Run 3	0.0000 ppm	0.0090 ppm	0.0002 ppm	0.0481 ppm	0.0165 ppm	0.0000 ppm	20.3752 ppm
Concentration RSD	107.8 %	52.3 %	85.5 %	2.9 %	0.2 %	84.8 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0013 ppm	0.0005 ppm	0.0009 ppm	5.0140 ppm	1.3051 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	0.0004 ppm	0.0011 ppm	5.0235 ppm	1.3078 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0012 ppm	0.0006 ppm	0.0007 ppm	5.0069 ppm	1.3070 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0019 ppm	0.0004 ppm	0.0008 ppm	5.0117 ppm	1.3005 ppm	0.0003 ppm
Concentration RSD	140.0 %	41.3 %	30.6 %	21.0 %	0.2 %	0.3 %	55.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	1.6662 ppm	0.3561 ppm	0.0002 ppm	47.0511 ppm	0.0264 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 1	1.6668 ppm	0.3573 ppm	0.0006 ppm	46.8180 ppm	0.0265 ppm	-0.0005 ppm	0.0008 ppm
Concentration per Run 2	1.6655 ppm	0.3563 ppm	-0.0002 ppm	47.3100 ppm	0.0262 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 3	1.6661 ppm	0.3546 ppm	0.0003 ppm	47.0251 ppm	0.0264 ppm	0.0004 ppm	0.0011 ppm
Concentration RSD	0.0 %	0.4 %	195.0 %	0.5 %	0.6 %	353.7 %	87.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0002 ppm	6.8953 ppm	-0.0011 ppm	0.0555 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	-0.0004 ppm	6.8766 ppm	-0.0009 ppm	0.0555 ppm	0.0004 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	6.8866 ppm	-0.0015 ppm	0.0553 ppm	0.0002 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 3	-0.0005 ppm	6.9227 ppm	-0.0009 ppm	0.0558 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm
Concentration RSD	145.8 %	0.4 %	28.2 %	0.4 %	28.9 %	297.1 %	24.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0048 ppm	101.6993 %	103.1150 %	96.9625 %	99.8795 %	101.4930 %	97.2542 %
Concentration per Run 1	0.0049 ppm	101.5457 %	103.1627 %	97.4019 %	99.5703 %	101.6847 %	97.7719 %
Concentration per Run 2	0.0048 ppm	101.2979 %	102.7305 %	96.7935 %	99.4072 %	101.2696 %	96.9947 %
Concentration per Run 3	0.0047 ppm	102.2542 %	103.4517 %	96.6922 %	100.6610 %	101.5247 %	96.9959 %
Concentration RSD	2.6 %	0.5 %	0.4 %	0.4 %	0.7 %	0.2 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536075-01 WG2082357
 Analysis started at: 6/27/2025 7:00:15 PM
 Rack: 2
 Vial: 23
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0068 ppm	0.0001 ppm	0.0193 ppm	0.0227 ppm	0.0000 ppm	12.2352 ppm
Concentration per Run 1	0.0001 ppm	0.0059 ppm	-0.0010 ppm	0.0203 ppm	0.0226 ppm	0.0001 ppm	12.2293 ppm
Concentration per Run 2	0.0001 ppm	0.0104 ppm	0.0009 ppm	0.0192 ppm	0.0226 ppm	0.0000 ppm	12.2289 ppm
Concentration per Run 3	0.0001 ppm	0.0041 ppm	0.0003 ppm	0.0183 ppm	0.0228 ppm	0.0000 ppm	12.2473 ppm
Concentration RSD	7.6 %	48.1 %	1,698.5 %	5.1 %	0.5 %	88.3 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0009 ppm	0.0037 ppm	0.0004 ppm	0.0013 ppm	0.9620 ppm	1.0772 ppm	0.0047 ppm
Concentration per Run 1	0.0008 ppm	0.0034 ppm	0.0002 ppm	0.0010 ppm	0.9592 ppm	1.0928 ppm	0.0050 ppm
Concentration per Run 2	0.0009 ppm	0.0036 ppm	0.0004 ppm	0.0016 ppm	0.9626 ppm	1.0683 ppm	0.0047 ppm
Concentration per Run 3	0.0009 ppm	0.0040 ppm	0.0008 ppm	0.0013 ppm	0.9643 ppm	1.0706 ppm	0.0045 ppm
Concentration RSD	4.6 %	8.7 %	74.0 %	22.3 %	0.3 %	1.3 %	4.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.8430 ppm	0.4994 ppm	0.0001 ppm	46.0876 ppm	0.1730 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 1	3.8632 ppm	0.4979 ppm	0.0000 ppm	46.2020 ppm	0.1726 ppm	0.0005 ppm	-0.0002 ppm
Concentration per Run 2	3.8466 ppm	0.5006 ppm	0.0001 ppm	46.2035 ppm	0.1734 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 3	3.8194 ppm	0.4996 ppm	0.0002 ppm	45.8574 ppm	0.1730 ppm	-0.0006 ppm	0.0000 ppm
Concentration RSD	0.6 %	0.3 %	89.0 %	0.4 %	0.2 %	358.6 %	98.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0004 ppm	8.4990 ppm	-0.0014 ppm	0.1040 ppm	0.0003 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.0019 ppm	8.5090 ppm	-0.0013 ppm	0.1039 ppm	0.0003 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 2	-0.0009 ppm	8.5070 ppm	-0.0012 ppm	0.1037 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0023 ppm	8.4810 ppm	-0.0016 ppm	0.1045 ppm	0.0003 ppm	0.0011 ppm	0.0000 ppm
Concentration RSD	493.0 %	0.2 %	17.4 %	0.4 %	18.6 %	70.8 %	994.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0060 ppm	101.9411 %	102.7977 %	97.6126 %	99.3354 %	101.1989 %	97.3560 %
Concentration per Run 1	0.0061 ppm	102.0045 %	102.9662 %	97.6942 %	100.2647 %	101.3554 %	97.5808 %
Concentration per Run 2	0.0059 ppm	101.4455 %	102.5393 %	97.9370 %	98.2744 %	100.7966 %	97.6155 %
Concentration per Run 3	0.0059 ppm	102.3734 %	102.8877 %	97.2067 %	99.4671 %	101.4447 %	96.8717 %
Concentration RSD	2.1 %	0.5 %	0.2 %	0.4 %	1.0 %	0.3 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
 Analysis started at: 6/27/2025 7:09:13 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5207 ppm	0.4836 ppm	0.4660 ppm	0.4823 ppm	0.4892 ppm	0.4922 ppm	0.4760 ppm
Concentration per Run 1	0.5203 ppm	0.4810 ppm	0.4661 ppm	0.4813 ppm	0.4902 ppm	0.4949 ppm	0.4769 ppm
Concentration per Run 2	0.5214 ppm	0.4809 ppm	0.4654 ppm	0.4836 ppm	0.4880 ppm	0.4900 ppm	0.4733 ppm
Concentration per Run 3	0.5204 ppm	0.4890 ppm	0.4665 ppm	0.4818 ppm	0.4894 ppm	0.4917 ppm	0.4776 ppm
Recovery Percentage 1	104.136 %	96.729 %	93.202 %	96.451 %	97.839 %	98.441 %	95.191 %
Concentration RSD	0.1 %	1.0 %	0.1 %	0.3 %	0.2 %	0.5 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4597 ppm	0.4898 ppm	0.5034 ppm	0.4937 ppm	0.4934 ppm	5.0830 ppm	0.5079 ppm
Concentration per Run 1	0.4582 ppm	0.4888 ppm	0.5016 ppm	0.4940 ppm	0.4958 ppm	5.0870 ppm	0.5048 ppm
Concentration per Run 2	0.4591 ppm	0.4901 ppm	0.5039 ppm	0.4948 ppm	0.4903 ppm	5.0654 ppm	0.5062 ppm
Concentration per Run 3	0.4618 ppm	0.4904 ppm	0.5047 ppm	0.4923 ppm	0.4941 ppm	5.0965 ppm	0.5126 ppm
Recovery Percentage 1	91.945 %	97.955 %	100.685 %	98.741 %	98.683 %	101.660 %	101.574 %
Concentration RSD	0.4 %	0.2 %	0.3 %	0.3 %	0.6 %	0.3 %	0.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5021 ppm	0.4902 ppm	0.4838 ppm	10.1225 ppm	0.5023 ppm	0.4951 ppm	0.4775 ppm
Concentration per Run 1	0.5011 ppm	0.4909 ppm	0.4823 ppm	10.0324 ppm	0.4972 ppm	0.4959 ppm	0.4766 ppm
Concentration per Run 2	0.5022 ppm	0.4882 ppm	0.4830 ppm	10.1717 ppm	0.5046 ppm	0.4949 ppm	0.4785 ppm
Concentration per Run 3	0.5029 ppm	0.4915 ppm	0.4860 ppm	10.1634 ppm	0.5051 ppm	0.4946 ppm	0.4772 ppm
Recovery Percentage 1	100.414 %	98.044 %	96.759 %	101.225 %	100.463 %	99.028 %	95.490 %
Concentration RSD	0.2 %	0.4 %	0.4 %	0.8 %	0.9 %	0.1 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4687 ppm	5.2458 ppm	0.4897 ppm	0.4965 ppm	0.5018 ppm	0.4993 ppm	0.4831 ppm
Concentration per Run 1	0.4691 ppm	5.2322 ppm	0.4808 ppm	0.4987 ppm	0.5007 ppm	0.4996 ppm	0.4824 ppm
Concentration per Run 2	0.4707 ppm	5.2459 ppm	0.4954 ppm	0.4946 ppm	0.5020 ppm	0.5019 ppm	0.4843 ppm
Concentration per Run 3	0.4664 ppm	5.2591 ppm	0.4928 ppm	0.4963 ppm	0.5026 ppm	0.4964 ppm	0.4825 ppm
Recovery Percentage 1	93.744 %	99.919 %	97.934 %	99.304 %	100.354 %	99.861 %	96.610 %
Concentration RSD	0.5 %	0.3 %	1.6 %	0.4 %	0.2 %	0.6 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4856 ppm	102.7983 %	102.2870 %	100.2794 %	100.8675 %	100.8926 %	98.7377 %
Concentration per Run 1	0.4801 ppm	103.2893 %	101.8334 %	100.4175 %	101.5154 %	100.5015 %	99.0773 %
Concentration per Run 2	0.4891 ppm	102.5701 %	102.8785 %	100.0223 %	100.2124 %	101.3812 %	98.3385 %
Concentration per Run 3	0.4875 ppm	102.5355 %	102.1491 %	100.3985 %	100.8746 %	100.7952 %	98.7973 %
Recovery Percentage 1	97.115 %						
Concentration RSD	1.0 %	0.4 %	0.5 %	0.2 %	0.6 %	0.4 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 7:12:33 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0083 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	0.0005 ppm	0.0064 ppm	-0.0003 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	-0.0001 ppm	0.0092 ppm	0.0018 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0022 ppm
Concentration per Run 3	0.0003 ppm	0.0094 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm
Recovery Percentage 1	3.297 %	8.331 %	9.171 %	-0.140 %	0.363 %	0.767 %	-0.794 %
Concentration RSD	116.0 %	19.9 %	257.9 %	811.8 %	238.0 %	72.1 %	241.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0004 ppm	0.0141 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0006 ppm	0.0007 ppm	0.0187 ppm	-0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0011 ppm	0.0129 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	-0.0005 ppm	0.0108 ppm	-0.0002 ppm
Recovery Percentage 1	2.482 %	-0.521 %	3.226 %	3.113 %	0.835 %	0.564 %	-6.200 %
Concentration RSD	12.3 %	138.9 %	54.9 %	87.5 %	194.1 %	29.0 %	82.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0009 ppm	0.0001 ppm	0.0024 ppm	0.0135 ppm	-0.0002 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 1	-0.0021 ppm	0.0001 ppm	0.0023 ppm	0.0133 ppm	0.0003 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 2	-0.0014 ppm	0.0002 ppm	0.0025 ppm	0.0127 ppm	0.0002 ppm	0.0006 ppm	-0.0022 ppm
Concentration per Run 3	0.0007 ppm	0.0001 ppm	0.0024 ppm	0.0145 ppm	-0.0010 ppm	-0.0008 ppm	-0.0015 ppm
Recovery Percentage 1	-0.940 %	1.198 %	4.812 %	0.674 %	-0.660 %	0.371 %	-2.596 %
Concentration RSD	157.7 %	38.0 %	4.2 %	6.7 %	419.0 %	2,012.5 %	81.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0002 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 1	-0.0009 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 2	-0.0005 ppm	0.0022 ppm	-0.0004 ppm	0.0001 ppm	0.0006 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 3	0.0009 ppm	0.0023 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm
Recovery Percentage 1	-1.753 %	0.386 %	-0.236 %	0.200 %	5.175 %	-2.078 %	1.498 %
Concentration RSD	524.6 %	30.7 %	240.9 %	214.6 %	31.4 %	116.1 %	105.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0007 ppm	101.4642 %	100.5239 %	100.5601 %	101.5370 %	100.9033 %	100.1627 %
Concentration per Run 1	-0.0007 ppm	101.4924 %	100.5290 %	101.1338 %	101.8291 %	101.0322 %	100.6872 %
Concentration per Run 2	-0.0007 ppm	102.1882 %	100.8441 %	100.7385 %	102.0418 %	101.4687 %	100.2879 %
Concentration per Run 3	-0.0008 ppm	100.7120 %	100.1985 %	99.8079 %	100.7401 %	100.2090 %	99.5128 %
Recovery Percentage 1	-14.828 %						
Concentration RSD	13.0 %	0.7 %	0.3 %	0.7 %	0.7 %	0.6 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538382-06 WG2081457
 Analysis started at: 6/27/2025 7:25:26 PM
 Rack: 2
 Vial: 25
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0096 ppm	0.0003 ppm	0.0122 ppm	0.0366 ppm	0.0000 ppm	12.8004 ppm
Concentration per Run 1	0.0001 ppm	0.0106 ppm	0.0008 ppm	0.0121 ppm	0.0366 ppm	0.0000 ppm	12.8457 ppm
Concentration per Run 2	0.0003 ppm	0.0105 ppm	-0.0001 ppm	0.0119 ppm	0.0364 ppm	0.0000 ppm	12.8234 ppm
Concentration per Run 3	0.0003 ppm	0.0076 ppm	0.0004 ppm	0.0126 ppm	0.0367 ppm	0.0000 ppm	12.7321 ppm
Concentration RSD	60.4 %	18.1 %	141.9 %	2.9 %	0.4 %	85.3 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0037 ppm	0.0009 ppm	0.0059 ppm	1.1094 ppm	0.0026 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0037 ppm	0.0010 ppm	0.0058 ppm	1.1054 ppm	0.0034 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0038 ppm	0.0008 ppm	0.0057 ppm	1.0997 ppm	0.0024 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0036 ppm	0.0010 ppm	0.0063 ppm	1.1232 ppm	0.0019 ppm
Concentration RSD	200.5 %	42.6 %	2.2 %	10.4 %	5.3 %	1.1 %	28.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	5.4410 ppm	0.0009 ppm	0.0004 ppm	14.2726 ppm	0.0040 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 1	5.4701 ppm	0.0009 ppm	0.0004 ppm	14.0599 ppm	0.0048 ppm	0.0003 ppm	-0.0010 ppm
Concentration per Run 2	5.4348 ppm	0.0009 ppm	0.0005 ppm	14.2134 ppm	0.0036 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	5.4181 ppm	0.0009 ppm	0.0001 ppm	14.5447 ppm	0.0034 ppm	0.0008 ppm	0.0002 ppm
Concentration RSD	0.5 %	3.3 %	55.7 %	1.7 %	18.8 %	142.6 %	236.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0014 ppm	9.0643 ppm	-0.0009 ppm	0.0801 ppm	0.0005 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 1	0.0028 ppm	9.1353 ppm	-0.0010 ppm	0.0799 ppm	0.0005 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 2	-0.0012 ppm	9.0589 ppm	-0.0006 ppm	0.0798 ppm	0.0005 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 3	0.0026 ppm	8.9987 ppm	-0.0012 ppm	0.0807 ppm	0.0004 ppm	-0.0004 ppm	0.0001 ppm
Concentration RSD	159.5 %	0.8 %	31.7 %	0.6 %	4.7 %	50.0 %	46.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0118 ppm	104.9389 %	103.3355 %	101.4590 %	102.1513 %	101.6125 %	99.6648 %
Concentration per Run 1	0.0121 ppm	104.8631 %	102.7131 %	101.0071 %	102.7745 %	100.9648 %	99.3482 %
Concentration per Run 2	0.0119 ppm	104.4317 %	103.3501 %	102.0975 %	100.9583 %	101.6645 %	99.9398 %
Concentration per Run 3	0.0116 ppm	105.5218 %	103.9432 %	101.2726 %	102.7212 %	102.2083 %	99.7065 %
Concentration RSD	2.3 %	0.5 %	0.6 %	0.6 %	1.0 %	0.6 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: zWG2081457-7 WG2081457
 Analysis started at: 6/27/2025 7:28:53 PM
 Rack: 2
 Vial: 26
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0519 ppm	2.0397 ppm	0.1166 ppm	0.9755 ppm	2.0145 ppm	0.0493 ppm	21.8918 ppm
Concentration per Run 1	0.0525 ppm	2.0459 ppm	0.1175 ppm	0.9847 ppm	2.0138 ppm	0.0492 ppm	21.8954 ppm
Concentration per Run 2	0.0518 ppm	2.0332 ppm	0.1155 ppm	0.9690 ppm	2.0138 ppm	0.0495 ppm	21.9669 ppm
Concentration per Run 3	0.0515 ppm	2.0401 ppm	0.1169 ppm	0.9728 ppm	2.0159 ppm	0.0492 ppm	21.8130 ppm
Concentration RSD	1.0 %	0.3 %	0.9 %	0.8 %	0.1 %	0.4 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0469 ppm	0.4655 ppm	0.1983 ppm	0.2434 ppm	0.9957 ppm	11.6113 ppm	0.0024 ppm
Concentration per Run 1	0.0471 ppm	0.4698 ppm	0.1981 ppm	0.2447 ppm	0.9999 ppm	11.6139 ppm	0.0019 ppm
Concentration per Run 2	0.0466 ppm	0.4616 ppm	0.1981 ppm	0.2415 ppm	1.0004 ppm	11.6351 ppm	0.0024 ppm
Concentration per Run 3	0.0471 ppm	0.4651 ppm	0.1986 ppm	0.2440 ppm	0.9869 ppm	11.5849 ppm	0.0029 ppm
Concentration RSD	0.6 %	0.9 %	0.1 %	0.7 %	0.8 %	0.2 %	20.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	15.0120 ppm	0.4781 ppm	0.9246 ppm	24.4685 ppm	0.4848 ppm	0.5086 ppm	0.3846 ppm
Concentration per Run 1	15.0913 ppm	0.4792 ppm	0.9225 ppm	24.4336 ppm	0.4844 ppm	0.5135 ppm	0.3799 ppm
Concentration per Run 2	15.0205 ppm	0.4786 ppm	0.9232 ppm	24.4424 ppm	0.4845 ppm	0.5045 ppm	0.3815 ppm
Concentration per Run 3	14.9242 ppm	0.4765 ppm	0.9282 ppm	24.5295 ppm	0.4856 ppm	0.5079 ppm	0.3925 ppm
Concentration RSD	0.6 %	0.3 %	0.3 %	0.2 %	0.1 %	0.9 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1175 ppm	6.7366 ppm	0.9255 ppm	1.0449 ppm	0.6539 ppm	0.1174 ppm	0.4855 ppm
Concentration per Run 1	0.1191 ppm	-0.0376 ppm	0.9266 ppm	1.0430 ppm	0.0000 ppm	0.1171 ppm	0.4856 ppm
Concentration per Run 2	0.1165 ppm	10.1038 ppm	0.9253 ppm	1.0446 ppm	0.9806 ppm	0.1170 ppm	0.4836 ppm
Concentration per Run 3	0.1168 ppm	10.1437 ppm	0.9247 ppm	1.0471 ppm	0.9812 ppm	0.1180 ppm	0.4871 ppm
Concentration RSD	1.2 %	87.1 %	0.1 %	0.2 %	86.6 %	0.5 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4889 ppm	101.8766 %	101.5095 %	96.6124 %	99.8184 %	100.2316 %	97.2267 %
Concentration per Run 1	0.4907 ppm	102.1659 %	101.4572 %	95.5293 %	100.3920 %	99.9839 %	96.8846 %
Concentration per Run 2	0.4874 ppm	101.6624 %	101.0783 %	97.3282 %	99.7082 %	99.9994 %	97.5289 %
Concentration per Run 3	0.4885 ppm	101.8015 %	101.9930 %	96.9795 %	99.3550 %	100.7117 %	97.2666 %
Concentration RSD	0.3 %	0.3 %	0.5 %	1.0 %	0.5 %	0.4 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2081457-8 WG2081457
 Analysis started at: 6/27/2025 7:32:06 PM
 Rack: 2
 Vial: 27
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0515 ppm	2.0345 ppm	0.1164 ppm	0.9943 ppm	2.0057 ppm	0.0488 ppm	22.1951 ppm
Concentration per Run 1	0.0514 ppm	2.0402 ppm	0.1157 ppm	0.9925 ppm	2.0008 ppm	0.0488 ppm	22.1368 ppm
Concentration per Run 2	0.0515 ppm	2.0308 ppm	0.1173 ppm	0.9970 ppm	2.0092 ppm	0.0489 ppm	22.2853 ppm
Concentration per Run 3	0.0515 ppm	2.0327 ppm	0.1163 ppm	0.9934 ppm	2.0070 ppm	0.0489 ppm	22.1634 ppm
Concentration RSD	0.1 %	0.2 %	0.7 %	0.2 %	0.2 %	0.2 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0471 ppm	0.4677 ppm	0.1986 ppm	0.2437 ppm	0.9822 ppm	11.7063 ppm	0.0019 ppm
Concentration per Run 1	0.0471 ppm	0.4673 ppm	0.1982 ppm	0.2435 ppm	0.9797 ppm	11.5792 ppm	0.0024 ppm
Concentration per Run 2	0.0468 ppm	0.4650 ppm	0.1987 ppm	0.2440 ppm	0.9862 ppm	11.8268 ppm	0.0017 ppm
Concentration per Run 3	0.0474 ppm	0.4706 ppm	0.1989 ppm	0.2435 ppm	0.9806 ppm	11.7128 ppm	0.0017 ppm
Concentration RSD	0.7 %	0.6 %	0.2 %	0.1 %	0.4 %	1.1 %	20.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	15.2543 ppm	0.4761 ppm	0.9463 ppm	24.9126 ppm	0.4850 ppm	0.5126 ppm	0.3987 ppm
Concentration per Run 1	15.2867 ppm	0.4739 ppm	0.9426 ppm	24.5500 ppm	0.4842 ppm	0.5105 ppm	0.3958 ppm
Concentration per Run 2	15.1677 ppm	0.4784 ppm	0.9405 ppm	25.1566 ppm	0.4841 ppm	0.5135 ppm	0.3977 ppm
Concentration per Run 3	15.3084 ppm	0.4760 ppm	0.9556 ppm	25.0312 ppm	0.4868 ppm	0.5138 ppm	0.4027 ppm
Concentration RSD	0.5 %	0.5 %	0.9 %	1.3 %	0.3 %	0.4 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1173 ppm	10.3557 ppm	0.9458 ppm	1.0489 ppm	0.9922 ppm	0.1181 ppm	0.4863 ppm
Concentration per Run 1	0.1165 ppm	10.3505 ppm	0.9398 ppm	1.0479 ppm	0.9919 ppm	0.1187 ppm	0.4860 ppm
Concentration per Run 2	0.1188 ppm	10.3472 ppm	0.9453 ppm	1.0487 ppm	0.9911 ppm	0.1177 ppm	0.4858 ppm
Concentration per Run 3	0.1167 ppm	10.3694 ppm	0.9523 ppm	1.0500 ppm	0.9937 ppm	0.1179 ppm	0.4872 ppm
Concentration RSD	1.1 %	0.1 %	0.7 %	0.1 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4910 ppm	101.2925 %	101.6773 %	96.4107 %	98.8040 %	99.9065 %	96.5354 %
Concentration per Run 1	0.4924 ppm	101.4914 %	101.8083 %	96.2023 %	98.8761 %	99.7917 %	96.3176 %
Concentration per Run 2	0.4870 ppm	101.8850 %	101.0918 %	96.6255 %	99.3318 %	99.3157 %	96.8425 %
Concentration per Run 3	0.4937 ppm	100.5011 %	102.1318 %	96.4044 %	98.2041 %	100.6121 %	96.4461 %
Concentration RSD	0.7 %	0.7 %	0.5 %	0.2 %	0.6 %	0.7 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2081457-9 WG2081457
 Analysis started at: 6/27/2025 7:35:19 PM
 Rack: 2
 Vial: 28
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0558 ppm	2.1778 ppm	0.1171 ppm	0.9996 ppm	2.1643 ppm	0.0527 ppm	21.4918 ppm
Concentration per Run 1	0.0555 ppm	2.1723 ppm	0.1163 ppm	0.9980 ppm	2.1593 ppm	0.0525 ppm	21.4493 ppm
Concentration per Run 2	0.0559 ppm	2.1909 ppm	0.1177 ppm	0.9984 ppm	2.1710 ppm	0.0528 ppm	21.5397 ppm
Concentration per Run 3	0.0560 ppm	2.1702 ppm	0.1173 ppm	1.0023 ppm	2.1625 ppm	0.0529 ppm	21.4863 ppm
Concentration RSD	0.5 %	0.5 %	0.6 %	0.2 %	0.3 %	0.4 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0464 ppm	0.5064 ppm	0.2149 ppm	0.2624 ppm	1.0510 ppm	11.7226 ppm	0.0019 ppm
Concentration per Run 1	0.0461 ppm	0.5074 ppm	0.2137 ppm	0.2631 ppm	1.0458 ppm	11.6578 ppm	0.0020 ppm
Concentration per Run 2	0.0464 ppm	0.5059 ppm	0.2140 ppm	0.2627 ppm	1.0532 ppm	11.8571 ppm	0.0020 ppm
Concentration per Run 3	0.0466 ppm	0.5060 ppm	0.2168 ppm	0.2615 ppm	1.0539 ppm	11.6528 ppm	0.0018 ppm
Concentration RSD	0.5 %	0.2 %	0.8 %	0.3 %	0.4 %	1.0 %	6.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	15.0825 ppm	0.5130 ppm	0.9536 ppm	24.5231 ppm	0.5287 ppm	0.5089 ppm	0.3116 ppm
Concentration per Run 1	15.0143 ppm	0.5108 ppm	0.9479 ppm	24.3388 ppm	0.5262 ppm	0.5108 ppm	0.3071 ppm
Concentration per Run 2	15.1086 ppm	0.5138 ppm	0.9516 ppm	24.8838 ppm	0.5285 ppm	0.5103 ppm	0.3123 ppm
Concentration per Run 3	15.1245 ppm	0.5146 ppm	0.9614 ppm	24.3468 ppm	0.5313 ppm	0.5056 ppm	0.3154 ppm
Concentration RSD	0.4 %	0.4 %	0.7 %	1.3 %	0.5 %	0.6 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1157 ppm	9.6294 ppm	0.9744 ppm	1.0464 ppm	0.9989 ppm	0.1175 ppm	0.5245 ppm
Concentration per Run 1	0.1172 ppm	9.6485 ppm	0.9743 ppm	1.0489 ppm	0.9946 ppm	0.1169 ppm	0.5251 ppm
Concentration per Run 2	0.1150 ppm	9.5905 ppm	0.9735 ppm	1.0467 ppm	0.9997 ppm	0.1184 ppm	0.5255 ppm
Concentration per Run 3	0.1150 ppm	9.6494 ppm	0.9754 ppm	1.0436 ppm	1.0024 ppm	0.1170 ppm	0.5228 ppm
Concentration RSD	1.1 %	0.4 %	0.1 %	0.3 %	0.4 %	0.7 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5323 ppm	101.1187 %	102.6939 %	96.8395 %	98.4081 %	100.5718 %	97.1038 %
Concentration per Run 1	0.5298 ppm	102.0462 %	102.4404 %	96.6210 %	99.1905 %	100.1805 %	97.3269 %
Concentration per Run 2	0.5319 ppm	99.9804 %	103.0851 %	96.7134 %	97.0537 %	101.2611 %	96.8598 %
Concentration per Run 3	0.5353 ppm	101.3296 %	102.5563 %	97.1840 %	98.9799 %	100.2738 %	97.1246 %
Concentration RSD	0.5 %	1.0 %	0.3 %	0.3 %	1.2 %	0.6 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2081457-10d5 WG2081457
 Analysis started at: 6/27/2025 7:38:33 PM
 Rack: 2
 Vial: 29
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0114 ppm	-0.0007 ppm	-0.0006 ppm	0.0009 ppm	0.0000 ppm	0.3276 ppm
Concentration per Run 1	0.0003 ppm	0.0112 ppm	-0.0011 ppm	0.0005 ppm	0.0009 ppm	0.0000 ppm	0.3252 ppm
Concentration per Run 2	0.0003 ppm	0.0100 ppm	-0.0006 ppm	-0.0013 ppm	0.0009 ppm	0.0000 ppm	0.3283 ppm
Concentration per Run 3	0.0002 ppm	0.0129 ppm	-0.0004 ppm	-0.0010 ppm	0.0009 ppm	0.0000 ppm	0.3294 ppm
Concentration RSD	25.7 %	12.9 %	46.6 %	159.4 %	0.5 %	375.7 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0003 ppm	0.0023 ppm	0.0368 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0034 ppm	0.0338 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0021 ppm	0.0424 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0006 ppm	0.0003 ppm	0.0014 ppm	0.0343 ppm	0.0001 ppm
Concentration RSD	162.3 %	250.9 %	13.4 %	36.6 %	45.2 %	13.1 %	318.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.1432 ppm	0.0001 ppm	0.0069 ppm	0.3542 ppm	0.0001 ppm	0.0000 ppm	0.0235 ppm
Concentration per Run 1	0.1439 ppm	0.0001 ppm	0.0072 ppm	0.3505 ppm	0.0003 ppm	0.0005 ppm	0.0236 ppm
Concentration per Run 2	0.1426 ppm	0.0001 ppm	0.0068 ppm	0.3531 ppm	0.0000 ppm	-0.0004 ppm	0.0234 ppm
Concentration per Run 3	0.1432 ppm	0.0001 ppm	0.0067 ppm	0.3591 ppm	0.0002 ppm	-0.0003 ppm	0.0235 ppm
Concentration RSD	0.5 %	39.6 %	3.6 %	1.2 %	103.8 %	1,370.0 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0009 ppm	0.2245 ppm	0.0211 ppm	0.0021 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	-0.0015 ppm	0.2252 ppm	0.0214 ppm	0.0021 ppm	0.0007 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 2	-0.0020 ppm	0.2240 ppm	0.0222 ppm	0.0021 ppm	0.0007 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0007 ppm	0.2244 ppm	0.0197 ppm	0.0021 ppm	0.0007 ppm	0.0005 ppm	0.0000 ppm
Concentration RSD	153.7 %	0.3 %	6.1 %	0.7 %	5.0 %	2,248.5 %	193.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0007 ppm	103.8159 %	102.4122 %	102.9186 %	103.5590 %	101.8304 %	101.1521 %
Concentration per Run 1	-0.0008 ppm	103.2880 %	102.3934 %	103.1468 %	102.9216 %	101.0505 %	101.1584 %
Concentration per Run 2	-0.0007 ppm	104.1607 %	102.5016 %	102.9037 %	104.4751 %	102.0893 %	101.2255 %
Concentration per Run 3	-0.0007 ppm	103.9989 %	102.3415 %	102.7053 %	103.2805 %	102.3514 %	101.0723 %
Concentration RSD	5.6 %	0.4 %	0.1 %	0.2 %	0.8 %	0.7 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538382-01 WG2081457
 Analysis started at: 6/27/2025 7:41:47 PM
 Rack: 2
 Vial: 30
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.0235 ppm	-0.0001 ppm	0.0112 ppm	0.0362 ppm	0.0000 ppm	11.9788 ppm
Concentration per Run 1	0.0002 ppm	0.0242 ppm	0.0003 ppm	0.0111 ppm	0.0362 ppm	0.0001 ppm	11.8995 ppm
Concentration per Run 2	0.0005 ppm	0.0213 ppm	0.0000 ppm	0.0109 ppm	0.0365 ppm	0.0000 ppm	11.9881 ppm
Concentration per Run 3	0.0002 ppm	0.0249 ppm	-0.0006 ppm	0.0115 ppm	0.0360 ppm	0.0000 ppm	12.0489 ppm
Concentration RSD	51.2 %	8.1 %	646.1 %	2.5 %	0.8 %	35.9 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0013 ppm	0.0006 ppm	0.0070 ppm	1.1150 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0006 ppm	0.0014 ppm	0.0005 ppm	0.0067 ppm	1.1134 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	0.0013 ppm	0.0007 ppm	0.0071 ppm	1.1230 ppm	0.0006 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0012 ppm	0.0006 ppm	0.0071 ppm	1.1086 ppm	0.0000 ppm
Concentration RSD	164.6 %	53.4 %	7.3 %	19.9 %	3.3 %	0.7 %	83.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	5.9089 ppm	0.0821 ppm	0.0019 ppm	8.1783 ppm	0.0011 ppm	0.0001 ppm	0.0031 ppm
Concentration per Run 1	5.9361 ppm	0.0817 ppm	0.0018 ppm	8.0793 ppm	0.0012 ppm	0.0002 ppm	0.0036 ppm
Concentration per Run 2	5.9201 ppm	0.0822 ppm	0.0020 ppm	8.2346 ppm	0.0015 ppm	0.0002 ppm	0.0031 ppm
Concentration per Run 3	5.8704 ppm	0.0822 ppm	0.0019 ppm	8.2210 ppm	0.0007 ppm	0.0000 ppm	0.0026 ppm
Concentration RSD	0.6 %	0.3 %	4.5 %	1.1 %	35.8 %	90.5 %	16.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0004 ppm	5.5280 ppm	0.0014 ppm	0.0689 ppm	0.0003 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0007 ppm	5.5264 ppm	0.0009 ppm	0.0689 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 2	0.0017 ppm	5.5361 ppm	0.0015 ppm	0.0693 ppm	0.0005 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 3	-0.0012 ppm	5.5217 ppm	0.0018 ppm	0.0685 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm
Concentration RSD	376.0 %	0.1 %	33.5 %	0.6 %	44.5 %	354.0 %	76.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	104.3207 %	103.1853 %	101.3617 %	102.6997 %	102.0692 %	100.1603 %
Concentration per Run 1	0.0015 ppm	103.5544 %	103.5291 %	101.3123 %	101.9434 %	102.2675 %	100.0905 %
Concentration per Run 2	0.0014 ppm	105.1091 %	103.0657 %	101.1045 %	103.1027 %	102.2801 %	99.9539 %
Concentration per Run 3	0.0013 ppm	104.2985 %	102.9611 %	101.6682 %	103.0530 %	101.6600 %	100.4366 %
Concentration RSD	9.9 %	0.7 %	0.3 %	0.3 %	0.6 %	0.3 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538382-02 WG2081457
 Analysis started at: 6/27/2025 7:45:00 PM
 Rack: 2
 Vial: 31
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0047 ppm	-0.0001 ppm	0.0163 ppm	0.0303 ppm	0.0000 ppm	11.9562 ppm
Concentration per Run 1	0.0002 ppm	0.0070 ppm	-0.0007 ppm	0.0164 ppm	0.0303 ppm	0.0000 ppm	11.9806 ppm
Concentration per Run 2	-0.0002 ppm	0.0057 ppm	0.0004 ppm	0.0167 ppm	0.0302 ppm	0.0000 ppm	11.9178 ppm
Concentration per Run 3	0.0004 ppm	0.0015 ppm	0.0001 ppm	0.0159 ppm	0.0304 ppm	0.0000 ppm	11.9701 ppm
Concentration RSD	200.3 %	61.5 %	853.6 %	2.3 %	0.3 %	114.5 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0020 ppm	0.0005 ppm	0.0027 ppm	1.2326 ppm	0.0019 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0019 ppm	0.0007 ppm	0.0032 ppm	1.2241 ppm	0.0021 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0020 ppm	0.0005 ppm	0.0020 ppm	1.2233 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0021 ppm	0.0003 ppm	0.0030 ppm	1.2504 ppm	0.0022 ppm
Concentration RSD	88.4 %	333.5 %	4.2 %	36.4 %	24.1 %	1.3 %	22.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	5.8555 ppm	0.0007 ppm	0.0009 ppm	16.8828 ppm	0.0008 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 1	5.8346 ppm	0.0007 ppm	0.0008 ppm	16.6575 ppm	0.0008 ppm	0.0005 ppm	0.0019 ppm
Concentration per Run 2	5.8666 ppm	0.0006 ppm	0.0009 ppm	17.0186 ppm	0.0013 ppm	-0.0005 ppm	0.0024 ppm
Concentration per Run 3	5.8654 ppm	0.0007 ppm	0.0011 ppm	16.9722 ppm	0.0003 ppm	-0.0001 ppm	0.0005 ppm
Concentration RSD	0.3 %	6.9 %	15.3 %	1.2 %	60.7 %	3,297.3 %	63.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0008 ppm	7.7575 ppm	0.0002 ppm	0.0698 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	7.7495 ppm	0.0002 ppm	0.0696 ppm	0.0005 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 2	-0.0015 ppm	7.7849 ppm	0.0001 ppm	0.0697 ppm	0.0005 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 3	-0.0010 ppm	7.7382 ppm	0.0003 ppm	0.0701 ppm	0.0005 ppm	-0.0007 ppm	0.0001 ppm
Concentration RSD	84.8 %	0.3 %	64.4 %	0.4 %	4.1 %	700.6 %	54.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	102.9562 %	104.2428 %	100.5669 %	100.8430 %	102.5195 %	99.0739 %
Concentration per Run 1	0.0008 ppm	104.0913 %	104.4945 %	100.3167 %	101.7971 %	102.6849 %	98.7980 %
Concentration per Run 2	0.0006 ppm	102.3528 %	103.9978 %	100.2619 %	100.1404 %	102.4442 %	99.0062 %
Concentration per Run 3	0.0009 ppm	102.4245 %	104.2362 %	101.1222 %	100.5914 %	102.4292 %	99.4175 %
Concentration RSD	23.8 %	1.0 %	0.2 %	0.5 %	0.8 %	0.1 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538382-03 WG2081457
 Analysis started at: 6/27/2025 7:48:13 PM
 Rack: 2
 Vial: 32
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0057 ppm	0.0002 ppm	0.0190 ppm	0.0463 ppm	0.0000 ppm	14.7867 ppm
Concentration per Run 1	0.0000 ppm	0.0077 ppm	-0.0011 ppm	0.0186 ppm	0.0463 ppm	0.0000 ppm	14.6905 ppm
Concentration per Run 2	0.0000 ppm	0.0050 ppm	0.0010 ppm	0.0192 ppm	0.0461 ppm	0.0000 ppm	14.8777 ppm
Concentration per Run 3	0.0004 ppm	0.0045 ppm	0.0008 ppm	0.0192 ppm	0.0464 ppm	0.0000 ppm	14.7918 ppm
Concentration RSD	149.0 %	29.9 %	474.7 %	1.9 %	0.3 %	17.6 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0014 ppm	0.0008 ppm	0.0027 ppm	1.3032 ppm	0.0019 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0014 ppm	0.0006 ppm	0.0033 ppm	1.3140 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0014 ppm	0.0011 ppm	0.0028 ppm	1.2947 ppm	0.0020 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0015 ppm	0.0006 ppm	0.0019 ppm	1.3008 ppm	0.0015 ppm
Concentration RSD	195.1 %	13.0 %	5.9 %	34.8 %	26.4 %	0.8 %	17.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	7.1083 ppm	0.0003 ppm	0.0004 ppm	19.0950 ppm	0.0003 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 1	7.1505 ppm	0.0003 ppm	0.0005 ppm	19.1433 ppm	0.0006 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 2	7.0884 ppm	0.0003 ppm	0.0007 ppm	19.1433 ppm	0.0003 ppm	0.0004 ppm	0.0012 ppm
Concentration per Run 3	7.0861 ppm	0.0003 ppm	0.0001 ppm	18.9985 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm
Concentration RSD	0.5 %	13.6 %	69.8 %	0.4 %	89.3 %	664.9 %	138.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0003 ppm	8.9492 ppm	-0.0004 ppm	0.0912 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0010 ppm	8.9906 ppm	-0.0005 ppm	0.0912 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	0.0009 ppm	8.9420 ppm	-0.0007 ppm	0.0909 ppm	0.0004 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	0.0009 ppm	8.9150 ppm	0.0001 ppm	0.0915 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	380.2 %	0.4 %	111.5 %	0.3 %	62.3 %	96.4 %	133.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	103.2912 %	103.6218 %	99.6027 %	100.9203 %	102.3979 %	98.4206 %
Concentration per Run 1	0.0008 ppm	103.5180 %	103.9155 %	99.7871 %	101.4247 %	102.3068 %	98.6015 %
Concentration per Run 2	0.0008 ppm	103.2384 %	103.5513 %	99.4946 %	100.4593 %	102.4918 %	98.3559 %
Concentration per Run 3	0.0009 ppm	103.1172 %	103.3985 %	99.5264 %	100.8769 %	102.3951 %	98.3045 %
Concentration RSD	1.9 %	0.2 %	0.3 %	0.2 %	0.5 %	0.1 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: xL2538382-04 WG2081457
 Analysis started at: 6/27/2025 7:51:27 PM
 Rack: 2
 Vial: 33
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0076 ppm	-1.2984 ppm	0.0148 ppm	0.0222 ppm	0.0000 ppm	30.4131 ppm
Concentration per Run 1	0.0002 ppm	0.0071 ppm	-3.8954 ppm	0.0161 ppm	0.0224 ppm	0.0000 ppm	30.4465 ppm
Concentration per Run 2	0.0001 ppm	0.0062 ppm	0.0005 ppm	0.0144 ppm	0.0221 ppm	0.0000 ppm	30.3834 ppm
Concentration per Run 3	0.0004 ppm	0.0094 ppm	-0.0003 ppm	0.0140 ppm	0.0222 ppm	0.0000 ppm	30.4093 ppm
Concentration RSD	67.6 %	21.6 %	173.2 %	7.3 %	0.6 %	12.9 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0002 ppm	-0.0002 ppm	0.0006 ppm	0.0012 ppm	0.0044 ppm	1.2099 ppm	0.0000 ppm
Concentration per Run 1	-0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0013 ppm	0.0050 ppm	1.2272 ppm	0.0000 ppm
Concentration per Run 2	-0.0002 ppm	-0.0004 ppm	0.0008 ppm	0.0011 ppm	0.0035 ppm	1.1912 ppm	0.0000 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0010 ppm	0.0046 ppm	1.2112 ppm	-0.0002 ppm
Concentration RSD	10.6 %	87.3 %	16.8 %	13.9 %	17.4 %	1.5 %	386.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	7.1857 ppm	0.0003 ppm	0.0006 ppm	2.2642 ppm	0.0001 ppm	54.2750 ppm	0.0006 ppm
Concentration per Run 1	7.2076 ppm	0.0003 ppm	0.0005 ppm	2.2617 ppm	0.0001 ppm	162.8245 ppm	0.0010 ppm
Concentration per Run 2	7.1916 ppm	0.0002 ppm	0.0006 ppm	2.2648 ppm	0.0003 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 3	7.1580 ppm	0.0003 ppm	0.0006 ppm	2.2662 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm
Concentration RSD	0.4 %	16.8 %	9.2 %	0.1 %	236.2 %	173.2 %	72.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4422 ppm	2.8507 ppm	-0.0003 ppm	0.1341 ppm	0.0004 ppm	13.1944 ppm	0.0004 ppm
Concentration per Run 1	1.3259 ppm	2.8644 ppm	0.0001 ppm	0.1341 ppm	0.0002 ppm	39.5833 ppm	0.0002 ppm
Concentration per Run 2	0.0010 ppm	2.8449 ppm	0.0000 ppm	0.1337 ppm	0.0003 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 3	-0.0003 ppm	2.8429 ppm	-0.0009 ppm	0.1345 ppm	0.0008 ppm	0.0000 ppm	0.0003 ppm
Concentration RSD	173.1 %	0.4 %	206.8 %	0.3 %	77.5 %	173.2 %	46.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	102.6252 %	102.7980 %	66.2652 %	101.4202 %	102.3545 %	99.3635 %
Concentration per Run 1	0.0001 ppm	102.5916 %	103.3476 %	-0.0002 %	100.8663 %	102.9518 %	100.0449 %
Concentration per Run 2	0.0001 ppm	102.1906 %	102.8130 %	99.6807 %	101.2455 %	102.2633 %	99.2541 %
Concentration per Run 3	0.0002 ppm	103.0934 %	102.2334 %	99.1152 %	102.1488 %	101.8484 %	98.7915 %
Concentration RSD	45.5 %	0.4 %	0.5 %	86.6 %	0.6 %	0.5 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: xWG2081457-7 WG2081457
 Analysis started at: 6/27/2025 7:54:41 PM
 Rack: 2
 Vial: 26
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	∞ ppm	2.0331 ppm	0.1165 ppm	∞ [SIC 50]	2.0038 ppm	0.0487 ppm	21.6588 ppm
Concentration per Run 1	∞ ppm	2.0369 ppm	0.1167 ppm	∞ ppm	2.0015 ppm	0.0486 ppm	21.7194 ppm
Concentration per Run 2	0.0514 ppm	2.0300 ppm	0.1165 ppm	0.9759 ppm	2.0003 ppm	0.0486 ppm	21.6531 ppm
Concentration per Run 3	0.0515 ppm	2.0325 ppm	0.1163 ppm	0.9682 ppm	2.0097 ppm	0.0489 ppm	21.6038 ppm
Concentration RSD		0.2 %	0.1 %		0.3 %	0.3 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	∞ ppm	∞ ppm	∞ ppm	0.2434 ppm	0.9857 ppm	11.5571 ppm	0.0019 ppm
Concentration per Run 1	∞ ppm	∞ ppm	∞ ppm	0.2481 ppm	0.9870 ppm	11.4408 ppm	0.0022 ppm
Concentration per Run 2	0.0466 ppm	0.4632 ppm	0.1968 ppm	0.2408 ppm	0.9843 ppm	11.6231 ppm	0.0017 ppm
Concentration per Run 3	0.0460 ppm	0.4574 ppm	0.1972 ppm	0.2412 ppm	0.9858 ppm	11.6075 ppm	0.0017 ppm
Concentration RSD				1.7 %	0.1 %	0.9 %	14.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	∞ [SIC 700]	0.4738 ppm	∞ [SIC 20]	24.3897 ppm	∞ [SIC 20]	0.5049 ppm	0.2603 ppm
Concentration per Run 1	∞ ppm	0.4761 ppm	∞ ppm	24.2799 ppm	∞ ppm	0.5078 ppm	0.0090 ppm
Concentration per Run 2	14.9015 ppm	0.4742 ppm	0.9202 ppm	24.4446 ppm	0.4805 ppm	0.5017 ppm	0.3840 ppm
Concentration per Run 3	14.8445 ppm	0.4711 ppm	0.9184 ppm	24.4447 ppm	0.4798 ppm	0.5053 ppm	0.3880 ppm
Concentration RSD		0.5 %		0.4 %		0.6 %	83.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1177 ppm	∞ ppm	∞ [SIC 20]	1.0366 ppm	∞ ppm	0.1165 ppm	0.4818 ppm
Concentration per Run 1	0.1186 ppm	∞ ppm	∞ ppm	1.0364 ppm	∞ ppm	0.1167 ppm	0.4855 ppm
Concentration per Run 2	0.1163 ppm	10.0989 ppm	0.9155 ppm	1.0337 ppm	0.9758 ppm	0.1174 ppm	0.4793 ppm
Concentration per Run 3	0.1181 ppm	10.0530 ppm	0.9164 ppm	1.0396 ppm	0.9778 ppm	0.1155 ppm	0.4807 ppm
Concentration RSD	1.0 %			0.3 %		0.8 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	∞ [SIC 50]	68.0909 %		102.2338 %	97.5486 %	99.6390 %	100.7873 %
Concentration per Run 1	∞ ppm	0.0000 %		102.6852 %	96.8761 %	98.8757 %	101.7139 %
Concentration per Run 2	0.4857 ppm	102.1108 %	101.8703 %	98.0473 %	100.2428 %	100.1410 %	97.9718 %
Concentration per Run 3	0.4822 ppm	102.1618 %	102.1457 %	97.7224 %	99.7986 %	100.5071 %	97.8973 %
Concentration RSD		86.6 %	0.4 %	0.6 %	0.7 %	0.8 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 8:01:46 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5180 ppm	0.4750 ppm	0.4621 ppm	0.4811 ppm	0.4876 ppm	0.4903 ppm	0.4815 ppm
Concentration per Run 1	0.5193 ppm	0.4695 ppm	0.4632 ppm	0.4833 ppm	0.4877 ppm	0.4930 ppm	0.4803 ppm
Concentration per Run 2	0.5185 ppm	0.4773 ppm	0.4607 ppm	0.4799 ppm	0.4868 ppm	0.4874 ppm	0.4773 ppm
Concentration per Run 3	0.5162 ppm	0.4784 ppm	0.4623 ppm	0.4802 ppm	0.4884 ppm	0.4906 ppm	0.4868 ppm
Recovery Percentage 1	103.600 %	95.008 %	92.413 %	96.227 %	97.528 %	98.063 %	96.290 %
Concentration RSD	0.3 %	1.0 %	0.3 %	0.4 %	0.2 %	0.6 %	1.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4598 ppm	0.4883 ppm	0.5013 ppm	0.4910 ppm	0.4929 ppm	5.0596 ppm	0.5094 ppm
Concentration per Run 1	0.4613 ppm	0.4901 ppm	0.5043 ppm	0.4920 ppm	0.4943 ppm	5.0756 ppm	0.5104 ppm
Concentration per Run 2	0.4593 ppm	0.4871 ppm	0.5001 ppm	0.4894 ppm	0.4899 ppm	5.0156 ppm	0.5045 ppm
Concentration per Run 3	0.4587 ppm	0.4875 ppm	0.4995 ppm	0.4916 ppm	0.4946 ppm	5.0875 ppm	0.5134 ppm
Recovery Percentage 1	91.951 %	97.652 %	100.261 %	98.201 %	98.590 %	101.191 %	101.881 %
Concentration RSD	0.3 %	0.3 %	0.5 %	0.3 %	0.5 %	0.8 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5006 ppm	0.4946 ppm	0.4846 ppm	10.0294 ppm	0.4993 ppm	0.4890 ppm	0.4826 ppm
Concentration per Run 1	0.5009 ppm	0.4923 ppm	0.4856 ppm	10.0560 ppm	0.5038 ppm	0.4875 ppm	0.4819 ppm
Concentration per Run 2	0.5035 ppm	0.4930 ppm	0.4842 ppm	10.0001 ppm	0.4975 ppm	0.4906 ppm	0.4818 ppm
Concentration per Run 3	0.4976 ppm	0.4983 ppm	0.4840 ppm	10.0320 ppm	0.4968 ppm	0.4888 ppm	0.4841 ppm
Recovery Percentage 1	100.129 %	98.911 %	96.920 %	100.294 %	99.867 %	97.797 %	96.520 %
Concentration RSD	0.6 %	0.7 %	0.2 %	0.3 %	0.8 %	0.3 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4682 ppm	5.2233 ppm	0.4970 ppm	0.4920 ppm	0.4981 ppm	0.4957 ppm	0.4822 ppm
Concentration per Run 1	0.4709 ppm	5.2236 ppm	0.4988 ppm	0.4915 ppm	0.4990 ppm	0.4975 ppm	0.4847 ppm
Concentration per Run 2	0.4683 ppm	5.2393 ppm	0.4957 ppm	0.4918 ppm	0.4986 ppm	0.4939 ppm	0.4802 ppm
Concentration per Run 3	0.4654 ppm	5.2069 ppm	0.4964 ppm	0.4926 ppm	0.4966 ppm	0.4956 ppm	0.4819 ppm
Recovery Percentage 1	93.638 %	99.491 %	99.393 %	98.396 %	99.612 %	99.134 %	96.448 %
Concentration RSD	0.6 %	0.3 %	0.3 %	0.1 %	0.3 %	0.4 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4860 ppm	102.6425 %	101.8250 %	101.1057 %	100.3248 %	100.6687 %	99.6251 %
Concentration per Run 1	0.4900 ppm	102.7938 %	101.5437 %	101.5676 %	100.2107 %	100.1722 %	100.2720 %
Concentration per Run 2	0.4832 ppm	102.7542 %	102.7380 %	100.5229 %	100.7041 %	101.2016 %	98.9418 %
Concentration per Run 3	0.4847 ppm	102.3794 %	101.1935 %	101.2266 %	100.0594 %	100.6323 %	99.6615 %
Recovery Percentage 1	97.193 %						
Concentration RSD	0.7 %	0.2 %	0.8 %	0.5 %	0.3 %	0.5 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 8:05:06 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	0.0080 ppm	0.0005 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0041 ppm
Concentration per Run 1	0.0005 ppm	0.0079 ppm	0.0010 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	-0.0052 ppm
Concentration per Run 2	0.0003 ppm	0.0085 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0045 ppm
Concentration per Run 3	0.0004 ppm	0.0077 ppm	0.0004 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	-0.0025 ppm
Recovery Percentage 1	6.207 %	8.022 %	10.476 %	1.198 %	-0.464 %	0.776 %	-4.071 %
Concentration RSD	22.5 %	5.7 %	82.0 %	208.2 %	83.3 %	14.4 %	33.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0004 ppm	0.0002 ppm	0.0117 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0004 ppm	0.0009 ppm	0.0144 ppm	-0.0010 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	-0.0004 ppm	0.0096 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0004 ppm	0.0003 ppm	0.0112 ppm	-0.0001 ppm
Recovery Percentage 1	1.629 %	-0.604 %	3.782 %	3.591 %	0.485 %	0.470 %	-5.334 %
Concentration RSD	92.3 %	231.5 %	15.7 %	37.0 %	264.2 %	20.8 %	231.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0006 ppm	0.0001 ppm	0.0027 ppm	0.0060 ppm	-0.0001 ppm	-0.0001 ppm	0.0018 ppm
Concentration per Run 1	-0.0016 ppm	0.0001 ppm	0.0028 ppm	0.0063 ppm	0.0002 ppm	-0.0008 ppm	0.0025 ppm
Concentration per Run 2	0.0009 ppm	0.0001 ppm	0.0024 ppm	0.0072 ppm	0.0000 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 3	-0.0012 ppm	0.0000 ppm	0.0028 ppm	0.0044 ppm	-0.0004 ppm	-0.0002 ppm	0.0028 ppm
Recovery Percentage 1	-0.614 %	0.634 %	5.377 %	0.300 %	-0.295 %	-0.540 %	3.580 %
Concentration RSD	211.9 %	70.1 %	8.0 %	24.1 %	433.8 %	1,497.1 %	82.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0004 ppm	0.0017 ppm	0.0014 ppm	0.0001 ppm	0.0006 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.0022 ppm	0.0011 ppm	0.0001 ppm	0.0007 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	-0.0004 ppm	0.0017 ppm	0.0000 ppm	0.0006 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 3	-0.0005 ppm	0.0034 ppm	0.0014 ppm	0.0001 ppm	0.0004 ppm	-0.0007 ppm	0.0001 ppm
Recovery Percentage 1	-4.152 %	0.341 %	2.840 %	0.563 %	5.664 %	-2.993 %	1.272 %
Concentration RSD	19.9 %	114.4 %	22.7 %	88.9 %	26.8 %	16.3 %	66.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0012 ppm	102.9794 %	102.2660 %	100.9855 %	103.2007 %	102.6584 %	100.4164 %
Concentration per Run 1	-0.0012 ppm	102.1348 %	102.8390 %	101.0639 %	102.2305 %	103.0115 %	100.4147 %
Concentration per Run 2	-0.0011 ppm	103.1119 %	102.2938 %	100.9306 %	103.6148 %	103.0365 %	100.5667 %
Concentration per Run 3	-0.0012 ppm	103.6914 %	101.6652 %	100.9620 %	103.7567 %	101.9271 %	100.2679 %
Recovery Percentage 1	-23.362 %						
Concentration RSD	6.0 %	0.8 %	0.6 %	0.1 %	0.8 %	0.6 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538382-05 WG2081457
 Analysis started at: 6/27/2025 8:11:29 PM
 Rack: 2
 Vial: 34
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0115 ppm	0.0004 ppm	0.0176 ppm	0.0393 ppm	0.0000 ppm	6.6042 ppm
Concentration per Run 1	0.0002 ppm	0.0103 ppm	0.0006 ppm	0.0170 ppm	0.0390 ppm	0.0000 ppm	6.6144 ppm
Concentration per Run 2	-0.0001 ppm	0.0094 ppm	0.0011 ppm	0.0185 ppm	0.0395 ppm	0.0001 ppm	6.5609 ppm
Concentration per Run 3	0.0001 ppm	0.0147 ppm	-0.0006 ppm	0.0175 ppm	0.0394 ppm	0.0000 ppm	6.6373 ppm
Concentration RSD	179.9 %	24.6 %	247.0 %	4.3 %	0.7 %	87.0 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0007 ppm	0.0072 ppm	1.0024 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0007 ppm	0.0069 ppm	0.9976 ppm	-0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0010 ppm	0.0004 ppm	0.0082 ppm	1.0069 ppm	-0.0006 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0010 ppm	0.0066 ppm	1.0028 ppm	-0.0001 ppm
Concentration RSD	72.4 %	747.3 %	22.1 %	35.8 %	11.8 %	0.5 %	62.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.6064 ppm	0.0166 ppm	0.0008 ppm	39.2881 ppm	0.0010 ppm	-0.0004 ppm	0.0015 ppm
Concentration per Run 1	2.6144 ppm	0.0166 ppm	0.0008 ppm	38.7685 ppm	0.0004 ppm	-0.0005 ppm	0.0006 ppm
Concentration per Run 2	2.6024 ppm	0.0165 ppm	0.0011 ppm	39.5227 ppm	0.0018 ppm	0.0003 ppm	0.0023 ppm
Concentration per Run 3	2.6026 ppm	0.0166 ppm	0.0007 ppm	39.5731 ppm	0.0008 ppm	-0.0009 ppm	0.0016 ppm
Concentration RSD	0.3 %	0.5 %	22.3 %	1.1 %	73.0 %	171.5 %	55.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0002 ppm	5.0494 ppm	-0.0006 ppm	0.0328 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0007 ppm	5.0976 ppm	-0.0008 ppm	0.0326 ppm	0.0004 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	0.0007 ppm	5.0256 ppm	0.0003 ppm	0.0331 ppm	0.0003 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	-0.0007 ppm	5.0250 ppm	-0.0013 ppm	0.0327 ppm	0.0003 ppm	0.0007 ppm	0.0001 ppm
Concentration RSD	337.9 %	0.8 %	132.4 %	0.7 %	17.2 %	972.9 %	233.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	103.2410 %	102.5203 %	99.7883 %	100.8454 %	101.1079 %	98.9307 %
Concentration per Run 1	0.0016 ppm	103.1454 %	101.8899 %	99.1553 %	101.2575 %	100.1433 %	98.3002 %
Concentration per Run 2	0.0016 ppm	103.1271 %	102.8332 %	100.2174 %	100.3352 %	101.2825 %	99.6068 %
Concentration per Run 3	0.0014 ppm	103.4505 %	102.8378 %	99.9923 %	100.9433 %	101.8978 %	98.8850 %
Concentration RSD	4.1 %	0.2 %	0.5 %	0.6 %	0.5 %	0.9 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538382-07 WG2081457
 Analysis started at: 6/27/2025 8:14:48 PM
 Rack: 2
 Vial: 35
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0008 ppm	0.0117 ppm	0.0002 ppm	0.0169 ppm	0.0406 ppm	0.0000 ppm	6.8253 ppm
Concentration per Run 1	0.0006 ppm	0.0146 ppm	0.0006 ppm	0.0178 ppm	0.0407 ppm	0.0000 ppm	6.8429 ppm
Concentration per Run 2	0.0008 ppm	0.0144 ppm	-0.0006 ppm	0.0165 ppm	0.0408 ppm	0.0000 ppm	6.8188 ppm
Concentration per Run 3	0.0008 ppm	0.0062 ppm	0.0005 ppm	0.0163 ppm	0.0404 ppm	0.0000 ppm	6.8142 ppm
Concentration RSD	15.7 %	40.7 %	368.2 %	4.9 %	0.6 %	75.4 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0010 ppm	0.0052 ppm	1.0528 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0010 ppm	0.0047 ppm	1.0522 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0008 ppm	0.0010 ppm	0.0066 ppm	1.0515 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0009 ppm	0.0044 ppm	1.0547 ppm	-0.0006 ppm
Concentration RSD	68.1 %	148.8 %	28.1 %	10.1 %	23.7 %	0.2 %	27.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.6658 ppm	0.0201 ppm	0.0005 ppm	40.3026 ppm	0.0003 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 1	2.6567 ppm	0.0202 ppm	0.0004 ppm	40.3066 ppm	0.0010 ppm	-0.0003 ppm	0.0019 ppm
Concentration per Run 2	2.6608 ppm	0.0202 ppm	0.0011 ppm	40.3603 ppm	-0.0009 ppm	-0.0002 ppm	0.0020 ppm
Concentration per Run 3	2.6800 ppm	0.0200 ppm	0.0001 ppm	40.2410 ppm	0.0009 ppm	0.0004 ppm	0.0008 ppm
Concentration RSD	0.5 %	0.6 %	90.7 %	0.1 %	338.2 %	1,167.7 %	44.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0014 ppm	5.1375 ppm	-0.0003 ppm	0.0341 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0012 ppm	5.1369 ppm	0.0004 ppm	0.0341 ppm	0.0004 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 2	-0.0020 ppm	5.1300 ppm	-0.0004 ppm	0.0342 ppm	0.0002 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 3	-0.0010 ppm	5.1455 ppm	-0.0008 ppm	0.0338 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm
Concentration RSD	39.1 %	0.2 %	219.6 %	0.6 %	43.0 %	802.0 %	48.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	101.4709 %	101.2730 %	98.1163 %	99.0911 %	100.3495 %	97.2062 %
Concentration per Run 1	0.0015 ppm	102.2951 %	101.2978 %	98.2790 %	99.7273 %	100.7209 %	97.1906 %
Concentration per Run 2	0.0014 ppm	100.9503 %	101.4494 %	98.0826 %	98.4124 %	100.7183 %	97.3989 %
Concentration per Run 3	0.0013 ppm	101.1673 %	101.0716 %	97.9872 %	99.1337 %	99.6095 %	97.0291 %
Concentration RSD	9.3 %	0.7 %	0.2 %	0.2 %	0.7 %	0.6 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2081457-7 WG2081457
 Analysis started at: 6/27/2025 8:18:03 PM
 Rack: 2
 Vial: 36
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0515 ppm	2.0162 ppm	0.1158 ppm	0.9678 ppm	1.9728 ppm	0.0483 ppm	21.6169 ppm
Concentration per Run 1	0.0513 ppm	2.0194 ppm	0.1154 ppm	0.9651 ppm	1.9736 ppm	0.0482 ppm	21.5613 ppm
Concentration per Run 2	0.0520 ppm	2.0213 ppm	0.1147 ppm	0.9780 ppm	1.9732 ppm	0.0485 ppm	21.6874 ppm
Concentration per Run 3	0.0511 ppm	2.0078 ppm	0.1172 ppm	0.9604 ppm	1.9715 ppm	0.0484 ppm	21.6021 ppm
Concentration RSD	0.9 %	0.4 %	1.1 %	0.9 %	0.1 %	0.3 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0464 ppm	0.4616 ppm	0.1974 ppm	0.2409 ppm	0.9736 ppm	11.4363 ppm	0.0018 ppm
Concentration per Run 1	0.0465 ppm	0.4622 ppm	0.1964 ppm	0.2414 ppm	0.9707 ppm	11.4623 ppm	0.0021 ppm
Concentration per Run 2	0.0466 ppm	0.4631 ppm	0.1995 ppm	0.2425 ppm	0.9764 ppm	11.4739 ppm	0.0018 ppm
Concentration per Run 3	0.0462 ppm	0.4594 ppm	0.1962 ppm	0.2390 ppm	0.9738 ppm	11.3728 ppm	0.0016 ppm
Concentration RSD	0.4 %	0.4 %	0.9 %	0.7 %	0.3 %	0.5 %	12.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	14.9185 ppm	0.4722 ppm	0.9167 ppm	24.3438 ppm	0.4804 ppm	0.5047 ppm	0.3777 ppm
Concentration per Run 1	14.8605 ppm	0.4714 ppm	0.9072 ppm	24.5845 ppm	0.4780 ppm	0.5048 ppm	0.3747 ppm
Concentration per Run 2	15.0159 ppm	0.4737 ppm	0.9230 ppm	24.2395 ppm	0.4861 ppm	0.5042 ppm	0.3800 ppm
Concentration per Run 3	14.8791 ppm	0.4716 ppm	0.9199 ppm	24.2075 ppm	0.4772 ppm	0.5051 ppm	0.3784 ppm
Concentration RSD	0.6 %	0.3 %	0.9 %	0.9 %	1.0 %	0.1 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1163 ppm	10.0546 ppm	0.9138 ppm	1.0308 ppm	0.9793 ppm	0.1165 ppm	0.4818 ppm
Concentration per Run 1	0.1172 ppm	10.0145 ppm	0.9069 ppm	1.0313 ppm	0.9757 ppm	0.1167 ppm	0.4827 ppm
Concentration per Run 2	0.1152 ppm	10.1208 ppm	0.9229 ppm	1.0307 ppm	0.9865 ppm	0.1156 ppm	0.4839 ppm
Concentration per Run 3	0.1164 ppm	10.0286 ppm	0.9115 ppm	1.0305 ppm	0.9758 ppm	0.1173 ppm	0.4788 ppm
Concentration RSD	0.8 %	0.6 %	0.9 %	0.0 %	0.6 %	0.7 %	0.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4815 ppm	101.6798 %	102.5792 %	96.5588 %	99.1224 %	100.8095 %	96.5619 %
Concentration per Run 1	0.4796 ppm	102.3571 %	102.7480 %	96.6472 %	99.4468 %	100.9166 %	96.7799 %
Concentration per Run 2	0.4858 ppm	100.9388 %	101.7328 %	96.5249 %	98.6264 %	100.2668 %	96.4108 %
Concentration per Run 3	0.4791 ppm	101.7435 %	103.2566 %	96.5042 %	99.2942 %	101.2450 %	96.4950 %
Concentration RSD	0.8 %	0.7 %	0.8 %	0.1 %	0.4 %	0.5 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538382-04 WG2081457
 Analysis started at: 6/27/2025 8:21:17 PM
 Rack: 2
 Vial: 37
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.0082 ppm	0.0012 ppm	0.0167 ppm	0.0304 ppm	0.0000 ppm	12.0000 ppm
Concentration per Run 1	0.0002 ppm	0.0076 ppm	0.0014 ppm	0.0176 ppm	0.0308 ppm	0.0000 ppm	11.9680 ppm
Concentration per Run 2	0.0001 ppm	0.0115 ppm	0.0021 ppm	0.0160 ppm	0.0300 ppm	0.0000 ppm	11.9965 ppm
Concentration per Run 3	0.0005 ppm	0.0056 ppm	-0.0001 ppm	0.0165 ppm	0.0302 ppm	0.0000 ppm	12.0355 ppm
Concentration RSD	74.7 %	36.6 %	98.0 %	4.7 %	1.3 %	53.0 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0020 ppm	0.0007 ppm	0.0021 ppm	1.2429 ppm	0.0019 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0019 ppm	0.0007 ppm	0.0016 ppm	1.2748 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0021 ppm	0.0007 ppm	0.0020 ppm	1.2371 ppm	0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0019 ppm	0.0006 ppm	0.0029 ppm	1.2169 ppm	0.0023 ppm
Concentration RSD	449.8 %	20.1 %	7.2 %	8.4 %	30.8 %	2.4 %	13.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	5.8223 ppm	0.0008 ppm	0.0062 ppm	16.8699 ppm	0.0002 ppm	0.0000 ppm	0.0056 ppm
Concentration per Run 1	5.8380 ppm	0.0008 ppm	0.0063 ppm	17.0513 ppm	0.0000 ppm	0.0003 ppm	0.0077 ppm
Concentration per Run 2	5.8217 ppm	0.0008 ppm	0.0061 ppm	16.8026 ppm	0.0003 ppm	0.0005 ppm	0.0041 ppm
Concentration per Run 3	5.8071 ppm	0.0007 ppm	0.0061 ppm	16.7559 ppm	0.0003 ppm	-0.0006 ppm	0.0050 ppm
Concentration RSD	0.3 %	7.9 %	2.2 %	0.9 %	70.3 %	1,232.1 %	33.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0009 ppm	7.7335 ppm	0.0068 ppm	0.0701 ppm	0.0008 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	7.7426 ppm	0.0067 ppm	0.0712 ppm	0.0009 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0024 ppm	7.7660 ppm	0.0062 ppm	0.0695 ppm	0.0008 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 3	0.0002 ppm	7.6921 ppm	0.0074 ppm	0.0696 ppm	0.0007 ppm	0.0003 ppm	0.0001 ppm
Concentration RSD	136.6 %	0.5 %	8.7 %	1.4 %	10.5 %	473.1 %	48.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	103.7492 %	102.6380 %	100.1017 %	101.2755 %	101.4732 %	98.8407 %
Concentration per Run 1	0.0008 ppm	103.4730 %	102.4020 %	99.7959 %	101.0210 %	101.8149 %	98.7583 %
Concentration per Run 2	0.0007 ppm	104.0104 %	102.6975 %	100.5933 %	101.7199 %	101.0032 %	98.8481 %
Concentration per Run 3	0.0007 ppm	103.7643 %	102.8143 %	99.9159 %	101.0855 %	101.6016 %	98.9156 %
Concentration RSD	10.3 %	0.3 %	0.2 %	0.4 %	0.4 %	0.4 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: xL2535879-02d5 WG2082357
 Analysis started at: 6/27/2025 8:24:31 PM
 Rack: 2
 Vial: 38
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0006 ppm	0.1136 ppm	17.7318 ppm	0.0321 ppm	0.0088 ppm	0.0001 ppm	33.7794 ppm
Concentration per Run 1	0.0008 ppm	0.1115 ppm	53.1963 ppm	-0.0015 ppm	0.0087 ppm	0.0001 ppm	33.4633 ppm
Concentration per Run 2	0.0005 ppm	0.1117 ppm	-0.0007 ppm	0.0479 ppm	0.0088 ppm	0.0001 ppm	33.9124 ppm
Concentration per Run 3	0.0004 ppm	0.1175 ppm	-0.0002 ppm	0.0499 ppm	0.0089 ppm	0.0001 ppm	33.9624 ppm
Concentration RSD	36.3 %	3.0 %	173.2 %	90.8 %	1.0 %	9.3 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0002 ppm	0.0017 ppm	0.0004 ppm	∞ [SIC 60]	0.0040 ppm	3.3490 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0015 ppm	0.0005 ppm	∞ ppm	0.0038 ppm	3.3569 ppm	0.0005 ppm
Concentration per Run 2	0.0003 ppm	0.0017 ppm	0.0004 ppm	0.0030 ppm	0.0048 ppm	3.3502 ppm	-0.0005 ppm
Concentration per Run 3	0.0002 ppm	0.0020 ppm	0.0003 ppm	0.0028 ppm	0.0033 ppm	3.3399 ppm	-0.0004 ppm
Concentration RSD	16.2 %	14.2 %	20.8 %		19.7 %	0.3 %	457.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	17.5896 ppm	0.2440 ppm	0.0012 ppm	232.6906 ppm	0.0026 ppm	-2.8368 ppm	∞ ppm
Concentration per Run 1	17.6198 ppm	0.2436 ppm	0.0011 ppm	231.1363 ppm	0.0003 ppm	-8.5116 ppm	∞ ppm
Concentration per Run 2	17.5485 ppm	0.2442 ppm	0.0013 ppm	234.0617 ppm	0.0038 ppm	0.0005 ppm	0.0077 ppm
Concentration per Run 3	17.6004 ppm	0.2441 ppm	0.0013 ppm	232.8739 ppm	0.0038 ppm	0.0008 ppm	0.0048 ppm
Concentration RSD	0.2 %	0.1 %	7.8 %	0.6 %	77.5 %	173.2 %	

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-24.5036 ppm	0.9549 ppm	0.0023 ppm	0.1753 ppm	0.0005 ppm	-82.5905 ppm	∞ [SIC 10]
Concentration per Run 1	-73.5106 ppm	0.9533 ppm	-0.0013 ppm	0.1751 ppm	0.0006 ppm	-247.7700 ppm	∞ ppm
Concentration per Run 2	-0.0001 ppm	0.9558 ppm	0.0041 ppm	0.1752 ppm	0.0006 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 3	-0.0002 ppm	0.9556 ppm	0.0040 ppm	0.1758 ppm	0.0004 ppm	-0.0003 ppm	0.0001 ppm
Concentration RSD	173.2 %	0.1 %	136.7 %	0.2 %	23.3 %	173.2 %	

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0065 ppm	95.9312 %	98.2726 %	58.9098 %	61.7388 %	98.5536 %	93.4677 %
Concentration per Run 1	-0.0021 ppm	95.1603 %	98.1329 %	0.0003 %	0.0000 %	98.3438 %	92.9198 %
Concentration per Run 2	0.0107 ppm	96.4213 %	98.3641 %	88.4156 %	92.3887 %	98.6721 %	94.0963 %
Concentration per Run 3	0.0108 ppm	96.2118 %	98.3207 %	88.3135 %	92.8279 %	98.6450 %	93.3869 %
Concentration RSD	114.9 %	0.7 %	0.1 %	86.6 %	86.6 %	0.2 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
 Analysis started at: 6/27/2025 8:27:45 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5235 ppm	0.4859 ppm	0.4668 ppm	0.4843 ppm	0.4908 ppm	0.4948 ppm	0.4710 ppm
Concentration per Run 1	0.5240 ppm	0.4831 ppm	0.4642 ppm	0.4904 ppm	0.4878 ppm	0.4948 ppm	0.4735 ppm
Concentration per Run 2	0.5239 ppm	0.4871 ppm	0.4671 ppm	0.4816 ppm	0.4931 ppm	0.4942 ppm	0.4690 ppm
Concentration per Run 3	0.5225 ppm	0.4875 ppm	0.4691 ppm	0.4810 ppm	0.4916 ppm	0.4954 ppm	0.4705 ppm
Recovery Percentage 1	104.695 %	97.180 %	93.368 %	96.866 %	98.165 %	98.963 %	94.202 %
Concentration RSD	0.2 %	0.5 %	0.5 %	1.1 %	0.6 %	0.1 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4592 ppm	0.4908 ppm	0.5051 ppm	0.4974 ppm	0.4942 ppm	5.0987 ppm	0.5099 ppm
Concentration per Run 1	0.4616 ppm	0.4932 ppm	0.5068 ppm	0.4971 ppm	0.4925 ppm	5.0526 ppm	0.5060 ppm
Concentration per Run 2	0.4568 ppm	0.4884 ppm	0.5045 ppm	0.4963 ppm	0.4970 ppm	5.1480 ppm	0.5146 ppm
Concentration per Run 3	0.4592 ppm	0.4909 ppm	0.5039 ppm	0.4989 ppm	0.4932 ppm	5.0954 ppm	0.5093 ppm
Recovery Percentage 1	91.837 %	98.169 %	101.012 %	99.490 %	98.849 %	101.973 %	101.989 %
Concentration RSD	0.5 %	0.5 %	0.3 %	0.3 %	0.5 %	0.9 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5024 ppm	0.4925 ppm	0.4860 ppm	10.1578 ppm	0.5015 ppm	0.4994 ppm	0.4867 ppm
Concentration per Run 1	0.5007 ppm	0.4945 ppm	0.4864 ppm	10.1211 ppm	0.5020 ppm	0.4999 ppm	0.4895 ppm
Concentration per Run 2	0.5067 ppm	0.4909 ppm	0.4829 ppm	10.2344 ppm	0.5026 ppm	0.4987 ppm	0.4796 ppm
Concentration per Run 3	0.4999 ppm	0.4920 ppm	0.4885 ppm	10.1178 ppm	0.5000 ppm	0.4996 ppm	0.4911 ppm
Recovery Percentage 1	100.487 %	98.500 %	97.191 %	101.578 %	100.304 %	99.877 %	97.345 %
Concentration RSD	0.7 %	0.4 %	0.6 %	0.7 %	0.3 %	0.1 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4718 ppm	5.2593 ppm	0.4941 ppm	0.4999 ppm	0.5055 ppm	0.5038 ppm	0.4869 ppm
Concentration per Run 1	0.4702 ppm	5.2639 ppm	0.4984 ppm	0.4980 ppm	0.5071 ppm	0.5006 ppm	0.4862 ppm
Concentration per Run 2	0.4720 ppm	5.2291 ppm	0.4900 ppm	0.5016 ppm	0.5047 ppm	0.5068 ppm	0.4870 ppm
Concentration per Run 3	0.4731 ppm	5.2849 ppm	0.4939 ppm	0.5002 ppm	0.5048 ppm	0.5039 ppm	0.4875 ppm
Recovery Percentage 1	94.357 %	100.178 %	98.821 %	99.990 %	101.100 %	100.751 %	97.380 %
Concentration RSD	0.3 %	0.5 %	0.8 %	0.4 %	0.3 %	0.6 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4850 ppm	101.7800 %	100.8649 %	98.8921 %	99.2205 %	99.3340 %	97.3886 %
Concentration per Run 1	0.4881 ppm	101.2897 %	100.3353 %	98.9224 %	98.6135 %	98.7827 %	97.5540 %
Concentration per Run 2	0.4846 ppm	101.6441 %	101.1846 %	99.0761 %	99.4376 %	99.5992 %	97.4655 %
Concentration per Run 3	0.4823 ppm	102.4061 %	101.0748 %	98.6778 %	99.6105 %	99.6199 %	97.1464 %
Recovery Percentage 1	97.005 %						
Concentration RSD	0.6 %	0.6 %	0.5 %	0.2 %	0.5 %	0.5 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 8:30:58 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.0023 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 1	0.0005 ppm	0.0054 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	0.0003 ppm	0.0016 ppm	0.0004 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0024 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0022 ppm
Recovery Percentage 1	3.988 %	2.289 %	3.394 %	-0.318 %	-0.195 %	0.672 %	-1.475 %
Concentration RSD	86.2 %	123.5 %	663.1 %	393.2 %	97.7 %	26.4 %	97.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0002 ppm	0.0007 ppm	0.0162 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0006 ppm	0.0172 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0003 ppm	0.0158 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0011 ppm	0.0155 ppm	-0.0009 ppm
Recovery Percentage 1	0.067 %	0.160 %	4.682 %	1.874 %	1.353 %	0.646 %	-12.484 %
Concentration RSD	1,283.3 %	337.6 %	40.2 %	82.9 %	59.7 %	5.4 %	60.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0002 ppm	0.0001 ppm	0.0025 ppm	0.0084 ppm	0.0002 ppm	-0.0004 ppm	0.0006 ppm
Concentration per Run 1	-0.0005 ppm	0.0001 ppm	0.0029 ppm	0.0070 ppm	-0.0002 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 2	-0.0007 ppm	0.0001 ppm	0.0025 ppm	0.0061 ppm	0.0006 ppm	-0.0003 ppm	0.0007 ppm
Concentration per Run 3	0.0005 ppm	0.0001 ppm	0.0022 ppm	0.0121 ppm	0.0002 ppm	-0.0005 ppm	0.0007 ppm
Recovery Percentage 1	-0.232 %	1.106 %	5.087 %	0.421 %	0.724 %	-3.555 %	1.206 %
Concentration RSD	278.0 %	25.2 %	13.4 %	38.3 %	214.5 %	31.0 %	25.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0004 ppm	0.0017 ppm	0.0004 ppm	0.0000 ppm	0.0005 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0013 ppm	0.0023 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 2	0.0014 ppm	0.0025 ppm	0.0007 ppm	0.0001 ppm	0.0003 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 3	-0.0016 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0001 ppm
Recovery Percentage 1	3.986 %	0.344 %	0.756 %	0.322 %	4.516 %	-2.495 %	0.312 %
Concentration RSD	427.8 %	65.6 %	81.5 %	100.4 %	39.7 %	82.9 %	142.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0012 ppm	102.2579 %	101.8345 %	100.4551 %	102.3518 %	102.0377 %	99.9062 %
Concentration per Run 1	-0.0012 ppm	101.9842 %	102.8392 %	99.8191 %	101.2641 %	102.3559 %	99.4395 %
Concentration per Run 2	-0.0010 ppm	102.3291 %	101.2015 %	101.0632 %	102.9609 %	101.3640 %	100.3356 %
Concentration per Run 3	-0.0013 ppm	102.4604 %	101.4628 %	100.4828 %	102.8302 %	102.3932 %	99.9435 %
Recovery Percentage 1	-23.027 %						
Concentration RSD	12.5 %	0.2 %	0.9 %	0.6 %	0.9 %	0.6 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 8:34:12 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5174 ppm	0.4764 ppm	25.6064 ppm	0.4774 ppm	0.4865 ppm	0.4884 ppm	0.4697 ppm
Concentration per Run 1	0.5200 ppm	0.4741 ppm	75.8943 ppm	0.4810 ppm	0.4844 ppm	0.4874 ppm	0.4701 ppm
Concentration per Run 2	0.5159 ppm	0.4742 ppm	0.4639 ppm	0.4756 ppm	0.4859 ppm	0.4879 ppm	0.4726 ppm
Concentration per Run 3	0.5164 ppm	0.4808 ppm	0.4611 ppm	0.4756 ppm	0.4892 ppm	0.4899 ppm	0.4664 ppm
Recovery Percentage 1	103.487 %	95.271 %	5,121.285 %	95.477 %	97.304 %	97.676 %	93.941 %
Concentration RSD	0.4 %	0.8 %	170.1 %	0.7 %	0.5 %	0.3 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4553 ppm	0.4827 ppm	0.4981 ppm	0.4948 ppm	0.4874 ppm	5.0298 ppm	0.5031 ppm
Concentration per Run 1	0.4561 ppm	0.4820 ppm	0.5033 ppm	0.4948 ppm	0.4878 ppm	5.0011 ppm	0.5000 ppm
Concentration per Run 2	0.4529 ppm	0.4812 ppm	0.4931 ppm	0.4947 ppm	0.4880 ppm	5.0170 ppm	0.5052 ppm
Concentration per Run 3	0.4570 ppm	0.4849 ppm	0.4980 ppm	0.4948 ppm	0.4864 ppm	5.0713 ppm	0.5041 ppm
Recovery Percentage 1	91.068 %	96.540 %	99.623 %	98.956 %	97.479 %	100.595 %	100.615 %
Concentration RSD	0.5 %	0.4 %	1.0 %	0.0 %	0.2 %	0.7 %	0.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.4943 ppm	0.4895 ppm	0.4795 ppm	10.0554 ppm	0.4955 ppm	27.3667 ppm	0.4793 ppm
Concentration per Run 1	0.4936 ppm	0.4898 ppm	0.4789 ppm	10.0370 ppm	0.5030 ppm	81.1189 ppm	0.4798 ppm
Concentration per Run 2	0.4933 ppm	0.4905 ppm	0.4784 ppm	10.0463 ppm	0.4901 ppm	0.4911 ppm	0.4775 ppm
Concentration per Run 3	0.4961 ppm	0.4881 ppm	0.4812 ppm	10.0829 ppm	0.4934 ppm	0.4902 ppm	0.4807 ppm
Recovery Percentage 1	98.868 %	97.892 %	95.901 %	100.554 %	99.098 %	5,473.347 %	95.866 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.2 %	1.3 %	170.1 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	25.8339 [SIC 20]	5.1847 ppm	0.4863 ppm	0.4943 ppm	0.4989 ppm	27.4820 ppm	0.4825 ppm
Concentration per Run 1	76.5658 ppm	5.1917 ppm	0.4897 ppm	0.4915 ppm	0.5003 ppm	81.4504 ppm	0.4826 ppm
Concentration per Run 2	0.4695 ppm	5.1661 ppm	0.4869 ppm	0.4942 ppm	0.4978 ppm	0.4999 ppm	0.4813 ppm
Concentration per Run 3	0.4662 ppm	5.1964 ppm	0.4823 ppm	0.4971 ppm	0.4985 ppm	0.4958 ppm	0.4837 ppm
Recovery Percentage 1	5,166.772 %	98.757 %	97.258 %	98.855 %	99.772 %	5,496.410 %	96.501 %
Concentration RSD	170.1 %	0.3 %	0.8 %	0.6 %	0.3 %	170.1 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4806 ppm	102.6465 %	102.1952 %	67.2371 %	99.6834 %	101.1096 %	98.4620 %
Concentration per Run 1	0.4848 ppm	102.9687 %	101.7407 %	0.6052 %	99.9839 %	100.5882 %	97.7301 %
Concentration per Run 2	0.4800 ppm	102.4453 %	102.4358 %	99.9253 %	99.9722 %	101.4173 %	98.5164 %
Concentration per Run 3	0.4770 ppm	102.5254 %	102.4093 %	101.1809 %	99.0943 %	101.3233 %	99.1396 %
Recovery Percentage 1	96.121 %						
Concentration RSD	0.8 %	0.3 %	0.4 %	85.8 %	0.5 %	0.4 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 8:37:26 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0073 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0030 ppm
Concentration per Run 1	0.0005 ppm	0.0046 ppm	-0.0006 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0039 ppm
Concentration per Run 2	0.0000 ppm	0.0094 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0028 ppm
Concentration per Run 3	0.0000 ppm	0.0078 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0022 ppm
Recovery Percentage 1	2.559 %	7.286 %	-2.772 %	-1.152 %	-0.081 %	0.980 %	-2.968 %
Concentration RSD	170.7 %	33.4 %	423.3 %	186.1 %	349.7 %	20.2 %	28.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0005 ppm	0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0075 ppm	-0.0006 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0075 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	0.0003 ppm	0.0002 ppm	0.0005 ppm	0.0061 ppm	-0.0010 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0090 ppm	-0.0003 ppm
Recovery Percentage 1	1.028 %	-2.593 %	3.107 %	1.362 %	0.757 %	0.302 %	-12.689 %
Concentration RSD	126.6 %	49.6 %	21.5 %	87.3 %	40.3 %	18.8 %	54.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0005 ppm	0.0001 ppm	0.0025 ppm	0.0048 ppm	-0.0002 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 1	-0.0008 ppm	0.0001 ppm	0.0022 ppm	0.0060 ppm	0.0003 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 2	0.0008 ppm	0.0001 ppm	0.0029 ppm	0.0054 ppm	-0.0007 ppm	-0.0002 ppm	0.0026 ppm
Concentration per Run 3	-0.0016 ppm	0.0001 ppm	0.0023 ppm	0.0029 ppm	-0.0003 ppm	0.0006 ppm	-0.0007 ppm
Recovery Percentage 1	-0.526 %	0.644 %	4.996 %	0.238 %	-0.870 %	-0.368 %	1.357 %
Concentration RSD	238.0 %	16.4 %	13.9 %	33.8 %	234.0 %	1,549.2 %	255.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0006 ppm	0.0021 ppm	0.0005 ppm	0.0000 ppm	0.0006 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	-0.0015 ppm	0.0021 ppm	0.0004 ppm	0.0000 ppm	0.0005 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	-0.0004 ppm	0.0040 ppm	0.0004 ppm	0.0000 ppm	0.0008 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0000 ppm	0.0004 ppm	-0.0012 ppm	0.0000 ppm
Recovery Percentage 1	-5.994 %	0.427 %	0.921 %	0.281 %	5.805 %	-3.922 %	1.142 %
Concentration RSD	136.6 %	83.8 %	25.0 %	54.4 %	35.8 %	52.3 %	126.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0010 ppm	102.0317 %	101.6099 %	100.5183 %	102.1094 %	102.2282 %	100.2674 %
Concentration per Run 1	-0.0010 ppm	101.3456 %	101.9389 %	101.0494 %	101.4460 %	102.2671 %	100.2597 %
Concentration per Run 2	-0.0011 ppm	102.4578 %	102.0450 %	100.0304 %	102.9415 %	102.5851 %	99.9800 %
Concentration per Run 3	-0.0010 ppm	102.2918 %	100.8458 %	100.4752 %	101.9406 %	101.8323 %	100.5625 %
Recovery Percentage 1	-20.584 %						
Concentration RSD	6.2 %	0.6 %	0.7 %	0.5 %	0.7 %	0.4 %	0.3 %

QC True Values: Trace 4,5,6,7

	Element	True Value (mg/L)		Element	True Value (mg/L)
ICV/CCV	Al	0.50	CRI	Al	0.40
	K	5.00		Sb	0.10
	Na	10.00		As	0.02
	Si	5.25		Ba	0.04
ICSA				Be	0.01
	Al	250		Bi	0.02
	Ca	250		B	0.10
	Fe	100		Cd	0.01
ICSB	Mg	250		Ca	0.40
				Cr	0.02
	Al	9.00		Co	0.10
	Sb	1.00		Cu	0.05
	As	1.00		Fe	0.20
	Ba	0.30		Pb	0.05
	Be	0.10		Mg	0.40
	Bi	1.00		Mn	0.03
	B	0.50		Mo	0.10
	Cd	0.30		Ni	0.08
	Ca	45.00		K	5.00
	Cr	0.30		Se	0.02
	Co	0.30		Si	1.00
	Cu	0.30		Ag	0.02
	Fe	37.50		Na	5.00
	Pb	1.00		Sr	0.02
	Mg	22.50		Tl	0.02
	Mn	0.20		Sn	0.02
	Mo	0.30		Ti	0.02
	Ni	0.30		V	0.10
	K	20.00		Zn	0.04
	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			

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

▪ 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
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	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		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




ISO/IEC GUIDE 34:2009

ISO/IEC 17025:2005



Page 3 of 3 Lot: D102-540



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

Page 1 of 3 Lot: D105-540

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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
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	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		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

Quality Officer

Matthew Seebeck



ISO/IEC 17025:2005
ISO/IEC 17025:2005

REFERENCE MATERIAL PROVIDER
CERTIFICATE NO. 153923
CHEMICAL TESTING LABORATORY
CERTIFICATE NO. 159102

Page 3 of 3 Lot: D105-540

▪ 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

Certified Reference Material

▪ Certificate of Analysis ▪

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

▪ Certificate of Analysis ▪

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		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	-	-

▪ 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:

$$U_{\text{expanded}} = k * \text{SQRT}((U_{\text{char}})^2 + (U_{\text{homogen}})^2 + (U_{\text{LTS}})^2 + (U_{\text{STS}})^2 + (U_{\text{RSS}})^2)$$

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 NELAP proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAP 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 its 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

Brian Miller

Matthew Seebeck





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

Page 1 of 4 Lot: D113-540

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

Certified Reference Material

▪ 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

Calculation of 6010B Metals

Aqueous Samples

The instrument will calculate the concentration ($\mu\text{g/L}$). 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.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})$$

Where:

C_s = Concentration of sample ($\mu\text{g/L}$)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})}{A}$$

Where:

C_s = Concentration of sample ($\mu\text{g/L}$)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\%_{\text{solids}}}$$

Where:

$\%_{\text{solids}}$ = Percent Solids, as a decimal value

Sequence Trace 8

6/25/2025 1:20:06 PM



LabBook: WG2082583_06242025T8.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank EFM Trace8	0	1	6/24/2025 7:15:01 AM
2	ICAL	0	2	6/24/2025 7:19:36 AM
3	ICV	0	3	6/24/2025 7:24:18 AM
4	ICB	0	4	6/24/2025 7:28:46 AM
5	ICV	0	10	6/24/2025 7:34:24 AM
6	ICB	0	4	6/24/2025 7:37:59 AM
7	LLOQ	0	5	6/24/2025 7:48:52 AM
8	ICSA	0	6	6/24/2025 7:52:23 AM
9	SIC Multi	0	7	6/24/2025 7:57:49 AM
10	LDR Check	0	8	6/24/2025 8:03:18 AM
11	LLOQ .005	1	1	6/24/2025 8:28:42 AM
12	LLOQ .05	1	2	6/24/2025 8:32:15 AM
13	LDR As 5	1	3	6/24/2025 8:35:37 AM
14	IEC V 10	1	4	6/24/2025 8:39:00 AM
15	IEC AI 500	1	5	6/24/2025 8:42:23 AM
16	IEC Cr 20	1	6	6/24/2025 9:09:37 AM
17	CCV	0	3	6/24/2025 9:21:17 AM
18	CCB	0	4	6/24/2025 9:24:52 AM
19	WG2082423-1 WG2082423	1	7	6/24/2025 9:35:29 AM
20	WG2082423-2 WG2082423	1	8	6/24/2025 9:39:04 AM
21	blank spot	1	14	6/24/2025 9:42:29 AM
22	L2539226-01 WG2082423	1	9	6/24/2025 9:45:51 AM
23	WG2082423-3 WG2082423	1	10	6/24/2025 9:49:15 AM
24	WG2082423-4 WG2082423	1	11	6/24/2025 9:52:40 AM
25	WG2082423-5 WG2082423	1	12	6/24/2025 9:56:05 AM
26	WG2082423-6d5 WG2082423	1	13	6/24/2025 9:59:31 AM
27	CCV	0	3	6/24/2025 10:02:53 AM
28	CCB	0	4	6/24/2025 10:06:16 AM
29	SIC Zn 20 no IECs	1	15	6/24/2025 10:15:51 AM
30	eL2537380-01d2 WG2082501	1	23	6/24/2025 10:50:49 AM
31	L2537486-01d2 WG2082501	1	24	6/24/2025 10:54:25 AM
32	L2537486-02d2 WG2082501	1	25	6/24/2025 10:57:49 AM
33	L2538764-01d2 WG2082501	1	26	6/24/2025 11:01:11 AM
34	L2538818-01d2 WG2082501	1	27	6/24/2025 11:04:33 AM
35	L2538818-02d2 WG2082501	1	28	6/24/2025 11:07:54 AM
36	CCV	0	3	6/24/2025 11:11:17 AM
37	CCB	0	4	6/24/2025 11:14:40 AM
38	WG2082501-1 WG2082501	1	16	6/24/2025 11:36:11 AM
39	WG2082501-2d2 WG2082501	1	17	6/24/2025 11:55:56 AM
40	L2535812-02d2 WG2082501	1	18	6/24/2025 12:33:47 PM
41	WG2082501-3d2 WG2082501	1	19	6/24/2025 12:37:23 PM
42	WG2082501-4d2 WG2082501	1	20	6/24/2025 12:40:46 PM
43	WG2082501-5d2 WG2082501	1	21	6/24/2025 12:44:09 PM
44	WG2082501-6d10 WG2082501	1	22	6/24/2025 12:47:33 PM
45	CCV	0	3	6/24/2025 12:50:58 PM
46	CCB	0	4	6/24/2025 12:54:21 PM
47	LDR Fe 500	1	30	6/24/2025 2:25:55 PM
48	eL2537380-01d5 WG2082501	1	29	6/24/2025 2:29:31 PM
49	L2537380-01d10 WG2082501	1	31	6/24/2025 2:38:48 PM
50	CCV	0	3	6/24/2025 2:44:24 PM
51	CCB	0	4	6/24/2025 2:47:51 PM
52	CCV	0	3	6/24/2025 2:54:24 PM
53	CCB	0	4	6/24/2025 2:58:00 PM
54	WG2082496-1 WG2082496	1	32	6/24/2025 3:23:06 PM
55	xWG2082496-1 WG2082496	1	51	6/24/2025 3:32:26 PM
56	WG2082496-2d2 WG2082496	1	33	6/24/2025 3:36:02 PM
57	WG2082496-3d2 WG2082496	1	34	6/24/2025 3:39:26 PM
58	L2535825-01d2 WG2082496	1	35	6/24/2025 3:52:42 PM
59	L2537372-01d2 WG2082496	1	36	6/24/2025 3:56:20 PM
60	L2537372-02d2 WG2082496	1	37	6/24/2025 3:59:45 PM
61	L2537387-01d2 WG2082496	1	38	6/24/2025 4:03:07 PM
62	L2537387-02d2 WG2082496	1	39	6/24/2025 4:14:17 PM
63	L2537389-01d2 WG2082496	1	40	6/24/2025 4:17:52 PM
64	CCV	0	3	6/24/2025 4:21:15 PM
65	CCB	0	4	6/24/2025 4:24:39 PM
66	L2537389-02d2 WG2082496	1	41	6/24/2025 4:28:51 PM
67	L2537389-03d2 WG2082496	1	42	6/24/2025 4:32:14 PM
68	L2537450-01d2 WG2082496	1	43	6/24/2025 4:35:38 PM

Sequence Trace 8

6/25/2025 1:20:06 PM



Index	Label	Rack	Vial	Started at
69	L2537450-02d2 WG2082496	1	44	6/24/2025 4:39:01 PM
70	L2537450-03d2 WG2082496	1	45	6/24/2025 4:42:25 PM
71	L2537450-04d2 WG2082496	1	46	6/24/2025 4:45:49 PM
72	L2537450-05d2 WG2082496	1	47	6/24/2025 4:49:14 PM
73	L2537450-06d2 WG2082496	1	48	6/24/2025 4:52:38 PM
74	L2537450-07d2 WG2082496	1	49	6/24/2025 4:56:04 PM
75	L2537450-08d2 WG2082496	1	50	6/24/2025 4:59:27 PM
76	CCV	0	3	6/24/2025 5:02:50 PM
77	CCB	0	4	6/24/2025 5:06:15 PM
78	WG2080064-1 WG2080064	1	52	6/24/2025 5:28:39 PM
79	WG2080064-2 WG2080064	1	53	6/24/2025 5:32:16 PM
80	L2534635-24 WG2080064	1	54	6/24/2025 5:35:39 PM
81	WG2080064-3 WG2080064	1	55	6/24/2025 5:39:03 PM
82	WG2080064-4 WG2080064	1	56	6/24/2025 5:42:27 PM
83	WG2080064-5 WG2080064	1	57	6/24/2025 5:45:51 PM
84	WG2080064-6 WG2080064	1	58	6/24/2025 5:49:16 PM
85	L2534635-25 WG2080064	1	59	6/24/2025 5:52:42 PM
86	L2535209-01 WG2080064	1	60	6/24/2025 5:56:07 PM
87	L2535209-02 WG2080064	2	1	6/24/2025 5:59:33 PM
88	CCV	0	3	6/24/2025 6:02:56 PM
89	CCB	0	4	6/24/2025 6:06:21 PM
90	CCV	0	3	6/24/2025 6:24:56 PM
91	CCB	0	4	6/24/2025 6:28:15 PM
92	L2534635-24 WG2080064	2	4	
93	L2535209-03 WG2080064	2	2	
94	L2535209-04 WG2080064	2	3	
95	CCV	0	3	
96	CCB	0	4	
97	<Identifier>	1	42	
98	<Identifier>	1	43	
99	<Identifier>	1	44	
100	<Identifier>	1	45	
101	<Identifier>	1	46	
102	CCV	0	3	
103	CCB	0	4	

Sequence Trace 6

6/28/2025 10:43:12 AM



LabBook: WG2083640_06262025T6.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank DMC Trace6	0	1	6/26/2025 6:02:27 AM
2	ICAL	0	2	6/26/2025 6:09:09 AM
3	ICV	0	3	6/26/2025 6:32:07 AM
4	ICB	0	4	6/26/2025 6:38:26 AM
5	ICV	0	10	6/26/2025 6:54:21 AM
6	ICB	0	4	6/26/2025 7:00:43 AM
7	LLOQ RL Check	0	5	6/26/2025 7:10:52 AM
8	ICSA	0	6	6/26/2025 7:17:31 AM
9	SIC Cr Mn V Ti	0	7	6/26/2025 7:25:35 AM
10	LDR Check	0	8	6/26/2025 7:33:10 AM
11	LDR 5PPM AS PASS	1	1	6/26/2025 7:45:21 AM
12	LDR 20PPM ZN PASS	1	2	6/26/2025 7:51:58 AM
13	LDR 500PPM NA PASS	1	3	6/26/2025 7:58:36 AM
14	LDR 500PPM MG PASS	1	4	6/26/2025 8:06:26 AM
15	CCV	0	3	6/26/2025 8:15:40 AM
16	CCB	0	4	6/26/2025 8:22:00 AM
17	WG2082870-1 WG2082870	1	5	6/26/2025 8:34:59 AM
18	WG2082870-2 WG2082870	1	6	6/26/2025 8:41:40 AM
19	L2538795-07 WG2082870	1	18	6/26/2025 8:48:06 AM
20	L2538796-07 WG2082870	1	19	6/26/2025 8:54:45 AM
21	L2538797-07 WG2082870	1	20	6/26/2025 9:01:19 AM
22	L2538013-01 WG2082870	1	7	6/26/2025 9:07:53 AM
23	WG2082870-7 WG2082870	1	8	6/26/2025 9:14:28 AM
24	WG2082870-8 WG2082870	1	9	6/26/2025 9:20:54 AM
25	WG2082870-9 WG2082870	1	10	6/26/2025 9:27:19 AM
26	WG2082870-10D5 WG2082870	1	11	6/26/2025 9:33:54 AM
27	CCV	0	3	6/26/2025 9:40:30 AM
28	CCB	0	4	6/26/2025 9:46:50 AM
29	L2538013-02 WG2082870	1	12	6/26/2025 10:10:55 AM
30	L2538013-03 WG2082870	1	13	6/26/2025 10:17:31 AM
31	L2538013-04 WG2082870	1	14	6/26/2025 10:24:04 AM
32	L2538013-05 WG2082870	1	15	6/26/2025 10:30:38 AM
33	L2538013-06 WG2082870	1	16	6/26/2025 10:37:11 AM
34	L2538013-07 WG2082870	1	17	6/26/2025 10:43:44 AM
35	CCV	0	3	6/26/2025 10:50:18 AM
36	CCB	0	4	6/26/2025 10:56:37 AM
37	WG2083757-1 WG2083757	1	21	6/26/2025 11:53:52 AM
38	WG2083757-2 WG2083757	1	22	6/26/2025 12:00:40 PM
39	L2538381-01 WG2083757	1	23	6/26/2025 12:07:07 PM
40	WG2083757-3 WG2083757	1	24	6/26/2025 12:13:51 PM
41	WG2083757-4 WG2083757	1	25	6/26/2025 12:20:27 PM
42	L2538381-02 WG2083757	1	26	6/26/2025 12:27:10 PM
43	L2538381-03 WG2083757	1	27	6/26/2025 12:33:52 PM
44	L2538381-04 WG2083757	1	28	6/26/2025 12:40:36 PM
45	L2538381-05 WG2083757	1	29	6/26/2025 12:47:19 PM
46	L2538381-06 WG2083757	1	30	6/26/2025 12:54:01 PM
47	CCV	0	3	6/26/2025 1:00:44 PM
48	CCB	0	4	6/26/2025 1:07:04 PM
49	L2538381-07 WG2083757	1	31	6/26/2025 1:26:36 PM
50	L2538381-08 WG2083757	1	32	6/26/2025 1:33:21 PM
51	L2538381-09 WG2083757	1	33	6/26/2025 1:40:06 PM
52	L2538846-02 WG2083757	1	34	6/26/2025 1:46:51 PM
53	CCV	0	3	6/26/2025 1:53:36 PM
54	CCB	0	4	6/26/2025 1:59:56 PM
55	WG2083265-1 WG2083265	1	35	6/26/2025 3:20:45 PM
56	WG2083265-2 WG2083265	1	36	6/26/2025 3:27:33 PM
57	L2537679-01 WG2083265	1	37	6/26/2025 3:34:00 PM
58	WG2083265-3 WG2083265	1	38	6/26/2025 3:40:41 PM
59	WG2083265-4 WG2083265	1	39	6/26/2025 3:47:15 PM
60	L2537679-04 WG2083265	1	40	6/26/2025 3:53:55 PM
61	L2537679-07 WG2083265	1	41	6/26/2025 4:00:40 PM
62	L2537679-10 WG2083265	1	42	6/26/2025 4:07:28 PM
63	CCV	0	3	6/26/2025 4:14:13 PM
64	CCB	0	4	6/26/2025 4:20:32 PM
65	WG2081457-1 WG2081457	1	43	6/26/2025 4:49:37 PM
66	WG2081457-2 WG2081457	1	44	6/26/2025 4:56:16 PM
67	L2537655-03 WG2081457	1	52	6/26/2025 5:02:43 PM
68	L2537655-01 WG2081457	1	50	6/26/2025 5:09:23 PM
69	L2537655-02 WG2081457	1	51	6/26/2025 5:15:57 PM
70	L2535446-01 WG2081457	1	45	6/26/2025 5:22:34 PM
71	WG2081457-3 WG2081457	1	46	6/26/2025 5:29:59 PM
72	WG2081457-4 WG2081457	1	47	6/26/2025 5:37:11 PM

Sequence Trace 6

6/28/2025 10:43:12 AM



Index:	Label:	Rack	Vial	Start time:
73	WG2081457-5 WG2081457	1	48	6/26/2025 5:43:42 PM
74	WG2081457-6d5 WG2081457	1	49	6/26/2025 5:51:10 PM
75	CCV	0	3	6/26/2025 5:57:52 PM
76	CCB	0	4	6/26/2025 6:04:11 PM
77	WG2083591-2d2 WG2083591	2	3	6/26/2025 6:13:11 PM
78	WG2083591-3d2 WG2083591	2	4	6/26/2025 6:19:25 PM
79	CCV	0	3	6/26/2025 6:25:40 PM
80	CCB	0	4	6/26/2025 6:31:59 PM
81	WG2082423-1 WG2082423	1	55	6/26/2025 6:46:05 PM
82	WG2082423-2 WG2082423	1	56	6/26/2025 6:52:45 PM
83	L2537655-01 WG2082423	1	57	6/26/2025 6:59:11 PM
84	L2537655-02 WG2082423	1	58	6/26/2025 7:05:47 PM
85	L2537655-03 WG2082423	1	59	6/26/2025 7:12:20 PM
86	L2537655-04 WG2082423	1	60	6/26/2025 7:19:14 PM
87	L2537655-05 WG2082423	2	1	6/26/2025 7:25:52 PM
88	L2537735-01 WG2082423	2	2	6/26/2025 7:32:26 PM
89	L2537655-04 WG2081457	1	53	6/26/2025 7:38:59 PM
90	L2537655-05 WG2081457	1	54	6/26/2025 7:46:23 PM
91	CCV	0	3	6/26/2025 7:57:33 PM
92	CCB	0	4	6/26/2025 8:03:53 PM
93	xWG2079820-1 WG2079820	2	5	6/26/2025 8:34:51 PM
94	xWG2079820-2 WG2079820	2	6	6/26/2025 8:41:31 PM
95	xL2535069-04 WG2079820	2	7	6/26/2025 8:47:57 PM
96	xWG2079820-3 WG2079820	2	8	6/26/2025 8:54:38 PM
97	xWG2079820-4 WG2079820	2	9	6/26/2025 9:01:37 PM
98	xline disconnected	2	10	6/26/2025 9:08:36 PM
99	xline disconnected	2	11	6/26/2025 9:15:35 PM
100	xline disconnected	0	3	6/26/2025 9:22:29 PM
101	xline disconnected	0	4	6/26/2025 9:30:14 PM
102	CCV	0	3	6/27/2025 5:31:38 AM
103	CCB	0	4	6/27/2025 5:37:57 AM

Sequence Trace 9

6/28/2025 7:55:18 AM



LabBook: WG2084232_06272025T9.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank EFM Trace9	0	1	6/27/2025 9:34:20 AM
2	ICAL	0	2	6/27/2025 9:37:41 AM
3	ICV	0	3	6/27/2025 9:41:21 AM
4	ICB	0	4	6/27/2025 9:44:34 AM
5	ICV	0	10	6/27/2025 9:47:47 AM
6	ICB	0	4	6/27/2025 9:51:03 AM
7	LLOQ	0	5	6/27/2025 9:54:16 AM
8	ICSA	0	6	6/27/2025 9:57:29 AM
9	SIC Multi	0	7	6/27/2025 10:02:44 AM
10	LDR Check	0	8	6/27/2025 10:06:59 AM
11	CCV	0	3	6/27/2025 10:20:59 AM
12	CCB	0	4	6/27/2025 10:24:22 AM
13	LDR As 5	1	4	6/27/2025 10:28:03 AM
14	L2536019-01d2 WG2082496	1	1	6/27/2025 10:31:14 AM
15	L2536136-01d2 WG2082496	1	2	6/27/2025 10:34:25 AM
16	L2536136-02d2 WG2082496	1	3	6/27/2025 10:37:35 AM
17	CCV	0	3	6/27/2025 10:40:46 AM
18	CCB	0	4	6/27/2025 10:43:59 AM
19	WG2084202-1 WG2084202	1	5	6/27/2025 11:01:45 AM
20	WG2084202-2 WG2084202	1	6	6/27/2025 11:05:07 AM
21	L2539013-01 WG2084202	1	7	6/27/2025 11:08:19 AM
22	WG2084202-3 WG2084202	1	8	6/27/2025 11:11:31 AM
23	WG2084202-4 WG2084202	1	9	6/27/2025 11:14:43 AM
24	L2539119-01 WG2084202	1	10	6/27/2025 11:17:55 AM
25	L2539120-01 WG2084202	1	11	6/27/2025 11:21:08 AM
26	L2539120-02 WG2084202	1	12	6/27/2025 11:24:21 AM
27	CCV	0	3	6/27/2025 11:27:34 AM
28	CCB	0	4	6/27/2025 11:30:47 AM
29	WG2084191-1 WG2084191	1	13	6/27/2025 11:58:36 AM
30	WG2084191-2d2 WG2084191	1	14	6/27/2025 12:01:58 PM
31	L2539031-01d2 WG2084191	1	20	6/27/2025 12:05:09 PM
32	L2539739-01d2 WG2084191	1	21	6/27/2025 12:08:21 PM
33	L2539739-02d2 WG2084191	1	22	6/27/2025 12:11:34 PM
34	L2539742-01d2 WG2084191	1	15	6/27/2025 12:14:47 PM
35	WG2084191-3d2 WG2084191	1	16	6/27/2025 12:17:58 PM
36	WG2084191-4d2 WG2084191	1	17	6/27/2025 12:21:10 PM
37	WG2084191-5d2 WG2084191	1	18	6/27/2025 12:24:21 PM
38	xWG2084191-6d10 WG2084191	1	19	6/27/2025 12:27:34 PM
39	CCV	0	3	6/27/2025 12:31:47 PM
40	CCB	0	4	6/27/2025 12:35:00 PM
41	L2539739-03d2 WG2084191	1	23	6/27/2025 12:42:51 PM
42	xL2539739-04d2 WG2084191	1	24	6/27/2025 12:46:11 PM
43	L2539742-02d2 WG2084191	1	25	6/27/2025 12:49:25 PM
44	L2539742-03d2 WG2084191	1	26	6/27/2025 12:52:36 PM
45	L2539742-04d2 WG2084191	1	27	6/27/2025 12:55:47 PM
46	L2539742-05d2 WG2084191	1	28	6/27/2025 12:58:58 PM
47	L2539742-06d2 WG2084191	1	29	6/27/2025 1:02:09 PM
48	L2539826-01d2 WG2084191	1	30	6/27/2025 1:05:21 PM
49	L2539998-01d2 WG2084191	1	31	6/27/2025 1:08:33 PM
50	WG2084191-6d10 WG2084191	1	39	6/27/2025 1:11:46 PM
51	CCV	0	3	6/27/2025 1:14:57 PM
52	CCB	0	4	6/27/2025 1:18:10 PM
53	L2539998-03d2 WG2084191	1	33	6/27/2025 1:24:10 PM
54	L2540101-01d2 WG2084191	1	34	6/27/2025 1:27:26 PM
55	L2540101-02d2 WG2084191	1	35	6/27/2025 1:30:40 PM
56	L2540101-03d2 WG2084191	1	36	6/27/2025 1:33:53 PM
57	L2540101-04d2 WG2084191	1	37	6/27/2025 1:37:07 PM
58	L2540101-05d2 WG2084191	1	38	6/27/2025 1:40:18 PM
59	L2539998-02d2 WG2084191	1	32	6/27/2025 1:43:30 PM
60	L2539739-04d2 WG2084191	1	40	6/27/2025 1:48:44 PM
61	CCV	0	3	6/27/2025 1:54:38 PM
62	CCB	0	4	6/27/2025 1:57:54 PM
63	L2537294-01d2 WG2084309	1	41	6/27/2025 2:25:47 PM
64	L2537325-01d2 WG2084309	1	42	6/27/2025 2:29:12 PM
65	L2537325-05d2 WG2084309	1	43	6/27/2025 2:32:24 PM
66	L2537339-01d2 WG2084309	1	44	6/27/2025 2:35:36 PM
67	L2537339-02d2 WG2084309	1	45	6/27/2025 2:38:48 PM
68	L2537339-03d2 WG2084309	1	46	6/27/2025 2:42:02 PM

Sequence Trace 9

6/28/2025 7:55:18 AM



Index	Label	Rack	Vial	Started at
69	L2538360-01d2 WG2084309	1	47	6/27/2025 2:45:15 PM
70	L2538360-02d2 WG2084309	1	48	6/27/2025 2:48:28 PM
71	L2538367-02d2 WG2084309	1	49	6/27/2025 2:51:42 PM
72	L2538367-03d2 WG2084309	1	50	6/27/2025 2:54:54 PM
73	CCV	0	3	6/27/2025 3:00:08 PM
74	CCB	0	4	6/27/2025 3:03:21 PM
75	L2539318-01d2 WG2084309	1	51	6/27/2025 3:12:20 PM
76	L2539318-03d2 WG2084309	1	52	6/27/2025 3:15:38 PM
77	L2539318-05d2 WG2084309	1	53	6/27/2025 3:18:50 PM
78	L2539318-07d2 WG2084309	1	54	6/27/2025 3:22:02 PM
79	L2539318-09d2 WG2084309	1	55	6/27/2025 3:25:14 PM
80	zL2539318-11d2 WG2084309	1	56	6/27/2025 3:28:26 PM
81	L2539318-13d2 WG2084309	1	57	6/27/2025 3:31:39 PM
82	L2539318-15d2 WG2084309	1	58	6/27/2025 3:34:52 PM
83	L2539318-17d2 WG2084309	1	59	6/27/2025 3:38:06 PM
84	CCV	0	3	6/27/2025 3:43:20 PM
85	CCB	0	4	6/27/2025 3:46:34 PM
86	LDR 500 FE	1	60	6/27/2025 3:57:26 PM
87	L2539318-11d2 WG2084309	2	1	6/27/2025 4:14:19 PM
88	xL2539318-11d10 WG2084309	2	2	6/27/2025 4:17:37 PM
89	WG2084297-2d2 WG2084297	2	3	6/27/2025 4:28:18 PM
90	WG2084297-3d2 WG2084297	2	4	6/27/2025 4:31:37 PM
91	OB 013-01 d10	2	5	6/27/2025 4:43:42 PM
92	CCV	0	3	6/27/2025 4:47:01 PM
93	CCB	0	4	6/27/2025 4:50:14 PM
94	L2536262-01 WG2079154	2	6	6/27/2025 5:11:00 PM
95	L2536262-02 WG2079154	2	7	6/27/2025 5:14:26 PM
96	L2536262-03 WG2079154	2	8	6/27/2025 5:17:39 PM
97	L2536262-04 WG2079154	2	9	6/27/2025 5:20:52 PM
98	L2536262-05 WG2079154	2	10	6/27/2025 5:25:32 PM
99	L2536262-06 WG2079154	2	11	6/27/2025 5:28:52 PM
100	L2536262-07 WG2079154	2	12	6/27/2025 5:32:06 PM
101	L2536262-08 WG2079154	2	13	6/27/2025 5:35:19 PM
102	L2536262-09 WG2079154	2	14	6/27/2025 5:38:33 PM
103	I2535055-02 WG2081034	2	18	6/27/2025 5:41:46 PM
104	CCV	0	3	6/27/2025 5:44:59 PM
105	CCB	0	4	6/27/2025 5:48:12 PM
106	L2536262-10 WG2079154	2	15	6/27/2025 6:20:51 PM
107	L2536262-11 WG2079154	2	16	6/27/2025 6:24:18 PM
108	L2536262-12 WG2079154	2	17	6/27/2025 6:27:31 PM
109	L2535879-01 WG2082357	2	19	6/27/2025 6:40:48 PM
110	eL2535879-02 WG2082357	2	20	6/27/2025 6:44:08 PM
111	L2535879-03 WG2082357	2	21	6/27/2025 6:47:21 PM
112	L2535879-04 WG2082357	2	22	6/27/2025 6:50:34 PM
113	xL2536075-01 WG2082357	2	23	6/27/2025 6:53:48 PM
114	L2536075-02 WG2082357	2	24	6/27/2025 6:57:01 PM
115	L2536075-01 WG2082357	2	23	6/27/2025 7:00:15 PM
116	CCV	0	3	6/27/2025 7:09:13 PM
117	CCB	0	4	6/27/2025 7:12:33 PM
118	L2538382-06 WG2081457	2	25	6/27/2025 7:25:26 PM
119	zWG2081457-7 WG2081457	2	26	6/27/2025 7:28:53 PM
120	WG2081457-8 WG2081457	2	27	6/27/2025 7:32:06 PM
121	WG2081457-9 WG2081457	2	28	6/27/2025 7:35:19 PM
122	WG2081457-10d5 WG2081457	2	29	6/27/2025 7:38:33 PM
123	L2538382-01 WG2081457	2	30	6/27/2025 7:41:47 PM
124	L2538382-02 WG2081457	2	31	6/27/2025 7:45:00 PM
125	L2538382-03 WG2081457	2	32	6/27/2025 7:48:13 PM
126	xL2538382-04 WG2081457	2	33	6/27/2025 7:51:27 PM
127	xWG2081457-7 WG2081457	2	26	6/27/2025 7:54:41 PM
128	CCV	0	3	6/27/2025 8:01:46 PM
129	CCB	0	4	6/27/2025 8:05:06 PM
130	L2538382-05 WG2081457	2	34	6/27/2025 8:11:29 PM
131	L2538382-07 WG2081457	2	35	6/27/2025 8:14:48 PM
132	WG2081457-7 WG2081457	2	36	6/27/2025 8:18:03 PM
133	L2538382-04 WG2081457	2	37	6/27/2025 8:21:17 PM
134	xL2535879-02d5 WG2082357	2	38	6/27/2025 8:24:31 PM
135	CCV	0	3	6/27/2025 8:27:45 PM
136	CCB	0	4	6/27/2025 8:30:58 PM
137	CCV	0	3	6/27/2025 8:34:12 PM
138	CCB	0	4	6/27/2025 8:37:26 PM



METALS ELN REPORT

Workgroup: WG2081457

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	tHNO3252411 82120MGM	1:1 HCl	tHCl2522032 127NDD	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	Temperatur e (C)	Stop Date/Time	Final Vol ml	Comments
L2535446-01 SAMP	06/20/25 11:06	Ashley Croto	06-07-25 09:53	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2537307-01 SAMP	06/20/25 11:06	Ashley Croto	06-14-25 07:55	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2537655-01 WATER	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2537655-02 WATER	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2537655-03 WATER	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2537655-04 WATER	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2537655-05 WATER	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538376-01 SAMP	06/20/25 11:06	Ashley Croto	06-19-25 04:32	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538376-02 SAMP	06/20/25 11:06	Ashley Croto	06-19-25 04:32	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538376-03 SAMP	06/20/25 11:06	Ashley Croto	06-19-25 04:32	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	



METALS ELN REPORT

Workgroup: WG2081457

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperatur e (C)	Stop Date/Time	Final Vol ml	Comments
L2538376-04 SAMP	06/20/25 11:06	Ashley Croto	06-19-25 04:32	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538376-05 SAMP	06/20/25 11:06	Ashley Croto	06-19-25 04:32	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538382-01 SAMP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538382-02 SAMP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538382-03 SAMP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538382-04 SAMP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538382-05 SAMP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538382-06 SAMP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538382-07 SAMP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
WG2081457-1 BLANK	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	ELN: NRS
WG2081457-2 LCS	06/20/25 11:06	Ashley Croto	NA	50	<2	0.5	06/20/25 11:06	7	95.1	06/20/25 14:06	50	IPS252022153 8NDD
WG2081457-3 MS	06/20/25 11:06	Ashley Croto	NA	50	<2	0.5	06/20/25 11:06	7	95.1	06/20/25 14:06	50	



METALS ELN REPORT

Workgroup: WG2081457

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperatur e (C)	Stop Date/Time	Final Vol ml	Comments
WG2081457-4 DUP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
WG2081457-5 PS	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
WG2081457-6 SERDIL	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
WG2081457-7 MS	06/20/25 11:06	Ashley Croto	NA	50	<2	0.5	06/20/25 11:06	7	95.1	06/20/25 14:06	50	
WG2081457-8 MSD	06/20/25 11:06	Ashley Croto	NA	50	<2	0.5	06/20/25 11:06	7	95.1	06/20/25 14:06	50	
WG2081457-9 PS	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
WG2081457-10 SERDIL	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	FM2523101942 CLH

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml



METALS ELN REPORT

Workgroup: WG2082423

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	tHNO3252301:1 HCl 90740ARM	tHCL252202	METALS 0955JDH	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
L2536104-02 WATER	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2536123-01 WATER	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2536233-01 SAMP	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2536458-01 SAMP	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2536458-02 SAMP	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2536462-01 SAMP	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2536782-01 SAMP	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2536782-02 SAMP	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2536926-01 SAMP	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2536926-02 SAMP	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	



METALS ELN REPORT

Workgroup: WG2082423

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
L2537038-01 WATER	06/23/25 18:39	Ashley Croto	25	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	2X DILUTION DUE TO pH 6
L2537047-01 SAMP	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2537655-01 WATER	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2537655-02 WATER	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2537655-03 WATER	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2537655-04 WATER	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2537655-05 WATER	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2537735-01 SAMP	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2538315-01 WATER	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
L2539226-01 SAMP	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
WG2082423-1 BLANK	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	ELN:GAN
WG2082423-2 LCS	06/23/25 18:39	Ashley Croto	50	<2	0.5	06/23/25 18:39	9	94.6	06/23/25 21:39	50	IPS252309081 2AJT



METALS ELN REPORT

Workgroup: WG2082423

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
WG2082423-3 MS	06/23/25 18:39	Ashley Croto	50	<2	0.5	06/23/25 18:39	9	94.6	06/23/25 21:39	50	ELN: MGM
WG2082423-4 DUP	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
WG2082423-5 PS	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
WG2082423-6 SERDIL	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
WG2082423-7 MS	06/23/25 18:39	Ashley Croto	50	<2	0.5	06/23/25 18:39	9	94.6	06/23/25 21:39	50	
WG2082423-8 DUP	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
WG2082423-9 PS	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	
WG2082423-10 SERDIL	06/23/25 18:39	Ashley Croto	50	<2		06/23/25 18:39	9	94.6	06/23/25 21:39	50	FM2524161450 JDH

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Inorganic Data (Mercury Analysis)

Form 1

METALS

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082770-1
Client ID : WG2082770-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 3,245.1
Lab File ID : WG2082606.pdf
Sample Amount : 25ml
Digestion Method : EPA 245.1

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/24/25 15:33
Dilution Factor : 1
Analyst : JWN
Instrument ID : NIC1
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U



Form 1

METALS

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082770-4
Client ID : WG2082770-4 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 3,245.1
Lab File ID : WG2082606.pdf
Sample Amount : 25ml
Digestion Method : EPA 245.1

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : 05/23/25 03:00
Date Received : 06/19/25
Date Analyzed : 06/24/25 15:53
Dilution Factor : 1
Analyst : JWN
Instrument ID : NIC1
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.00014	0.00020	0.0001	J



Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 10:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: JWN
Lab File ID	: WG2083144.pdf	Instrument ID	: NIC4
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 10:43
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: JWN
Lab File ID	: WG2083144.pdf	Instrument ID	: NIC4
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 10:46
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: JWN
Lab File ID	: WG2083144.pdf	Instrument ID	: NIC4
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 10:50
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: JWN
Lab File ID	: WG2083144.pdf	Instrument ID	: NIC4
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 11:00
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: JWN
Lab File ID	: WG2083144.pdf	Instrument ID	: NIC4
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U



Form 1

METALS

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082770-6
Client ID : WG2082770-6 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 3,245.1
Lab File ID : WG2083144.pdf
Sample Amount : 25ml
Digestion Method : EPA 245.1

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : 05/23/25 03:25
Date Received : 06/19/25
Date Analyzed : 06/25/25 10:23
Dilution Factor : 1
Analyst : JWN
Instrument ID : NIC4
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.0001	U



Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 09:08
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2083682.pdf	Instrument ID	: NIC1
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/25/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 09:12
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2083682.pdf	Instrument ID	: NIC1
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/25/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 09:15
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2083682.pdf	Instrument ID	: NIC1
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/25/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U



Form 1

METALS

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2083284-1
Client ID : WG2083284-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 3,245.1
Lab File ID : WG2083682.pdf
Sample Amount : 25ml
Digestion Method : EPA 245.1

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/26/25 08:52
Dilution Factor : 1
Analyst : CME
Instrument ID : NIC1
%Solids : N/A
Date Digested : 06/25/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U



Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 16:16
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: MJR
Lab File ID	: WG2083820.pdf	Instrument ID	: NIC5
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	0.00018	0.00020	0.00009	J

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 16:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: MJR
Lab File ID	: WG2083820.pdf	Instrument ID	: NIC5
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U



Form 1

METALS

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2083826-1
Client ID : WG2083826-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 3,245.1
Lab File ID : WG2083820.pdf
Sample Amount : 25ml
Digestion Method : EPA 245.1

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/26/25 16:10
Dilution Factor : 1
Analyst : MJR
Instrument ID : NIC5
%Solids : N/A
Date Digested : 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U



Form 1

METALS

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2083826-4
Client ID : MW-11SDUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 3,245.1
Lab File ID : WG2083820.pdf
Sample Amount : 25ml
Digestion Method : EPA 245.1

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : 06/16/25 12:05
Date Received : 06/16/25
Date Analyzed : 06/26/25 16:22
Dilution Factor : 1
Analyst : MJR
Instrument ID : NIC5
%Solids : N/A
Date Digested : 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	0.00014	0.00020	0.0001	J



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC1

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

	Initial Calibration			Continuing Calibration(s)							
	Lab ID	: R1980473-1			R1980473-3			R1980473-5		R1980473-7	
	Date Analyzed	: 06/24/25 07:20			06/24/25 08:46			06/24/25 10:38		06/24/25 11:18	
Parameter		True	Found	%R	True	Found	%R	Found	%R	Found	%R
Mercury		0.00300	0.0030	99	0.0050	0.00490	98	0.00480	96	0.00490	98

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC1

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		True	Found	%R	R1980473-9			R1980473-11		R1980473-13	
					06/24/25 11:58			06/24/25 13:13		06/24/25 13:46	
					True	Found	%R	Found	%R	Found	%R
Mercury					0.0050	0.00510	101	0.00490	98	0.00510	103

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC1

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		True	Found	%R	R1980473-15 06/24/25 15:43			R1980473-17 06/24/25 16:23			
					True	Found	%R	Found	%R	Found	%R
Mercury					0.0050	0.00480	97	0.00480	97		

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC4

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

	Initial Calibration			Continuing Calibration(s)						
	Lab ID	:	R1980991-1	R1980991-3			R1980991-5		R1980991-7	
	Date Analyzed	:	06/25/25 07:09	06/25/25 08:41			06/25/25 10:13		06/25/25 10:53	
Parameter			True	Found	%R	True	Found	%R	Found	%R
Mercury			0.00300	0.0030	101	0.0050	0.00500	100	0.00490	98
									0.00500	99

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC4

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)					
	True	Found	%R	True	Found	%R	Found	%R	Found
Mercury				0.0050	0.00500	101			

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC1

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

	Initial Calibration			Continuing Calibration(s)						
	Lab ID	:	R1981477-1	R1981477-3			R1981477-5			
	Date Analyzed	:	06/26/25 07:45	06/26/25 08:39			06/26/25 09:18			
Parameter	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Mercury	0.00300	0.0031	104	0.0050	0.00480	96	0.00480	96		

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC5

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

	Initial Calibration			Continuing Calibration(s)							
	Lab ID	:	R1981490-1	R1981490-3			R1981490-5		R1981490-7		
	Date Analyzed	:	06/26/25 09:59	06/26/25 10:39			06/26/25 11:14		06/26/25 12:20		
Parameter	True		Found	%R	True	Found	%R	Found	%R	Found	%R
Mercury	0.00300		0.0031	105	0.0050	0.00490	98	0.00490	98	0.00490	97

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC5

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		True	Found	%R	R1981490-9			R1981490-11		R1981490-13	
					True	Found	%R	Found	%R	Found	%R
Mercury					0.0050	0.00480	96	0.00480	96	0.00490	99

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC5

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		True	Found	%R	R1981490-15 06/26/25 15:42			R1981490-17 06/26/25 16:28			
					True	Found	%R	Found	%R	Found	%R
Mercury					0.0050	0.00500	99	0.00500	99		

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC1

Lab Number : L2537655
 Project Number : 2232.0006Y005

	Initial Calibration		Continuing Calibration				Preparation	
	Blank		Blank(s)				Blank	
Lab ID :	R1980473-2		R1980473-4		R1980473-6		R1980473-8	
Date Analyzed :	06/24/25 07:23		06/24/25 08:49		06/24/25 10:41		06/24/25 11:21	
	06/24/25 15:33							
Parameter	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
 Project Name : CORAM MATERIALS
 Instrument ID : NIC1

Lab Number : L2537655
 Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Lab ID :			R1980473-10		R1980473-12		R1980473-14	
Date Analyzed :			06/24/25 12:01		06/24/25 13:17		06/24/25 13:50	
Mercury			0.0000910 U		0.0000910 U		0.0000910 U	



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC1

Lab Number : L2537655
 Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Lab ID :			R1980473-16		R1980473-18			
Date Analyzed :			06/24/25 15:46		06/24/25 16:26			
Mercury			0.0000910 U		0.0000910 U			



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC4

Lab Number : L2537655
 Project Number : 2232.0006Y005

	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank
Lab ID :	R1980991-2		R1980991-4	R1980991-6	R1980991-8		
Date Analyzed :	06/25/25 07:12		06/25/25 08:44	06/25/25 10:17	06/25/25 10:56		
Parameter	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
 Project Name : CORAM MATERIALS
 Instrument ID : NIC4

Lab Number : L2537655
 Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Lab ID :			R1980991-10					
Date Analyzed :			06/25/25 12:05					
Mercury			0.0000910	U				



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC1

Lab Number : L2537655
 Project Number : 2232.0006Y005

Parameter	Initial Calibration		Continuing Calibration				Preparation	
	Blank		Blank(s)				Blank	
Lab ID	: R1981477-2		R1981477-4				WG2083284-1	
Date Analyzed	: 06/26/25 07:48		06/26/25 08:42				06/26/25 08:52	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910	U	0.0000910	U	0.0000910	U	0.00009	U



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC5

Lab Number : L2537655
 Project Number : 2232.0006Y005

Parameter	Initial Calibration		Continuing Calibration				Preparation	
	Blank		Blank(s)				Blank	
Lab ID	: R1981490-2		R1981490-4				WG2083826-1	
Date Analyzed	: 06/26/25 10:02		06/26/25 10:42				06/26/25 16:10	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910	U	0.0000910	U	0.0000910	U	0.00009	U



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC5

Lab Number : L2537655
 Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Lab ID :			R1981490-10		R1981490-12		R1981490-14	
Date Analyzed :			06/26/25 13:51		06/26/25 14:27		06/26/25 15:10	
Mercury			0.0000910 U		0.0000910 U		0.0000910 U	



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC5

Lab Number : L2537655
 Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Lab ID :			R1981490-16		R1981490-18			
Date Analyzed :			06/26/25 15:45		06/26/25 16:31			
Mercury			0.0000910 U		0.0000910 U			



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2538888-01
 Matrix Spike : WG2082770-3
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER

MS Analysis Date : 06/24/25 15:49
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Mercury, Total	ND	0.005	0.00463	93					70-130	20



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2538889-01
 Matrix Spike : WG2082770-5
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/25/25 10:20
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Mercury, Total	ND	0.005	0.00453	91					70-130	20



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2538013-01
 Matrix Spike : WG2083284-3
 Matrix Spike Dup : WG2083284-4

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER

MS Analysis Date : 06/26/25 09:02
 MSD Analysis Date : 06/26/25 09:05

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Mercury, Dissolved	ND	0.005	0.00459	92	0.005	0.00484	97	5	75-125	20



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-11S
 Lab Sample ID : L2537655-01
 Matrix Spike : WG2083826-3
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/26/25 16:19
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Mercury, Dissolved	0.00018J	0.005	0.00502	100					75-125	20



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/24/25 15:39
Dup Sample ID	: WG2082770-4	DUP Analysis Date	: 06/24/25 15:53

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Total	ND	0.00014J	NC	20



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/25/25 10:10
Dup Sample ID	: WG2082770-6	DUP Analysis Date	: 06/25/25 10:23

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Total	ND	ND	NC	20



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-11S	Matrix	: WATER
Lab Sample ID	: L2537655-01	Analysis Date	: 06/26/25 16:16
Dup Sample ID	: WG2083826-4	DUP Analysis Date	: 06/26/25 16:22

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Dissolved	0.00018J	0.00014J	NC	20



Form 7 Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2082770-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/24/25 15:36
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Mercury, Total	0.00100	0.000980	98.					85-115	20



Form 7
Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Client Sample ID : NA
Lab Sample ID : WG2083284-2
Dup Sample ID :

Lab Number : L2537655
Project Number : 2232.0006Y005
Matrix : WATER
LCS Analysis Date : 06/26/25 08:55
LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Mercury, Dissolved	0.00100	0.00114	115.					85-115	20



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2083826-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/26/25 16:13
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Mercury, Dissolved	0.00100	0.00107	107.					85-115	20



Form 12

Preparation Log

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2537655
Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
Matrix : WATER Prep Method : EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG2082770-1	06/24/25 12:38	-	25
WG2082770-2	06/24/25 12:38	-	25
WG2082770-3	06/24/25 12:38	-	25
WG2082770-4	06/24/25 12:38	-	25



Form 12

Preparation Log

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2537655
Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
Matrix : WATER Prep Method : EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2537655-01	06/24/25 12:38	-	25
L2537655-02	06/24/25 12:38	-	25
L2537655-03	06/24/25 12:38	-	25
L2537655-04	06/24/25 12:38	-	25
L2537655-05	06/24/25 12:38	-	25
WG2082770-5	06/24/25 12:38	-	25
WG2082770-6	06/24/25 12:38	-	25



Form 12

Preparation Log

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2537655
Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
Matrix : WATER Prep Method : EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2537655-03	06/25/25 11:25	-	25
L2537655-04	06/25/25 11:25	-	25
L2537655-05	06/25/25 11:25	-	25
WG2083284-1	06/25/25 11:25	-	25
WG2083284-2	06/25/25 11:25	-	25
WG2083284-3	06/25/25 11:25	-	25
WG2083284-4	06/25/25 11:25	-	25



Form 12

Preparation Log

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2537655
Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
Matrix : WATER Prep Method : EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2537655-01	06/26/25 10:22	-	25
L2537655-02	06/26/25 10:22	-	25
WG2083826-1	06/26/25 10:22	-	25
WG2083826-2	06/26/25 10:22	-	25
WG2083826-3	06/26/25 10:22	-	25
WG2083826-4	06/26/25 10:22	-	25



Form 13

Analysis Run Log

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : NIC1
Start Date : 06/24/25 07:20

Lab Number : L2537655
Project Number : 2232.0006Y005
Analysis Method : 3,245.1
End Date : 06/24/25 16:26

[illegible]

Form 13

Analysis Run Log

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : NIC4
Start Date : 06/25/25 07:09

Lab Number : L2537655
Project Number : 2232.0006Y005
Analysis Method : 3,245.1
End Date : 06/25/25 12:05

[illegible]

Form 13

Analysis Run Log

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : NIC1
Start Date : 06/26/25 07:45

Lab Number : L2537655
Project Number : 2232.0006Y005
Analysis Method : 3,245.1
End Date : 06/26/25 09:22

[illegible]

Form 13

Analysis Run Log

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : NIC5
Start Date : 06/26/25 09:59

Lab Number : L2537655
Project Number : 2232.0006Y005
Analysis Method : 3,245.1
End Date : 06/26/25 16:31

[illegible]

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

[illegible]

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: 01/22/21
Created By: Jason Hebert
File: PM9836-1
Page: 1

METALS by 7470A (WATER)

[illegible]

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: 01/22/21
Created By: Jason Hebert
File: PM9837-1
Page: 1

METALS by 7471B (SOIL)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Sol/Solids only)

Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

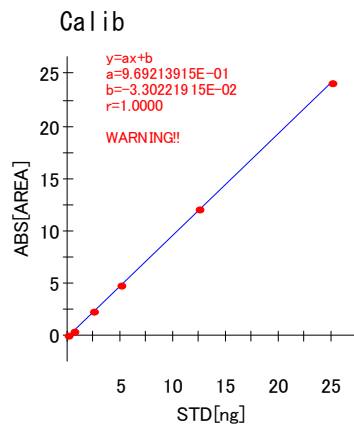
Title :
 Date : 6/24/2025
 Name :

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



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	0.0258	0.0607	-	06/24/2025 06:50	JWN,NIC1
2	0.200	2.500	2.500	2.500	0.500	0.5187	0.5692	13.8	06/24/2025 06:53	JWN,NIC1
3	1.000	2.500	2.500	2.500	2.500	2.2773	2.3837	4.7	06/24/2025 06:56	JWN,NIC1
4	2.000	2.500	2.500	2.500	5.000	4.7522	4.9372	1.3	06/24/2025 07:16	JWN,NIC1
5	5.000	2.500	2.500	2.500	12.500	12.1332	12.5527	0.4	06/24/2025 07:03	JWN,NIC1
6	10.000	2.500	2.500	2.500	25.000	24.1939	24.9965	0.0	06/24/2025 07:06	JWN,NIC1

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recover [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	7.1761	7.4381	2.975	-	06/24/2025 07:20	JWN,NIC1
2	ICB	2.500	2.500	2.500	0.0217	0.0565	0.023	-	06/24/2025 07:23	JWN,NIC1
3	xWG2082424-1 WG2082424	2.500	2.500	2.500	0.0175	0.0521	0.021	-	06/24/2025 08:12	JWN,NIC1
4	xWG2082424-2 WG2082424	2.500	2.500	2.500	0.0114	0.0458	0.018	-	06/24/2025 08:16	JWN,NIC1
5	xl2536123-01 WG2082424	2.500	2.500	2.500	0.0421	0.0775	0.031	-	06/24/2025 08:19	JWN,NIC1
6	xWG2082424-3 WG2082424	2.500	2.500	2.500	0.0635	0.0996	0.040	-	06/24/2025 08:22	JWN,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recover [%]	M. TIME	Note
7	xWG2082424-4 WG2082424	2.500	2.500	2.500	0.0731	0.1095	0.044	-	06/24/2025 08:26	JWN,NIC1
8	xl2539226-01 WG2082424	2.500	2.500	2.500	0.0860	0.1228	0.049	-	06/24/2025 08:29	JWN,NIC1
9	WG2082367-1 WG2082367	2.500	2.500	2.500	0.0053	0.0395	0.016	-	06/24/2025 08:32	JWN,NIC1
10	WG2082367-2 WG2082367	2.500	2.500	2.500	2.2239	2.3286	0.931	-	06/24/2025 08:36	JWN,NIC1
11	L2537057-02 WG2082367	2.500	2.500	2.500	0.0086	0.0429	0.017	-	06/24/2025 08:39	JWN,NIC1
12	WG2082367-3 WG2082367	2.500	2.500	2.500	11.0589	11.4442	4.578	-	06/24/2025 08:42	JWN,NIC1
13	Check STD(5ug/L)	2.500	2.500	2.500	11.7926	12.2013	4.881	97.6	06/24/2025 08:46	JWN,NIC1
14	Check Blank	2.500	2.500	2.500	0.0134	0.0479	0.019	-	06/24/2025 08:49	JWN,NIC1
15	WG2082367-4 WG2082367	2.500	2.500	2.500	0.0089	0.0433	0.017	-	06/24/2025 08:52	JWN,NIC1
16	L2537716-05 WG2082367	2.500	2.500	2.500	0.0190	0.0537	0.021	-	06/24/2025 08:55	JWN,NIC1
17	WG2082327-1 WG2082327	2.500	2.500	2.500	0.0200	0.0547	0.022	-	06/24/2025 08:59	JWN,NIC1
18	WG2082327-2 WG2082327	2.500	2.500	2.500	2.2899	2.3967	0.959	-	06/24/2025 09:02	JWN,NIC1
19	WG2082327-3 WG2082327	2.500	2.500	2.500	2.3354	2.4437	0.977	-	06/24/2025 09:05	JWN,NIC1
20	L2536870-02 WG2082327	2.500	2.500	2.500	0.0241	0.0589	0.024	-	06/24/2025 09:09	JWN,NIC1
21	WG2082327-4 WG2082327	2.500	2.500	2.500	11.2843	11.6768	4.671	-	06/24/2025 09:12	JWN,NIC1
22	WG2082327-5 WG2082327	2.500	2.500	2.500	11.4607	11.8588	4.744	-	06/24/2025 09:15	JWN,NIC1
23	L2536870-01 WG2082327	2.500	2.500	2.500	0.0359	0.0711	0.028	-	06/24/2025 09:19	JWN,NIC1
24	WG2080486-1 WG2080486	2.500	2.500	2.500	0.0228	0.0576	0.023	-	06/24/2025 10:34	JWN,NIC1
25	Check STD(5ug/L)	2.500	2.500	2.500	11.6345	12.0381	4.815	96.3	06/24/2025 10:38	JWN,NIC1
26	Check Blank	2.500	2.500	2.500	0.0072	0.0415	0.017	-	06/24/2025 10:41	JWN,NIC1
27	WG2080486-2 WG2080486	2.500	2.500	2.500	2.2082	2.3124	0.925	-	06/24/2025 10:44	JWN,NIC1
28	I2537795-01 WG2080486	2.500	2.500	2.500	0.0002	0.0343	0.014	-	06/24/2025 10:48	JWN,NIC1
29	xWG2082424-2 WG2082424	2.500	2.500	2.500	0.0040	0.0382	0.015	-	06/24/2025 10:52	JWN,NIC1
30	WG2080486-3 WG2080486	2.500	2.500	2.500	11.1203	11.5076	4.603	-	06/24/2025 10:55	JWN,NIC1
31	WG2080486-4 WG2080486	2.500	2.500	2.500	0.0014	0.0355	0.014	-	06/24/2025 10:58	JWN,NIC1
32	I2535071-02 WG2080486	2.500	2.500	2.500	0.0031	0.0373	0.015	-	06/24/2025 11:02	JWN,NIC1
33	I2535071-03 WG2080486	2.500	2.500	2.500	0.0228	0.0576	0.023	-	06/24/2025 11:05	JWN,NIC1
34	I2537823-02 WG2080486	2.500	2.500	2.500	0.0068	0.0411	0.016	-	06/24/2025 11:08	JWN,NIC1
35	WG2082611-1 WG2082611	2.500	2.500	2.500	0.0129	0.0474	0.019	-	06/24/2025 11:12	JWN,NIC1
36	WG2082611-2 WG2082611	2.500	2.500	2.500	2.2427	2.3480	0.939	-	06/24/2025 11:15	JWN,NIC1
37	Check STD(5ug/L)	2.500	2.500	2.500	11.8806	12.2920	4.917	98.3	06/24/2025 11:18	JWN,NIC1
38	Check Blank	2.500	2.500	2.500	0.0108	0.0452	0.018	-	06/24/2025 11:21	JWN,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recover [%]	M. TIME	Note
39	L2538107-01 WG2082611	2.500	2.500	2.500	0.0154	0.0500	0.020	-	06/24/2025 11:25	JWN,NIC1
40	WG2082611-3 WG2082611	2.500	2.500	2.500	11.1724	11.5614	4.625	-	06/24/2025 11:28	JWN,NIC1
41	WG2082611-4 WG2082611	2.500	2.500	2.500	0.0240	0.0588	0.024	-	06/24/2025 11:31	JWN,NIC1
42	L2538107-02 WG2082611	2.500	2.500	2.500	0.0220	0.0568	0.023	-	06/24/2025 11:35	JWN,NIC1
43	L2539224-01 WG2082611	2.500	2.500	2.500	0.0238	0.0586	0.023	-	06/24/2025 11:38	JWN,NIC1
44	L2539224-02 WG2082611	2.500	2.500	2.500	0.0339	0.0690	0.028	-	06/24/2025 11:41	JWN,NIC1
45	xWG2082424-3 WG2082424	2.500	2.500	2.500	0.0109	0.0453	0.018	-	06/24/2025 11:45	JWN,NIC1
46	L2539224-03 WG2082611	2.500	2.500	2.500	0.0188	0.0535	0.021	-	06/24/2025 11:48	JWN,NIC1
47	WG2082646-1 WG2082646	2.500	2.500	2.500	0.0116	0.0460	0.018	-	06/24/2025 11:52	JWN,NIC1
48	WG2082646-2 WG2082646	2.500	2.500	2.500	2.3061	2.4134	0.965	-	06/24/2025 11:55	JWN,NIC1
49	Check STD(5ug/L)	2.500	2.500	2.500	12.2184	12.6406	5.056	101.1	06/24/2025 11:58	JWN,NIC1
50	Check Blank	2.500	2.500	2.500	0.0003	0.0344	0.014	-	06/24/2025 12:01	JWN,NIC1
51	L2536708-01 WG2082646	2.500	2.500	2.500	2.0995	2.2003	0.880	-	06/24/2025 12:05	JWN,NIC1
52	WG2082646-3 WG2082646	2.500	2.500	2.500	13.4516	13.9129	5.565	-	06/24/2025 12:08	JWN,NIC1
53	WG2082646-4 WG2082646	2.500	2.500	2.500	2.1314	2.2332	0.893	-	06/24/2025 12:11	JWN,NIC1
54	L2536708-02 WG2082646	2.500	2.500	2.500	1.1755	1.2469	0.499	-	06/24/2025 12:15	JWN,NIC1
55	L2536708-03 WG2082646	2.500	2.500	2.500	1.8381	1.9306	0.772	-	06/24/2025 12:18	JWN,NIC1
56	L2536708-04 WG2082646	2.500	2.500	2.500	2.3373	2.4456	0.978	-	06/24/2025 12:21	JWN,NIC1
57	CLRSOLTEST	2.500	2.500	2.500	0.0026	0.0368	0.015	-	06/24/2025 12:57	JWN,NIC1
58	WG2082600-1 WG2082600	2.500	2.500	2.500	0.0703	0.1066	0.043	-	06/24/2025 13:04	JWN,NIC1
59	WG2082600-2 WG2082600	2.500	2.500	2.500	2.2750	2.3813	0.953	-	06/24/2025 13:07	JWN,NIC1
60	L2536151-01 WG2082600	2.500	2.500	2.500	0.1826	0.2225	0.089	-	06/24/2025 13:10	JWN,NIC1
61	Check STD(5ug/L)	2.500	2.500	2.500	11.8766	12.2879	4.915	98.3	06/24/2025 13:13	JWN,NIC1
62	Check Blank	2.500	2.500	2.500	0.0118	0.0462	0.018	-	06/24/2025 13:17	JWN,NIC1
63	WG2082600-3 WG2082600	2.500	2.500	2.500	11.8103	12.2195	4.888	-	06/24/2025 13:20	JWN,NIC1
64	WG2082600-4 WG2082600	2.500	2.500	2.500	0.1305	0.1687	0.067	-	06/24/2025 13:23	JWN,NIC1
65	L2538069-01 WG2082600	2.500	2.500	2.500	0.0503	0.0860	0.034	-	06/24/2025 13:27	JWN,NIC1
66	L2538069-02 WG2082600	2.500	2.500	2.500	0.0295	0.0645	0.026	-	06/24/2025 13:30	JWN,NIC1
67	L2538069-03 WG2082600	2.500	2.500	2.500	0.0535	0.0893	0.036	-	06/24/2025 13:33	JWN,NIC1
68	L2538069-04 WG2082600	2.500	2.500	2.500	0.0631	0.0992	0.040	-	06/24/2025 13:36	JWN,NIC1
69	L2538764-01 WG2082600	2.500	2.500	2.500	0.0411	0.0765	0.031	-	06/24/2025 13:40	JWN,NIC1
70	L2538985-01 WG2082600	2.500	2.500	2.500	0.0245	0.0593	0.024	-	06/24/2025 13:43	JWN,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recover [%]	M. TIME	Note
71	Check STD(5ug/L)	2.500	2.500	2.500	12.4295	12.8584	5.143	102.9	06/24/2025 13:46	JWN,NIC1
72	Check Blank	2.500	2.500	2.500	0.0092	0.0436	0.017	-	06/24/2025 13:50	JWN,NIC1
73	L2536431-06 WG2079465	2.500	2.500	2.500	0.0389	0.0742	0.030	-	06/24/2025 14:33	JWN,NIC1
74	WG2079465-5 WG2079465	2.500	2.500	2.500	11.3999	11.7961	4.718	-	06/24/2025 14:37	JWN,NIC1
75	WG2079465-6 WG2079465	2.500	2.500	2.500	11.3525	11.7472	4.699	-	06/24/2025 14:40	JWN,NIC1
76	L2536553-01 WG2079465	2.500	2.500	2.500	0.0479	0.0835	0.033	-	06/24/2025 14:43	JWN,NIC1
77	L2536553-02 WG2079465	2.500	2.500	2.500	0.0494	0.0850	0.034	-	06/24/2025 14:47	JWN,NIC1
78	L2537420-01 WG2081838	2.500	2.500	2.500	0.0304	0.0654	0.026	-	06/24/2025 15:17	JWN,NIC1
79	L2537426-01 WG2081838	2.500	2.500	2.500	0.0687	0.1050	0.042	-	06/24/2025 15:21	JWN,NIC1
80	WG2082770-1 WG2082770	2.500	2.500	2.500	0.0802	0.1168	0.047	-	06/24/2025 15:33	JWN,NIC1
81	WG2082770-2 WG2082770	2.500	2.500	2.500	2.3430	2.4515	0.981	-	06/24/2025 15:36	JWN,NIC1
82	L2538888-01 WG2082770	2.500	2.500	2.500	0.0853	0.1221	0.049	-	06/24/2025 15:39	JWN,NIC1
83	Check STD(5ug/L)	2.500	2.500	2.500	11.7172	12.1235	4.849	97.0	06/24/2025 15:43	JWN,NIC1
84	Check Blank	2.500	2.500	2.500	0.0189	0.0536	0.021	-	06/24/2025 15:46	JWN,NIC1
85	WG2082770-3 WG2082770	2.500	2.500	2.500	11.2027	11.5926	4.637	-	06/24/2025 15:49	JWN,NIC1
86	WG2082770-4 WG2082770	2.500	2.500	2.500	0.3145	0.3586	0.143	-	06/24/2025 15:53	JWN,NIC1
87	L2539226-01 WG2082770	2.500	2.500	2.500	0.1086	0.1461	0.058	-	06/24/2025 15:56	JWN,NIC1
88	L2535550-02 WG2079379	2.500	2.500	2.500	0.0705	0.1068	0.043	-	06/24/2025 15:59	JWN,NIC1
89	L2535550-03 WG2079379	2.500	2.500	2.500	0.4329	0.4807	0.192	-	06/24/2025 16:03	JWN,NIC1
90	L2535550-04 WG2079379	2.500	2.500	2.500	0.1468	0.1855	0.074	-	06/24/2025 16:06	JWN,NIC1
91	L2535550-05 WG2079379	2.500	2.500	2.500	0.0979	0.1351	0.054	-	06/24/2025 16:09	JWN,NIC1
92	L2535550-06 WG2079379	2.500	2.500	2.500	0.0799	0.1165	0.047	-	06/24/2025 16:13	JWN,NIC1
93	L2535550-07 WG2079379	2.500	2.500	2.500	0.0642	0.1003	0.040	-	06/24/2025 16:16	JWN,NIC1
94	L2535550-08 WG2079379	2.500	2.500	2.500	0.1422	0.1808	0.072	-	06/24/2025 16:19	JWN,NIC1
95	Check STD(5ug/L)	2.500	2.500	2.500	11.7018	12.1076	4.843	96.9	06/24/2025 16:23	JWN,NIC1
96	Check Blank	2.500	2.500	2.500	0.0173	0.0519	0.021	-	06/24/2025 16:26	JWN,NIC1
97	L2535550-09 WG2079379	2.500	2.500	2.500	0.3681	0.4139	0.166	-	06/24/2025 16:29	JWN,NIC1
98	L2535550-10 WG2079379	2.500	2.500	2.500	0.1211	0.1590	0.064	-	06/24/2025 16:33	JWN,NIC1
99	L2535700-02 WG2078477	2.500	2.500	2.500	1.0027	1.0686	0.427	-	06/24/2025 16:36	JWN,NIC1
100	L2535700-03 WG2078477	2.500	2.500	2.500	0.0264	0.0613	0.025	-	06/24/2025 16:39	JWN,NIC1
101	L2535700-04 WG2078477	2.500	2.500	2.500	0.0155	0.0501	0.020	-	06/24/2025 16:42	JWN,NIC1
102	L2535700-05 WG2078477	2.500	2.500	2.500	0.1552	0.1942	0.078	-	06/24/2025 16:46	JWN,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recover [%]	M. TIME	Note
103	L2535967-04 WG2078477	2.500	2.500	2.500	6.7820	7.0315	2.813	-	06/24/2025 16:49	JWN,NIC1
104	L2535967-05 WG2078477	2.500	2.500	2.500	9.2917	9.6209	3.848	-	06/24/2025 16:52	JWN,NIC1
105	WG2078568-1 WG2078568	2.500	2.500	2.500	0.0025	0.0367	0.015	-	06/24/2025 17:22	JWN,NIC1
106	WG2078568-2 WG2078568	2.500	2.500	2.500	2.2505	2.3561	0.942	-	06/24/2025 17:25	JWN,NIC1
107	Check STD(5ug/L)	2.500	2.500	2.500	11.7259	12.1324	4.853	97.1	06/24/2025 17:28	JWN,NIC1
108	Check Blank	2.500	2.500	2.500	0.0163	0.0509	0.020	-	06/24/2025 17:31	JWN,NIC1
109	L2534129-13 WG2078568	2.500	2.500	2.500	0.0054	0.0396	0.016	-	06/24/2025 17:35	JWN,NIC1
110	WG2078568-3 WG2078568	2.500	2.500	2.500	10.0186	10.3709	4.148	-	06/24/2025 17:38	JWN,NIC1
111	WG2078568-4 WG2078568	2.500	2.500	2.500	10.0522	10.4056	4.162	-	06/24/2025 17:41	JWN,NIC1
112	L2534129-01 WG2078568	2.500	2.500	2.500	0.0107	0.0451	0.018	-	06/24/2025 17:45	JWN,NIC1
113	L2534129-02 WG2078568	2.500	2.500	2.500	0.0108	0.0452	0.018	-	06/24/2025 17:48	JWN,NIC1
114	L2534129-06 WG2078568	2.500	2.500	2.500	0.0004	0.0345	0.014	-	06/24/2025 17:51	JWN,NIC1
115	L2534129-07 WG2078568	2.500	2.500	2.500	0.0042	0.0384	0.015	-	06/24/2025 17:55	JWN,NIC1
116	L2534129-09 WG2078568	2.500	2.500	2.500	0.0081	0.0424	0.017	-	06/24/2025 17:58	JWN,NIC1
117	L2534129-10 WG2078568	2.500	2.500	2.500	0.0066	0.0409	0.016	-	06/24/2025 18:01	JWN,NIC1
118	L2534129-11 WG2078568	2.500	2.500	2.500	0.0340	0.0692	0.028	-	06/24/2025 18:04	JWN,NIC1
119	Check STD(5ug/L)	2.500	2.500	2.500	11.7292	12.1358	4.854	97.1	06/24/2025 18:08	JWN,NIC1
120	Check Blank	2.500	2.500	2.500	0.0190	0.0537	0.021	-	06/24/2025 18:11	JWN,NIC1
121	L2534129-12 WG2078568	2.500	2.500	2.500	0.0073	0.0416	0.017	-	06/24/2025 18:14	JWN,NIC1
122	L2534129-14 WG2078568	2.500	2.500	2.500	0.0043	0.0385	0.015	-	06/24/2025 18:18	JWN,NIC1
123	Check STD(5ug/L)	2.500	2.500	2.500	11.7454	12.1526	4.861	97.2	06/24/2025 18:21	JWN,NIC1
124	Check Blank	2.500	2.500	2.500	0.0007	0.0348	0.014	-	06/24/2025 18:24	JWN,NIC1

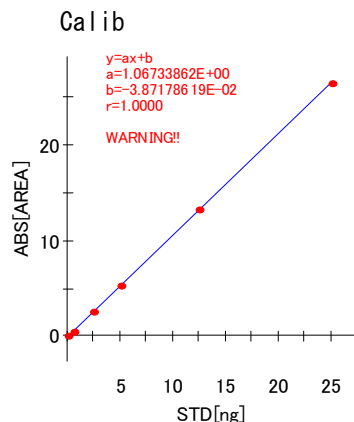
Title :
 Date : 6/25/2025
 Name :

Method

STD
 HONH3CI : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

SMP
 HONH3CI : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec



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	0.0184	0.0535	-	06/25/2025 06:42	JWN,NIC4
2	0.200	2.500	2.500	2.500	0.500	0.5506	0.5521	10.4	06/25/2025 06:45	JWN,NIC4
3	1.000	2.500	2.500	2.500	2.500	2.5216	2.3988	4.0	06/25/2025 06:48	JWN,NIC4
4	2.000	2.500	2.500	2.500	5.000	5.2547	4.9595	0.8	06/25/2025 07:05	JWN,NIC4
5	5.000	2.500	2.500	2.500	12.500	13.343	12.5378	0.3	06/25/2025 06:55	JWN,NIC4
6	10.000	2.500	2.500	2.500	25.000	26.642	24.9983	0.0	06/25/2025 06:58	JWN,NIC4

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	8.0283	7.5581	3.023	-	06/25/2025 07:09	JWN,NIC4
2	ICB	2.500	2.500	2.500	0.0162	0.0515	0.021	-	06/25/2025 07:12	JWN,NIC4
3	wg2082882-1 wg2082882	2.500	2.500	2.500	0.0143	0.0497	0.020	-	06/25/2025 07:56	JWN,NIC4
4	wg2082882-2 wg2082882	2.500	2.500	2.500	2.2979	2.1892	0.876	-	06/25/2025 07:59	JWN,NIC4
5	L2538013-01 wg2082882	2.500	2.500	2.500	0.0219	0.0568	0.023	-	06/25/2025 08:03	JWN,NIC4
6	wg2082882-3 wg2082882	2.500	2.500	2.500	12.2492	11.5127	4.605	-	06/25/2025 08:06	JWN,NIC4

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	wg2082882-4 wg2082882	2.500	2.500	2.500	12.1142	11.3862	4.554	-	06/25/2025 08:09	JWN,NIC4
8	L2538013-02 wg2082882	2.500	2.500	2.500	0.0656	0.0977	0.039	-	06/25/2025 08:12	JWN,NIC4
9	wg2082882-5 wg2082882	2.500	2.500	2.500	12.1956	11.4625	4.585	-	06/25/2025 08:16	JWN,NIC4
10	wg2082882-6 wg2082882	2.500	2.500	2.500	0.0241	0.0589	0.024	-	06/25/2025 08:19	JWN,NIC4
11	L2536804-01 wg2082882	2.500	2.500	2.500	0.0259	0.0605	0.024	-	06/25/2025 08:22	JWN,NIC4
12	L2537850-01 wg2082882	2.500	2.500	2.500	3.0701	2.9127	1.165	-	06/25/2025 08:26	JWN,NIC4
13	Check STD(5ug/L)	2.500	2.500	2.500	13.2353	12.4366	4.975	99.5	06/25/2025 08:41	JWN,NIC4
14	Check Blank	2.500	2.500	2.500	-0.0049	0.0317	0.013	-	06/25/2025 08:44	JWN,NIC4
15	L2538013-03 wg2082882	2.500	2.500	2.500	0.0236	0.0584	0.023	-	06/25/2025 08:48	JWN,NIC4
16	L2538013-04 wg2082882	2.500	2.500	2.500	0.0339	0.0680	0.027	-	06/25/2025 08:51	JWN,NIC4
17	L2538013-05 wg2082882	2.500	2.500	2.500	0.6556	0.6505	0.260	-	06/25/2025 08:54	JWN,NIC4
18	L2538013-06 wg2082882	2.500	2.500	2.500	0.0055	0.0414	0.017	-	06/25/2025 08:58	JWN,NIC4
19	L2538013-07 wg2082882	2.500	2.500	2.500	0.0056	0.0415	0.017	-	06/25/2025 09:01	JWN,NIC4
20	L2538795-07 wg2082882	2.500	2.500	2.500	0.0119	0.0474	0.019	-	06/25/2025 09:04	JWN,NIC4
21	L2538796-07 wg2082882	2.500	2.500	2.500	-0.0001	0.0362	0.014	-	06/25/2025 09:07	JWN,NIC4
22	L2538797-07 wg2082882	2.500	2.500	2.500	-0.0012	0.0352	0.014	-	06/25/2025 09:11	JWN,NIC4
23	L2535504-04 wg2082367	2.500	2.500	2.500	0.1032	0.1330	0.053	-	06/25/2025 09:25	JWN,NIC4
24	I2538889-01 WG2082770	2.500	2.500	2.500	0.0351	0.0692	0.028	-	06/25/2025 10:10	JWN,NIC4
25	Check STD(5ug/L)	2.500	2.500	2.500	13.0557	12.2683	4.907	98.1	06/25/2025 10:13	JWN,NIC4
26	Check Blank	2.500	2.500	2.500	-0.0101	0.0268	0.011	-	06/25/2025 10:17	JWN,NIC4
27	WG2082770-5 WG2082770	2.500	2.500	2.500	12.0476	11.3238	4.530	-	06/25/2025 10:20	JWN,NIC4
28	WG2082770-6 WG2082770	2.500	2.500	2.500	0.1848	0.2094	0.084	-	06/25/2025 10:23	JWN,NIC4
29	I2536104-02 WG2082770	2.500	2.500	2.500	1.0812	1.0493	0.420	-	06/25/2025 10:27	JWN,NIC4
30	I2536123-01 WG2082770	2.500	2.500	2.500	0.0708	0.1026	0.041	-	06/25/2025 10:30	JWN,NIC4
31	I2536233-01 WG2082770	2.500	2.500	2.500	0.0547	0.0875	0.035	-	06/25/2025 10:33	JWN,NIC4
32	I2537038-01 WG2082770	2.500	2.500	2.500	0.0603	0.0928	0.037	-	06/25/2025 10:37	JWN,NIC4
33	I2537655-01 WG2082770	2.500	2.500	2.500	0.0291	0.0635	0.025	-	06/25/2025 10:40	JWN,NIC4
34	I2537655-02 WG2082770	2.500	2.500	2.500	0.1335	0.1614	0.065	-	06/25/2025 10:43	JWN,NIC4
35	I2537655-03 WG2082770	2.500	2.500	2.500	0.1963	0.2202	0.088	-	06/25/2025 10:46	JWN,NIC4
36	I2537655-04 WG2082770	2.500	2.500	2.500	0.0263	0.0609	0.024	-	06/25/2025 10:50	JWN,NIC4
37	Check STD(5ug/L)	2.500	2.500	2.500	13.2295	12.4311	4.972	99.4	06/25/2025 10:53	JWN,NIC4
38	Check Blank	2.500	2.500	2.500	-0.0086	0.0282	0.011	-	06/25/2025 10:56	JWN,NIC4

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	I2537655-05 WG2082770	2.500	2.500	2.500	0.0211	0.0560	0.022	-	06/25/2025 11:00	JWN,NIC4
40	L2534125-01 WG2079479	2.500	2.500	2.500	-0.0007	0.0356	0.014	-	06/25/2025 11:32	JWN,NIC4
41	L2535531-04 WG2079479	2.500	2.500	2.500	0.0026	0.0387	0.015	-	06/25/2025 11:35	JWN,NIC4
42	L2535531-05 WG2079479	2.500	2.500	2.500	0.0040	0.0400	0.016	-	06/25/2025 11:38	JWN,NIC4
43	L2535531-06 WG2079479	2.500	2.500	2.500	0.0122	0.0477	0.019	-	06/25/2025 11:41	JWN,NIC4
44	L2535531-07 WG2079479	2.500	2.500	2.500	0.0038	0.0398	0.016	-	06/25/2025 11:45	JWN,NIC4
45	L2535531-08 WG2079479	2.500	2.500	2.500	0.0012	0.0374	0.015	-	06/25/2025 11:48	JWN,NIC4
46	L2535531-09 WG2079479	2.500	2.500	2.500	0.0042	0.0402	0.016	-	06/25/2025 11:51	JWN,NIC4
47	L2535531-10 WG2079479	2.500	2.500	2.500	0.0040	0.0400	0.016	-	06/25/2025 11:55	JWN,NIC4
48	L2535531-11 WG2079479	2.500	2.500	2.500	0.0024	0.0385	0.015	-	06/25/2025 11:58	JWN,NIC4
49	Check STD(5ug/L)	2.500	2.500	2.500	13.4015	12.5923	5.037	100.7	06/25/2025 12:01	JWN,NIC4
50	Check Blank	2.500	2.500	2.500	-0.0028	0.0337	0.013	-	06/25/2025 12:05	JWN,NIC4
51	L2535531-12 WG2079479	2.500	2.500	2.500	0.0010	0.0372	0.015	-	06/25/2025 12:08	JWN,NIC4
52	L2535678-01 WG2079479	2.500	2.500	2.500	0.0101	0.0457	0.018	-	06/25/2025 12:11	JWN,NIC4
53	L2535678-02 WG2079479	2.500	2.500	2.500	0.0025	0.0386	0.015	-	06/25/2025 12:14	JWN,NIC4
54	L2535971-01 WG2079479	2.500	2.500	2.500	0.0023	0.0384	0.015	-	06/25/2025 12:18	JWN,NIC4
55	L2535971-02 WG2079479	2.500	2.500	2.500	0.0018	0.0380	0.015	-	06/25/2025 12:21	JWN,NIC4
56	L2535971-04 WG2079479	2.500	2.500	2.500	-0.0034	0.0331	0.013	-	06/25/2025 12:24	JWN,NIC4
57	L2535971-05 WG2079479	2.500	2.500	2.500	-0.0003	0.0360	0.014	-	06/25/2025 12:28	JWN,NIC4
58	L2534177-01 WG2079889	2.500	2.500	2.500	0.1703	0.1958	0.078	-	06/25/2025 12:31	JWN,NIC4
59	L2535878-01 WG2079889	2.500	2.500	2.500	-0.0156	0.0217	0.009	-	06/25/2025 12:34	JWN,NIC4
60	L2535970-01 WG2079889	2.500	2.500	2.500	0.3942	0.4056	0.162	-	06/25/2025 12:37	JWN,NIC4
61	Check STD(5ug/L)	2.500	2.500	2.500	13.3807	12.5728	5.029	100.6	06/25/2025 12:41	JWN,NIC4
62	Check Blank	2.500	2.500	2.500	-0.0029	0.0336	0.013	-	06/25/2025 12:44	JWN,NIC4
63	L2537430-01 WG2079889	2.500	2.500	2.500	0.0263	0.0609	0.024	-	06/25/2025 12:47	JWN,NIC4
64	WG2080274-1 WG2080274	2.500	2.500	2.500	0.0190	0.0541	0.022	-	06/25/2025 12:51	JWN,NIC4
65	WG2080274-2 WG2080274	2.500	2.500	2.500	2.5254	2.4023	0.961	-	06/25/2025 12:54	JWN,NIC4
66	L2535505-02 WG2080274	2.500	2.500	2.500	0.0875	0.1183	0.047	-	06/25/2025 12:57	JWN,NIC4
67	WG2080274-3 WG2080274	2.500	2.500	2.500	12.2853	11.5465	4.619	-	06/25/2025 13:01	JWN,NIC4
68	WG2080274-4 WG2080274	2.500	2.500	2.500	0.0615	0.0939	0.038	-	06/25/2025 13:04	JWN,NIC4
69	L2535505-01 WG2080274	2.500	2.500	2.500	0.0580	0.0906	0.036	-	06/25/2025 13:07	JWN,NIC4
70	L2535505-03 WG2080274	2.500	2.500	2.500	0.0066	0.0425	0.017	-	06/25/2025 13:10	JWN,NIC4

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	L2535505-04 WG2080274	2.500	2.500	2.500	0.0052	0.0411	0.016	-	06/25/2025 13:14	JWN,NIC4
72	L2535505-05 WG2080274	2.500	2.500	2.500	0.0110	0.0466	0.019	-	06/25/2025 13:17	JWN,NIC4
73	Check STD(5ug/L)	2.500	2.500	2.500	13.3495	12.5436	5.017	100.3	06/25/2025 13:20	JWN,NIC4
74	Check Blank	2.500	2.500	2.500	-0.0047	0.0319	0.013	-	06/25/2025 13:24	JWN,NIC4
75	L2535505-06 WG2080274	2.500	2.500	2.500	0.0213	0.0562	0.022	-	06/25/2025 13:27	JWN,NIC4
76	L2535505-07 WG2080274	2.500	2.500	2.500	0.0249	0.0596	0.024	-	06/25/2025 13:30	JWN,NIC4
77	WG2080541-1 WG2080541	2.500	2.500	2.500	0.1762	0.2014	0.081	-	06/25/2025 13:58	JWN,NIC4
78	WG2080541-2 WG2080541	2.500	2.500	2.500	2.9340	2.7852	1.114	-	06/25/2025 14:02	JWN,NIC4
79	WG2080541-3 WG2080541	2.500	2.500	2.500	2.9062	2.7591	1.104	-	06/25/2025 14:05	JWN,NIC4
80	L2535823-01 WG2080541	2.500	2.500	2.500	0.1044	0.1341	0.054	-	06/25/2025 14:08	JWN,NIC4
81	L2535823-02 WG2080541	2.500	2.500	2.500	0.0736	0.1052	0.042	-	06/25/2025 14:12	JWN,NIC4
82	L2535823-03 WG2080541	2.500	2.500	2.500	0.0817	0.1128	0.045	-	06/25/2025 14:15	JWN,NIC4
83	xWG2081576-1 WG2081576	2.500	2.500	2.500	-0.0031	0.0334	0.013	-	06/25/2025 14:19	JWN,NIC4
84	xWG2081576-2 WG2081576	2.500	2.500	2.500	-0.0044	0.0322	0.013	-	06/25/2025 14:23	JWN,NIC4
85	Check STD(5ug/L)	2.500	2.500	2.500	13.3334	12.5285	5.011	100.2	06/25/2025 14:26	JWN,NIC4
86	Check Blank	2.500	2.500	2.500	-0.0001	0.0362	0.014	-	06/25/2025 14:29	JWN,NIC4
87	xl2535869-11 WG2081576	2.500	2.500	2.500	-0.0049	0.0317	0.013	-	06/25/2025 14:47	JWN,NIC4
88	xWG2081576-3 WG2081576	2.500	2.500	2.500	-0.0034	0.0331	0.013	-	06/25/2025 14:50	JWN,NIC4
89	xWG2081576-4 WG2081576	2.500	2.500	2.500	-0.0025	0.0339	0.014	-	06/25/2025 14:53	JWN,NIC4
90	xl2535869-12 WG2081576	2.500	2.500	2.500	-0.0051	0.0315	0.013	-	06/25/2025 14:56	JWN,NIC4
91	WG2080035-1 WG2080035	2.500	2.500	2.500	0.0864	0.1172	0.047	-	06/25/2025 16:07	JWN,NIC4
92	WG2080035-2 WG2080035	2.500	2.500	2.500	2.5574	2.4323	0.973	-	06/25/2025 16:10	JWN,NIC4
93	L2536215-01 WG2080035	2.500	2.500	2.500	0.0975	0.1276	0.051	-	06/25/2025 16:13	JWN,NIC4
94	WG2080035-3 WG2080035	2.500	2.500	2.500	12.2513	11.5146	4.606	-	06/25/2025 16:17	JWN,NIC4
95	WG2080035-4 WG2080035	2.500	2.500	2.500	0.0685	0.1005	0.040	-	06/25/2025 16:20	JWN,NIC4
96	L2536215-02 WG2080035	2.500	2.500	2.500	0.0511	0.0842	0.034	-	06/25/2025 16:23	JWN,NIC4
97	Check STD(5ug/L)	2.500	2.500	2.500	12.8046	12.0330	4.813	96.3	06/25/2025 16:26	JWN,NIC4
98	Check Blank	2.500	2.500	2.500	0.0026	0.0387	0.015	-	06/25/2025 16:30	JWN,NIC4
99	L2536215-03 WG2080035	2.500	2.500	2.500	0.0460	0.0794	0.032	-	06/25/2025 16:34	JWN,NIC4
100	L2536215-04 WG2080035	2.500	2.500	2.500	0.0733	0.1050	0.042	-	06/25/2025 16:38	JWN,NIC4
101	L2536215-05 WG2080035	2.500	2.500	2.500	0.0570	0.0897	0.036	-	06/25/2025 16:41	JWN,NIC4
102	WG2083304-1 WG2083304	2.500	2.500	2.500	-0.0022	0.0342	0.014	-	06/25/2025 16:51	JWN,NIC4

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	WG2083304-2 WG2083304	2.500	2.500	2.500	2.3781	2.2643	0.906	-	06/25/2025 16:54	JWN,NIC4
104	WG2083304-3 WG2083304	2.500	2.500	2.500	2.4813	2.3610	0.944	-	06/25/2025 16:57	JWN,NIC4
105	L2538134-03 WG2083304	2.500	2.500	2.500	0.0027	0.0388	0.016	-	06/25/2025 17:01	JWN,NIC4
106	xWG2081576-2 WG2081576	2.500	2.500	2.500	-0.0001	0.0362	0.014	-	06/25/2025 17:05	JWN,NIC4
107	Check STD(5ug/L)	2.500	2.500	2.500	12.7655	11.9964	4.799	96.0	06/25/2025 17:08	JWN,NIC4
108	Check Blank	2.500	2.500	2.500	0.0014	0.0376	0.015	-	06/25/2025 17:12	JWN,NIC4
109	WG2080030-1 WG2080030	2.500	2.500	2.500	0.0657	0.0978	0.039	-	06/25/2025 17:56	JWN,NIC4
110	WG2080030-2 WG2080030	2.500	2.500	2.500	2.4787	2.3586	0.943	-	06/25/2025 18:00	JWN,NIC4
111	L2535869-07 WG2080030	2.500	2.500	2.500	0.0833	0.1143	0.046	-	06/25/2025 18:03	JWN,NIC4
112	WG2080030-3 WG2080030	2.500	2.500	2.500	12.3796	11.6348	4.654	-	06/25/2025 18:06	JWN,NIC4
113	WG2080030-4 WG2080030	2.500	2.500	2.500	12.2224	11.4876	4.595	-	06/25/2025 18:10	JWN,NIC4
114	L2535869-01 WG2080030	2.500	2.500	2.500	0.0388	0.0726	0.029	-	06/25/2025 18:13	JWN,NIC4
115	L2535869-02 WG2080030	2.500	2.500	2.500	0.0079	0.0437	0.017	-	06/25/2025 18:16	JWN,NIC4
116	L2535869-03 WG2080030	2.500	2.500	2.500	0.0116	0.0471	0.019	-	06/25/2025 18:19	JWN,NIC4
117	L2535869-04 WG2080030	2.500	2.500	2.500	0.0127	0.0482	0.019	-	06/25/2025 18:23	JWN,NIC4
118	L2535869-05 WG2080030	2.500	2.500	2.500	0.0131	0.0485	0.019	-	06/25/2025 18:26	JWN,NIC4
119	Check STD(5ug/L)	2.500	2.500	2.500	12.6503	11.8885	4.755	95.1	06/25/2025 18:29	JWN,NIC4
120	Check Blank	2.500	2.500	2.500	-0.0017	0.0347	0.014	-	06/25/2025 18:33	JWN,NIC4
121	L2535869-06 WG2080030	2.500	2.500	2.500	0.0139	0.0493	0.020	-	06/25/2025 18:39	JWN,NIC4
122	L2535869-08 WG2080030	2.500	2.500	2.500	0.0318	0.0661	0.026	-	06/25/2025 18:42	JWN,NIC4
123	L2535869-09 WG2080030	2.500	2.500	2.500	0.0067	0.0426	0.017	-	06/25/2025 18:45	JWN,NIC4
124	L2535869-10 WG2080030	2.500	2.500	2.500	0.0263	0.0609	0.024	-	06/25/2025 18:49	JWN,NIC4
125	L2535971-06 WG2080030	2.500	2.500	2.500	0.0281	0.0626	0.025	-	06/25/2025 18:52	JWN,NIC4
126	L2535971-07 WG2080030	2.500	2.500	2.500	0.0156	0.0509	0.020	-	06/25/2025 18:55	JWN,NIC4
127	L2535971-08 WG2080030	2.500	2.500	2.500	0.0140	0.0494	0.020	-	06/25/2025 18:59	JWN,NIC4
128	L2535971-09 WG2080030	2.500	2.500	2.500	0.0195	0.0545	0.022	-	06/25/2025 19:02	JWN,NIC4
129	L2535971-10 WG2080030	2.500	2.500	2.500	0.0184	0.0535	0.021	-	06/25/2025 19:05	JWN,NIC4
130	L2535971-11 WG2080030	2.500	2.500	2.500	0.0230	0.0578	0.023	-	06/25/2025 19:09	JWN,NIC4
131	Check STD(5ug/L)	2.500	2.500	2.500	12.5151	11.7618	4.705	94.1	06/25/2025 19:12	JWN,NIC4
132	Check Blank	2.500	2.500	2.500	0.0086	0.0443	0.018	-	06/25/2025 19:15	JWN,NIC4
133	L2535971-12 WG2080030	2.500	2.500	2.500	0.0145	0.0499	0.020	-	06/25/2025 19:19	JWN,NIC4
134	L2537735-01 WG2082882	2.500	2.500	2.500	0.0127	0.0482	0.019	-	06/25/2025 19:22	JWN,NIC4

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
135	xl2535838-01 wg2081838	2.500	2.500	2.500	0.1838	0.2085	0.083	-	06/25/2025 19:26	JWN,NIC4
136	xl2535768-01 wg2081838	2.500	2.500	2.500	-0.0122	0.0248	0.010	-	06/25/2025 19:29	JWN,NIC4
137	l2537681-01 wg2081838	2.500	2.500	2.500	0.0245	0.0592	0.024	-	06/25/2025 19:32	JWN,NIC4
138	wg2082787-1 wg2082787	2.500	2.500	2.500	0.0443	0.0778	0.031	-	06/25/2025 19:35	JWN,NIC4
139	wg2082787-2 wg2082787	2.500	2.500	2.500	2.4517	2.3333	0.933	-	06/25/2025 19:39	JWN,NIC4
140	l2535941-01 wg2082787	2.500	2.500	2.500	0.0800	0.1112	0.044	-	06/25/2025 19:42	JWN,NIC4
141	wg2082787-3 wg2082787	2.500	2.500	2.500	11.8450	11.1340	4.454	-	06/25/2025 19:45	JWN,NIC4
142	wg2082787-4 wg2082787	2.500	2.500	2.500	0.0689	0.1008	0.040	-	06/25/2025 19:49	JWN,NIC4
143	Check STD(5ug/L)	2.500	2.500	2.500	12.9149	12.1364	4.855	97.1	06/25/2025 19:52	JWN,NIC4
144	Check Blank	2.500	2.500	2.500	0.0105	0.0461	0.018	-	06/25/2025 19:55	JWN,NIC4

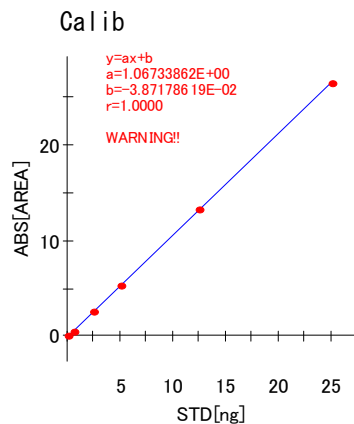
Title :
 Date : 6/25/2025
 Name :

Method

STD
 HONH3CI : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

SMP
 HONH3CI : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec



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	0.0184	0.0535	-	06/25/2025 06:42	JWN,NIC4
2	0.200	2.500	2.500	2.500	0.500	0.5506	0.5521	10.4	06/25/2025 06:45	JWN,NIC4
3	1.000	2.500	2.500	2.500	2.500	2.5216	2.3988	4.0	06/25/2025 06:48	JWN,NIC4
4	2.000	2.500	2.500	2.500	5.000	5.2547	4.9595	0.8	06/25/2025 07:05	JWN,NIC4
5	5.000	2.500	2.500	2.500	12.500	13.343	12.5378	0.3	06/25/2025 06:55	JWN,NIC4
6	10.000	2.500	2.500	2.500	25.000	26.642	24.9983	0.0	06/25/2025 06:58	JWN,NIC4

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	L2535896-01 WG2079950	2.500	2.500	2.500	0.0244	0.0591	0.024	-	06/25/2025 21:16	JTS,NIC4
2	L2535896-02 WG2079950	2.500	2.500	2.500	0.0431	0.0767	0.031	-	06/25/2025 21:19	JTS,NIC4
3	L2535896-03 WG2079950	2.500	2.500	2.500	0.0301	0.0645	0.026	-	06/25/2025 21:22	JTS,NIC4
4	L2535896-04 WG2079950	2.500	2.500	2.500	0.0126	0.0481	0.019	-	06/25/2025 21:26	JTS,NIC4
5	L2535896-05 WG2079950	2.500	2.500	2.500	0.0056	0.0415	0.017	-	06/25/2025 21:29	JTS,NIC4
6	WG2080317-1 WG2080317	2.500	2.500	2.500	0.0180	0.0531	0.021	-	06/25/2025 21:33	JTS,NIC4

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG2080317-2 WG2080317	2.500	2.500	2.500	2.5370	2.4132	0.965	-	06/25/2025 21:36	JTS,NIC4
8	I2535888-01 WG2080317	2.500	2.500	2.500	0.4954	0.5004	0.200	-	06/25/2025 21:39	JTS,NIC4
9	WG2080317-3 WG2080317	2.500	2.500	2.500	12.6312	11.8706	4.748	-	06/25/2025 21:43	JTS,NIC4
10	WG2080317-4 WG2080317	2.500	2.500	2.500	0.5293	0.5322	0.213	-	06/25/2025 21:46	JTS,NIC4
11	Check STD(5ug/L)	2.500	2.500	2.500	12.6075	11.8484	4.739	94.8	06/25/2025 21:49	JTS,NIC4
12	Check Blank	2.500	2.500	2.500	0.0153	0.0506	0.020	-	06/25/2025 21:53	JTS,NIC4
13	I2536054-01 WG2080317	2.500	2.500	2.500	0.3053	0.3223	0.129	-	06/25/2025 21:57	JTS,NIC4
14	I2536112-01 WG2080317	2.500	2.500	2.500	0.2251	0.2472	0.099	-	06/25/2025 22:01	JTS,NIC4
15	I2536112-02 WG2080317	2.500	2.500	2.500	0.1822	0.2070	0.083	-	06/25/2025 22:04	JTS,NIC4
16	I2536497-01 WG2080317	2.500	2.500	2.500	0.1900	0.2143	0.086	-	06/25/2025 22:07	JTS,NIC4
17	WG2080911-1 WG2080911	2.500	2.500	2.500	0.0071	0.0429	0.017	-	06/25/2025 22:47	JTS,NIC4
18	WG2080911-2 WG2080911	2.500	2.500	2.500	2.4441	2.3262	0.930	-	06/25/2025 22:50	JTS,NIC4
19	L2536268-02 WG2080911	2.500	2.500	2.500	0.0159	0.0512	0.020	-	06/25/2025 22:53	JTS,NIC4
20	WG2080911-3 WG2080911	2.500	2.500	2.500	12.5226	11.7688	4.708	-	06/25/2025 22:57	JTS,NIC4
21	WG2080911-4 WG2080911	2.500	2.500	2.500	12.3289	11.5873	4.635	-	06/25/2025 23:00	JTS,NIC4
22	L2536216-01 WG2080911	2.500	2.500	2.500	0.0229	0.0577	0.023	-	06/25/2025 23:03	JTS,NIC4
23	Check STD(5ug/L)	2.500	2.500	2.500	13.0234	12.2380	4.895	97.9	06/25/2025 23:07	JTS,NIC4
24	Check Blank	2.500	2.500	2.500	0.0110	0.0466	0.019	-	06/25/2025 23:10	JTS,NIC4
25	L2536268-03 WG2080911	2.500	2.500	2.500	0.0075	0.0433	0.017	-	06/25/2025 23:26	JTS,NIC4
26	L2536268-04 WG2080911	2.500	2.500	2.500	0.0104	0.0460	0.018	-	06/25/2025 23:29	JTS,NIC4
27	L2536268-08 WG2080911	2.500	2.500	2.500	0.0123	0.0478	0.019	-	06/25/2025 23:33	JTS,NIC4
28	L2536268-09 WG2080911	2.500	2.500	2.500	0.0109	0.0465	0.019	-	06/25/2025 23:36	JTS,NIC4
29	L2536268-10 WG2080911	2.500	2.500	2.500	0.0108	0.0464	0.019	-	06/25/2025 23:39	JTS,NIC4
30	L2536281-01 WG2080911	2.500	2.500	2.500	0.0224	0.0573	0.023	-	06/25/2025 23:42	JTS,NIC4
31	L2536281-02 WG2080911	2.500	2.500	2.500	0.0702	0.1020	0.041	-	06/25/2025 23:46	JTS,NIC4
32	L2536281-03 WG2080911	2.500	2.500	2.500	0.0100	0.0456	0.018	-	06/25/2025 23:49	JTS,NIC4
33	L2536281-04 WG2080911	2.500	2.500	2.500	0.0613	0.0937	0.037	-	06/25/2025 23:52	JTS,NIC4
34	L2536281-05 WG2080911	2.500	2.500	2.500	0.0195	0.0545	0.022	-	06/25/2025 23:56	JTS,NIC4
35	Check STD(5ug/L)	2.500	2.500	2.500	12.9936	12.2101	4.884	97.7	06/25/2025 23:59	JTS,NIC4
36	Check Blank	2.500	2.500	2.500	0.0059	0.0418	0.017	-	06/26/2025 00:02	JTS,NIC4
37	Check STD(5ug/L)	2.500	2.500	2.500	12.7254	11.9588	4.784	95.7	06/26/2025 00:06	JTS,NIC4
38	Check Blank	2.500	2.500	2.500	0.0112	0.0468	0.019	-	06/26/2025 00:09	JTS,NIC4

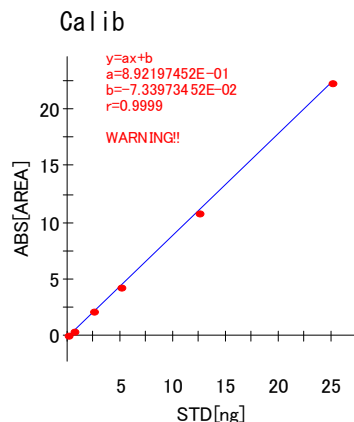
Title :
 Date : 6/26/2025
 Name :

Method

STD
 HONH3CI : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

SMP
 HONH3CI : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec



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	0.0083	0.0916	-	06/26/2025 07:14	CME,NIC1
2	0.200	2.500	2.500	2.500	0.500	0.4168	0.5494	9.9	06/26/2025 07:17	CME,NIC1
3	1.000	2.500	2.500	2.500	2.500	2.2097	2.5590	2.4	06/26/2025 07:20	CME,NIC1
4	2.000	2.500	2.500	2.500	5.000	4.3210	4.9254	1.5	06/26/2025 07:24	CME,NIC1
5	5.000	2.500	2.500	2.500	12.500	10.841	12.2333	2.1	06/26/2025 07:27	CME,NIC1
6	10.000	2.500	2.500	2.500	25.000	22.357	25.1414	0.6	06/26/2025 07:30	CME,NIC1

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recover [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	6.8739	7.7867	3.115	-	06/26/2025 07:45	CME,NIC1
2	ICB	2.500	2.500	2.500	0.0066	0.0897	0.036	-	06/26/2025 07:48	CME,NIC1
3	L2537033-05 WG2082857	2.500	2.500	2.500	0.0461	0.1339	0.054	-	06/26/2025 08:05	CME,NIC1
4	L2538487-01 WG2082857	2.500	2.500	2.500	0.0209	0.1057	0.042	-	06/26/2025 08:09	CME,NIC1
5	L2538487-02 WG2082857	2.500	2.500	2.500	0.0659	0.1561	0.062	-	06/26/2025 08:12	CME,NIC1
6	L2538487-04 WG2082857	2.500	2.500	2.500	0.0623	0.1521	0.061	-	06/26/2025 08:15	CME,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recover [%]	M. TIME	Note
7	L2538487-05 WG2082857	2.500	2.500	2.500	0.0584	0.1477	0.059	-	06/26/2025 08:19	CME,NIC1
8	L2538487-06 WG2082857	2.500	2.500	2.500	0.0556	0.1446	0.058	-	06/26/2025 08:22	CME,NIC1
9	L2538487-07 WG2082857	2.500	2.500	2.500	0.0390	0.1260	0.050	-	06/26/2025 08:25	CME,NIC1
10	L2538487-08 WG2082857	2.500	2.500	2.500	0.0117	0.0954	0.038	-	06/26/2025 08:29	CME,NIC1
11	L2538487-09 WG2082857	2.500	2.500	2.500	0.0139	0.0978	0.039	-	06/26/2025 08:32	CME,NIC1
12	L2538487-10 WG2082857	2.500	2.500	2.500	0.0176	0.1020	0.041	-	06/26/2025 08:35	CME,NIC1
13	Check STD(5ug/L)	2.500	2.500	2.500	10.6659	12.0369	4.815	96.3	06/26/2025 08:39	CME,NIC1
14	Check Blank	2.500	2.500	2.500	0.0079	0.0911	0.036	-	06/26/2025 08:42	CME,NIC1
15	L2538487-11 WG2082857	2.500	2.500	2.500	0.0146	0.0986	0.039	-	06/26/2025 08:45	CME,NIC1
16	L2538487-12 WG2082857	2.500	2.500	2.500	0.0126	0.0964	0.039	-	06/26/2025 08:49	CME,NIC1
17	WG2083284-1 WG2083284	2.500	2.500	2.500	0.0126	0.0964	0.039	-	06/26/2025 08:52	CME,NIC1
18	WG2083284-2 WG2083284	2.500	2.500	2.500	2.4894	2.8725	1.149	-	06/26/2025 08:55	CME,NIC1
19	I2538013-01 WG2083284	2.500	2.500	2.500	0.0309	0.1169	0.047	-	06/26/2025 08:59	CME,NIC1
20	WG2083284-3 WG2083284	2.500	2.500	2.500	10.1652	11.4757	4.590	-	06/26/2025 09:02	CME,NIC1
21	WG2083284-4 WG2083284	2.500	2.500	2.500	10.7289	12.1075	4.843	-	06/26/2025 09:05	CME,NIC1
22	I2537655-03 WG2083284	2.500	2.500	2.500	0.0156	0.0998	0.040	-	06/26/2025 09:08	CME,NIC1
23	I2537655-04 WG2083284	2.500	2.500	2.500	0.0161	0.1003	0.040	-	06/26/2025 09:12	CME,NIC1
24	I2537655-05 WG2083284	2.500	2.500	2.500	0.0177	0.1021	0.041	-	06/26/2025 09:15	CME,NIC1
25	Check STD(5ug/L)	2.500	2.500	2.500	10.6795	12.0521	4.821	96.4	06/26/2025 09:18	CME,NIC1
26	Check Blank	2.500	2.500	2.500	0.0109	0.0945	0.038	-	06/26/2025 09:22	CME,NIC1
27	I2538013-02 WG2083284	2.500	2.500	2.500	0.0192	0.1038	0.042	-	06/26/2025 09:25	CME,NIC1
28	I2538013-03 WG2083284	2.500	2.500	2.500	0.0138	0.0977	0.039	-	06/26/2025 09:28	CME,NIC1
29	I2538013-04 WG2083284	2.500	2.500	2.500	0.0126	0.0964	0.039	-	06/26/2025 09:32	CME,NIC1
30	I2538013-05 WG2083284	2.500	2.500	2.500	0.6252	0.7830	0.313	-	06/26/2025 09:35	CME,NIC1
31	I2538013-06 WG2083284	2.500	2.500	2.500	0.0168	0.1011	0.040	-	06/26/2025 09:38	CME,NIC1
32	I2538013-07 WG2083284	2.500	2.500	2.500	0.0206	0.1054	0.042	-	06/26/2025 09:41	CME,NIC1
33	WG2083146-1 WG2083146	2.500	2.500	2.500	0.0130	0.0968	0.039	-	06/26/2025 10:23	CME,NIC1
34	WG2083146-2 WG2083146	2.500	2.500	2.500	2.1322	2.4721	0.989	-	06/26/2025 10:27	CME,NIC1
35	WG2083146-3 WG2083146	2.500	2.500	2.500	2.4326	2.8088	1.124	-	06/26/2025 10:30	CME,NIC1
36	L2537641-01 WG2083146	2.500	2.500	2.500	0.0461	0.1339	0.054	-	06/26/2025 10:33	CME,NIC1
37	Check STD(5ug/L)	2.500	2.500	2.500	10.6210	11.9866	4.795	95.9	06/26/2025 10:37	CME,NIC1
38	Check Blank	2.500	2.500	2.500	0.0145	0.0985	0.039	-	06/26/2025 10:40	CME,NIC1

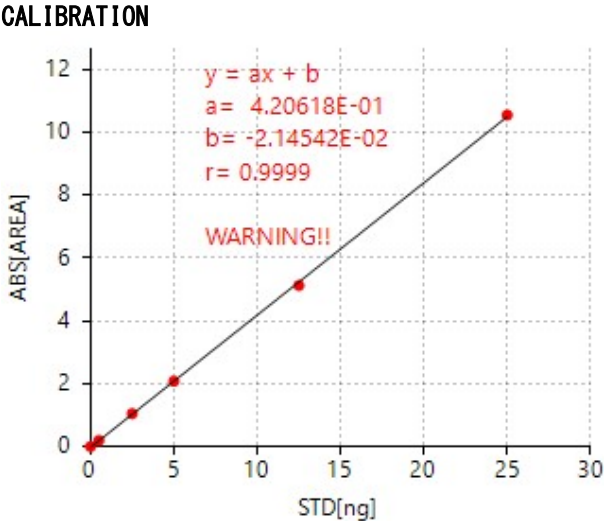
No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recover [%]	M. TIME	Note
39	L2537781-01 WG2083146	2.500	2.500	2.500	0.0286	0.1143	0.046	-	06/26/2025 10:43	CME,NIC1
40	L2537781-02 WG2083146	2.500	2.500	2.500	0.0212	0.1060	0.042	-	06/26/2025 10:46	CME,NIC1
41	WG2082997-1 WG2082997	2.500	2.500	2.500	0.0147	0.0987	0.039	-	06/26/2025 10:50	CME,NIC1
42	WG2082997-2 WG2082997	2.500	2.500	2.500	1.8775	2.1866	0.875	-	06/26/2025 10:53	CME,NIC1
43	L2538038-02 WG2082997	2.500	2.500	2.500	0.0137	0.0976	0.039	-	06/26/2025 10:56	CME,NIC1
44	WG2082997-3 WG2082997	2.500	2.500	2.500	11.0419	12.4583	4.983	-	06/26/2025 11:00	CME,NIC1
45	WG2082997-4 WG2082997	2.500	2.500	2.500	11.1777	12.6105	5.044	-	06/26/2025 11:03	CME,NIC1
46	L2538038-01 WG2082997	2.500	2.500	2.500	0.0369	0.1236	0.049	-	06/26/2025 11:06	CME,NIC1
47	L2538846-01 WG2082997	2.500	2.500	2.500	0.1824	0.2867	0.115	-	06/26/2025 11:09	CME,NIC1
48	L2539206-01 WG2082291	2.500	2.500	2.500	0.0352	0.1217	0.049	-	06/26/2025 11:13	CME,NIC1
49	Check STD(5ug/L)	2.500	2.500	2.500	10.7259	12.1042	4.842	96.8	06/26/2025 11:16	CME,NIC1
50	Check Blank	2.500	2.500	2.500	0.0127	0.0965	0.039	-	06/26/2025 11:19	CME,NIC1
51	WG2083266-1 WG2083266	2.500	2.500	2.500	0.0157	0.0999	0.040	-	06/26/2025 11:23	CME,NIC1
52	WG2083266-2 WG2083266	2.500	2.500	2.500	2.2462	2.5999	1.040	-	06/26/2025 11:26	CME,NIC1
53	L2537679-01 WG2083266	2.500	2.500	2.500	0.0210	0.1058	0.042	-	06/26/2025 11:29	CME,NIC1
54	WG2083266-3 WG2083266	2.500	2.500	2.500	11.3195	12.7695	5.108	-	06/26/2025 11:32	CME,NIC1
55	WG2083266-4 WG2083266	2.500	2.500	2.500	0.0209	0.1057	0.042	-	06/26/2025 11:36	CME,NIC1
56	L2537679-04 WG2083266	2.500	2.500	2.500	0.0187	0.1032	0.041	-	06/26/2025 11:39	CME,NIC1
57	L2537679-07 WG2083266	2.500	2.500	2.500	0.0161	0.1003	0.040	-	06/26/2025 11:42	CME,NIC1
58	L2537679-10 WG2083266	2.500	2.500	2.500	0.0137	0.0976	0.039	-	06/26/2025 11:46	CME,NIC1
59	Check STD(5ug/L)	2.500	2.500	2.500	10.3801	11.7166	4.687	93.7	06/26/2025 13:18	CME,NIC1
60	Check Blank	2.500	2.500	2.500	0.0127	0.0965	0.039	-	06/26/2025 13:21	CME,NIC1
61	WG2083841-1 WG2083841	2.500	2.500	2.500	0.0440	0.1316	0.053	-	06/26/2025 14:05	CME,NIC1
62	WG2083841-2 WG2083841	2.500	2.500	2.500	2.1659	2.5099	1.004	-	06/26/2025 14:08	CME,NIC1
63	I2538487-03 WG2083841	2.500	2.500	2.500	0.0527	0.1413	0.057	-	06/26/2025 14:11	CME,NIC1
64	WG2083841-3 WG2083841	2.500	2.500	2.500	10.7285	12.1071	4.843	-	06/26/2025 14:14	CME,NIC1
65	WG2083841-4 WG2083841	2.500	2.500	2.500	10.7524	12.1339	4.854	-	06/26/2025 14:18	CME,NIC1
66	I2538487-01 WG2083841	2.500	2.500	2.500	0.0483	0.1364	0.055	-	06/26/2025 14:21	CME,NIC1
67	I2538487-02 WG2083841	2.500	2.500	2.500	0.0594	0.1488	0.060	-	06/26/2025 14:24	CME,NIC1
68	I2538487-04 WG2083841	2.500	2.500	2.500	0.0593	0.1487	0.059	-	06/26/2025 14:28	CME,NIC1
69	I2538487-05 WG2083841	2.500	2.500	2.500	0.0505	0.1389	0.056	-	06/26/2025 14:31	CME,NIC1
70	I2538487-06 WG2083841	2.500	2.500	2.500	0.0619	0.1516	0.061	-	06/26/2025 14:34	CME,NIC1

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	10.6673	12.0385	4.815	96.3	06/26/2025 14:38	CME,NIC1
72	Check Blank	2.500	2.500	2.500	0.0084	0.0917	0.037	-	06/26/2025 14:41	CME,NIC1
73	I2538487-07 WG2083841	2.500	2.500	2.500	0.0747	0.1660	0.066	-	06/26/2025 14:44	CME,NIC1
74	I2538487-08 WG2083841	2.500	2.500	2.500	0.0467	0.1346	0.054	-	06/26/2025 14:47	CME,NIC1
75	I2538487-09 WG2083841	2.500	2.500	2.500	0.0487	0.1369	0.055	-	06/26/2025 14:51	CME,NIC1
76	I2538487-10 WG2083841	2.500	2.500	2.500	0.0499	0.1382	0.055	-	06/26/2025 14:54	CME,NIC1
77	I2538487-11 WG2083841	2.500	2.500	2.500	0.0492	0.1374	0.055	-	06/26/2025 14:57	CME,NIC1
78	Check STD(5ug/L)	2.500	2.500	2.500	10.4628	11.8093	4.724	94.5	06/26/2025 15:58	CME,NIC1
79	Check Blank	2.500	2.500	2.500	0.0114	0.0950	0.038	-	06/26/2025 16:02	CME,NIC1
80	xxV1 LCS HG2325261340RC	2.500	2.500	2.500	2.8179	3.2406	1.296	-	06/26/2025 16:13	CME,NIC1
81	xxV2 LCS HG2325261340RC	2.500	2.500	2.500	2.0075	2.3323	0.933	-	06/26/2025 16:16	CME,NIC1

TITLE
DATE2025/06/26 09:37
UNITRA-7000A[SN:241040193] + SANPRA 3 (UNIT A) [SN:241070085]
OPERATOR

METHOD
Method Name : Method1
Pretreatment : No

P2: 10w/v% SnCl2 : 0.3mL



STD TABLE											
No.	SMP NO.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	DEV [%]	MEAS TIME	NOTE
1	1	0.000	2.500	2.500	2.500	0.000	0.003773	0.0600	-	06/26/2025	MJR, NIC5
2	2	0.200	2.500	2.500	2.500	0.500	0.197929	0.5216	4.3	06/26/2025	MJR, NIC5
3	3	1.000	2.500	2.500	2.500	2.500	1.051794	2.5516	2.1	06/26/2025	MJR, NIC5
4	4	2.000	2.500	2.500	2.500	5.000	2.082884	5.0030	0.1	06/26/2025	MJR, NIC5
5	5	5.000	2.500	2.500	2.500	12.500	5.126956	12.2401	2.1	06/26/2025	MJR, NIC5
6	6	10.000	2.500	2.500	2.500	25.000	10.546037	25.1237	0.5	06/26/2025	MJR, NIC5

SMP TABLE												
No.	SMP NO.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	RECOVERY [%]	MEAS TIME	NOTE	
1	7	ICV	2.500	2.500	2.500	3.274820	7.8367	3.135	-	06/26/2025 09:59	MJR, NIC5	
2	8	ICB	2.500	2.500	2.500	0.004220	0.0610	0.024	-	06/26/2025 10:02	MJR, NIC5	
3	9	WG2083468-1 WG2083468	2.500	2.500	2.500	0.008157	0.0704	0.028	-	06/26/2025 10:09	MJR, NIC5	
4	10	WG2083468-2 WG2083468	2.500	2.500	2.500	1.076525	2.6104	1.044	-	06/26/2025 10:12	MJR, NIC5	
5	11	L2538431-01 WG2083468	2.500	2.500	2.500	0.004449	0.0616	0.025	-	06/26/2025 10:15	MJR, NIC5	
6	12	WG2083468-3 WG2083468	2.500	2.500	2.500	5.288577	12.6244	5.050	-	06/26/2025 10:18	MJR, NIC5	
7	13	WG2083468-4 WG2083468	2.500	2.500	2.500	0.009685	0.0740	0.030	-	06/26/2025 10:21	MJR, NIC5	
8	14	L2538431-02 WG2083468	2.500	2.500	2.500	0.004982	0.0629	0.025	-	06/26/2025 10:24	MJR, NIC5	
9	15	WG2083551-1 WG2083551	2.500	2.500	2.500	0.004557	0.0618	0.025	-	06/26/2025 10:27	MJR, NIC5	
10	16	WG2083551-2 WG2083551	2.500	2.500	2.500	1.088611	2.6391	1.056	-	06/26/2025 10:30	MJR, NIC5	
11	17	I2536971-01 WG2083551	2.500	2.500	2.500	0.008050	0.0701	0.028	-	06/26/2025 10:33	MJR, NIC5	
12	18	WG2083551-3 WG2083551	2.500	2.500	2.500	5.214506	12.4483	4.979	-	06/26/2025 10:36	MJR, NIC5	
13	19	Check STD (5.000ug/L)	2.500	2.500	2.500	5.138836	12.2684	4.907	98.1	06/26/2025 10:39	MJR, NIC5	
14	20	Check Blank	2.500	2.500	2.500	0.003184	0.0586	0.023	-	06/26/2025 10:42	MJR, NIC5	
15	21	WG2083551-4 WG2083551	2.500	2.500	2.500	0.009995	0.0748	0.030	-	06/26/2025 10:45	MJR, NIC5	
16	22	I2535768-01 WG2083551	2.500	2.500	2.500	0.004457	0.0616	0.025	-	06/26/2025 10:47	MJR, NIC5	
17	23	I2535838-01 WG2083551	2.500	2.500	2.500	0.091469	0.2685	0.107	-	06/26/2025 10:50	MJR, NIC5	
18	24	I2538311-01 WG2083551	2.500	2.500	2.500	0.035759	0.1360	0.054	-	06/26/2025 10:53	MJR, NIC5	
19	25	WG2083555-1 WG2083555	2.500	2.500	2.500	-0.001334	0.0478	0.019	-	06/26/2025 10:56	MJR, NIC5	
20	26	WG2083555-2 WG2083555	2.500	2.500	2.500	1.098749	2.6632	1.065	-	06/26/2025 10:59	MJR, NIC5	
21	27	I2537671-02 WG2083555	2.500	2.500	2.500	0.011846	0.0792	0.032	-	06/26/2025 11:02	MJR, NIC5	
22	28	WG2083555-3 WG2083555	2.500	2.500	2.500	5.221703	12.4654	4.986	-	06/26/2025 11:05	MJR, NIC5	
23	29	WG2083555-4 WG2083555	2.500	2.500	2.500	0.014614	0.0858	0.034	-	06/26/2025 11:08	MJR, NIC5	
24	30	I2535869-11 WG2083555	2.500	2.500	2.500	0.005473	0.0640	0.026	-	06/26/2025 11:11	MJR, NIC5	
25	31	Check STD (5.000ug/L)	2.500	2.500	2.500	5.106943	12.1925	4.877	97.5	06/26/2025 11:14	MJR, NIC5	
26	32	Check Blank	2.500	2.500	2.500	0.002837	0.0578	0.023	-	06/26/2025 11:17	MJR, NIC5	
27	33	I2535869-12 WG2083555	2.500	2.500	2.500	0.005767	0.0647	0.026	-	06/26/2025 11:20	MJR, NIC5	

No.	SMP NO.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	RECOVERY [%]	MEAS TIME	NOTE
28	34	L2539378-01 WG2083304	2. 500	2. 500	2. 500	0. 002486	0. 0569	0. 023	-	06/26/2025 11:53	MJR, NIC5
29	35	WG2083484-1 WG2083484	2. 500	2. 500	2. 500	0. 000699	0. 0527	0. 021	-	06/26/2025 11:56	MJR, NIC5
30	36	WG2083484-2 WG2083484	2. 500	2. 500	2. 500	1. 072653	2. 6012	1. 040	-	06/26/2025 11:59	MJR, NIC5
31	37	L2536270-01 WG2083484	2. 500	2. 500	2. 500	0. 014556	0. 0856	0. 034	-	06/26/2025 12:02	MJR, NIC5
32	38	WG2083484-3 WG2083484	2. 500	2. 500	2. 500	5. 415288	12. 9256	5. 170	-	06/26/2025 12:05	MJR, NIC5
33	39	WG2083484-4 WG2083484	2. 500	2. 500	2. 500	0. 095970	0. 2792	0. 112	-	06/26/2025 12:08	MJR, NIC5
34	40	WG2083486-1 WG2083486	2. 500	2. 500	2. 500	0. 003951	0. 0604	0. 024	-	06/26/2025 12:11	MJR, NIC5
35	41	WG2083486-2 WG2083486	2. 500	2. 500	2. 500	1. 083490	2. 6270	1. 051	-	06/26/2025 12:14	MJR, NIC5
36	42	L2536289-02 WG2083486	2. 500	2. 500	2. 500	0. 004623	0. 0620	0. 025	-	06/26/2025 12:17	MJR, NIC5
37	43	Check STD (5. 000ug/L)	2. 500	2. 500	2. 500	5. 079591	12. 1275	4. 851	97. 0	06/26/2025 12:20	MJR, NIC5
38	44	Check Blank	2. 500	2. 500	2. 500	0. 002737	0. 0575	0. 023	-	06/26/2025 12:23	MJR, NIC5
39	45	WG2083486-3 WG2083486	2. 500	2. 500	2. 500	5. 317398	12. 6929	5. 077	-	06/26/2025 12:26	MJR, NIC5
40	46	WG2083486-4 WG2083486	2. 500	2. 500	2. 500	0. 056390	0. 1851	0. 074	-	06/26/2025 12:29	MJR, NIC5
41	47	WG2083671-1 WG2083671	2. 500	2. 500	2. 500	0. 011734	0. 0789	0. 032	-	06/26/2025 12:31	MJR, NIC5
42	48	WG2083671-2 WG2083671	2. 500	2. 500	2. 500	1. 079984	2. 6186	1. 047	-	06/26/2025 12:34	MJR, NIC5
43	49	L2537103-01 WG2083671	2. 500	2. 500	2. 500	0. 007734	0. 0694	0. 028	-	06/26/2025 12:37	MJR, NIC5
44	50	WG2083671-3 WG2083671	2. 500	2. 500	2. 500	5. 171006	12. 3448	4. 938	-	06/26/2025 12:40	MJR, NIC5
45	51	WG2083671-4 WG2083671	2. 500	2. 500	2. 500	0. 006483	0. 0664	0. 027	-	06/26/2025 12:43	MJR, NIC5
46	52	xl2539236-11 WG2083671	2. 500	2. 500	2. 500	0. 009882	0. 0745	0. 030	-	06/26/2025 12:46	MJR, NIC5
47	53	L2538024-01 WG2083671	2. 500	2. 500	2. 500	0. 022635	0. 1048	0. 042	-	06/26/2025 12:49	MJR, NIC5
48	54	WG2083765-1 WG2083765	2. 500	2. 500	2. 500	0. 023829	0. 1077	0. 043	-	06/26/2025 13:45	MJR, NIC5
49	55	Check STD (5. 000ug/L)	2. 500	2. 500	2. 500	5. 027762	12. 0043	4. 802	96. 0	06/26/2025 13:48	MJR, NIC5
50	56	Check Blank	2. 500	2. 500	2. 500	0. 004258	0. 0611	0. 024	-	06/26/2025 13:51	MJR, NIC5
51	57	WG2083765-2 WG2083765	2. 500	2. 500	2. 500	1. 049241	2. 5455	1. 018	-	06/26/2025 13:54	MJR, NIC5
52	58	L2538381-01 WG2083765	2. 500	2. 500	2. 500	0. 496449	1. 2313	0. 493	-	06/26/2025 13:57	MJR, NIC5
53	59	WG2083765-3 WG2083765	2. 500	2. 500	2. 500	5. 727139	13. 6670	5. 467	-	06/26/2025 14:00	MJR, NIC5
54	60	WG2083765-4 WG2083765	2. 500	2. 500	2. 500	0. 609513	1. 5001	0. 600	-	06/26/2025 14:03	MJR, NIC5
55	61	L2538381-02 WG2083765	2. 500	2. 500	2. 500	0. 411390	1. 0291	0. 412	-	06/26/2025 14:06	MJR, NIC5
56	62	L2538381-03 WG2083765	2. 500	2. 500	2. 500	0. 423617	1. 0581	0. 423	-	06/26/2025 14:09	MJR, NIC5
57	63	L2538381-04 WG2083765	2. 500	2. 500	2. 500	0. 462457	1. 1505	0. 460	-	06/26/2025 14:12	MJR, NIC5
58	64	L2538381-05 WG2083765	2. 500	2. 500	2. 500	0. 357583	0. 9011	0. 360	-	06/26/2025 14:15	MJR, NIC5
59	65	L2538381-06 WG2083765	2. 500	2. 500	2. 500	0. 316606	0. 8037	0. 321	-	06/26/2025 14:18	MJR, NIC5
60	66	L2538381-07 WG2083765	2. 500	2. 500	2. 500	0. 660973	1. 6224	0. 649	-	06/26/2025 14:21	MJR, NIC5
61	67	Check STD (5. 000ug/L)	2. 500	2. 500	2. 500	5. 042259	12. 0387	4. 815	96. 3	06/26/2025 14:24	MJR, NIC5
62	68	Check Blank	2. 500	2. 500	2. 500	0. 003249	0. 0587	0. 023	-	06/26/2025 14:27	MJR, NIC5
63	69	L2538381-08 WG2083765	2. 500	2. 500	2. 500	0. 738031	1. 8056	0. 722	-	06/26/2025 14:30	MJR, NIC5
64	70	L2538381-09 WG2083765	2. 500	2. 500	2. 500	0. 245421	0. 6345	0. 254	-	06/26/2025 14:33	MJR, NIC5
65	71	L2538846-02 WG2083765	2. 500	2. 500	2. 500	0. 022001	0. 1033	0. 041	-	06/26/2025 14:35	MJR, NIC5
66	72	WG2083763-1 WG2083763	2. 500	2. 500	2. 500	0. 016051	0. 0892	0. 036	-	06/26/2025 14:46	MJR, NIC5
67	73	WG2083763-2 WG2083763	2. 500	2. 500	2. 500	1. 059956	2. 5710	1. 028	-	06/26/2025 14:49	MJR, NIC5
68	74	L2536512-01 WG2083763	2. 500	2. 500	2. 500	0. 021170	0. 1013	0. 041	-	06/26/2025 14:52	MJR, NIC5
69	75	WG2083763-3 WG2083763	2. 500	2. 500	2. 500	5. 196563	12. 4056	4. 962	-	06/26/2025 14:55	MJR, NIC5
70	76	WG2083763-4 WG2083763	2. 500	2. 500	2. 500	0. 036203	0. 1371	0. 055	-	06/26/2025 14:58	MJR, NIC5
71	77	L2536512-02 WG2083763	2. 500	2. 500	2. 500	0. 029204	0. 1204	0. 048	-	06/26/2025 15:01	MJR, NIC5
72	78	L2539236-01 WG2083763	2. 500	2. 500	2. 500	0. 018244	0. 0944	0. 038	-	06/26/2025 15:04	MJR, NIC5
73	79	Check STD (5. 000ug/L)	2. 500	2. 500	2. 500	5. 165977	12. 3329	4. 933	98. 7	06/26/2025 15:07	MJR, NIC5
74	80	Check Blank	2. 500	2. 500	2. 500	0. 002365	0. 0566	0. 023	-	06/26/2025 15:10	MJR, NIC5
75	1	L2539236-02 WG2083763	2. 500	2. 500	2. 500	0. 020385	0. 0995	0. 040	-	06/26/2025 15:13	MJR, NIC5
76	2	L2539236-03 WG2083763	2. 500	2. 500	2. 500	0. 022366	0. 1042	0. 042	-	06/26/2025 15:16	MJR, NIC5
77	3	L2539236-04 WG2083763	2. 500	2. 500	2. 500	0. 027398	0. 1161	0. 046	-	06/26/2025 15:19	MJR, NIC5
78	4	L2539236-05 WG2083763	2. 500	2. 500	2. 500	0. 028614	0. 1190	0. 048	-	06/26/2025 15:22	MJR, NIC5
79	5	L2539236-06 WG2083763	2. 500	2. 500	2. 500	0. 031392	0. 1256	0. 050	-	06/26/2025 15:25	MJR, NIC5
80	6	L2539236-07 WG2083763	2. 500	2. 500	2. 500	0. 019650	0. 0977	0. 039	-	06/26/2025 15:27	MJR, NIC5
81	7	L2539236-08 WG2083763	2. 500	2. 500	2. 500	0. 018289	0. 0945	0. 038	-	06/26/2025 15:30	MJR, NIC5
82	8	L2539236-09 WG2083763	2. 500	2. 500	2. 500	0. 020659	0. 1001	0. 040	-	06/26/2025 15:33	MJR, NIC5
83	9	L2539236-10 WG2083763	2. 500	2. 500	2. 500	0. 021045	0. 1010	0. 040	-	06/26/2025 15:36	MJR, NIC5
84	10	L2539236-11 WG2083763	2. 500	2. 500	2. 500	0. 019532	0. 0974	0. 039	-	06/26/2025 15:39	MJR, NIC5
85	11	Check STD (5. 000ug/L)	2. 500	2. 500	2. 500	5. 199785	12. 4133	4. 965	99. 3	06/26/2025 15:42	MJR, NIC5
86	12	Check Blank	2. 500	2. 500	2. 500	0. 003955	0. 0604	0. 024	-	06/26/2025 15:45	MJR, NIC5
87	13	L2539236-12 WG2083763	2. 500	2. 500	2. 500	0. 019847	0. 0982	0. 039	-	06/26/2025 15:48	MJR, NIC5
88	14	L2539236-13 WG2083763	2. 500	2. 500	2. 500	0. 018880	0. 0959	0. 038	-	06/26/2025 15:51	MJR, NIC5
89	15	L2539236-14 WG2083763	2. 500	2. 500	2. 500	0. 018636	0. 0953	0. 038	-	06/26/2025 15:54	MJR, NIC5

No.	SMP NO.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	RECOVERY [%]	MEAS TIME	NOTE
90	16	L2539236-15 WG2083763	2.500	2.500	2.500	0.017599	0.0928	0.037	-	06/26/2025 15:57	MJR, NIC5
91	17	WG2083826-1 WG2083826	2.500	2.500	2.500	0.032578	0.1285	0.051	-	06/26/2025 16:10	MJR, NIC5
92	18	WG2083826-2 WG2083826	2.500	2.500	2.500	1.105649	2.6796	1.072	-	06/26/2025 16:13	MJR, NIC5
93	19	L2537655-01 WG2083826	2.500	2.500	2.500	0.169688	0.4544	0.182	-	06/26/2025 16:16	MJR, NIC5
94	20	WG2083826-3 WG2083826	2.500	2.500	2.500	5.263639	12.5651	5.026	-	06/26/2025 16:19	MJR, NIC5
95	21	WG2083826-4 WG2083826	2.500	2.500	2.500	0.125758	0.3500	0.140	-	06/26/2025 16:22	MJR, NIC5
96	22	L2537655-02 WG2083826	2.500	2.500	2.500	0.038221	0.1419	0.057	-	06/26/2025 16:25	MJR, NIC5
97	23	Check STD (5.000ug/L)	2.500	2.500	2.500	5.184318	12.3765	4.951	99.0	06/26/2025 16:28	MJR, NIC5
98	24	Check Blank	2.500	2.500	2.500	0.001164	0.0538	0.022	-	06/26/2025 16:31	MJR, NIC5
99	25	WG2083680-1 WG2083680	2.500	2.500	2.500	0.014936	0.0865	0.035	-	06/26/2025 16:34	MJR, NIC5
100	26	WG2083680-2 WG2083680	2.500	2.500	2.500	1.402820	3.3861	1.354	-	06/26/2025 16:37	MJR, NIC5
101	27	L2538827-10 WG2083680	2.500	2.500	2.500	0.174626	0.4662	0.186	-	06/26/2025 16:40	MJR, NIC5
102	28	WG2083680-3 WG2083680	2.500	2.500	2.500	5.196343	12.4051	4.962	-	06/26/2025 16:43	MJR, NIC5
103	29	WG2083680-4 WG2083680	2.500	2.500	2.500	0.079725	0.2405	0.096	-	06/26/2025 16:46	MJR, NIC5
104	35	Check STD (5.000ug/L)	2.500	2.500	2.500	4.991973	11.9192	4.768	95.4	06/26/2025 16:49	MJR, NIC5
105	36	Check Blank	2.500	2.500	2.500	0.001797	0.0553	0.022	-	06/26/2025 16:52	MJR, NIC5

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

▪ 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
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	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		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




ISO/IEC GUIDE 34:2009

ISO/IEC 17025:2005



Page 3 of 3 Lot: D102-540



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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▪ 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
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	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		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

Quality Officer

Matthew Seebeck



ISO/IEC 17025:2005
ISO/IEC 17025:2005


Page 3 of 3 Lot: D105-540



A Waters Company

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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Certified Reference Material

▪ Certificate of Analysis ▪

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

▪ Certificate of Analysis ▪

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		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	-	-

▪ 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:

$$U_{\text{expanded}} = k * \text{SQRT}((U_{\text{char}})^2 + (U_{\text{homogen}})^2 + (U_{\text{LTS}})^2 + (U_{\text{STS}})^2 + (U_{\text{RSS}})^2)$$

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 its 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

Brian Miller

Matthew Seebeck





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

Page 1 of 4 Lot: D113-540

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Certified Reference Material

▪ 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

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, $\mu\text{g/L}$

k1 = y-intercept

k2 = slope

The instrument will plot peak height against concentration ($\mu\text{g/L}$).
The result is generated in $\mu\text{g/L}$. 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.

$$\text{Result, mg/L} = (\text{concentration, } \mu\text{g/L}) \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})$$

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, $\mu\text{g/L}$

k1 = y-intercept

k2 = slope

The instrument will plot peak height against concentration ($\mu\text{g/L}$).
The result is generated in $\mu\text{g/L}$. 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.

$$\text{Result, mg/L} = (\text{concentration, } \mu\text{g/L}) \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})$$

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).

$$\text{Result, mg/kg, wet} = ((\text{result, mg/L}) \times (\text{FV})) / \text{Wt}$$

$$\text{Result, mg/kg, dry wt} = (\text{Result, mg/kg wet}) / (\% \text{TS})$$

No.	Sample No. NAME	CURVE: WG2082519
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 xWG2082424-1 WG2082424	
4	10 xWG2082424-2 WG2082424	
5	11 xL2536123-01 WG2082424	
6	12 xWG2082424-3 WG2082424	
7	13 xWG2082424-4 WG2082424	
8	14 xL2539226-01 WG2082424	
9	15 WG2082367-1 WG2082367	
10	16 WG2082367-2 WG2082367	
11	17 L2537057-02 WG2082367	
12	18 WG2082367-3 WG2082367	
13	19 Check STD(5ug/L)	
14	20 Check Blank	
15	21 WG2082367-4 WG2082367	
16	22 L2537716-05 WG2082367	
17	23 WG2082327-1 WG2082327	
18	24 WG2082327-2 WG2082327	
19	25 WG2082327-3 WG2082327	
20	26 L2536870-02 WG2082327	
21	27 WG2082327-4 WG2082327	
22	28 WG2082327-5 WG2082327	
23	29 L2536870-01 WG2082327	
24	30 WG2080486-1 WG2080486	
25	31 Check STD(5ug/L)	
26	32 Check Blank	
27	33 WG2080486-2 WG2080486	
28	34 l2537795-01 WG2080486	
29	35 xWG2082424-2 WG2082424	
30	36 WG2080486-3 WG2080486	
31	37 WG2080486-4 WG2080486	
32	38 l2535071-02 WG2080486	
33	39 l2535071-03 WG2080486	
34	40 l2537823-02 WG2080486	
35	41 WG2082611-1 WG2082611	
36	42 WG2082611-2 WG2082611	
37	43 Check STD(5ug/L)	

38	44 Check Blank
39	45 L2538107-01 WG2082611
40	46 WG2082611-3 WG2082611
41	47 WG2082611-4 WG2082611
42	48 L2538107-02 WG2082611
43	49 L2539224-01 WG2082611
44	50 L2539224-02 WG2082611
45	51 xWG2082424-3 WG2082424
46	52 L2539224-03 WG2082611
47	53 WG2082646-1 WG2082646
48	54 WG2082646-2 WG2082646
49	55 Check STD(5ug/L)
50	56 Check Blank
51	57 L2536708-01 WG2082646
52	58 WG2082646-3 WG2082646
53	59 WG2082646-4 WG2082646
54	60 L2536708-02 WG2082646
55	61 L2536708-03 WG2082646
56	62 L2536708-04 WG2082646
57	63 CLRSOLTEST
58	64 WG2082600-1 WG2082600
59	65 WG2082600-2 WG2082600
60	66 L2536151-01 WG2082600
61	67 Check STD(5ug/L)
62	68 Check Blank
63	69 WG2082600-3 WG2082600
64	70 WG2082600-4 WG2082600
65	71 L2538069-01 WG2082600
66	72 L2538069-02 WG2082600
67	73 L2538069-03 WG2082600
68	74 L2538069-04 WG2082600
69	75 L2538764-01 WG2082600
70	76 L2538985-01 WG2082600
71	79 Check STD(5ug/L)
72	80 Check Blank
73	1 L2536431-06 WG2079465
74	2 WG2079465-5 WG2079465
75	3 WG2079465-6 WG2079465
76	4 L2536553-01 WG2079465
77	5 L2536553-02 WG2079465
78	6 L2537420-01 WG2081838
79	7 L2537426-01 WG2081838
80	8 WG2082770-1 WG2082770
81	9 WG2082770-2 WG2082770

82	10 L2538888-01 WG2082770
83	11 Check STD(5ug/L)
84	12 Check Blank
85	13 WG2082770-3 WG2082770
86	14 WG2082770-4 WG2082770
87	15 L2539226-01 WG2082770
88	16 L2535550-02 WG2079379
89	17 L2535550-03 WG2079379
90	18 L2535550-04 WG2079379
91	19 L2535550-05 WG2079379
92	20 L2535550-06 WG2079379
93	21 L2535550-07 WG2079379
94	22 L2535550-08 WG2079379
95	23 Check STD(5ug/L)
96	24 Check Blank
97	25 L2535550-09 WG2079379
98	26 L2535550-10 WG2079379
99	27 L2535700-02 WG2078477
100	28 L2535700-03 WG2078477
101	29 L2535700-04 WG2078477
102	30 L2535700-05 WG2078477
103	31 L2535967-04 WG2078477
104	32 L2535967-05 WG2078477
105	33 WG2078568-1 WG2078568
106	34 WG2078568-2 WG2078568
107	35 Check STD(5ug/L)
108	36 Check Blank
109	37 L2534129-13 WG2078568
110	38 WG2078568-3 WG2078568
111	39 WG2078568-4 WG2078568
112	40 L2534129-01 WG2078568
113	41 L2534129-02 WG2078568
114	42 L2534129-06 WG2078568
115	43 L2534129-07 WG2078568
116	44 L2534129-09 WG2078568
117	45 L2534129-10 WG2078568
118	46 L2534129-11 WG2078568
119	47 Check STD(5ug/L)
120	48 Check Blank
121	49 L2534129-12 WG2078568
122	50 L2534129-14 WG2078568
123	59 Check STD(5ug/L)
124	60 Check Blank

No.	Sample No. NAME	curve: WG2082519
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 wg2082882-1 wg2082882	
4	10 wg2082882-2 wg2082882	
5	11 L2538013-01 wg2082882	
6	12 wg2082882-3 wg2082882	
7	13 wg2082882-4 wg2082882	
8	14 L2538013-02 wg2082882	
9	15 wg2082882-5 wg2082882	
10	16 wg2082882-6 wg2082882	
11	17 L2536804-01 wg2082882	
12	18 L2537850-01 wg2082882	
13	19 Check STD(5ug/L)	
14	20 Check Blank	
15	21 L2538013-03 wg2082882	
16	22 L2538013-04 wg2082882	
17	23 L2538013-05 wg2082882	
18	24 L2538013-06 wg2082882	
19	25 L2538013-07 wg2082882	
20	26 L2538795-07 wg2082882	
21	27 L2538796-07 wg2082882	
22	28 L2538797-07 wg2082882	
23	29 L2535504-04 wg2082367	
24	30 l2538889-01 WG2082770	
25	31 Check STD(5ug/L)	
26	32 Check Blank	
27	33 WG2082770-5 WG2082770	
28	34 WG2082770-6 WG2082770	
29	35 l2536104-02 WG2082770	
30	36 l2536123-01 WG2082770	
31	37 l2536233-01 WG2082770	
32	38 l2537038-01 WG2082770	
33	39 l2537655-01 WG2082770	
34	40 l2537655-02 WG2082770	
35	41 l2537655-03 WG2082770	
36	42 l2537655-04 WG2082770	
37	43 Check STD(5ug/L)	

38	44 Check Blank
39	45 L2537655-05 WG2082770
40	46 L2534125-01 WG2079479
41	47 L2535531-04 WG2079479
42	48 L2535531-05 WG2079479
43	49 L2535531-06 WG2079479
44	50 L2535531-07 WG2079479
45	51 L2535531-08 WG2079479
46	52 L2535531-09 WG2079479
47	53 L2535531-10 WG2079479
48	54 L2535531-11 WG2079479
49	55 Check STD(5ug/L)
50	56 Check Blank
51	57 L2535531-12 WG2079479
52	58 L2535678-01 WG2079479
53	59 L2535678-02 WG2079479
54	60 L2535971-01 WG2079479
55	61 L2535971-02 WG2079479
56	62 L2535971-04 WG2079479
57	63 L2535971-05 WG2079479
58	64 L2534177-01 WG2079889
59	65 L2535878-01 WG2079889
60	66 L2535970-01 WG2079889
61	67 Check STD(5ug/L)
62	68 Check Blank
63	69 L2537430-01 WG2079889
64	70 WG2080274-1 WG2080274
65	71 WG2080274-2 WG2080274
66	72 L2535505-02 WG2080274
67	73 WG2080274-3 WG2080274
68	74 WG2080274-4 WG2080274
69	75 L2535505-01 WG2080274
70	76 L2535505-03 WG2080274
71	77 L2535505-04 WG2080274
72	78 L2535505-05 WG2080274
73	79 Check STD(5ug/L)
74	80 Check Blank
75	1 L2535505-06 WG2080274
76	2 L2535505-07 WG2080274
77	3 WG2080541-1 WG2080541
78	4 WG2080541-2 WG2080541
79	5 WG2080541-3 WG2080541
80	6 L2535823-01 WG2080541
81	7 L2535823-02 WG2080541

82	8 L2535823-03 WG2080541
83	9 xWG2081576-1 WG2081576
84	10 xWG2081576-2 WG2081576
85	11 Check STD(5ug/L)
86	12 Check Blank
87	13 xL2535869-11 WG2081576
88	14 xWG2081576-3 WG2081576
89	15 xWG2081576-4 WG2081576
90	16 xL2535869-12 WG2081576
91	17 WG2080035-1 WG2080035
92	18 WG2080035-2 WG2080035
93	19 L2536215-01 WG2080035
94	20 WG2080035-3 WG2080035
95	21 WG2080035-4 WG2080035
96	22 L2536215-02 WG2080035
97	23 Check STD(5ug/L)
98	24 Check Blank
99	25 L2536215-03 WG2080035
100	26 L2536215-04 WG2080035
101	27 L2536215-05 WG2080035
102	28 WG2083304-1 WG2083304
103	29 WG2083304-2 WG2083304
104	30 WG2083304-3 WG2083304
105	31 L2538134-03 WG2083304
106	32 xWG2081576-2 WG2081576
107	35 Check STD(5ug/L)
108	36 Check Blank
109	37 WG2080030-1 WG2080030
110	38 WG2080030-2 WG2080030
111	39 L2535869-07 WG2080030
112	40 WG2080030-3 WG2080030
113	41 WG2080030-4 WG2080030
114	42 L2535869-01 WG2080030
115	43 L2535869-02 WG2080030
116	44 L2535869-03 WG2080030
117	45 L2535869-04 WG2080030
118	46 L2535869-05 WG2080030
119	47 Check STD(5ug/L)
120	48 Check Blank
121	49 L2535869-06 WG2080030
122	50 L2535869-08 WG2080030
123	51 L2535869-09 WG2080030
124	52 L2535869-10 WG2080030
125	53 L2535971-06 WG2080030

126	54 L2535971-07 WG2080030
127	55 L2535971-08 WG2080030
128	56 L2535971-09 WG2080030
129	57 L2535971-10 WG2080030
130	58 L2535971-11 WG2080030
131	59 Check STD(5ug/L)
132	60 Check Blank
133	61 L2535971-12 WG2080030
134	62 L2537735-01 WG2082882
135	63 xl2535838-01 wg2081838
136	64 xl2535768-01 wg2081838
137	65 l2537681-01 wg2081838
138	66 wg2082787-1 wg2082787
139	67 wg2082787-2 wg2082787
140	68 l2535941-01 wg2082787
141	69 wg2082787-3 wg2082787
142	70 wg2082787-4 wg2082787
143	71 Check STD(5ug/L)
144	72 Check Blank
1	11 L2535896-01 WG2079950
2	12 L2535896-02 WG2079950
3	13 L2535896-03 WG2079950
4	14 L2535896-04 WG2079950
5	15 L2535896-05 WG2079950
6	16 WG2080317-1 WG2080317
7	17 WG2080317-2 WG2080317
8	18 l2535888-01 WG2080317
9	19 WG2080317-3 WG2080317
10	20 WG2080317-4 WG2080317
11	21 Check STD(5ug/L)
12	22 Check Blank
13	23 l2536054-01 WG2080317
14	24 l2536112-01 WG2080317
15	25 l2536112-02 WG2080317
16	26 l2536497-01 WG2080317
17	27 WG2080911-1 WG2080911
18	28 WG2080911-2 WG2080911
19	29 L2536268-02 WG2080911
20	30 WG2080911-3 WG2080911
21	31 WG2080911-4 WG2080911
22	32 L2536216-01 WG2080911
23	33 Check STD(5ug/L)
24	34 Check Blank
25	35 L2536268-03 WG2080911

26	36 L2536268-04 WG2080911
27	37 L2536268-08 WG2080911
28	38 L2536268-09 WG2080911
29	39 L2536268-10 WG2080911
30	40 L2536281-01 WG2080911
31	41 L2536281-02 WG2080911
32	42 L2536281-03 WG2080911
33	43 L2536281-04 WG2080911
34	44 L2536281-05 WG2080911
35	45 Check STD(5ug/L)
36	46 Check Blank
37	47 Check STD(5ug/L)
38	48 Check Blank
1	11 L2535896-01 WG2079950
2	12 L2535896-02 WG2079950
3	13 L2535896-03 WG2079950
4	14 L2535896-04 WG2079950
5	15 L2535896-05 WG2079950
6	16 WG2080317-1 WG2080317
7	17 WG2080317-2 WG2080317
8	18 L2535888-01 WG2080317
9	19 WG2080317-3 WG2080317
10	20 WG2080317-4 WG2080317
11	21 Check STD(5ug/L)
12	22 Check Blank
13	23 L2536054-01 WG2080317
14	24 L2536112-01 WG2080317
15	25 L2536112-02 WG2080317
16	26 L2536497-01 WG2080317
17	27 WG2080911-1 WG2080911
18	28 WG2080911-2 WG2080911
19	29 L2536268-02 WG2080911
20	30 WG2080911-3 WG2080911
21	31 WG2080911-4 WG2080911
22	32 L2536216-01 WG2080911
23	33 Check STD(5ug/L)
24	34 Check Blank
25	35 L2536268-03 WG2080911
26	36 L2536268-04 WG2080911
27	37 L2536268-08 WG2080911
28	38 L2536268-09 WG2080911
29	39 L2536268-10 WG2080911
30	40 L2536281-01 WG2080911
31	41 L2536281-02 WG2080911

32	42 L2536281-03 WG2080911
33	43 L2536281-04 WG2080911
34	44 L2536281-05 WG2080911
35	45 Check STD(5ug/L)
36	46 Check Blank
37	47 Check STD(5ug/L)
38	48 Check Blank

No.	Sample No. NAME	CURVE:WG2083403
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 L2537033-05 WG2082857	
4	10 L2538487-01 WG2082857	
5	11 L2538487-02 WG2082857	
6	12 L2538487-04 WG2082857	
7	13 L2538487-05 WG2082857	
8	14 L2538487-06 WG2082857	
9	15 L2538487-07 WG2082857	
10	16 L2538487-08 WG2082857	
11	17 L2538487-09 WG2082857	
12	18 L2538487-10 WG2082857	
13	19 Check STD(5ug/L)	
14	20 Check Blank	
15	21 L2538487-11 WG2082857	
16	22 L2538487-12 WG2082857	
17	23 WG2083284-1 WG2083284	
18	24 WG2083284-2 WG2083284	
19	25 l2538013-01 WG2083284	
20	26 WG2083284-3 WG2083284	
21	27 WG2083284-4 WG2083284	
22	28 l2537655-03 WG2083284	
23	29 l2537655-04 WG2083284	
24	30 l2537655-05 WG2083284	
25	31 Check STD(5ug/L)	
26	32 Check Blank	
27	33 l2538013-02 WG2083284	
28	34 l2538013-03 WG2083284	
29	35 l2538013-04 WG2083284	
30	36 l2538013-05 WG2083284	
31	37 l2538013-06 WG2083284	
32	38 l2538013-07 WG2083284	
33	39 WG2083146-1 WG2083146	
34	40 WG2083146-2 WG2083146	
35	41 WG2083146-3 WG2083146	
36	42 L2537641-01 WG2083146	
37	43 Check STD(5ug/L)	

38	44 Check Blank
39	45 L2537781-01 WG2083146
40	46 L2537781-02 WG2083146
41	47 WG2082997-1 WG2082997
42	48 WG2082997-2 WG2082997
43	49 L2538038-02 WG2082997
44	50 WG2082997-3 WG2082997
45	51 WG2082997-4 WG2082997
46	52 L2538038-01 WG2082997
47	53 L2538846-01 WG2082997
48	54 L2539206-01 WG2082291
49	55 Check STD(5ug/L)
50	56 Check Blank
51	57 WG2083266-1 WG2083266
52	58 WG2083266-2 WG2083266
53	59 L2537679-01 WG2083266
54	60 WG2083266-3 WG2083266
55	61 WG2083266-4 WG2083266
56	62 L2537679-04 WG2083266
57	63 L2537679-07 WG2083266
58	64 L2537679-10 WG2083266
59	67 Check STD(5ug/L)
60	68 Check Blank
61	69 WG2083841-1 WG2083841
62	70 WG2083841-2 WG2083841
63	71 l2538487-03 WG2083841
64	72 WG2083841-3 WG2083841
65	73 WG2083841-4 WG2083841
66	74 l2538487-01 WG2083841
67	75 l2538487-02 WG2083841
68	76 l2538487-04 WG2083841
69	77 l2538487-05 WG2083841
70	78 l2538487-06 WG2083841
71	79 Check STD(5ug/L)
72	80 Check Blank
73	1 l2538487-07 WG2083841
74	2 l2538487-08 WG2083841
75	3 l2538487-09 WG2083841
76	4 l2538487-10 WG2083841
77	5 l2538487-11 WG2083841
78	11 Check STD(5ug/L)
79	12 Check Blank
80	13 xxV1 LCS HG2325261340RC
81	14 xxV2 LCS HG2325261340RC

No.	MEAS	SMPNO.	NAME	CURVE: WG2083403
1	FALSE		1 STD	
2	FALSE		2 STD	
3	FALSE		3 STD	
4	FALSE		4 STD	
5	FALSE		5 STD	
6	FALSE		6 STD	
7	FALSE		7 STD	
8	FALSE		8 STD	
9	FALSE		9 STD	
10	FALSE		10 STD	
11	FALSE		7 ICV	
12	FALSE		8 ICB	
13	FALSE		9 WG2083468-1 WG2083468	
14	FALSE		10 WG2083468-2 WG2083468	
15	FALSE		11 L2538431-01 WG2083468	
16	FALSE		12 WG2083468-3 WG2083468	
17	FALSE		13 WG2083468-4 WG2083468	
18	FALSE		14 L2538431-02 WG2083468	
19	FALSE		15 WG2083551-1 WG2083551	
20	FALSE		16 WG2083551-2 WG2083551	
21	FALSE		17 l2536971-01 WG2083551	
22	FALSE		18 WG2083551-3 WG2083551	
23	FALSE		19 Check STD(5.000ug/L)	
24	FALSE		20 Check Blank	
25	FALSE		21 WG2083551-4 WG2083551	
26	FALSE		22 l2535768-01 WG2083551	
27	FALSE		23 l2535838-01 WG2083551	
28	FALSE		24 l2538311-01 WG2083551	
29	FALSE		25 WG2083555-1 WG2083555	
30	FALSE		26 WG2083555-2 WG2083555	
31	FALSE		27 l2537671-02 WG2083555	
32	FALSE		28 WG2083555-3 WG2083555	
33	FALSE		29 WG2083555-4 WG2083555	
34	FALSE		30 l2535869-11 WG2083555	
35	FALSE		31 Check STD(5.000ug/L)	
36	FALSE		32 Check Blank	
37	FALSE		33 l2535869-12 WG2083555	
38	FALSE		34 L2539378-01 WG2083304	
39	FALSE		35 WG2083484-1 WG2083484	
40	FALSE		36 WG2083484-2 WG2083484	
41	FALSE		37 L2536270-01 WG2083484	
42	FALSE		38 WG2083484-3 WG2083484	
43	FALSE		39 WG2083484-4 WG2083484	
44	FALSE		40 WG2083486-1 WG2083486	
45	FALSE		41 WG2083486-2 WG2083486	
46	FALSE		42 L2536289-02 WG2083486	
47	FALSE		43 Check STD(5.000ug/L)	
48	FALSE		44 Check Blank	
49	FALSE		45 WG2083486-3 WG2083486	
50	FALSE		46 WG2083486-4 WG2083486	
51	FALSE		47 WG2083671-1 WG2083671	
52	FALSE		48 WG2083671-2 WG2083671	
53	FALSE		49 L2537103-01 WG2083671	
54	FALSE		50 WG2083671-3 WG2083671	
55	FALSE		51 WG2083671-4 WG2083671	
56	FALSE		52 xL2539236-11 WG2083671	
57	FALSE		53 L2538024-01 WG2083671	
58	FALSE		54 WG2083765-1 WG2083765	
59	FALSE		55 Check STD(5.000ug/L)	
60	FALSE		56 Check Blank	
61	FALSE		57 WG2083765-2 WG2083765	
62	FALSE		58 L2538381-01 WG2083765	
63	FALSE		59 WG2083765-3 WG2083765	
64	FALSE		60 WG2083765-4 WG2083765	
65	FALSE		61 L2538381-02 WG2083765	
66	FALSE		62 L2538381-03 WG2083765	
67	FALSE		63 L2538381-04 WG2083765	
68	FALSE		64 L2538381-05 WG2083765	
69	FALSE		65 L2538381-06 WG2083765	

70	FALSE	66 L2538381-07 WG2083765
71	FALSE	67 Check STD(5.000ug/L)
72	FALSE	68 Check Blank
73	FALSE	69 L2538381-08 WG2083765
74	FALSE	70 L2538381-09 WG2083765
75	FALSE	71 L2538846-02 WG2083765
76	FALSE	72 WG2083763-1 WG2083763
77	FALSE	73 WG2083763-2 WG2083763
78	FALSE	74 L2536512-01 WG2083763
79	FALSE	75 WG2083763-3 WG2083763
80	FALSE	76 WG2083763-4 WG2083763
81	FALSE	77 L2536512-02 WG2083763
82	FALSE	78 L2539236-01 WG2083763
83	FALSE	79 Check STD(5.000ug/L)
84	FALSE	80 Check Blank
85	FALSE	1 L2539236-02 WG2083763
86	FALSE	2 L2539236-03 WG2083763
87	FALSE	3 L2539236-04 WG2083763
88	FALSE	4 L2539236-05 WG2083763
89	FALSE	5 L2539236-06 WG2083763
90	FALSE	6 L2539236-07 WG2083763
91	FALSE	7 L2539236-08 WG2083763
92	FALSE	8 L2539236-09 WG2083763
93	FALSE	9 L2539236-10 WG2083763
94	FALSE	10 L2539236-11 WG2083763
95	FALSE	11 Check STD(5.000ug/L)
96	FALSE	12 Check Blank
97	FALSE	13 L2539236-12 WG2083763
98	FALSE	14 L2539236-13 WG2083763
99	FALSE	15 L2539236-14 WG2083763
100	FALSE	16 L2539236-15 WG2083763
101	FALSE	17 WG2083826-1 WG2083826
102	FALSE	18 WG2083826-2 WG2083826
103	FALSE	19 L2537655-01 WG2083826
104	FALSE	20 WG2083826-3 WG2083826
105	FALSE	21 WG2083826-4 WG2083826
106	FALSE	22 L2537655-02 WG2083826
107	FALSE	23 Check STD(5.000ug/L)
108	FALSE	24 Check Blank
109	FALSE	25 WG2083680-1 WG2083680
110	FALSE	26 WG2083680-2 WG2083680
111	FALSE	27 L2538827-10 WG2083680
112	FALSE	28 WG2083680-3 WG2083680
113	FALSE	29 WG2083680-4 WG2083680
114	FALSE	30
115	FALSE	31
116	FALSE	32
117	FALSE	33
118	FALSE	34
119	FALSE	35 Check STD(5.000ug/L)
120	FALSE	36 Check Blank

NOTE	
MJR	NIC5
MJR	NIC5
MJR	NIC5
MJR	NIC5
MJR	NIC5
MJR	NIC5
MJR	NIC5
MJR	NIC5
MJR	NIC5
MJR	NIC5



METALS ELN REPORT

Workgroup: WG2082770

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	24012902	H2SO4	24016430	METALS	METSPIKE	HG25241630 20AJTV2	METSPIKE	HG25241630320, 344 20AJTV2	

Additional Reagent/Std	K2O8S2	PS2525231214ADG
	KMnO4	PP2524211444SAM
	NaCl-NH2OH.HCl	HH2524201427MJR
		ICV2524161130JDH

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperatur e (C)	Stop Date/Time	Final Vol	Comments
L2536104-02 WATER	06/24/25 12:38	Raldi Cabral	25		06/24/25 12:38	8	96.0	06/24/25 14:38	25	
L2536123-01 WATER	06/24/25 12:38	Raldi Cabral	25		06/24/25 12:38	8	96.0	06/24/25 14:38	25	
L2536233-01 SAMP	06/24/25 12:38	Raldi Cabral	25		06/24/25 12:38	8	96.0	06/24/25 14:38	25	
L2537038-01 WATER	06/24/25 12:38	Raldi Cabral	12.5		06/24/25 12:38	8	96.0	06/24/25 14:38	25	
L2537655-01 WATER	06/24/25 12:38	Raldi Cabral	25		06/24/25 12:38	8	96.0	06/24/25 14:38	25	
L2537655-02 WATER	06/24/25 12:38	Raldi Cabral	25		06/24/25 12:38	8	96.0	06/24/25 14:38	25	
L2537655-03 WATER	06/24/25 12:38	Raldi Cabral	25		06/24/25 12:38	8	96.0	06/24/25 14:38	25	
L2537655-04 WATER	06/24/25 12:38	Raldi Cabral	25		06/24/25 12:38	8	96.0	06/24/25 14:38	25	



METALS ELN REPORT

Workgroup: WG2082770

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
L2537655-05 WATER	06/24/25 12:38	Raldi Cabral	25		06/24/25 12:38	8	96.0	06/24/25 14:38	25	
L2538888-01 SAMP	06/24/25 12:38	Raldi Cabral	25		06/24/25 12:38	8	96.0	06/24/25 14:38	25	
L2538889-01 SAMP	06/24/25 12:38	Raldi Cabral	25		06/24/25 12:38	8	96.0	06/24/25 14:38	25	
L2539226-01 SAMP	06/24/25 12:38	Raldi Cabral	25		06/24/25 12:38	8	96.0	06/24/25 14:38	25	
WG2082770-1 BLANK	06/24/25 12:38	Raldi Cabral	25		06/24/25 12:38	8	96.0	06/24/25 14:38	25	ELN: JDH // ADG
WG2082770-2 LCS	06/24/25 12:38	Raldi Cabral	25	.250	06/24/25 12:38	8	96.0	06/24/25 14:38	25	
WG2082770-3 MS	06/24/25 12:38	Raldi Cabral	25	1.25	06/24/25 12:38	8	96.0	06/24/25 14:38	25	
WG2082770-4 DUP	06/24/25 12:38	Raldi Cabral	25		06/24/25 12:38	8	96.0	06/24/25 14:38	25	
WG2082770-5 MS	06/24/25 12:38	Raldi Cabral	25	1.25	06/24/25 12:38	8	96.0	06/24/25 14:38	25	
WG2082770-6 DUP	06/24/25 12:38	Raldi Cabral	25		06/24/25 12:38	8	96.0	06/24/25 14:38	25	



METALS ELN REPORT

Workgroup: WG2082770

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganal	3.75	ml
Potassium Persulfate (K:	2	ml
NaCl-Hydroxylamine Hy	1.5	ml



METALS ELN REPORT

Workgroup: WG2083284

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	24012902	H2SO4	24016430	METALS	METSPIKE	HG2524163020AJTV2	METSPIKE	HG2524163020AJTV2	328, 344
Additional Reagent/Std		K2O8S2	PS2525231214ADG							
		KMnO4	PP2525240910SAM							
		NaCl-NH2OH.HCl	HH2524241130JWN							
			ICV2525232138GAN							

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
L2537655-01	06/25/25 11:25	Raldi Cabral	NA	25		06/25/25 11:25	5	95.0	06/25/25 13:25	25	
L2537655-02	06/25/25 11:25	Raldi Cabral	NA	25		06/25/25 11:25	5	95.0	06/25/25 13:25	25	
L2537655-03	06/25/25 11:25	Raldi Cabral	NA	25		06/25/25 11:25	5	95.0	06/25/25 13:25	25	
L2537655-04	06/25/25 11:25	Raldi Cabral	NA	25		06/25/25 11:25	5	95.0	06/25/25 13:25	25	WATER
L2537655-05	06/25/25 11:25	Raldi Cabral	NA	25		06/25/25 11:25	5	95.0	06/25/25 13:25	25	WATER
L2538013-01	06/25/25 11:25	Raldi Cabral	NA	25		06/25/25 11:25	5	95.0	06/25/25 13:25	25	SAMP
L2538013-02	06/25/25 11:25	Raldi Cabral	NA	25		06/25/25 11:25	5	95.0	06/25/25 13:25	25	SAMP
L2538013-03	06/25/25 11:25	Raldi Cabral	NA	25		06/25/25 11:25	5	95.0	06/25/25 13:25	25	SAMP



METALS ELN REPORT

Workgroup: WG2083284

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperatur e (C)	Stop Date/Time	Final Vol	Comments
L2538013-04 SAMP	06/25/25 11:25	Raldi Cabral	NA	25		06/25/25 11:25	5	95.0	06/25/25 13:25	25	
L2538013-05 SAMP	06/25/25 11:25	Raldi Cabral	NA	25		06/25/25 11:25	5	95.0	06/25/25 13:25	25	
L2538013-06 SAMP	06/25/25 11:25	Raldi Cabral	NA	25		06/25/25 11:25	5	95.0	06/25/25 13:25	25	
L2538013-07 SAMP	06/25/25 11:25	Raldi Cabral	NA	25		06/25/25 11:25	5	95.0	06/25/25 13:25	25	
WG2083284-1 BLANK	06/25/25 11:25	Raldi Cabral	NA	25		06/25/25 11:25	5	95.0	06/25/25 13:25	25	ELN: ADG
WG2083284-2 LCS	06/25/25 11:25	Raldi Cabral	NA	25	.250	06/25/25 11:25	5	95.0	06/25/25 13:25	25	
WG2083284-3 MS	06/25/25 11:25	Raldi Cabral	NA	25	1.25	06/25/25 11:25	5	95.0	06/25/25 13:25	25	
WG2083284-4 MSD	06/25/25 11:25	Raldi Cabral	NA	25	1.25	06/25/25 11:25	5	95.0	06/25/25 13:25	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganal	3.75	ml
Potassium Persulfate (K:	2	ml
NaCl-Hydroxylamine Hy	1.5	ml



METALS ELN REPORT

Workgroup: WG2083826

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	24012902	H2SO4	24016430	METALS	METSPIKE	HG2524163020AJTV2	METSPIKE	HG2524163020AJTV2	328, 344
Additional Reagent/Std		K2O8S2	PS2525231214ADG							
		KMnO4	PP2525260820SAM							
		NaCl-NH2OH.HCl	HH2524241130JWN							
			ICV2525232138GAN							

Sample/Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2537655-01	06/26/25 10:22	Raldi Cabral	NA	25		06/26/25 10:22	5	95.0	06/26/25 12:22	25	
WATER											
L2537655-02	06/26/25 10:22	Raldi Cabral	NA	25		06/26/25 10:22	5	95.0	06/26/25 12:22	25	
WATER											
WG2083826-1	06/26/25 10:22	Raldi Cabral	NA	25		06/26/25 10:22	5	95.0	06/26/25 12:22	25	ELN: ADG
BLANK											
WG2083826-2	06/26/25 10:22	Raldi Cabral	NA	25	.250	06/26/25 10:22	5	95.0	06/26/25 12:22	25	
LCS											
WG2083826-3	06/26/25 10:22	Raldi Cabral	NA	25	1.25	06/26/25 10:22	5	95.0	06/26/25 12:22	25	
MS											
WG2083826-4	06/26/25 10:22	Raldi Cabral	NA	25		06/26/25 10:22	5	95.0	06/26/25 12:22	25	
DUP											



METALS ELN REPORT

Workgroup: WG2083826

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganal	3.75	ml
Potassium Persulfate (K:	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 18:30
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	: MRM
Lab File ID	: WG2083474.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Total Nitrogen	0.36	0.30	0.30	



Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 18:30
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	: MRM
Lab File ID	: WG2083474.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Total Nitrogen	ND	0.30	0.30	U



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 18:30
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	: MRM
Lab File ID	: WG2083474.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Total Nitrogen	ND	0.30	0.30	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 18:30
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	: MRM
Lab File ID	: WG2083474.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Total Nitrogen	1.4	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 18:30
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	: MRM
Lab File ID	: WG2083474.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Total Nitrogen	0.65	0.30	0.30	

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: 6/25/2025 18:30
Technician: MRM
Work group: WG2083474
RL: 0.3 mg/L

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2534996-01	29.2	7.2	2.0	36.4
	L2537655-01	0.298	0.36	1.0	0.36
	L2537655-02	0	0.27	1.0	0.27
	L2537655-03	0	0	1.0	0
	L2537655-04	0	1.4	1.0	1.4
	L2537655-05	0	0.65	1.0	0.65
SAMP	L2538013-01	0	5.6	1.0	5.6
SAMP	L2538013-02	0	2.6	1.0	2.6
SAMP	L2538013-03	0	2.6	1.0	2.6
SAMP	L2538013-04	0	1.3	1.0	1.3
SAMP	L2538013-05	0	0.56	1.0	0.56
SAMP	L2538013-06	0.803	1	1.0	1.803
SAMP	L2538013-07	0	2.1	1.0	2.1
	L2539470-01	0.695	1.4	1.0	2.095
	L2539470-02	2.99	0.089	1.0	2.99
	L2539470-03	0.476	1.4	1.0	1.876

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and NO₃/NO₂-N.

Aqueous samples:

$$\text{mgTN-N/L} = \text{TKN-N(mg/l)} + \text{NO}_3/\text{NO}_2\text{-N (mg/l)}$$

Soil samples:

$$\text{mgTN-N/Kg} = \text{TKN-N(mg/Kg)} + \text{NO}_3/\text{NO}_2\text{-N(mg/Kg)}$$

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 13:09
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NH3-H	Analyst	: KEM
Lab File ID	: NH320250625-C	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	0.298	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 13:10
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NH3-H	Analyst	: KEM
Lab File ID	: NH320250625-C	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 13:27
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 121,4500NH3-H	Analyst	: KEM
Lab File ID	: NH320250625-C	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 13:11
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NH3-H	Analyst	: KEM
Lab File ID	: NH320250625-C	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 13:12
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NH3-H	Analyst	: KEM
Lab File ID	: NH320250625-C	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U



Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082885-1
Client ID : WG2082885-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500NH3-H
Lab File ID : NH320250625-C
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/25/25 14:11
Dilution Factor : 1
Analyst : KEM
Instrument ID : LACHAT
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.022	U



Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2082885-3
 Client ID : WG2082885-3 DUP
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 121,4500NH3-H
 Lab File ID : NH320250625-C
 Sample Amount :
 Digestion Method :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : 06/17/25 09:15
 Date Received : 06/17/25
 Date Analyzed : 06/25/25 13:29
 Dilution Factor : 1
 Analyst : KEM
 Instrument ID : LACHAT
 %Solids : N/A
 Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U



Sample Raw Data

Original Run Filename: OM_6-25-2025_09-50-46AM.OMN Created: 6/25/2025 9:50:46 AM

Original Run Author's Signature: [A1WETCHEMINSTRUMENT]

Current Run Filename: OM_6-25-2025_09-50-46AM.OMN Last Modified: 6/25/2025 10:16:29 AM

Current Run Author's Signature: [A1WETCHEMINSTRUMENT]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 2	MDF	Weight	TRAY A
			Ammonia (mg N/L)			
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	0.37165			93%
Known Conc:			100.00000			
Calibration:			Table/Fig. : 1			
CCV 4.0000	1	S3	3.98588			100%
Known Conc:			100.00000			
CCB	1	S10	0.01590			
Known Conc:			100.00000			
HI ICV 8.0	1	1	8.07683			101%
LO ICV 1.0	1	2	0.95887			95%
ICB	1	3	0.01220			
WG2082868-1	1	4	0.00524	1.50		91%
WG2082868-2	1	5	18.10377	7.50		96%
LCS LO	1	6	1.91168	1.50		
L2533323-03; 10X	1	7	962.70483	300.00		
L2533323-08; 10X	1	8	1465.91016	300.00		
L2533323-09; 10X	1	9	1711.53442	300.00		
L2533323-10; 10X	1	10	2051.58447	300.00		
X CCV 0.4000	1	S6	0.60029			150%, RERUN OK
Known Conc:			100.00000			

Channel 2 (Ammonia High) - Current View

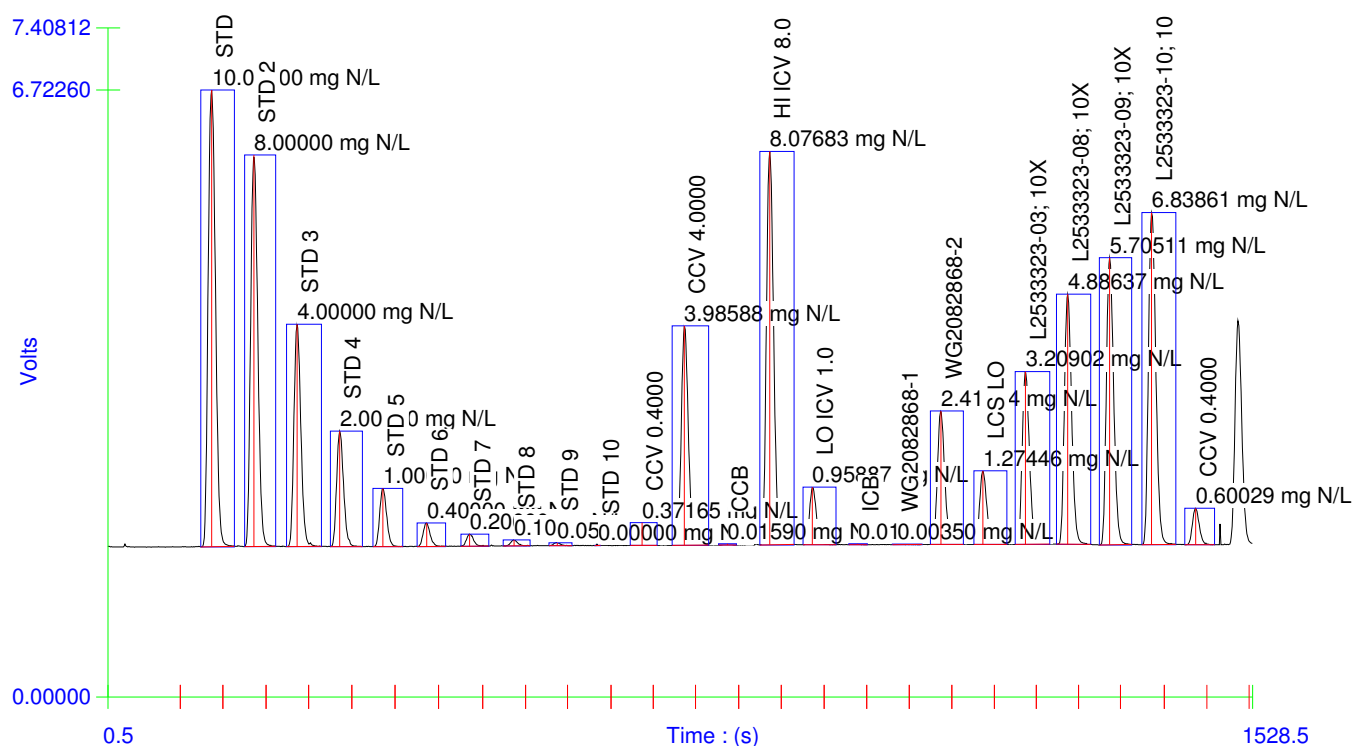
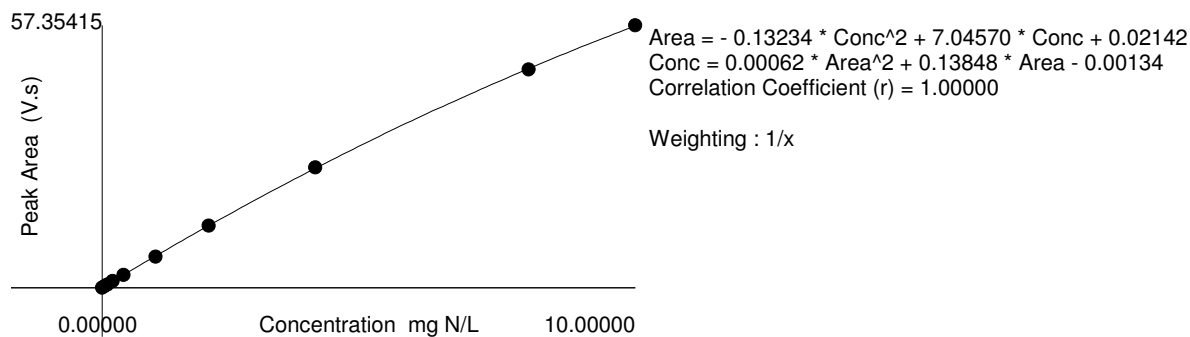


Table : 1 (Ammonia)

	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	57.35415	5.05747	0.0	-0.2	9.96797	6/25/2025	9:52:34 AM
2	8.00000	1	47.69110	4.33630	0.0	0.5	8.00441	6/25/2025	9:53:31 AM
3	4.00000	1	26.28683	2.46056	0.0	-0.8	4.06469	6/25/2025	9:54:29 AM
4	2.00000	1	13.59732	1.28262	0.0	-0.1	1.99558	6/25/2025	9:55:26 AM
5	1.00000	1	6.81424	0.64512	0.0	1.7	0.97093	6/25/2025	9:56:23 AM
6	0.40000	1	2.80437	0.26160	0.0	0.5	0.39187	6/25/2025	9:57:21 AM
7	0.20000	1	1.46410	0.13390	0.0	-2.7	0.20274	6/25/2025	9:58:20 AM
8	0.10000	1	0.71711	0.06658	0.0	1.0	0.09829	6/25/2025	9:59:18 AM
9	0.05000	1	0.37896	0.03335	0.0	-1.5	0.05123	6/25/2025	10:00:15 AM
10	0.00000	1	0.01572	0.00296			0.00084	6/25/2025	10:01:12 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-25-2025_10-23-53AM.OMN Created: 6/25/2025 10:23:53 AM

Original Run Author's Signature: [A1WETCHEMINSTRUMENT]

Current Run Filename: OM_6-25-2025_10-23-53AM.OMN Last Modified: 6/25/2025 10:39:12 AM

Current Run Author's Signature: [A1WETCHEMINSTRUMENT]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	MDF	Weight	TRAY A
CCV 0.4000	1	S6	0.38085			95%
Known Conc:			100.00000			
CCV 4.0000	1	S3	3.99948			100%
Known Conc:			100.00000			
Calibration:			Table/Fig. : 1			
CCB	1	S10	0.02272			
Known Conc:			100.00000			
L2533323-11; 10X	1	11	1762.02393	300.00		
L2533323-12; 10X	1	12	2019.80078	300.00		
L2533323-13; 10X	1	13	1473.08838	300.00		
L2533323-14; 10X	1	14	1597.13184	300.00		
L2533323-15; 10X	1	15	111.29903	75.00		
L2533668-01	1	16	0.17244	1.50	7.5	0.8622
L2533668-02	1	17	5.03708	1.50		
X L2533668-03	1	18	61.44199	1.50		
X L2533668-04	1	19	15.89742	1.50		
X WG2082868-3	1	20	14.84480	1.50		
X CCV 0.4000	1	S6	0.75652			189%, RERUN OK
Known Conc:			100.00000			

Channel 2 (Ammonia High) - Current View

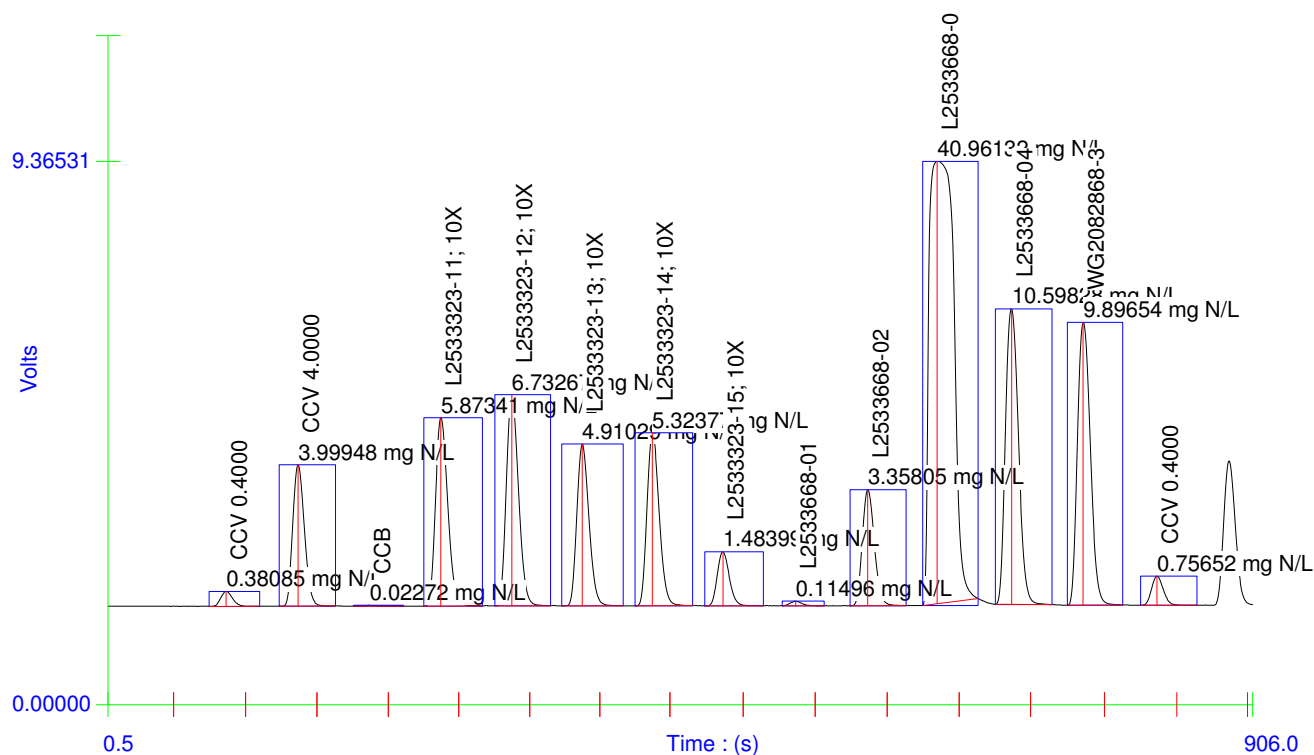
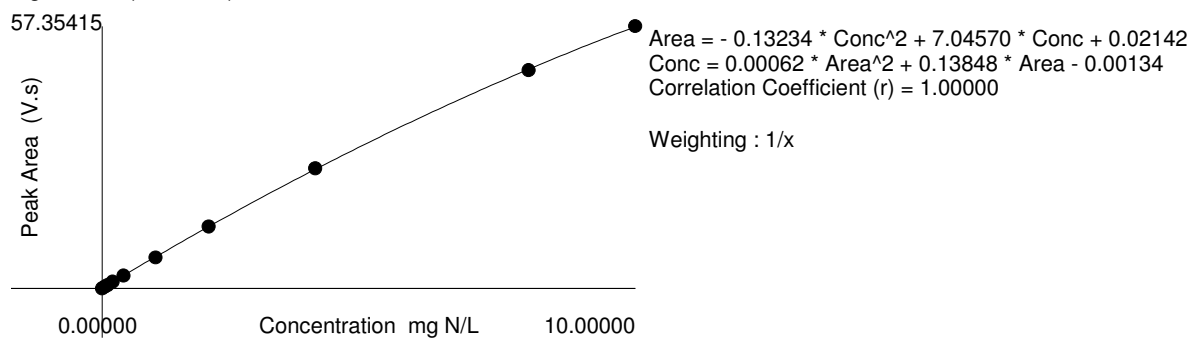


Table : 1 (Ammonia)

	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	57.35415	5.05747	0.0	-0.2	9.96797	6/25/2025	9:52:34 AM
2	8.00000	1	47.69110	4.33630	0.0	0.5	8.00441	6/25/2025	9:53:31 AM
3	4.00000	1	26.28683	2.46056	0.0	-0.8	4.06469	6/25/2025	9:54:29 AM
4	2.00000	1	13.59732	1.28262	0.0	-0.1	1.99558	6/25/2025	9:55:26 AM
5	1.00000	1	6.81424	0.64512	0.0	1.7	0.97093	6/25/2025	9:56:23 AM
6	0.40000	1	2.80437	0.26160	0.0	0.5	0.39187	6/25/2025	9:57:21 AM
7	0.20000	1	1.46410	0.13390	0.0	-2.7	0.20274	6/25/2025	9:58:20 AM
8	0.10000	1	0.71711	0.06658	0.0	1.0	0.09829	6/25/2025	9:59:18 AM
9	0.05000	1	0.37896	0.03335	0.0	-1.5	0.05123	6/25/2025	10:00:15 AM
10	0.00000	1	0.01572	0.00296			0.00084	6/25/2025	10:01:12 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-25-2025_10-49-09AM.OMN Created: 6/25/2025 10:49:09 AM

Original Run Author's Signature: [A1WETCHEMINSTRUMENT]

Current Run Filename: OM_6-25-2025_10-49-09AM.OMN Last Modified: 6/25/2025 11:04:41 AM

Current Run Author's Signature: [A1WETCHEMINSTRUMENT]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	MDF	Weight	
CCV 0.4000	1	S6	0.40807			102%
Known Conc:			100.00000			
CCV 4.0000	1	S3	4.01500			100%
Known Conc:			100.00000			
Calibration:			Table/Fig. : 1			
CCB	1	S10	0.03385			
Known Conc:			100.00000			
L2533668-03; 50X	1	18	281.05865	75.00		
L2533668-04; 10X	1	19	14.16148	15.00		
WG2082868-3; 10X	1	20	13.27716	15.00		RPD=6%
WG2082868-4; 10X	1	21	16.78078	15.00		65%
L2533706-01	1	22	9.86670	7.50		
L2533706-02	1	23	0.30298	1.50		
WG2082868-6	1	24	4.14027	1.50		96%
WG2082868-5	1	25	0.28741	1.50		RPD=5%
X L2533726-01	1	26	36.97603	1.50		
X L2533752-01	1	27	8.34897	7.50		
X CCV 0.4000	1	S6	0.47443			119%, RERUN OK
Known Conc:			100.00000			

Channel 2 (Ammonia High) - Current View

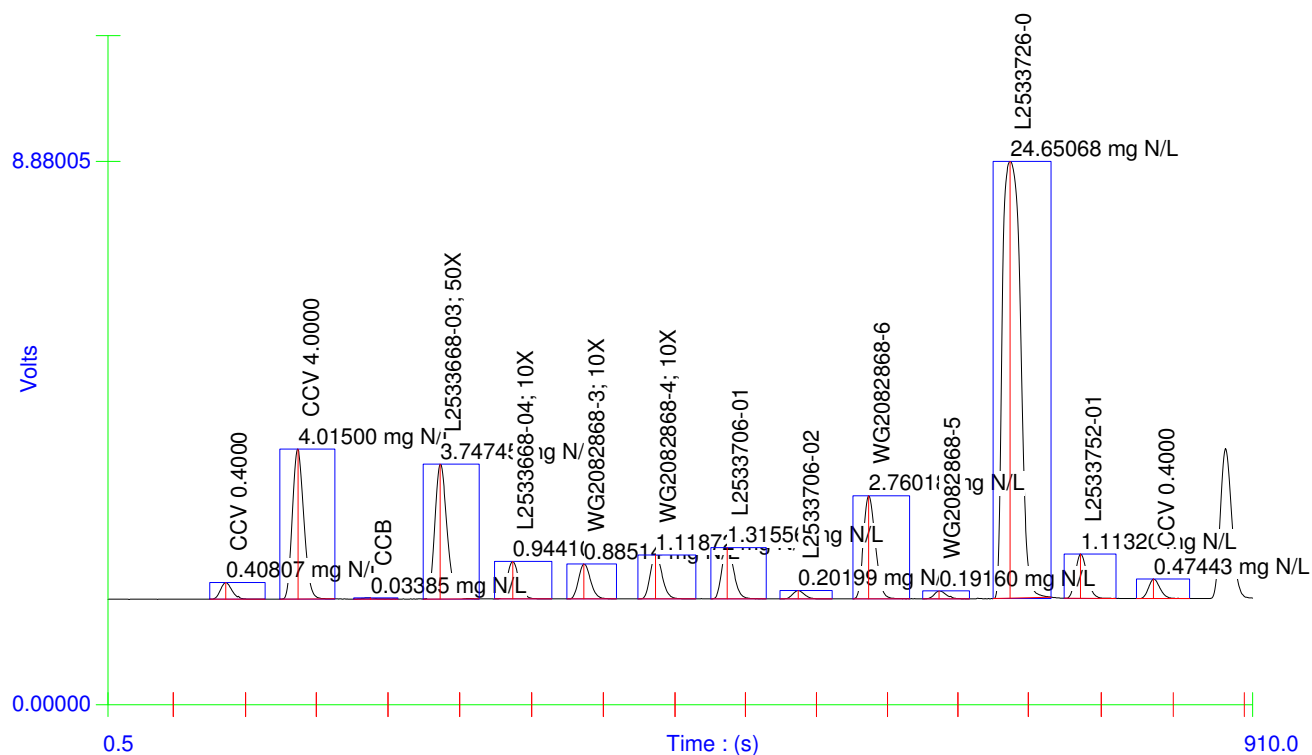
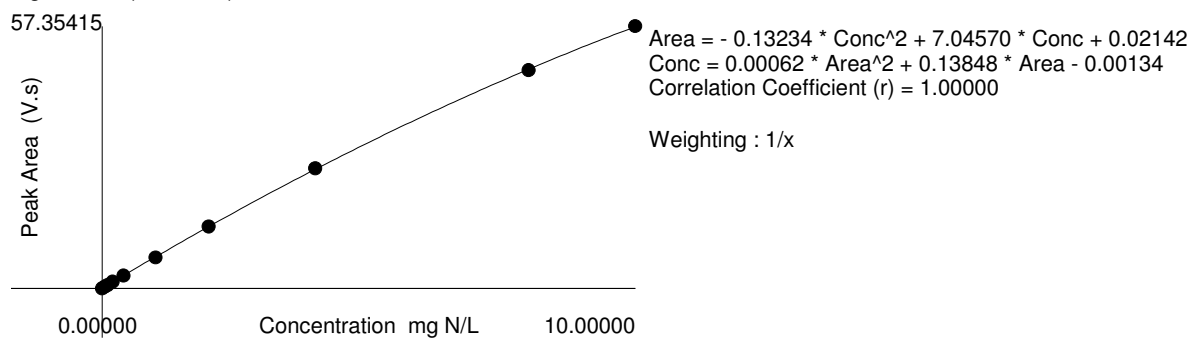


Table : 1 (Ammonia)

	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	57.35415	5.05747	0.0	-0.2	9.96797	6/25/2025	9:52:34 AM
2	8.00000	1	47.69110	4.33630	0.0	0.5	8.00441	6/25/2025	9:53:31 AM
3	4.00000	1	26.28683	2.46056	0.0	-0.8	4.06469	6/25/2025	9:54:29 AM
4	2.00000	1	13.59732	1.28262	0.0	-0.1	1.99558	6/25/2025	9:55:26 AM
5	1.00000	1	6.81424	0.64512	0.0	1.7	0.97093	6/25/2025	9:56:23 AM
6	0.40000	1	2.80437	0.26160	0.0	0.5	0.39187	6/25/2025	9:57:21 AM
7	0.20000	1	1.46410	0.13390	0.0	-2.7	0.20274	6/25/2025	9:58:20 AM
8	0.10000	1	0.71711	0.06658	0.0	1.0	0.09829	6/25/2025	9:59:18 AM
9	0.05000	1	0.37896	0.03335	0.0	-1.5	0.05123	6/25/2025	10:00:15 AM
10	0.00000	1	0.01572	0.00296			0.00084	6/25/2025	10:01:12 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-25-2025_11-08-58AM.OMN Created: 6/25/2025 11:08:58 AM
 Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
 Current Run Filename: OM_6-25-2025_11-08-58AM.OMN Last Modified: 6/25/2025 11:24:12 AM
 Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
 Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	MDF	Weight	TRAY A
CCV 0.4000	1	S6	0.39899			100%
Known Conc:			100.00000			
CCV 4.0000	1	S3	3.98568			100%
Known Conc:			100.00000			
Calibration:			Table/Fig. : 1			
CCB	1	S10	0.03319			
Known Conc:			100.00000			
L2533752-02	1	28	3.48884	1.50		
L2533753-01	1	29	17.28927	3.00		
L2533753-02	1	30	1.84798	1.50		
L2533726-01; 20X	1	26	53.49251	30.00		
L2533752-01	1	27	3.77998	7.50		
CCV 0.4000	1	S6	0.40603			102%
Known Conc:			100.00000			
CCV 4.0000	1	S3	3.98853			100%
Known Conc:			100.00000			
CCB	1	S10	0.03173			
Known Conc:			100.00000			

Channel 2 (Ammonia High) - Current View

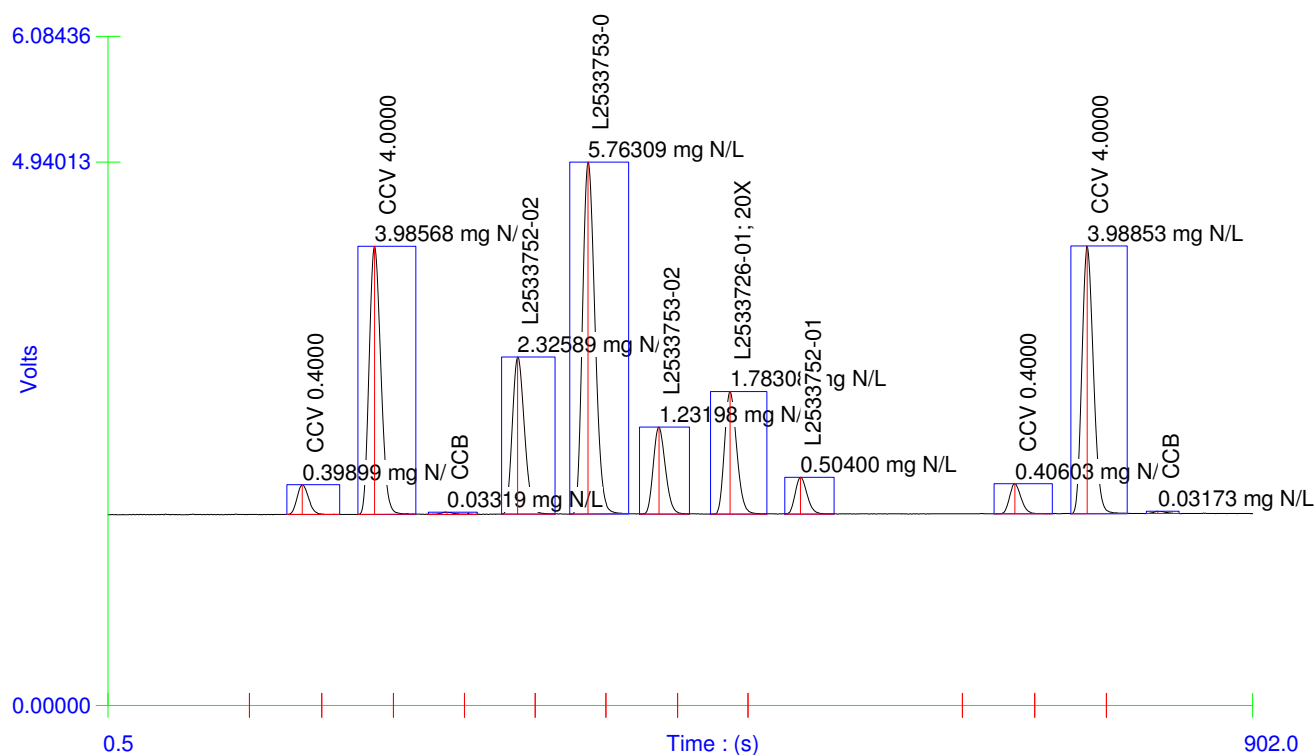
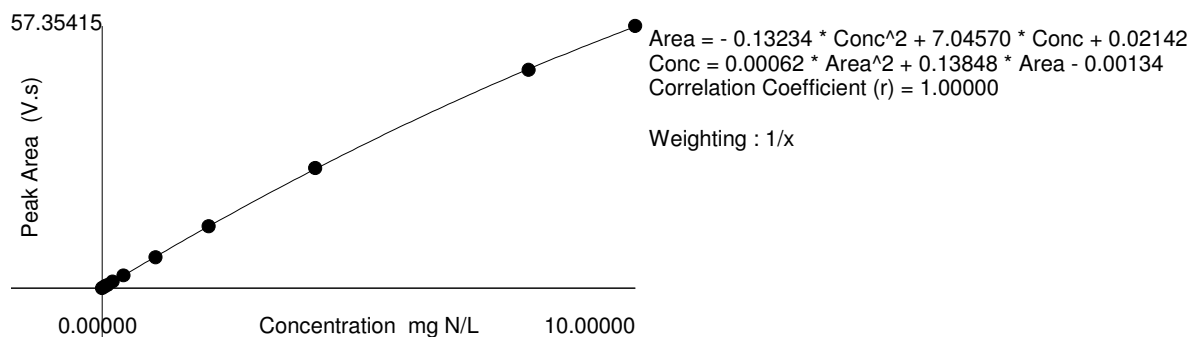


Table : 1 (Ammonia)

	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	57.35415	5.05747	0.0	-0.2	9.96797	6/25/2025	9:52:34 AM
2	8.00000	1	47.69110	4.33630	0.0	0.5	8.00441	6/25/2025	9:53:31 AM
3	4.00000	1	26.28683	2.46056	0.0	-0.8	4.06469	6/25/2025	9:54:29 AM
4	2.00000	1	13.59732	1.28262	0.0	-0.1	1.99558	6/25/2025	9:55:26 AM
5	1.00000	1	6.81424	0.64512	0.0	1.7	0.97093	6/25/2025	9:56:23 AM
6	0.40000	1	2.80437	0.26160	0.0	0.5	0.39187	6/25/2025	9:57:21 AM
7	0.20000	1	1.46410	0.13390	0.0	-2.7	0.20274	6/25/2025	9:58:20 AM
8	0.10000	1	0.71711	0.06658	0.0	1.0	0.09829	6/25/2025	9:59:18 AM
9	0.05000	1	0.37896	0.03335	0.0	-1.5	0.05123	6/25/2025	10:00:15 AM
10	0.00000	1	0.01572	0.00296			0.00084	6/25/2025	10:01:12 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-25-2025_11-27-15AM.OMN Created: 6/25/2025 11:27:15 AM

Original Run Author's Signature: [A1WETCHEMINSTRUMENT]

Current Run Filename: OM_6-25-2025_11-27-15AM.OMN Last Modified: 6/25/2025 11:43:02 AM

Current Run Author's Signature: [A1WETCHEMINSTRUMENT]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	MDF	Weight	TRAY B
CCV 0.4000	1	S6	0.38978			97%
Known Conc:			100.00000			
Calibration:			Table/Fig. : 1			
CCV 4.0000	1	S3	3.97262			99%
Known Conc:			100.00000			
CCB	1	S10	0.02877			
Known Conc:			100.00000			
FILTER BLANK	1	1	0.01351	1.50		
WG2082874-1	1	2	0.04819	1.50		
WG2082874-2	1	3	18.06174	7.50		90%
LCS LO	1	4	1.78851	1.50		89%
X LOQ	1	5	0.23137	1.50		308%, RERUN
L2533523-01	1	6	29.88969	7.50		
L2533523-02	1	7	32.11467	7.50		
L2533525-01	1	8	39.00153	30.00		
X L2533525-02	1	9	39.97971	3.00		
X L2533549-01	1	10	80.96881	150.00		
X CCV 0.4000	1	S6	0.45289			113%, RERUN OK
Known Conc:			100.00000			

Channel 2 (Ammonia High) - Current View

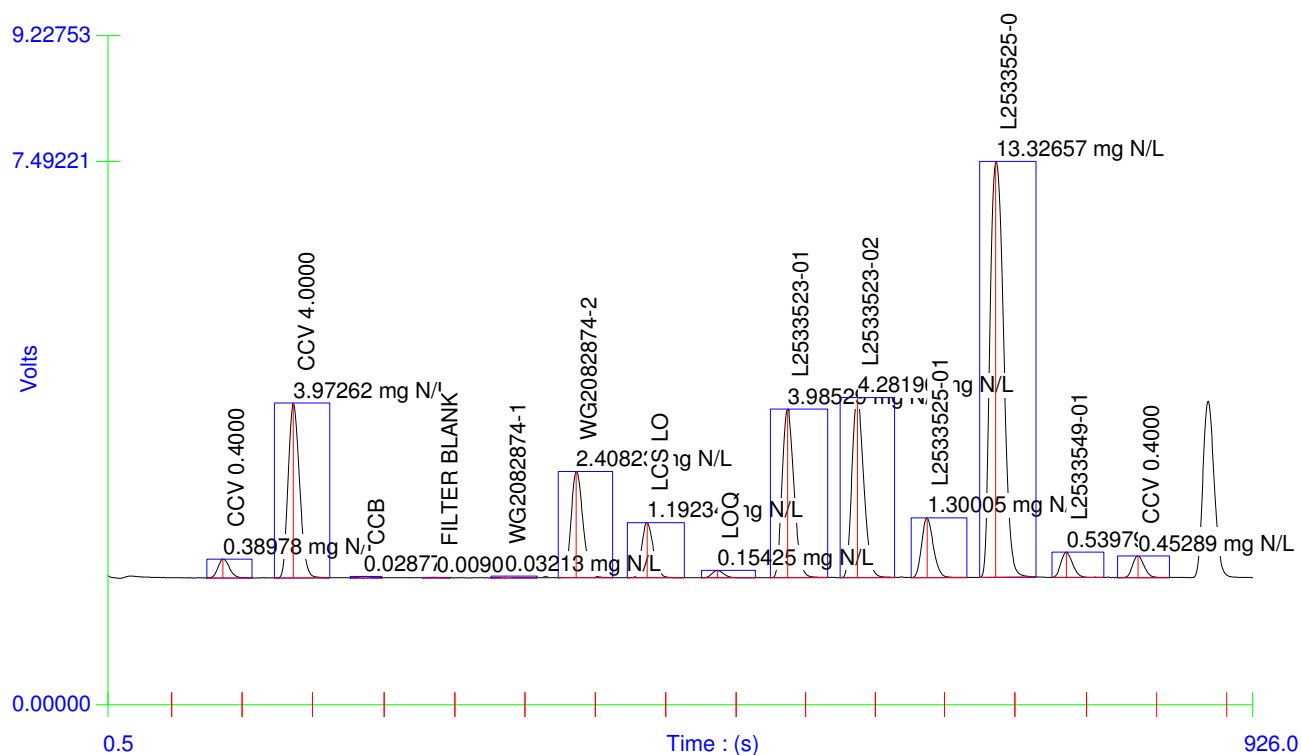
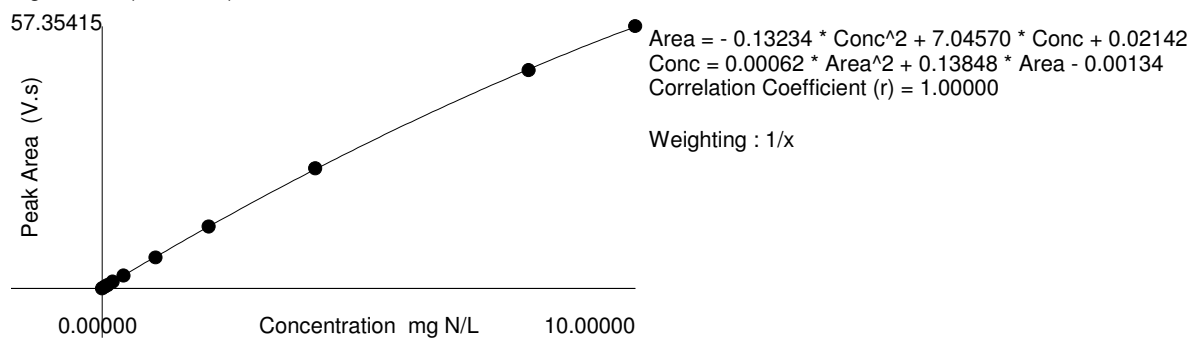


Table : 1 (Ammonia)

	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	57.35415	5.05747	0.0	-0.2	9.96797	6/25/2025	9:52:34 AM
2	8.00000	1	47.69110	4.33630	0.0	0.5	8.00441	6/25/2025	9:53:31 AM
3	4.00000	1	26.28683	2.46056	0.0	-0.8	4.06469	6/25/2025	9:54:29 AM
4	2.00000	1	13.59732	1.28262	0.0	-0.1	1.99558	6/25/2025	9:55:26 AM
5	1.00000	1	6.81424	0.64512	0.0	1.7	0.97093	6/25/2025	9:56:23 AM
6	0.40000	1	2.80437	0.26160	0.0	0.5	0.39187	6/25/2025	9:57:21 AM
7	0.20000	1	1.46410	0.13390	0.0	-2.7	0.20274	6/25/2025	9:58:20 AM
8	0.10000	1	0.71711	0.06658	0.0	1.0	0.09829	6/25/2025	9:59:18 AM
9	0.05000	1	0.37896	0.03335	0.0	-1.5	0.05123	6/25/2025	10:00:15 AM
10	0.00000	1	0.01572	0.00296			0.00084	6/25/2025	10:01:12 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-25-2025_11-48-00AM.OMN Created: 6/25/2025 11:48:00 AM

Original Run Author's Signature: [A1WETCHEMINSTRUMENT]

Current Run Filename: OM_6-25-2025_11-48-00AM.OMN Last Modified: 6/25/2025 12:06:13 PM

Current Run Author's Signature: [A1WETCHEMINSTRUMENT]

Description: Default New Run

TRAY B					
Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	MDF	Weight
CCV 0.4000	1	S6	0.39415		99%
Known Conc:			100.00000		
CCV 4.0000	1	S3	3.99077		100%
Known Conc:			100.00000		
Calibration:			Table/Fig. : 1		
CCB	1	S10	0.03385		
Known Conc:			100.00000		
LOQ	1	5	0.16471	1.50	220%
L2533682-01	1	11	1.10937	1.50	
L2533894-01	1	12	4.88043	1.50	
X L2533910-01	1	13	1062.84229	30.00	
X L2533912-01	1	14	280.83725	15.00	
X L2534090-01	1	15	21.28953	7.50	
L2534090-02	1	16	0.43198	1.50	
L2534099-01	1	17	0.18304	1.50	
L2534130-01	1	18	9.49912	1.50	
X L2535644-04	1	19	0.34614	1.50	
CCV 0.4000	1	S6	0.43132		RERUN 108%
Known Conc:			100.00000		
CCV 4.0000	1	S3	4.01273		100%
Known Conc:			100.00000		
X CCB	1	S10	0.05460		RERUN OK
Known Conc:			100.00000		

Channel 2 (Ammonia High) - Current View

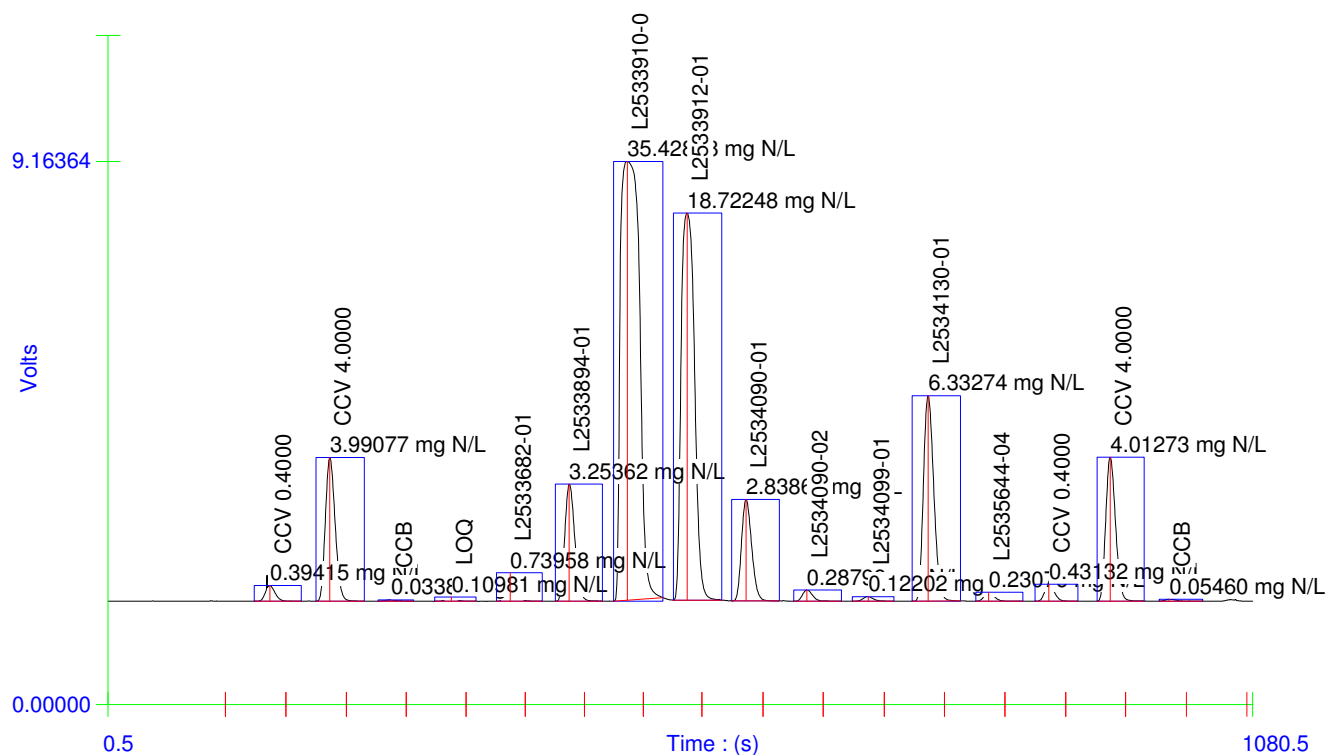
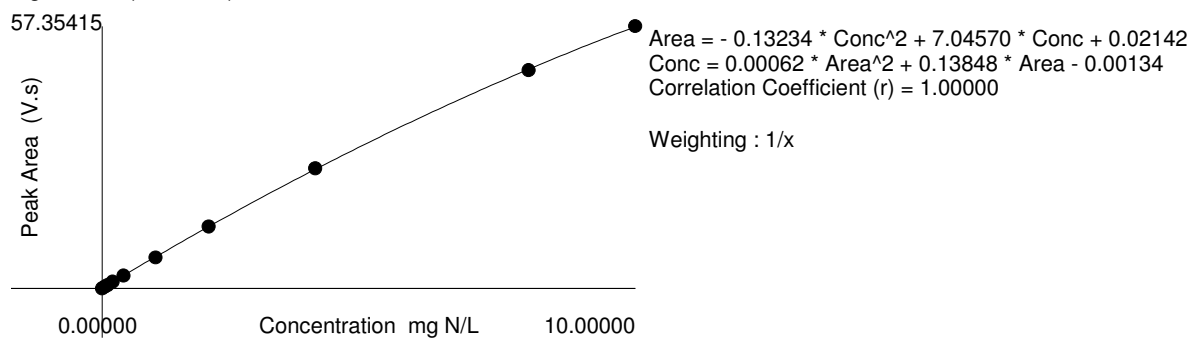


Table : 1 (Ammonia)

	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	57.35415	5.05747	0.0	-0.2	9.96797	6/25/2025	9:52:34 AM
2	8.00000	1	47.69110	4.33630	0.0	0.5	8.00441	6/25/2025	9:53:31 AM
3	4.00000	1	26.28683	2.46056	0.0	-0.8	4.06469	6/25/2025	9:54:29 AM
4	2.00000	1	13.59732	1.28262	0.0	-0.1	1.99558	6/25/2025	9:55:26 AM
5	1.00000	1	6.81424	0.64512	0.0	1.7	0.97093	6/25/2025	9:56:23 AM
6	0.40000	1	2.80437	0.26160	0.0	0.5	0.39187	6/25/2025	9:57:21 AM
7	0.20000	1	1.46410	0.13390	0.0	-2.7	0.20274	6/25/2025	9:58:20 AM
8	0.10000	1	0.71711	0.06658	0.0	1.0	0.09829	6/25/2025	9:59:18 AM
9	0.05000	1	0.37896	0.03335	0.0	-1.5	0.05123	6/25/2025	10:00:15 AM
10	0.00000	1	0.01572	0.00296			0.00084	6/25/2025	10:01:12 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-25-2025_12-08-40PM.OMN Created: 6/25/2025 12:08:40 PM

Original Run Author's Signature: [A1WETCHEMINSTRUMENT]

Current Run Filename: OM_6-25-2025_12-08-40PM.OMN Last Modified: 6/25/2025 12:26:41 PM

Current Run Author's Signature: [A1WETCHEMINSTRUMENT]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 2	MDF	Weight	TRAY B
			Ammonia (mg N/L)			
CCV 0.4000	1	S6	0.39973			100%
Known Conc:			100.00000			
CCV 4.0000	1	S3	3.96118			99%
Known Conc:			100.00000			
Calibration:			Table/Fig. : 1			
CCB	1	S10	0.02927			
Known Conc:			100.00000			
L2535644-04	1	19	0.04594	1.50		
WG2082874-3	1	20	0.03503	1.50		
WG2082874-4	1	21	3.95254	1.50		
L2537679-02	1	22	0.20783	1.50		
L2537679-05	1	23	0.06116	1.50		
L2537679-08	1	24	0.03246	1.50		
L2537679-11	1	25	0.02517	1.50		
L2533525-02; 10X	1	9	36.13472	30.00		
L2533549-01	1	10	33.08473	150.00		
L2533910-01; 50X	1	13	3229.28711	1500.00		
CCV 0.4000	1	S6	0.47397			
Known Conc:			100.00000			
CCV 4.0000	1	S3	3.96050			
Known Conc:			100.00000			
CCB	1	S10	0.06683			
Known Conc:			100.00000			

Channel 2 (Ammonia High) - Current View

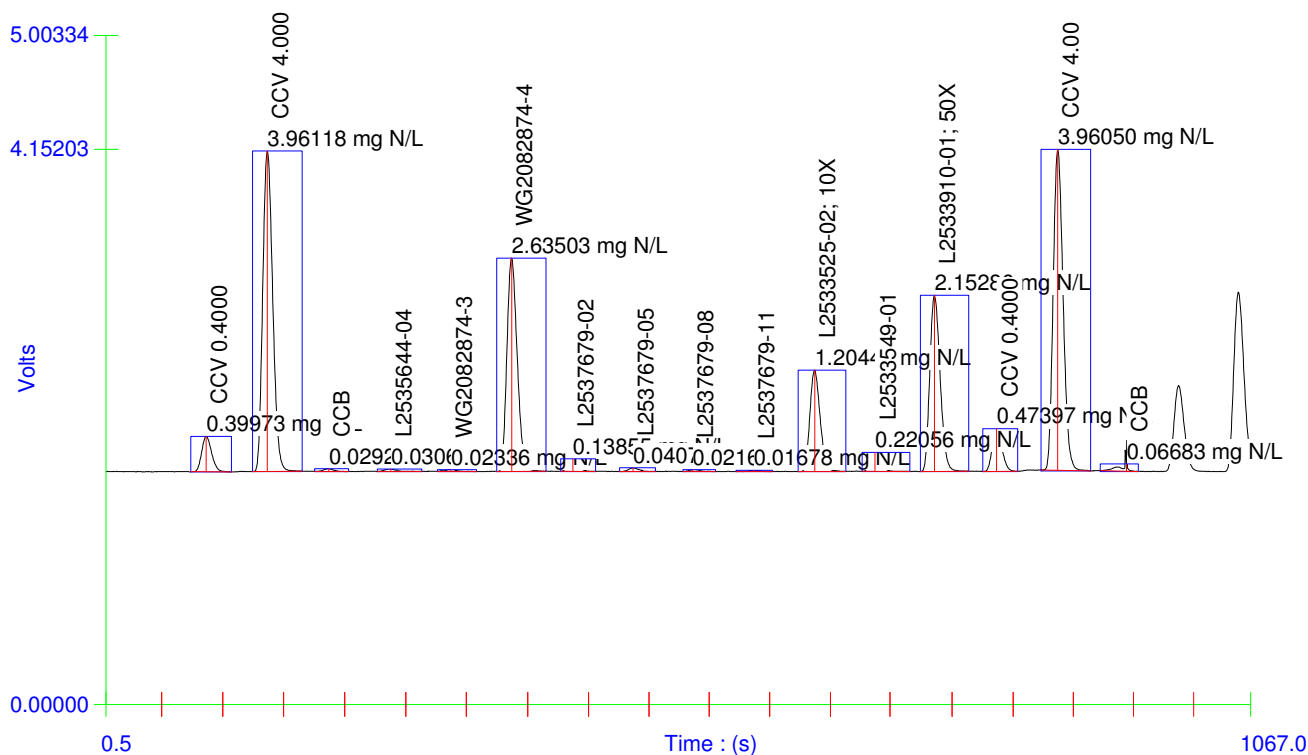
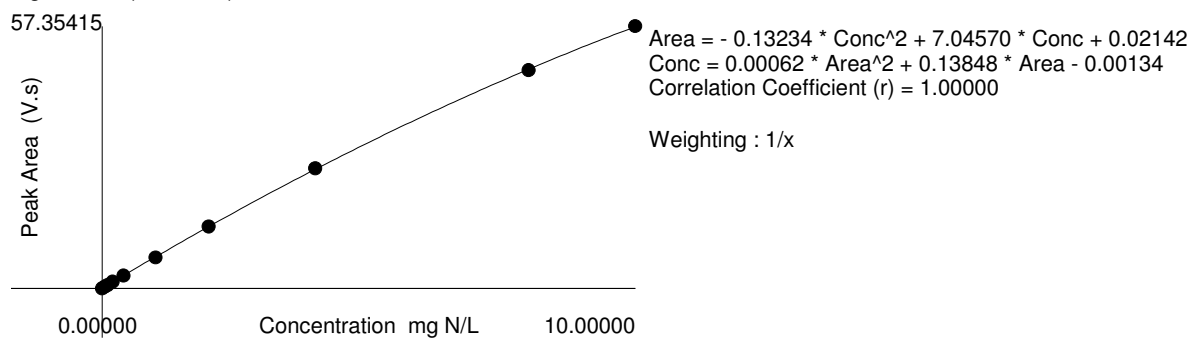


Table : 1 (Ammonia)

	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	57.35415	5.05747	0.0	-0.2	9.96797	6/25/2025	9:52:34 AM
2	8.00000	1	47.69110	4.33630	0.0	0.5	8.00441	6/25/2025	9:53:31 AM
3	4.00000	1	26.28683	2.46056	0.0	-0.8	4.06469	6/25/2025	9:54:29 AM
4	2.00000	1	13.59732	1.28262	0.0	-0.1	1.99558	6/25/2025	9:55:26 AM
5	1.00000	1	6.81424	0.64512	0.0	1.7	0.97093	6/25/2025	9:56:23 AM
6	0.40000	1	2.80437	0.26160	0.0	0.5	0.39187	6/25/2025	9:57:21 AM
7	0.20000	1	1.46410	0.13390	0.0	-2.7	0.20274	6/25/2025	9:58:20 AM
8	0.10000	1	0.71711	0.06658	0.0	1.0	0.09829	6/25/2025	9:59:18 AM
9	0.05000	1	0.37896	0.03335	0.0	-1.5	0.05123	6/25/2025	10:00:15 AM
10	0.00000	1	0.01572	0.00296			0.00084	6/25/2025	10:01:12 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-25-2025_12-29-20PM.OMN Created: 6/25/2025 12:29:20 PM

Original Run Author's Signature: [A1WETCHEMINSTRUMENT]

Current Run Filename: OM_6-25-2025_12-29-20PM.OMN Last Modified: 6/25/2025 12:53:05 PM

Current Run Author's Signature: [A1WETCHEMINSTRUMENT]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	MDF	Weight	TRAY B
CCV 0.4000	1	S6	0.40079			100%
Known Conc:			100.00000			
CCV 4.0000	1	S3	3.93413			98%
Known Conc:			100.00000			
Calibration:			Table/Fig. : 1			
CCB	1	S10	0.03248			
Known Conc:			100.00000			
L2535644-04	1	19	0.04494	1.50		
WG2082874-3	1	20	0.03195	1.50		RPD=NC
WG2082874-4	1	21	3.92241	1.50		98%
L2537679-02	1	22	0.21557	1.50		
L2537679-05	1	23	0.06275	1.50		
L2537679-08	1	24	0.03438	1.50		
L2537679-11	1	25	0.02257	1.50		
L2533910-01; 50X	1	13	3200.42749	1500.00		
L2533525-02; 10X	1	9	37.87331	30.00		
L2533549-01	1	10	34.11257	150.00		
CCV 0.4000	1	S6	0.40503			101%
Known Conc:			100.00000			
CCV 4.0000	1	S3	3.93648			98%
Known Conc:			100.00000			
CCB	1	S10	0.02953			
Known Conc:			100.00000			
L2533912-01; 20X	1	14	298.76160	300.00		
L2534090-01	1	15	16.22043	7.50		
CCV 0.4000	1	S6	0.40793			102%
Known Conc:			100.00000			
CCV 4.0000	1	S3	3.93261			98%
Known Conc:			100.00000			
CCB	1	S10	0.02779			
Known Conc:			100.00000			

Channel 2 (Ammonia High) - Current View

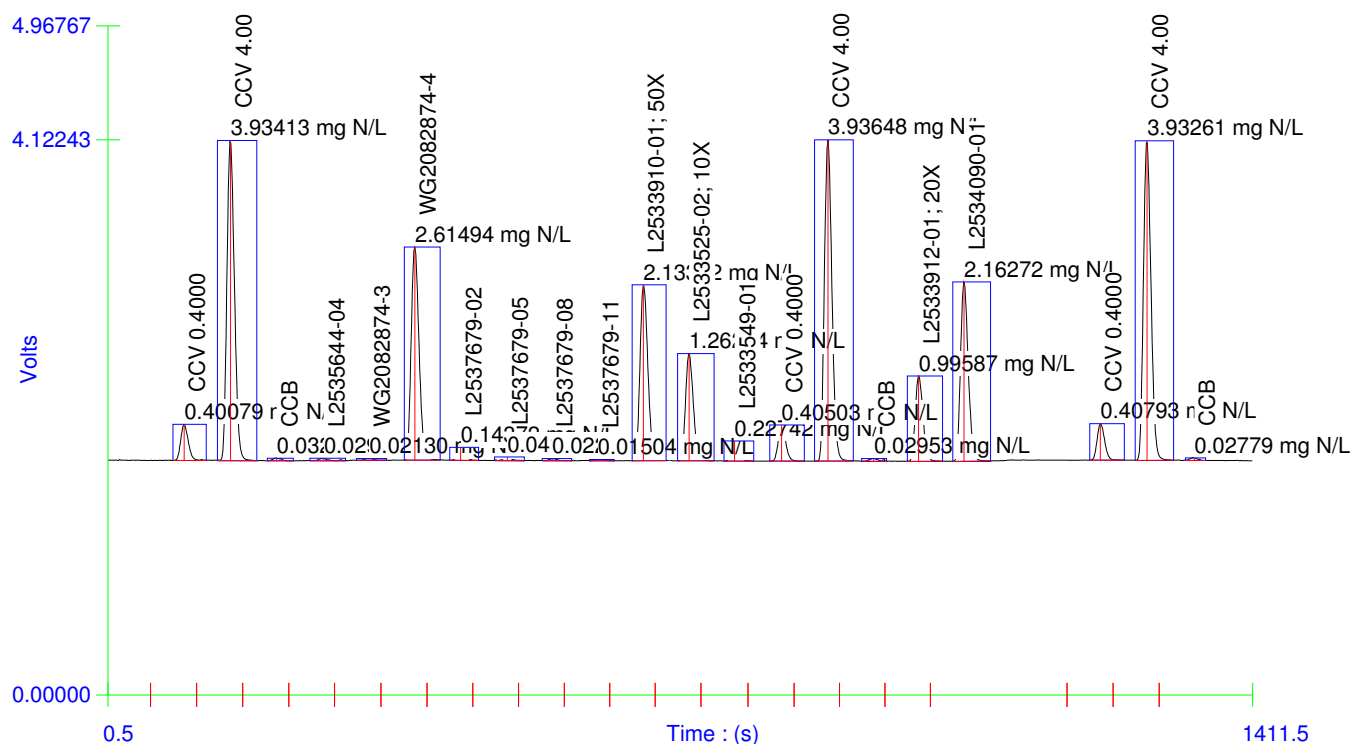
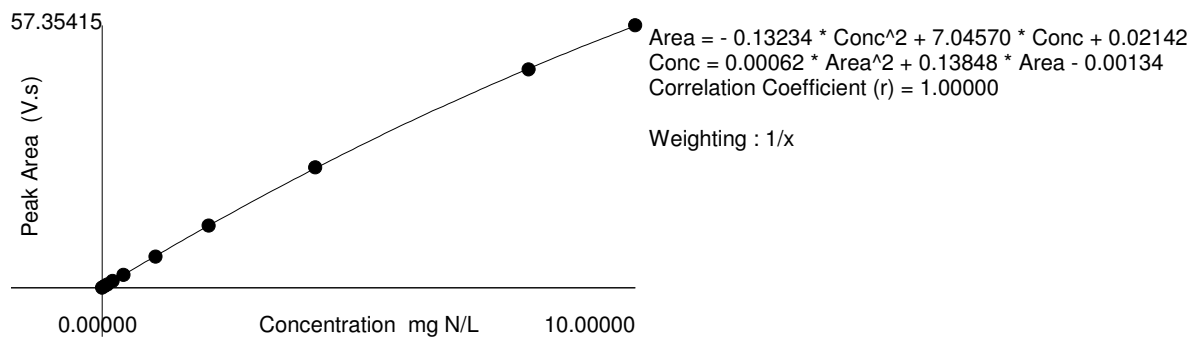


Table : 1 (Ammonia)

	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	57.35415	5.05747	0.0	-0.2	9.96797	6/25/2025	9:52:34 AM
2	8.00000	1	47.69110	4.33630	0.0	0.5	8.00441	6/25/2025	9:53:31 AM
3	4.00000	1	26.28683	2.46056	0.0	-0.8	4.06469	6/25/2025	9:54:29 AM
4	2.00000	1	13.59732	1.28262	0.0	-0.1	1.99558	6/25/2025	9:55:26 AM
5	1.00000	1	6.81424	0.64512	0.0	1.7	0.97093	6/25/2025	9:56:23 AM
6	0.40000	1	2.80437	0.26160	0.0	0.5	0.39187	6/25/2025	9:57:21 AM
7	0.20000	1	1.46410	0.13390	0.0	-2.7	0.20274	6/25/2025	9:58:20 AM
8	0.10000	1	0.71711	0.06658	0.0	1.0	0.09829	6/25/2025	9:59:18 AM
9	0.05000	1	0.37896	0.03335	0.0	-1.5	0.05123	6/25/2025	10:00:15 AM
10	0.00000	1	0.01572	0.00296			0.00084	6/25/2025	10:01:12 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-25-2025_12-59-51PM.OMN Created: 6/25/2025 12:59:51 PM

Original Run Author's Signature: [A1WETCHEMINSTRUMENT]

Current Run Filename: OM_6-25-2025_12-59-51PM.OMN Last Modified: 6/25/2025 1:17:32 PM

Current Run Author's Signature: [A1WETCHEMINSTRUMENT]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	MDF	Weight	TRAY C
CCV 0.4000	1	S6	0.37348			93%
Known Conc:			100.00000			
Calibration:			Table/Fig. : 1			
CCV 4.0000	1	S3	3.89343			97%
Known Conc:			100.00000			
CCB	1	S10	0.02451			
Known Conc:			100.00000			
X WG2082885-1 T	1	1	0.12469			RERUN
WG2082885-2 T	1	2	36.97880	15.00		92%
LCS LO T	1	3	4.42984	3.00		111%
L2533519-01 T	1	4	1.87666	3.00		
L2533519-02 T	1	5	1.61243	3.00		
L2536422-02 T	1	6	1.54724	15.00		
L2537655-01 T	1	7	0.69988	3.00		
L2537655-02 T	1	8	0.42325	3.00		
L2537655-04 T	1	10	0.15805	3.00		
L2537655-05 T	1	11	0.14512	3.00		
CCV 0.4000	1	S6	0.36744			92%
Known Conc:			100.00000			
CCV 4.0000	1	S3	3.85405			96%
Known Conc:			100.00000			
CCB	1	S10	0.04791			
Known Conc:			100.00000			

Channel 2 (Ammonia High) - Current View

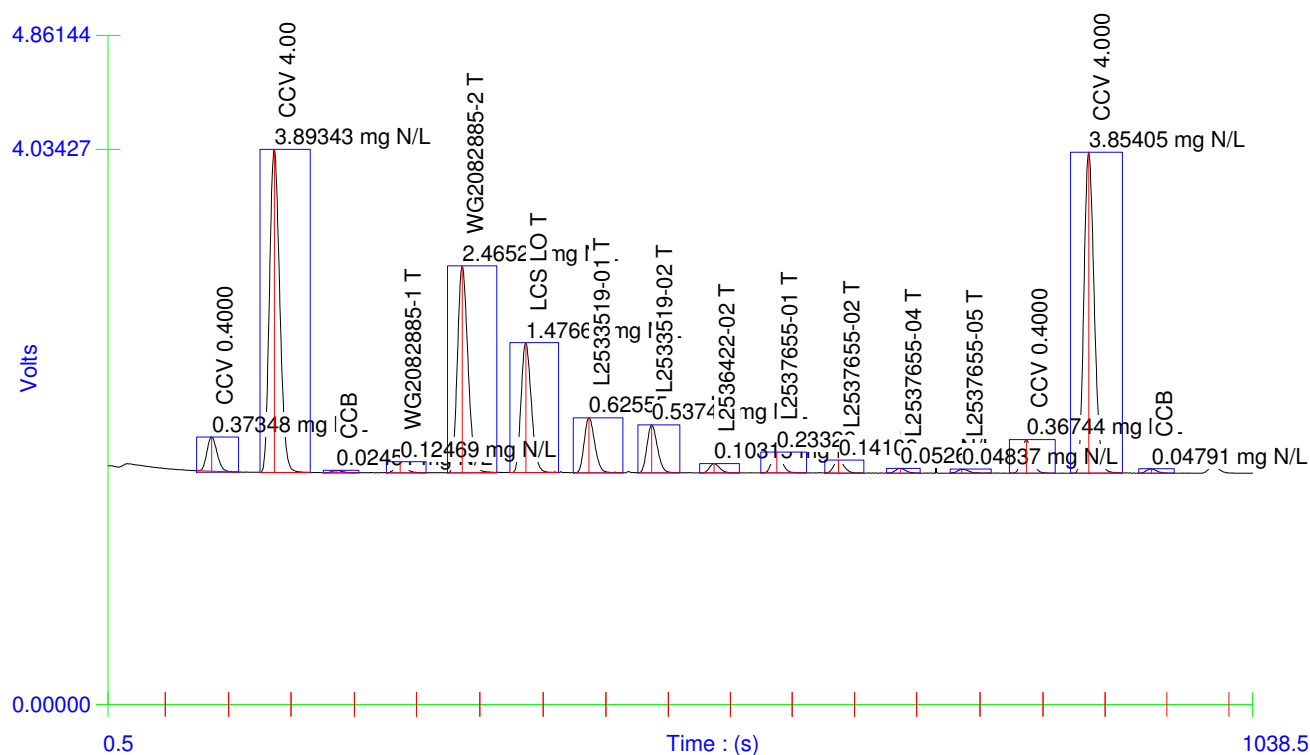
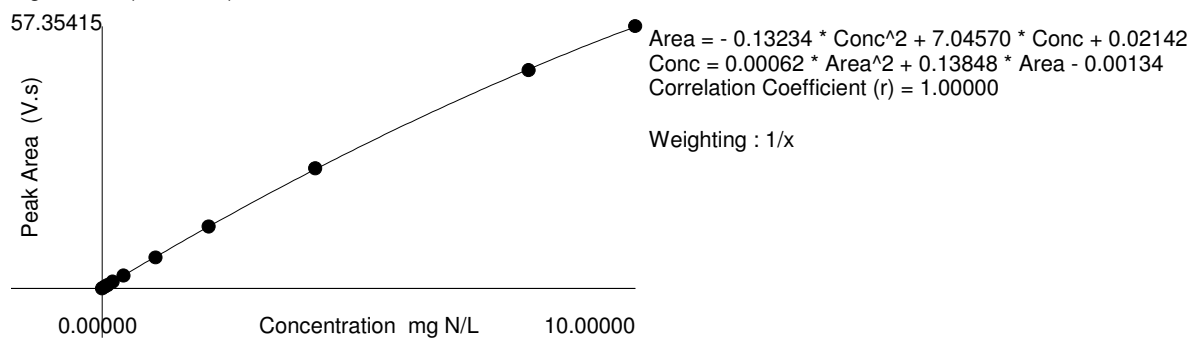


Table : 1 (Ammonia)

	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	57.35415	5.05747	0.0	-0.2	9.96797	6/25/2025	9:52:34 AM
2	8.00000	1	47.69110	4.33630	0.0	0.5	8.00441	6/25/2025	9:53:31 AM
3	4.00000	1	26.28683	2.46056	0.0	-0.8	4.06469	6/25/2025	9:54:29 AM
4	2.00000	1	13.59732	1.28262	0.0	-0.1	1.99558	6/25/2025	9:55:26 AM
5	1.00000	1	6.81424	0.64512	0.0	1.7	0.97093	6/25/2025	9:56:23 AM
6	0.40000	1	2.80437	0.26160	0.0	0.5	0.39187	6/25/2025	9:57:21 AM
7	0.20000	1	1.46410	0.13390	0.0	-2.7	0.20274	6/25/2025	9:58:20 AM
8	0.10000	1	0.71711	0.06658	0.0	1.0	0.09829	6/25/2025	9:59:18 AM
9	0.05000	1	0.37896	0.03335	0.0	-1.5	0.05123	6/25/2025	10:00:15 AM
10	0.00000	1	0.01572	0.00296			0.00084	6/25/2025	10:01:12 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-25-2025_01-22-09PM.OMN Created: 6/25/2025 1:22:09 PM

Original Run Author's Signature: [A1WETCHEMINSTRUMENT]

Current Run Filename: OM_6-25-2025_01-22-09PM.OMN Last Modified: 6/25/2025 1:44:52 PM

Current Run Author's Signature: [A1WETCHEMINSTRUMENT]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 2	MDF	Weight	TRAY C
			Ammonia (mg N/L)			
CCV 0.4000	1	S6	0.36443			91%
Known Conc:			100.00000			
CCV 4.0000	1	S3	3.84852			96%
Known Conc:			100.00000			
Calibration:			Table/Fig. : 1			
CCB	1	S10	0.04913			
Known Conc:			100.00000			
L2537655-03 T	1	9	0.26445	3.00		
L2538013-01 T	1	12	0.16256	3.00		
WG2082885-4 T	1	13	7.30634	3.00		91%
WG2082885-3 T	1	14	0.16029	3.00		RPD=NC
L2538013-02 T	1	15	0.15188	3.00		
L2538013-03 T	1	16	0.14597	3.00		
L2538013-04 T	1	17	0.12627	3.00		
L2538013-05 T	1	18	0.22934	3.00		
L2538013-06 T	1	19	1.20520	3.00		
L2538013-07 T	1	20	0.18415	3.00		
CCV 0.4000	1	S6	0.37840			95%
Known Conc:			100.00000			
CCV 4.0000	1	S3	3.83432			96%
Known Conc:			100.00000			
CCB	1	S10	0.03874			
Known Conc:			100.00000			
X WG2082885-1 T	1	1	0.13839			
X CCV 0.4000	1	S6	0.35382			
Known Conc:			100.00000			

Channel 2 (Ammonia High) - Current View

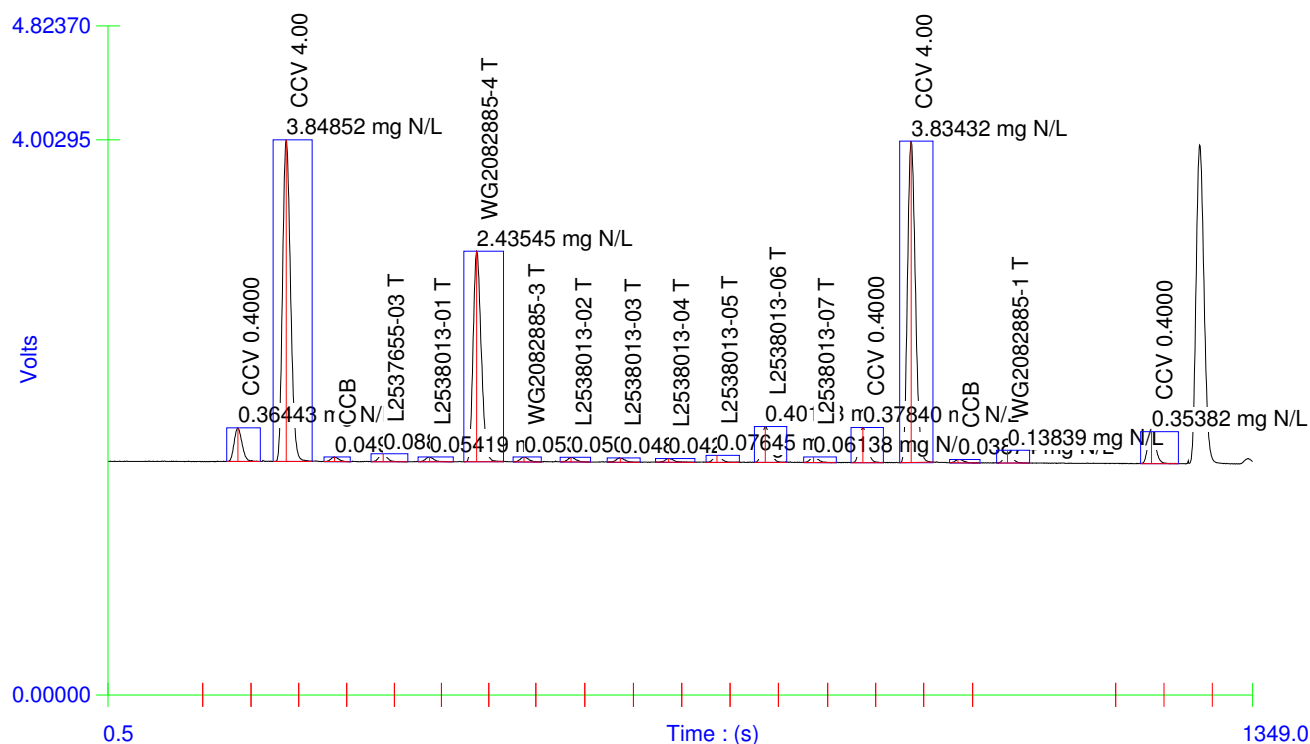
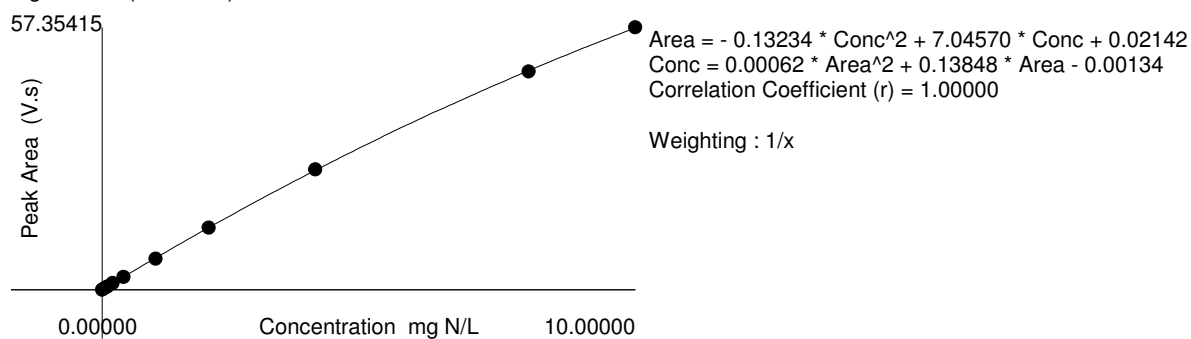


Table : 1 (Ammonia)

	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	57.35415	5.05747	0.0	-0.2	9.96797	6/25/2025	9:52:34 AM
2	8.00000	1	47.69110	4.33630	0.0	0.5	8.00441	6/25/2025	9:53:31 AM
3	4.00000	1	26.28683	2.46056	0.0	-0.8	4.06469	6/25/2025	9:54:29 AM
4	2.00000	1	13.59732	1.28262	0.0	-0.1	1.99558	6/25/2025	9:55:26 AM
5	1.00000	1	6.81424	0.64512	0.0	1.7	0.97093	6/25/2025	9:56:23 AM
6	0.40000	1	2.80437	0.26160	0.0	0.5	0.39187	6/25/2025	9:57:21 AM
7	0.20000	1	1.46410	0.13390	0.0	-2.7	0.20274	6/25/2025	9:58:20 AM
8	0.10000	1	0.71711	0.06658	0.0	1.0	0.09829	6/25/2025	9:59:18 AM
9	0.05000	1	0.37896	0.03335	0.0	-1.5	0.05123	6/25/2025	10:00:15 AM
10	0.00000	1	0.01572	0.00296			0.00084	6/25/2025	10:01:12 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-25-2025_02-07-47PM.OMN Created: 6/25/2025 2:07:47 PM

Original Run Author's Signature: [A1WETCHEMINSTRUMENT]

Current Run Filename: OM_6-25-2025_02-07-47PM.OMN Last Modified: 6/25/2025 2:18:21 PM

Current Run Author's Signature: [A1WETCHEMINSTRUMENT]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	MDF	Weight	TRAY C
CCV 0.4000	1	S6	0.39904			100%
Known Conc:			100.00000			
CCV 4.0000	1	S3	3.90650			98%
Known Conc:			100.00000			
Calibration:			Table/Fig. : 1			
CCB	1	S10	0.01585			
Known Conc:			100.00000			
WG2082885-1 T	1	1	0.13445			+BLANK
CCV 0.4000	1	S6	0.38315			96%
Known Conc:			100.00000			
CCV 4.0000	1	S3	3.88420			97%
Known Conc:			100.00000			
CCB	1	S10	0.03070			
Known Conc:			100.00000			

Channel 2 (Ammonia High) - Current View

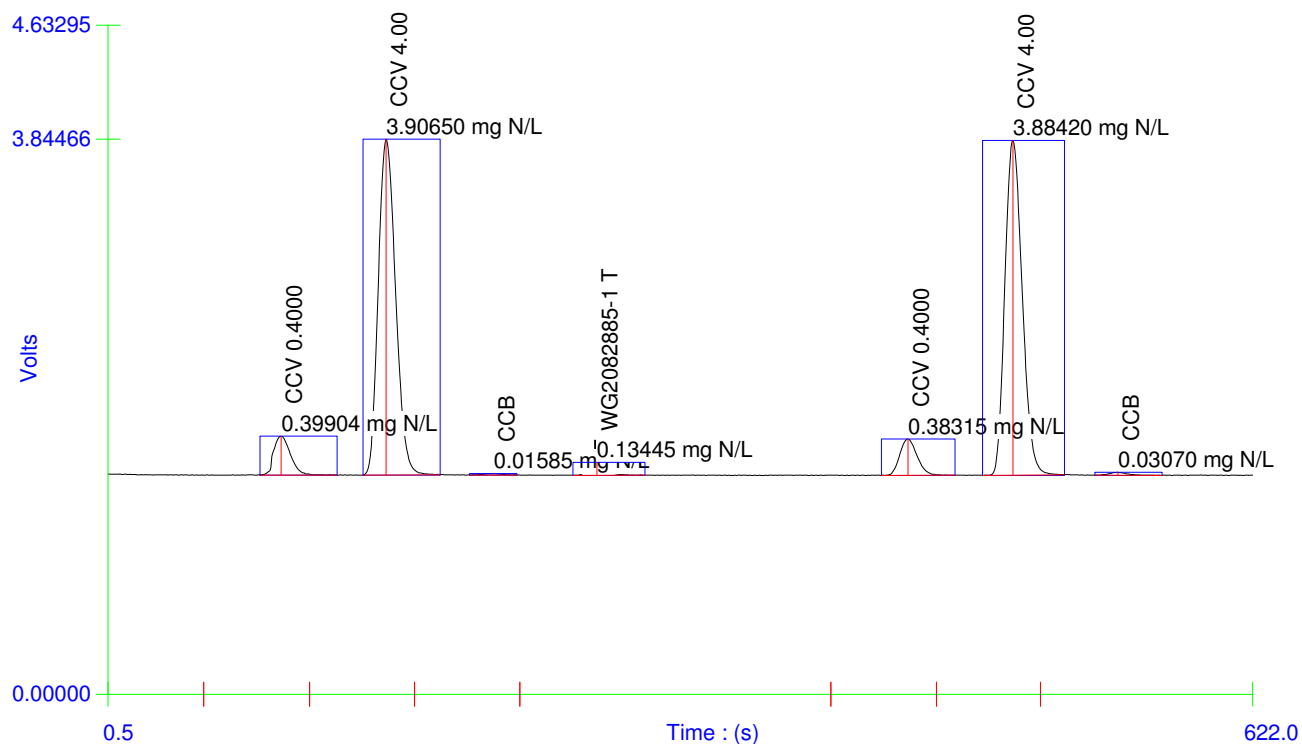
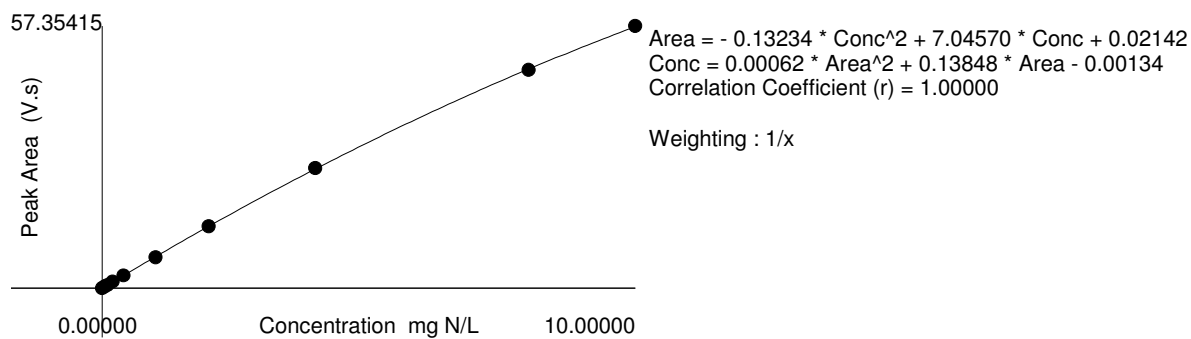


Table : 1 (Ammonia)

	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	57.35415	5.05747	0.0	-0.2	9.96797	6/25/2025	9:52:34 AM
2	8.00000	1	47.69110	4.33630	0.0	0.5	8.00441	6/25/2025	9:53:31 AM
3	4.00000	1	26.28683	2.46056	0.0	-0.8	4.06469	6/25/2025	9:54:29 AM
4	2.00000	1	13.59732	1.28262	0.0	-0.1	1.99558	6/25/2025	9:55:26 AM
5	1.00000	1	6.81424	0.64512	0.0	1.7	0.97093	6/25/2025	9:56:23 AM
6	0.40000	1	2.80437	0.26160	0.0	0.5	0.39187	6/25/2025	9:57:21 AM
7	0.20000	1	1.46410	0.13390	0.0	-2.7	0.20274	6/25/2025	9:58:20 AM
8	0.10000	1	0.71711	0.06658	0.0	1.0	0.09829	6/25/2025	9:59:18 AM
9	0.05000	1	0.37896	0.03335	0.0	-1.5	0.05123	6/25/2025	10:00:15 AM
10	0.00000	1	0.01572	0.00296			0.00084	6/25/2025	10:01:12 AM

Figure : 1 (Ammonia)



Quality Control

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2538013-01
 Matrix Spike : WG2082885-4
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/25/25 13:28
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Nitrogen, Total Kjeldahl	ND	8	6.90	86					77-111	24

Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/25/25 13:27
Dup Sample ID	: WG2082885-3	DUP Analysis Date	: 06/25/25 13:29

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	ND	ND	NC	24

Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2082885-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/25/25 13:04
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Nitrogen, Total Kjeldahl	40.0	35.0	88.					78-122	24



Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soll/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)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soli/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)

$$\text{TKN-N mg/L} = \text{mg/L direct reading} \times \text{dilution factor}$$

Sequence Logs

BOOK
TITLE

PROJECT

NH₃ 6/25/25 KOM

Continued from Page

Tray A (09-50-46AM, 10-23-53PM, 10-49-09AM, 11-08-56AM)
prep 6/24/25 @ 21:54

Tray B (11-27-15AM, 11-48-00PM, 12-08-10PM, 12-29-20PM)
prep 6/24/25 @ 22:14

- 1 Hi ICV 8.0
- 2 Lo ICV 1.0
- 3 JCB
- 4 W62082868-1.BIK
- 5 -2; LCS TI; SX
- 6 LCS Lo
- 7 33323 03 (20x); 10x 1 110
- 8 08 (20x); 10x 1 110
- 9 09 (20x); 10x 1 110
- 10 -10 (20x); 10x 1 110
- 11 -11 (20x); 10x 1 110
- 12 -12 (20x); 10x 1 110
- 13 -13 (20x); 10x 1 110
- 14 -14 (20x); 10x 1 110
- 15 -15 (5x); 10x 1 110
- 16 33668 01 (5x)
- 17 02
- 18 03; 50x 1 150
- 19 04; 10x 1 110
- 20 04 Dup; 10x 1 110
- 21 04 MS; 10x 1 110
- 22 33706 01 (5x)
- 23 02
- 24 02 MS
- 25 02 Dup
- 26 33726 01; 20x 0.5 110
- 27 33752 01 (5x)
- 28 02
- 29 33753 01 (2x)
- 30 02

- 1 Filter Blank
- 2 W62082874-1.BIK
- 3 -2; LCS TI; SX
- 4 LCS Lo
- 5 LoQ; reman
- 6 33523 01 (5x)
- 7 02 (5x)
- 8 33525 01 (20x)
- 9 02 (2x); 10x 1 110
- 10 33549 01 (100x)
- 11 33682 01
- 12 33894 01
- 13 33910 01 (20x); 50x 1 150
- 14 33912 01 (10x); 20x 0.5 110
- 15 34090 01 (5x)
- 16 02
- 17 34099 01
- 18 34130 01
- 19 35644 04; reman
- 20 04 Dup
- 21 04 MS
- 22 37699 02
- 23 05
- 24 08
- 25 -11

Date: 6/25/25
Sodium Phenolate: 6/25 R-4361
Sodium Hypochlorate: 6/25 stopshop
Sodium Nitroprusside: 6/25 R-316A
Boric Acid Soln.: 6/25 R-4266
ICV 1.0: 6/20/25 WC-3612
ICV 8.0: 6/20/25 WC-3612
Cal. Std: 6/25 WC-3561
See Front Page for Instructions:

ed from Page

SIGNATURE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE Nth 6/25/25 REM cont. PROJECT

Continued from Page

Tray C (12:59-51PM, 01-22-09PM, 02-07-97PM)
prep 6/24/25 @ 22:32

Tray D
prep 6/25/25 @ 00:22

5 1 ~~1~~ W62082885-1T:Blk, reman
2 -2T: LOST HI: 5X
3 LCS LOT
4 33519-01T
5 02T
10 6 36422-02T (5X)
7 37655-01T
8 02T
9 03T
10 04T
15 11 05T
12 38013-01T
13 01T MS
14 01T Dup
15 02T
20 16 03T
17 04T
18 05T
19 06T
20 07T

1 W62083038-1:Blk
2 -2T: LOST HI: 5X
3 LCS LOT
4 34090-01
5 02
6 34133-01
7 01 MS
8 01 Dup
9 02
10 34137-01
11 02
12 34374-01
13 02
14 03
15 04
16 34430-01
17 02
18 03
19 38627-02
20 04

Continued from Page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

Sample Preparation

Facility: Westborough, MA

Pace Analytical

WG2082885



Samples		vol some	dilution IX	Final vol 150ml
Blank				
Low				
High				
1253	3519 - 01			
	- 02			
	6422 - 02		5X (10750) RE 11	
	7655 - 01		IX	
	- 02			
	- 03			
	- 04			
	- 05			
8013	- 01 PA			
	- 01 Dup			
	- 01 ms			
	- 02			
	- 03			
	- 04			
	- 05			
	- 06			
	- 07			
Same standards as reagents as previous page # 119				
				06/24/25 @ 22.32 CFA

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 04:24
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 04:33
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 04:34
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 06:38
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-B1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 04:36
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U



Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2080162-1
Client ID : WG2080162-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500NO3-F
Lab File ID : NO3250618-A1
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/18/25 03:33
Dilution Factor : 1
Analyst : KAF
Instrument ID : FIA1
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	0.039	0.050	0.013	J



Form 1
WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2080162-3
Client ID : MW-11SDUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500NO3-F
Lab File ID : NO3250618-A1
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : 06/16/25 12:05
Date Received : 06/16/25
Date Analyzed : 06/18/25 04:32
Dilution Factor : 1
Analyst : KAF
Instrument ID : FIA1
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 04:24
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	0.364	0.100	0.022	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 04:33
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	0.272	0.100	0.022	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 04:34
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	ND	0.100	0.022	U

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 06:38
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-B1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	1.46	0.100	0.022	



Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 04:36
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	0.647	0.100	0.022	

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2080164-1
Client ID : WG2080164-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500NO3-F
Lab File ID : NO3250618-A1
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/18/25 03:38
Dilution Factor : 1
Analyst : KAF
Instrument ID : FIA1
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	ND	0.100	0.022	U

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2080164-3	Date Collected	: 06/16/25 12:05
Client ID	: MW-11SDUP	Date Received	: 06/16/25
Sample Location	:	Date Analyzed	: 06/18/25 04:29
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	0.356	0.100	0.023	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 04:24
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	0.36	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 04:33
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	0.27	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 04:34
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 06:38
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-B1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	1.4	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/18/25 04:36
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250618-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	0.65	0.10	0.046	

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2080170-1
Client ID : WG2080170-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500NO3-F
Lab File ID : NO3250618-A1
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/18/25 03:48
Dilution Factor : 1
Analyst : KAF
Instrument ID : FIA1
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U



Form 1
WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2080170-3
Client ID : WG2080170-3 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500NO3-F
Lab File ID : NO3250618-A1
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : 06/17/25 11:30
Date Received : 06/17/25
Date Analyzed : 06/18/25 05:31
Dilution Factor : 1
Analyst : KAF
Instrument ID : FIA1
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	1.1	0.10	0.05	

Sample Raw Data

Graphical report generated by FIAsoft v3.1.10

Report generated on 2025-06-18 06:26:54

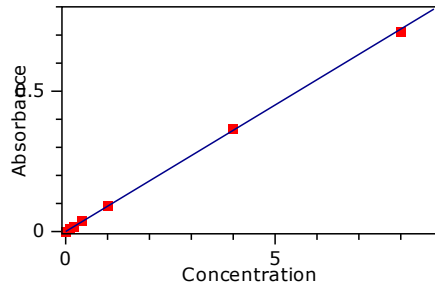
Data file (.dat): C:\FIALab\Autosave Data\2025-06-18-062623.dat

Dataset Notes:

Analyst	
---------	--

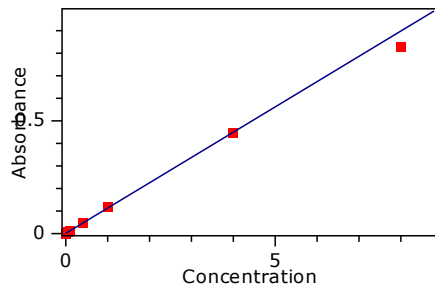
Dataset Notes Table Location: C:\FIALab\FIALab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
 Fit_Order: 1
 Weighting: 1/response
 Standard relation
 Coefficients:
 A: 0.00003
 B: 0.09016
 R^2 : 0.99986
 RSE(%): 1.06150
 % Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
2	NOx 8.0ppm	0.71130	8.00000	7.88850	1.39	2025-06-18T02:58:16
3	NOx 4.0ppm	0.36460	4.00000	4.04310	1.08	2025-06-18T02:59:26
4	NOx 1.0ppm	0.09030	1.00000	1.00140	0.14	2025-06-18T03:00:34
5	NOx 0.4ppm	0.03640	0.40000	0.40350	0.88	2025-06-18T03:01:42
6	NOx 0.2ppm	0.01790	0.20000	0.19850	0.77	2025-06-18T03:02:52
7	NOx 0.1ppm	0.00910	0.10000	0.10020	0.15	2025-06-18T03:04:03
8	NOx 0.0ppm	0.00000	0.00000	-0.00040	NA	2025-06-18T03:04:52



Channel: 2-NO2
 Fit_Order: 1
 Weighting: 1/response
 Standard relation
 Coefficients:
 A: 0.00102
 B: 0.11218
 R^2 : 0.99865
 RSE(%): 6.71582
 % Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
9	Nitrite 8.0ppm	0.82590	8.00000	7.35300	8.09	2025-06-18T03:06:10
10	Nitrite 4.0ppm	0.44530	4.00000	3.96000	1.00	2025-06-18T03:07:20
11	Nitrite 1.0ppm	0.11720	1.00000	1.03520	3.52	2025-06-18T03:08:27
12	Nitrite 0.4ppm	0.04910	0.40000	0.42830	7.08	2025-06-18T03:09:37
13	Nitrite 0.1ppm	0.01290	0.10000	0.10590	5.94	2025-06-18T03:10:48
14	Nitrite 0.05ppm	0.00640	0.05000	0.04800	4.01	2025-06-18T03:11:58
15	Nitrite 0.0ppm	0.00030	0.00000	-0.00600	NA	2025-06-18T03:13:19

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	?	0.0002	1	1	1	0.0017		2025-06-18T02:57:00
NOx 8.0ppm	2	Standard	8	0.7113	1	1	1	7.8885		2025-06-18T02:58:16
NOx 4.0ppm	3	Standard	4	0.3646	1	1	1	4.0431		2025-06-18T02:59:26
NOx 1.0ppm	4	Standard	1	0.0903	1	1	1	1.0014		2025-06-18T03:00:34
NOx 0.4ppm	5	Standard	0.4	0.0364	1	1	1	0.4035		2025-06-18T03:01:42
NOx 0.2ppm	6	Standard	0.2	0.0179	1	1	1	0.1985		2025-06-18T03:02:52
NOx 0.1ppm	7	Standard	0.1	0.0091	1	1	1	0.1002		2025-06-18T03:04:03
NOx 0.0ppm	8	Standard	0	0.0000	1	1	1	-0.0004		2025-06-18T03:04:52
Nitrite 8.0ppm	9	Standard	?	0.7325	1	1	1	8.1234	OVR	2025-06-18T03:06:24
Nitrite 4.0ppm	10	Standard	?	0.3845	1	1	1	4.2637		2025-06-18T03:07:34
Nitrite 1.0ppm	11	Standard	?	0.0955	1	1	1	1.0589		2025-06-18T03:08:43
Nitrite 0.4ppm	12	Standard	?	0.0394	1	1	1	0.4370		2025-06-18T03:09:51
Nitrite 0.1ppm	13	Standard	?	0.0099	1	1	1	0.1091		2025-06-18T03:11:02
Nitrite 0.05ppm	14	Standard	?	0.0051	1	1	1	0.0565		2025-06-18T03:12:12
Nitrite 0.0ppm	15	Standard	?	0.0000	1	1	1	-0.0004		2025-06-18T03:13:44
CCV NO3	16	QC	1	0.0932	1	1	1	1.0334		2025-06-18T03:14:30
CCV NO2	17	QC	?	0.0988	1	1	1	1.0959		2025-06-18T03:15:36
CCB	18	QC	0	-0.0002	1	1	1	-0.0025		2025-06-18T03:16:19
ICV NO3 5.0	19	QC	5	0.4543	1	1	1	5.0386		2025-06-18T03:17:56
ICV NO2 5.0	20	QC	?	0.4643	1	1	1	5.1487		2025-06-18T03:19:06
ICV NO3 0.5	21	QC	0.5	0.0426	1	1	1	0.4722		2025-06-18T03:20:15
ICV NO2 0.5	22	QC	?	0.0475	1	1	1	0.5270		2025-06-18T03:21:24
ICB	23	QC	0	-0.0001	1	1	1	-0.0018		2025-06-18T03:22:04
BLANK NO3	24	Unknown	?	0.0000	1	1	1	-0.0002		2025-06-18T03:23:13
LCS NO3	25	Unknown	?	0.4544	1	1	1	5.0388		2025-06-18T03:24:50
BLANK NO2	26	Unknown	?	-0.0005	1	1	1	-0.0060		2025-06-18T03:25:26
LCS NO2	27	Unknown	?	0.4724	1	1	1	5.2395		2025-06-18T03:27:04
CCV NO3	28	QC	1	0.0870	1	1	1	0.9644		2025-06-18T03:28:10
CCV NO2	29	QC	?	0.0985	1	1	1	1.0923		2025-06-18T03:29:16
CCB	30	QC	0	-0.0003	1	1	1	-0.0039		2025-06-18T03:29:55
WG2080161-1	31	Unknown	?	0.0000	1	1	1	-0.0007		2025-06-18T03:31:03
WG2080161-2	32	Unknown	?	0.4739	1	1	1	5.2554		2025-06-18T03:32:41

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG2080162-1	33	Unknown	?	-0.0013	1	1	1	-0.0143		2025-06-18T03:33:15
WG2080162-2	34	Unknown	?	0.4739	1	1	1	5.2555		2025-06-18T03:34:53
WG2080163-1	35	Unknown	?	-0.0012	1	1	1	-0.0133		2025-06-18T03:35:27
WG2080163-2	36	Unknown	?	0.4549	1	1	1	5.0448		2025-06-18T03:37:05
WG2080164-1	37	Unknown	?	-0.0004	1	1	1	-0.0052		2025-06-18T03:37:42
WG2080164-2	38	Unknown	?	0.4603	1	1	1	5.1046		2025-06-18T03:39:20
WG2080165-1	39	Unknown	?	-0.0004	1	1	1	-0.0053		2025-06-18T03:39:56
WG2080165-2	40	Unknown	?	0.4583	1	1	1	5.0822		2025-06-18T03:41:34
CCV NO3	41	QC	1	0.0890	1	1	1	0.9869		2025-06-18T03:42:40
CCV NO2	42	QC	?	0.0974	1	1	1	1.0797		2025-06-18T03:43:47
CCB	43	QC	0	-0.0002	1	1	1	-0.0029		2025-06-18T03:44:26
WG2080169-1	44	Unknown	?	0.0000	1	1	1	-0.0006		2025-06-18T03:45:33
WG2080169-2	45	Unknown	?	0.4598	1	1	1	5.0997		2025-06-18T03:47:11
WG2080170-1	46	Unknown	?	-0.0006	1	1	1	-0.0066		2025-06-18T03:47:45
WG2080170-2	47	Unknown	?	0.4590	1	1	1	5.0906		2025-06-18T03:49:23
L2537611-01G	48	Unknown	?	0.0876	1	1	1	0.9708		2025-06-18T03:50:28
L2537798-01A	49	Unknown	?	0.4824	1	1	1	5.3496		2025-06-18T03:51:34
WG2080163-3	50	Unknown	?	0.4767	1	1	1	5.2869		2025-06-18T03:52:39
WG2080163-4	51	Unknown	?	0.8075	1	1	1	8.9552	OVR	2025-06-18T03:53:45
WG2080161-4	52	Unknown	?	0.8202	1	1	1	9.0967	OVR	2025-06-18T03:54:49
WG2080161-3	53	Unknown	?	0.4706	1	1	1	5.2190		2025-06-18T03:55:55
CCV NO3	54	QC	1	0.0882	1	1	1	0.9783		2025-06-18T03:56:59
CCV NO2	55	QC	?	0.1000	1	1	1	1.1087		2025-06-18T03:58:05
CCB	56	QC	0	-0.0002	1	1	1	-0.0020		2025-06-18T03:58:49
L2537800-01C	57	Unknown	?	0.6380	1	1	1	7.0751		2025-06-18T04:00:26
L2537807-01B	58	Unknown	?	0.3545	1	1	1	3.9314		2025-06-18T04:01:36
WG2080163-5	59	Unknown	?	0.3529	1	1	1	3.9139		2025-06-18T04:02:43
WG2080163-6	60	Unknown	?	0.7128	1	1	1	7.9057	OVR	2025-06-18T04:03:50
WG2080161-6	61	Unknown	?	0.7214	1	1	1	8.0001	OVR	2025-06-18T04:04:57
WG2080161-5	62	Unknown	?	0.3494	1	1	1	3.8748		2025-06-18T04:06:04
L2537866-01A	63	Unknown	?	0.2194	1	1	1	2.4329		2025-06-18T04:07:10
WG2080169-3	64	Unknown	?	0.2206	1	1	1	2.4458		2025-06-18T04:08:16
WG2080169-4	65	Unknown	?	0.5870	1	1	1	6.5104		2025-06-18T04:09:23

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2537867-01A	66	Unknown	?	0.3228	1	1	1	3.5796		2025-06-18T04:10:28
CCV NO3	67	QC	1	0.0888	1	1	1	0.9848		2025-06-18T04:11:33
CCV NO2	68	QC	?	0.0978	1	1	1	1.0848		2025-06-18T04:12:40
CCB	69	QC	0	-0.0001	1	1	1	-0.0013		2025-06-18T04:13:23
L2537983-01B	70	Unknown	?	0.5464	1	1	1	6.0594		2025-06-18T04:15:00
L2537983-02B	71	Unknown	?	-0.0009	1	1	1	-0.0103		2025-06-18T04:15:35
L2537986-01D	72	Unknown	?	0.0382	1	1	1	0.4229		2025-06-18T04:17:12
L2537987-01B	73	Unknown	?	1.3482	1	1	1	14.9523	OVR	2025-06-18T04:18:27
L2537992-01B	74	Unknown	?	0.9076	1	1	1	10.0660	OVR	2025-06-18T04:19:22
L2537993-01B	75	Unknown	?	1.2791	1	1	1	14.1863	OVR	2025-06-18T04:20:28
L2537996-01B	76	Unknown	?	0.3682	1	1	1	4.0833		2025-06-18T04:21:35
L2537778-01C	77	Unknown	?	-0.0004	1	1	1	-0.0053		2025-06-18T04:22:12
L2537778-02C	78	Unknown	?	-0.0001	1	1	1	-0.0010		2025-06-18T04:23:19
L2537655-01L	79	Unknown	?	0.0329	1	1	1	0.3644		2025-06-18T04:24:57
CCV NO3	80	QC	1	0.0931	1	1	1	1.0325		2025-06-18T04:26:02
CCV NO2	81	QC	?	0.1005	1	1	1	1.1146		2025-06-18T04:27:09
CCB	82	QC	0	-0.0002	1	1	1	-0.0028		2025-06-18T04:27:50
WG2080164-3	83	Unknown	?	0.0321	1	1	1	0.3560		2025-06-18T04:29:28
WG2080164-4	84	Unknown	?	0.4108	1	1	1	4.5554		2025-06-18T04:30:34
WG2080162-4	85	Unknown	?	0.4360	1	1	1	4.8347		2025-06-18T04:31:40
WG2080162-3	86	Unknown	?	0.0271	1	1	1	0.3001		2025-06-18T04:32:46
L2537655-02L	87	Unknown	?	0.0245	1	1	1	0.2715		2025-06-18T04:33:52
L2537655-03L	88	Unknown	?	0.0005	1	1	1	0.0056		2025-06-18T04:34:59
L2537655-04L	89	Unknown	?	0.1321	1	1	1	1.4649		2025-06-18T04:36:03
L2537655-05L	90	Unknown	?	0.0584	1	1	1	0.6470		2025-06-18T04:37:08
L2537659-01A	91	Unknown	?	0.0002	1	1	1	0.0017		2025-06-18T04:38:13
L2537659-02A	92	Unknown	?	0.0009	1	1	1	0.0095		2025-06-18T04:39:18
CCV NO3	93	QC	1	0.0943	1	1	1	1.0452		2025-06-18T04:40:22
CCV NO2	94	QC	?	0.0987	1	1	1	1.0948		2025-06-18T04:41:28
CCB	95	QC	0	0.0001	1	1	1	0.0005		2025-06-18T04:42:43
L2537860-01K	96	Unknown	?	0.0012	1	1	1	0.0124		2025-06-18T04:43:50
L2537860-02K	97	Unknown	?	0.0031	1	1	1	0.0343		2025-06-18T04:44:59
L2537860-03K	98	Unknown	?	0.0016	1	1	1	0.0178		2025-06-18T04:46:06

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2537860-04K	99	Unknown	?	0.0015	1	1	1	0.0158		2025-06-18T04:47:14
L2537860-05K	100	Unknown	?	0.3688	1	1	1	4.0902		2025-06-18T04:48:20
L2537860-06K	101	Unknown	?	0.1727	1	1	1	1.9155		2025-06-18T04:49:26
L2537860-07K	102	Unknown	?	0.0128	1	1	1	0.1419		2025-06-18T04:50:32
L2537860-08K	103	Unknown	?	0.0140	1	1	1	0.1544		2025-06-18T04:51:38
L2537860-09K	104	Unknown	?	0.0008	1	1	1	0.0080		2025-06-18T04:52:45
L2537860-11K	105	Unknown	?	0.0788	1	1	1	0.8733		2025-06-18T04:53:50
CCV NO3	106	QC	1	0.0918	1	1	1	1.0181		2025-06-18T04:54:55
CCV NO2	107	QC	?	0.0996	1	1	1	1.1047		2025-06-18T04:56:01
CCB	108	QC	0	-0.0002	1	1	1	-0.0025		2025-06-18T04:56:41
L2537860-12K	109	Unknown	?	0.0008	1	1	1	0.0086		2025-06-18T04:58:20
L2537860-13K	110	Unknown	?	0.0195	1	1	1	0.2159		2025-06-18T04:59:24
L2537889-01J	111	Unknown	?	0.0041	1	1	1	0.0454		2025-06-18T05:00:29
L2537855-01L	112	Unknown	?	0.0065	1	1	1	0.0716		2025-06-18T05:01:34
WG2080165-3	113	Unknown	?	0.0060	1	1	1	0.0660		2025-06-18T05:02:39
WG2080165-4	114	Unknown	?	0.3692	1	1	1	4.0944		2025-06-18T05:03:45
L2537855-02L	115	Unknown	?	0.1043	1	1	1	1.1565		2025-06-18T05:04:53
L2537855-03L	116	Unknown	?	0.0023	1	1	1	0.0254		2025-06-18T05:06:00
L2537855-04L	117	Unknown	?	0.0251	1	1	1	0.2775		2025-06-18T05:07:07
L2537855-05L	118	Unknown	?	0.0178	1	1	1	0.1974		2025-06-18T05:08:14
CCV NO3	119	QC	1	0.0934	1	1	1	1.0353		2025-06-18T05:09:20
CCV NO2	120	QC	?	0.1003	1	1	1	1.1123		2025-06-18T05:10:26
CCB	121	QC	0	-0.0002	1	1	1	-0.0026		2025-06-18T05:11:08
L2537855-06L	122	Unknown	?	0.0043	1	1	1	0.0468		2025-06-18T05:12:47
L2537855-07L	123	Unknown	?	0.0724	1	1	1	0.8021		2025-06-18T05:13:52
L2537855-08L	124	Unknown	?	0.0057	1	1	1	0.0624		2025-06-18T05:15:01
L2537855-10L	125	Unknown	?	0.0050	1	1	1	0.0552		2025-06-18T05:16:06
L2537855-11L	126	Unknown	?	0.0032	1	1	1	0.0356		2025-06-18T05:17:11
L2537855-12L	127	Unknown	?	0.0045	1	1	1	0.0495		2025-06-18T05:18:16
L2535770-02A	128	Unknown	?	0.4148	1	1	1	4.6005		2025-06-18T05:19:22
L2538081-01D	129	Unknown	?	0.2472	1	1	1	2.7410		2025-06-18T05:20:27
L2538081-02D	130	Unknown	?	0.0009	1	1	1	0.0091		2025-06-18T05:21:33
L2538081-03D	131	Unknown	?	0.0027	1	1	1	0.0298		2025-06-18T05:22:39

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
CCV NO3	132	QC	1	0.0923	1	1	1	1.0233		2025-06-18T05:23:43
CCV NO2	133	QC	?	0.0983	1	1	1	1.0904		2025-06-18T05:24:50
CCB	134	QC	0	-0.0001	1	1	1	-0.0015		2025-06-18T05:26:04
L2538081-04D	135	Unknown	?	0.0010	1	1	1	0.0107		2025-06-18T05:27:11
L2538086-01B	136	Unknown	?	0.0007	1	1	1	0.0072		2025-06-18T05:28:20
L2538086-02B	137	Unknown	?	0.0005	1	1	1	0.0055		2025-06-18T05:29:28
L2537892-01D	138	Unknown	?	0.0976	1	1	1	1.0818		2025-06-18T05:30:34
WG2080170-3	139	Unknown	?	0.0982	1	1	1	1.0886		2025-06-18T05:31:41
WG2080170-4	140	Unknown	?	0.4775	1	1	1	5.2951		2025-06-18T05:32:48
L2537892-02D	141	Unknown	?	0.0828	1	1	1	0.9178		2025-06-18T05:33:54
L2538000-01K	142	Unknown	?	0.0877	1	1	1	0.9719		2025-06-18T05:35:00
L2538000-02K	143	Unknown	?	0.0857	1	1	1	0.9499		2025-06-18T05:36:07
L2537996-01B	144	Unknown	?	0.3780	1	1	1	4.1924		2025-06-18T05:37:13
CCV NO3	145	QC	1	0.0888	1	1	1	0.9840		2025-06-18T05:38:19
CCV NO2	146	QC	?	0.0987	1	1	1	1.0939		2025-06-18T05:39:26
CCB	147	QC	0	-0.0001	1	1	1	-0.0020		2025-06-18T05:40:09
WG2080163-4; 5 UP TO 25	148	Unknown	?	0.1809	5	1	1	10.0297		2025-06-18T05:41:46
WG2080163-6; 5 UP TO 25	149	Unknown	?	0.1389	5	1	1	7.7020		2025-06-18T05:42:54
L2537987-01B; 2.5 UP TO 25	150	Unknown	?	0.4622	10	1	1	51.2568		2025-06-18T05:44:00
L2537992-01B; 5 UP TO 25	151	Unknown	?	0.1988	5	1	1	11.0237		2025-06-18T05:45:06
L2537993-01B; 5 UP TO 25	152	Unknown	?	0.3421	5	1	1	18.9706		2025-06-18T05:46:12
WG2080204-1	153	Unknown	?	-0.0005	1	1	1	-0.0060		2025-06-18T05:46:47
WG2080204-2	154	Unknown	?	0.4623	1	1	1	5.1272		2025-06-18T05:48:25
L2537864-01K	155	Unknown	?	0.0003	1	1	1	0.0033		2025-06-18T05:49:32
WG2080204-3	156	Unknown	?	0.0031	1	1	1	0.0336		2025-06-18T05:50:39
WG2080204-4	157	Unknown	?	0.3892	1	1	1	4.3157		2025-06-18T05:51:47
CCV NO3	158	QC	1	0.0877	1	1	1	0.9723		2025-06-18T05:52:52
CCV NO2	159	QC	?	0.0960	1	1	1	1.0644		2025-06-18T05:53:58
CCB	160	QC	0	0.0000	1	1	1	-0.0006		2025-06-18T05:54:42
L2537864-02K	161	Unknown	?	0.0056	1	1	1	0.0613		2025-06-18T05:56:20
L2537864-03K	162	Unknown	?	0.0009	1	1	1	0.0094		2025-06-18T05:57:29

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2537864-04K	163	Unknown	?	0.0029	1	1	1	0.0319		2025-06-18T05:58:35
L2537864-05K	164	Unknown	?	0.0015	1	1	1	0.0159		2025-06-18T05:59:41
L2537864-06K	165	Unknown	?	0.0046	1	1	1	0.0504		2025-06-18T06:00:47
L2537864-07K	166	Unknown	?	0.0049	1	1	1	0.0534		2025-06-18T06:01:54
L2537864-08K	167	Unknown	?	0.0050	1	1	1	0.0546		2025-06-18T06:03:00
L2537864-09K	168	Unknown	?	0.0049	1	1	1	0.0538		2025-06-18T06:04:06
L2537864-10K	169	Unknown	?	0.0011	1	1	1	0.0123		2025-06-18T06:05:11
L2537864-11K	170	Unknown	?	0.0118	1	1	1	0.1310		2025-06-18T06:06:18
CCV NO3	171	QC	1	0.0922	1	1	1	1.0222		2025-06-18T06:07:24
CCV NO2	172	QC	?	0.0982	1	1	1	1.0889		2025-06-18T06:08:30
CCB	173	QC	0	-0.0001	1	1	1	-0.0011		2025-06-18T06:09:13
L2537864-12K	174	Unknown	?	0.0249	1	1	1	0.2761		2025-06-18T06:10:51
L2537864-13K	175	Unknown	?	0.0038	1	1	1	0.0417		2025-06-18T06:12:00
L2537864-14K	176	Unknown	?	0.0013	1	1	1	0.0142		2025-06-18T06:13:07
L2537864-15K	177	Unknown	?	0.0013	1	1	1	0.0138		2025-06-18T06:14:15
L2537960-01A	178	Unknown	?	0.0403	1	1	1	0.4467		2025-06-18T06:15:22
CCV NO3	179	QC	1	0.0912	1	1	1	1.0114		2025-06-18T06:16:28
CCV NO2	180	QC	?	0.0988	1	1	1	1.0950		2025-06-18T06:17:34
CCB	181	QC	0	-0.0001	1	1	1	-0.0014		2025-06-18T06:18:14

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	-0.0084		2025-06-18T02:56:49
NOx 8.0ppm	2	Standard	?	0.0001	1	1	1	-0.0080		2025-06-18T02:58:41
NOx 4.0ppm	3	Standard	?	0.0002	1	1	1	-0.0077		2025-06-18T02:59:20
NOx 1.0ppm	4	Standard	?	0.0001	1	1	1	-0.0080		2025-06-18T03:00:21
NOx 0.4ppm	5	Standard	?	0.0001	1	1	1	-0.0080		2025-06-18T03:01:38
NOx 0.2ppm	6	Standard	?	0.0001	1	1	1	-0.0083		2025-06-18T03:03:17
NOx 0.1ppm	7	Standard	?	0.0002	1	1	1	-0.0075		2025-06-18T03:03:49
NOx 0.0ppm	8	Standard	?	0.0000	1	1	1	-0.0088		2025-06-18T03:05:01
Nitrite 8.0ppm	9	Standard	8	0.8259	1	1	1	7.3530		2025-06-18T03:06:10
Nitrite 4.0ppm	10	Standard	4	0.4453	1	1	1	3.9600		2025-06-18T03:07:20
Nitrite 1.0ppm	11	Standard	1	0.1172	1	1	1	1.0352		2025-06-18T03:08:27
Nitrite	12	Standard	0.4	0.0491	1	1	1	0.4283		2025-06-

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
0.4ppm										18T03:09:37
Nitrite 0.1ppm	13	Standard	0.1	0.0129	1	1	1	0.1059		2025-06-18T03:10:48
Nitrite 0.05ppm	14	Standard	0.05	0.0064	1	1	1	0.0480		2025-06-18T03:11:58
Nitrite 0.0ppm	15	Standard	0	0.0003	1	1	1	-0.0060		2025-06-18T03:13:19
CCV NO3	16	QC	?	0.0003	1	1	1	-0.0065		2025-06-18T03:14:22
CCV NO2	17	QC	1	0.1146	1	1	1	1.0127		2025-06-18T03:15:21
CCB	18	QC	0	0.0016	1	1	1	0.0048		2025-06-18T03:16:40
ICV NO3 5.0	19	QC	?	0.0006	1	1	1	-0.0041		2025-06-18T03:17:53
ICV NO2 5.0	20	QC	5	0.5401	1	1	1	4.8049		2025-06-18T03:18:51
ICV NO3 0.5	21	QC	?	0.0044	1	1	1	0.0300		2025-06-18T03:20:06
ICV NO2 0.5	22	QC	0.5	0.0567	1	1	1	0.4966		2025-06-18T03:21:10
ICB	23	QC	0	0.0009	1	1	1	-0.0010		2025-06-18T03:22:26
BLANK NO3	24	Unknown	?	0.0004	1	1	1	-0.0058		2025-06-18T03:23:37
LCS NO3	25	Unknown	?	0.0003	1	1	1	-0.0066		2025-06-18T03:24:44
BLANK NO2	26	Unknown	?	0.0001	1	1	1	-0.0080		2025-06-18T03:25:51
LCS NO2	27	Unknown	?	0.5456	1	1	1	4.8544		2025-06-18T03:26:48
CCV NO3	28	QC	?	0.0056	1	1	1	0.0411		2025-06-18T03:28:01
CCV NO2	29	QC	1	0.1150	1	1	1	1.0159		2025-06-18T03:29:00
CCB	30	QC	0	0.0020	1	1	1	0.0091		2025-06-18T03:30:18
WG2080161-1	31	Unknown	?	0.0005	1	1	1	-0.0049		2025-06-18T03:31:27
WG2080161-2	32	Unknown	?	0.5485	1	1	1	4.8802		2025-06-18T03:32:25
WG2080162-1	33	Unknown	?	0.0054	1	1	1	0.0390		2025-06-18T03:33:37
WG2080162-2	34	Unknown	?	0.5487	1	1	1	4.8816		2025-06-18T03:34:37
WG2080163-1	35	Unknown	?	0.0059	1	1	1	0.0431		2025-06-18T03:35:48
WG2080163-2	36	Unknown	?	0.0014	1	1	1	0.0035		2025-06-18T03:37:02
WG2080164-1	37	Unknown	?	0.0004	1	1	1	-0.0057		2025-06-18T03:38:07
WG2080164-2	38	Unknown	?	0.0004	1	1	1	-0.0054		2025-06-18T03:39:17
WG2080165-1	39	Unknown	?	0.0002	1	1	1	-0.0076		2025-06-18T03:40:21
WG2080165-2	40	Unknown	?	0.0002	1	1	1	-0.0075		2025-06-18T03:41:30
CCV NO3	41	QC	?	0.0002	1	1	1	-0.0071		2025-06-18T03:42:31
CCV NO2	42	QC	1	0.1142	1	1	1	1.0090		2025-06-18T03:43:31
CCB	43	QC	0	0.0019	1	1	1	0.0076		2025-06-18T03:44:49
WG2080169-1	44	Unknown	?	0.0004	1	1	1	-0.0059		2025-06-18T03:46:02

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG2080169-2	45	Unknown	?	0.0003	1	1	1	-0.0067		2025-06-18T03:47:06
WG2080170-1	46	Unknown	?	0.0001	1	1	1	-0.0080		2025-06-18T03:48:09
WG2080170-2	47	Unknown	?	0.0001	1	1	1	-0.0083		2025-06-18T03:49:17
L2537611-01G	48	Unknown	?	0.0128	1	1	1	0.1049		2025-06-18T03:50:13
L2537798-01A	49	Unknown	?	0.0031	1	1	1	0.0188		2025-06-18T03:51:18
WG2080163-3	50	Unknown	?	0.0031	1	1	1	0.0189		2025-06-18T03:52:23
WG2080163-4	51	Unknown	?	0.0033	1	1	1	0.0203		2025-06-18T03:53:28
WG2080161-4	52	Unknown	?	0.4665	1	1	1	4.1497		2025-06-18T03:54:33
WG2080161-3	53	Unknown	?	0.0027	1	1	1	0.0145		2025-06-18T03:55:38
CCV NO3	54	QC	?	0.0000	1	1	1	-0.0087		2025-06-18T03:56:43
CCV NO2	55	QC	1	0.1156	1	1	1	1.0214		2025-06-18T03:57:50
CCB	56	QC	0	0.0010	1	1	1	0.0000		2025-06-18T03:59:07
L2537800-01C	57	Unknown	?	0.0252	1	1	1	0.2151		2025-06-18T04:00:12
L2537807-01B	58	Unknown	?	0.3694	1	1	1	3.2836		2025-06-18T04:01:21
WG2080163-5	59	Unknown	?	0.3687	1	1	1	3.2771		2025-06-18T04:02:28
WG2080163-6	60	Unknown	?	0.3604	1	1	1	3.2036		2025-06-18T04:03:34
WG2080161-6	61	Unknown	?	0.7930	1	1	1	7.0593		2025-06-18T04:04:41
WG2080161-5	62	Unknown	?	0.3683	1	1	1	3.2737		2025-06-18T04:05:48
L2537866-01A	63	Unknown	?	0.0696	1	1	1	0.6114		2025-06-18T04:06:54
WG2080169-3	64	Unknown	?	0.0698	1	1	1	0.6127		2025-06-18T04:08:00
WG2080169-4	65	Unknown	?	0.0681	1	1	1	0.5979		2025-06-18T04:09:07
L2537867-01A	66	Unknown	?	0.0320	1	1	1	0.2757		2025-06-18T04:10:13
CCV NO3	67	QC	?	0.0000	1	1	1	-0.0088		2025-06-18T04:11:20
CCV NO2	68	QC	1	0.1138	1	1	1	1.0049		2025-06-18T04:12:23
CCB	69	QC	0	0.0005	1	1	1	-0.0051		2025-06-18T04:13:43
L2537983-01B	70	Unknown	?	0.0376	1	1	1	0.3263		2025-06-18T04:14:44
L2537983-02B	71	Unknown	?	0.0007	1	1	1	-0.0028		2025-06-18T04:15:52
L2537986-01D	72	Unknown	?	0.0115	1	1	1	0.0929		2025-06-18T04:16:56
L2537987-01B	73	Unknown	?	0.0011	1	1	1	0.0004		2025-06-18T04:18:03
L2537992-01B	74	Unknown	?	0.1565	1	1	1	1.3856		2025-06-18T04:19:05
L2537993-01B	75	Unknown	?	0.1335	1	1	1	1.1805		2025-06-18T04:20:13
L2537996-01B	76	Unknown	?	0.0091	1	1	1	0.0720		2025-06-18T04:21:20
L2537778-01C	77	Unknown	?	0.0000	1	1	1	-0.0088		2025-06-18T04:22:13

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2537778-02C	78	Unknown	?	0.0002	1	1	1	-0.0076		2025-06-18T04:23:32
L2537655-01L	79	Unknown	?	0.0007	1	1	1	-0.0027		2025-06-18T04:24:41
CCV NO3	80	QC	?	0.0001	1	1	1	-0.0083		2025-06-18T04:25:55
CCV NO2	81	QC	1	0.1162	1	1	1	1.0263		2025-06-18T04:26:53
CCB	82	QC	0	0.0011	1	1	1	0.0006		2025-06-18T04:28:11
WG2080164-3	83	Unknown	?	0.0001	1	1	1	-0.0081		2025-06-18T04:29:14
WG2080164-4	84	Unknown	?	0.0001	1	1	1	-0.0083		2025-06-18T04:30:18
WG2080162-4	85	Unknown	?	0.4709	1	1	1	4.1886		2025-06-18T04:31:24
WG2080162-3	86	Unknown	?	0.0000	1	1	1	-0.0092		2025-06-18T04:32:14
L2537655-02L	87	Unknown	?	0.0006	1	1	1	-0.0034		2025-06-18T04:33:35
L2537655-03L	88	Unknown	?	0.0007	1	1	1	-0.0026		2025-06-18T04:34:42
L2537655-04L	89	Unknown	?	0.0135	1	1	1	0.1115		2025-06-18T04:36:12
L2537655-05L	90	Unknown	?	0.0008	1	1	1	-0.0023		2025-06-18T04:36:52
L2537659-01A	91	Unknown	?	0.0009	1	1	1	-0.0015		2025-06-18T04:37:57
L2537659-02A	92	Unknown	?	0.0008	1	1	1	-0.0022		2025-06-18T04:39:01
CCV NO3	93	QC	?	0.0001	1	1	1	-0.0082		2025-06-18T04:40:10
CCV NO2	94	QC	1	0.1149	1	1	1	1.0155		2025-06-18T04:41:12
CCB	95	QC	0	0.0004	1	1	1	-0.0053		2025-06-18T04:42:29
L2537860-01K	96	Unknown	?	0.0010	1	1	1	-0.0006		2025-06-18T04:43:34
L2537860-02K	97	Unknown	?	0.0012	1	1	1	0.0016		2025-06-18T04:44:43
L2537860-03K	98	Unknown	?	0.0010	1	1	1	-0.0005		2025-06-18T04:45:51
L2537860-04K	99	Unknown	?	0.0011	1	1	1	0.0009		2025-06-18T04:46:58
L2537860-05K	100	Unknown	?	0.0007	1	1	1	-0.0026		2025-06-18T04:48:04
L2537860-06K	101	Unknown	?	0.0008	1	1	1	-0.0019		2025-06-18T04:49:10
L2537860-07K	102	Unknown	?	0.0021	1	1	1	0.0095		2025-06-18T04:50:17
L2537860-08K	103	Unknown	?	0.0022	1	1	1	0.0109		2025-06-18T04:51:22
L2537860-09K	104	Unknown	?	0.0011	1	1	1	0.0005		2025-06-18T04:53:08
L2537860-11K	105	Unknown	?	0.0011	1	1	1	0.0009		2025-06-18T04:53:33
CCV NO3	106	QC	?	0.0003	1	1	1	-0.0062		2025-06-18T04:54:41
CCV NO2	107	QC	1	0.1155	1	1	1	1.0202		2025-06-18T04:55:46
CCB	108	QC	0	0.0008	1	1	1	-0.0024		2025-06-18T04:57:02
L2537860-12K	109	Unknown	?	0.0008	1	1	1	-0.0024		2025-06-18T04:58:01
L2537860-13K	110	Unknown	?	0.0035	1	1	1	0.0218		2025-06-18T04:59:07

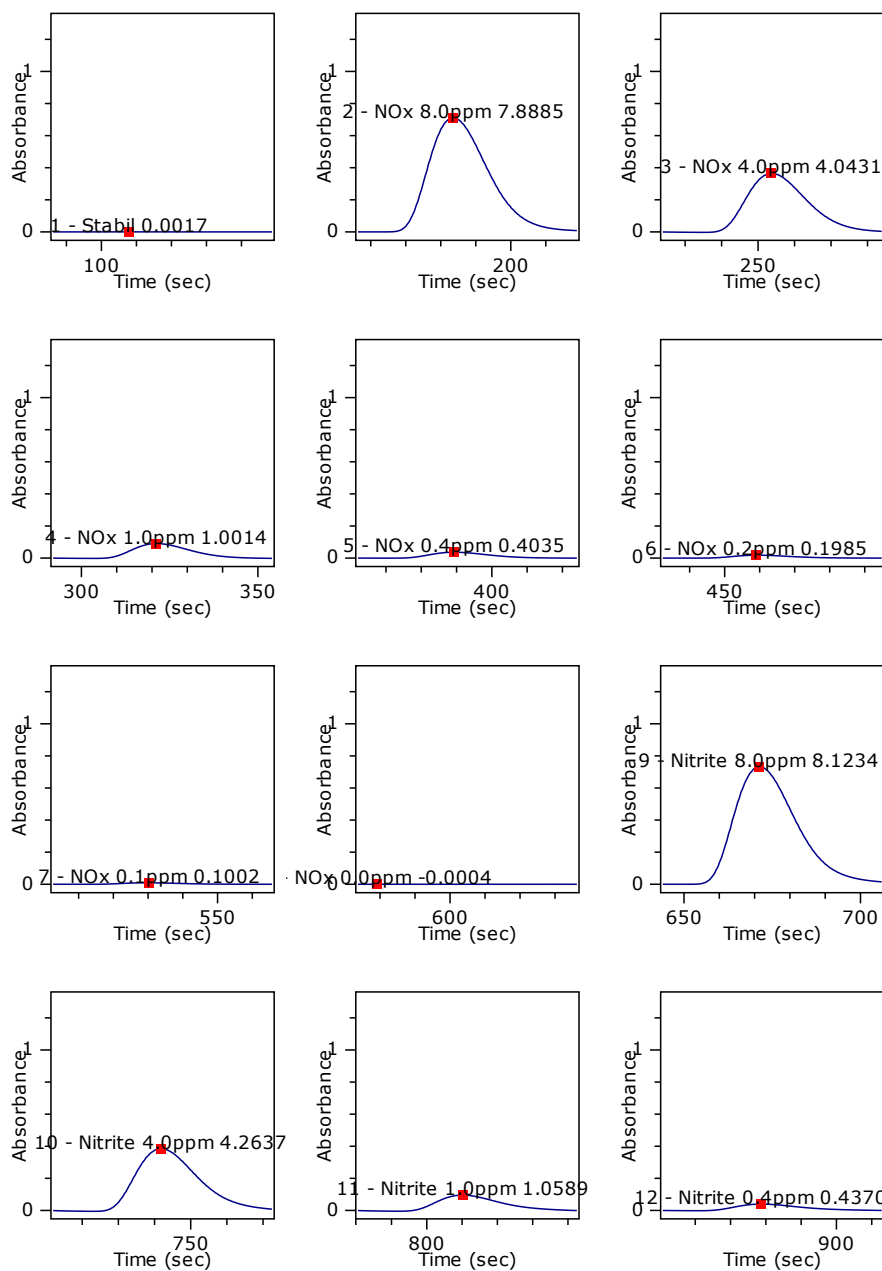
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2537889-01J	111	Unknown	?	0.0029	1	1	1	0.0166		2025-06-18T05:00:11
L2537855-01L	112	Unknown	?	0.0008	1	1	1	-0.0017		2025-06-18T05:01:20
WG2080165-3	113	Unknown	?	0.0002	1	1	1	-0.0071		2025-06-18T05:02:25
WG2080165-4	114	Unknown	?	0.0002	1	1	1	-0.0073		2025-06-18T05:03:29
L2537855-02L	115	Unknown	?	0.0007	1	1	1	-0.0027		2025-06-18T05:04:38
L2537855-03L	116	Unknown	?	0.0009	1	1	1	-0.0009		2025-06-18T05:05:45
L2537855-04L	117	Unknown	?	0.0006	1	1	1	-0.0036		2025-06-18T05:06:52
L2537855-05L	118	Unknown	?	0.0008	1	1	1	-0.0024		2025-06-18T05:07:59
CCV NO3	119	QC	?	0.0001	1	1	1	-0.0082		2025-06-18T05:09:32
CCV NO2	120	QC	1	0.1186	1	1	1	1.0478		2025-06-18T05:10:12
CCB	121	QC	0	0.0016	1	1	1	0.0048		2025-06-18T05:11:30
L2537855-06L	122	Unknown	?	0.0022	1	1	1	0.0106		2025-06-18T05:12:31
L2537855-07L	123	Unknown	?	0.0007	1	1	1	-0.0026		2025-06-18T05:13:37
L2537855-08L	124	Unknown	?	0.0024	1	1	1	0.0125		2025-06-18T05:14:43
L2537855-10L	125	Unknown	?	0.0020	1	1	1	0.0089		2025-06-18T05:15:49
L2537855-11L	126	Unknown	?	0.0009	1	1	1	-0.0010		2025-06-18T05:16:56
L2537855-12L	127	Unknown	?	0.0009	1	1	1	-0.0008		2025-06-18T05:18:01
L2535770-02A	128	Unknown	?	0.0458	1	1	1	0.3993		2025-06-18T05:19:06
L2538081-01D	129	Unknown	?	0.0009	1	1	1	-0.0010		2025-06-18T05:20:12
L2538081-02D	130	Unknown	?	0.0025	1	1	1	0.0128		2025-06-18T05:21:17
L2538081-03D	131	Unknown	?	0.0009	1	1	1	-0.0008		2025-06-18T05:22:22
CCV NO3	132	QC	?	0.0001	1	1	1	-0.0086		2025-06-18T05:23:39
CCV NO2	133	QC	1	0.1178	1	1	1	1.0410		2025-06-18T05:24:35
CCB	134	QC	0	0.0015	1	1	1	0.0043		2025-06-18T05:25:52
L2538081-04D	135	Unknown	?	0.0006	1	1	1	-0.0035		2025-06-18T05:26:58
L2538086-01B	136	Unknown	?	0.0007	1	1	1	-0.0026		2025-06-18T05:28:05
L2538086-02B	137	Unknown	?	0.0005	1	1	1	-0.0047		2025-06-18T05:29:12
L2537892-01D	138	Unknown	?	0.0012	1	1	1	0.0012		2025-06-18T05:30:19
WG2080170-3	139	Unknown	?	0.0006	1	1	1	-0.0035		2025-06-18T05:31:25
WG2080170-4	140	Unknown	?	0.0007	1	1	1	-0.0033		2025-06-18T05:32:32
L2537892-02D	141	Unknown	?	0.0027	1	1	1	0.0146		2025-06-18T05:33:38
L2538000-01K	142	Unknown	?	0.0044	1	1	1	0.0299		2025-06-18T05:34:44
L2538000-02K	143	Unknown	?	0.0035	1	1	1	0.0221		2025-06-18T05:35:51

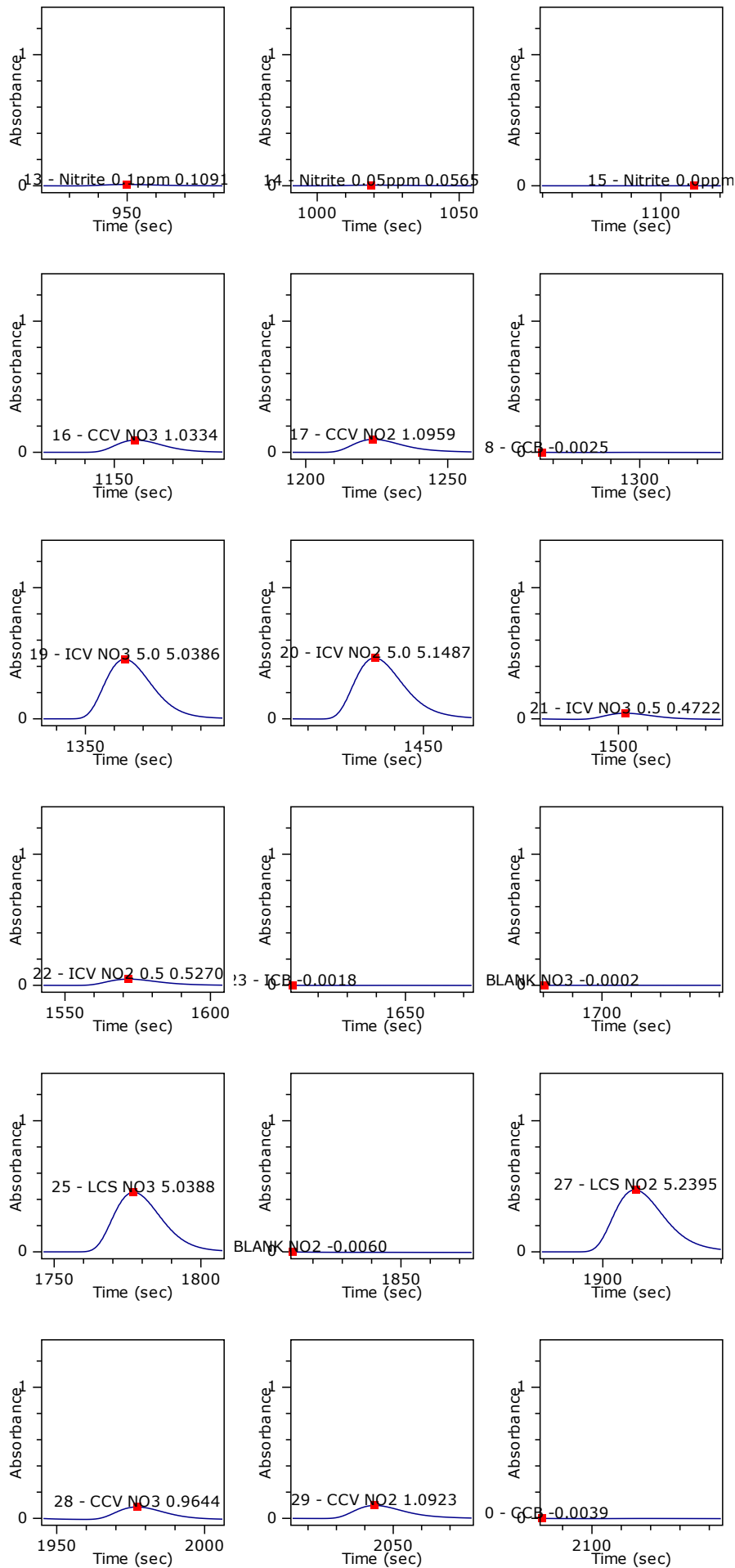
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2537996-01B	144	Unknown	?	0.0095	1	1	1	0.0754		2025-06-18T05:36:58
CCV NO3	145	QC	?	0.0001	1	1	1	-0.0084		2025-06-18T05:38:11
CCV NO2	146	QC	1	0.1170	1	1	1	1.0340		2025-06-18T05:39:10
CCB	147	QC	0	0.0004	1	1	1	-0.0054		2025-06-18T05:40:25
WG2080163-4; 5 UP TO 25	148	Unknown	?	0.0004	5	1	1	-0.0269		2025-06-18T05:41:31
WG2080163-6; 5 UP TO 25	149	Unknown	?	0.0691	5	1	1	3.0325		2025-06-18T05:42:38
L2537987-01B; 2.5 UP TO 25	150	Unknown	?	0.0001	10	1	1	-0.0824		2025-06-18T05:43:45
L2537992-01B; 5 UP TO 25	151	Unknown	?	0.0314	5	1	1	1.3551		2025-06-18T05:44:50
L2537993-01B; 5 UP TO 25	152	Unknown	?	0.0287	5	1	1	1.2330		2025-06-18T05:45:56
WG2080204-1	153	Unknown	?	0.0001	1	1	1	-0.0080		2025-06-18T05:47:12
WG2080204-2	154	Unknown	?	0.0001	1	1	1	-0.0084		2025-06-18T05:48:40
L2537864-01K	155	Unknown	?	0.0020	1	1	1	0.0086		2025-06-18T05:49:17
WG2080204-3	156	Unknown	?	0.0019	1	1	1	0.0076		2025-06-18T05:50:25
WG2080204-4	157	Unknown	?	0.0022	1	1	1	0.0107		2025-06-18T05:51:31
CCV NO3	158	QC	?	0.0001	1	1	1	-0.0085		2025-06-18T05:52:40
CCV NO2	159	QC	1	0.1155	1	1	1	1.0207		2025-06-18T05:53:43
CCB	160	QC	0	0.0000	1	1	1	-0.0091		2025-06-18T05:54:56
L2537864-02K	161	Unknown	?	0.0033	1	1	1	0.0204		2025-06-18T05:56:04
L2537864-03K	162	Unknown	?	0.0008	1	1	1	-0.0019		2025-06-18T05:57:12
L2537864-04K	163	Unknown	?	0.0008	1	1	1	-0.0019		2025-06-18T05:58:20
L2537864-05K	164	Unknown	?	0.0007	1	1	1	-0.0031		2025-06-18T05:59:25
L2537864-06K	165	Unknown	?	0.0029	1	1	1	0.0163		2025-06-18T06:00:32
L2537864-07K	166	Unknown	?	0.0007	1	1	1	-0.0027		2025-06-18T06:01:37
L2537864-08K	167	Unknown	?	0.0032	1	1	1	0.0193		2025-06-18T06:02:44
L2537864-09K	168	Unknown	?	0.0031	1	1	1	0.0188		2025-06-18T06:03:50
L2537864-10K	169	Unknown	?	0.0007	1	1	1	-0.0029		2025-06-18T06:04:55
L2537864-11K	170	Unknown	?	0.0026	1	1	1	0.0143		2025-06-18T06:06:02
CCV NO3	171	QC	?	0.0001	1	1	1	-0.0081		2025-06-18T06:07:10
CCV NO2	172	QC	1	0.1165	1	1	1	1.0297		2025-06-18T06:08:15
CCB	173	QC	0	0.0002	1	1	1	-0.0072		2025-06-18T06:09:31
L2537864-12K	174	Unknown	?	0.0041	1	1	1	0.0277		2025-06-18T06:10:35

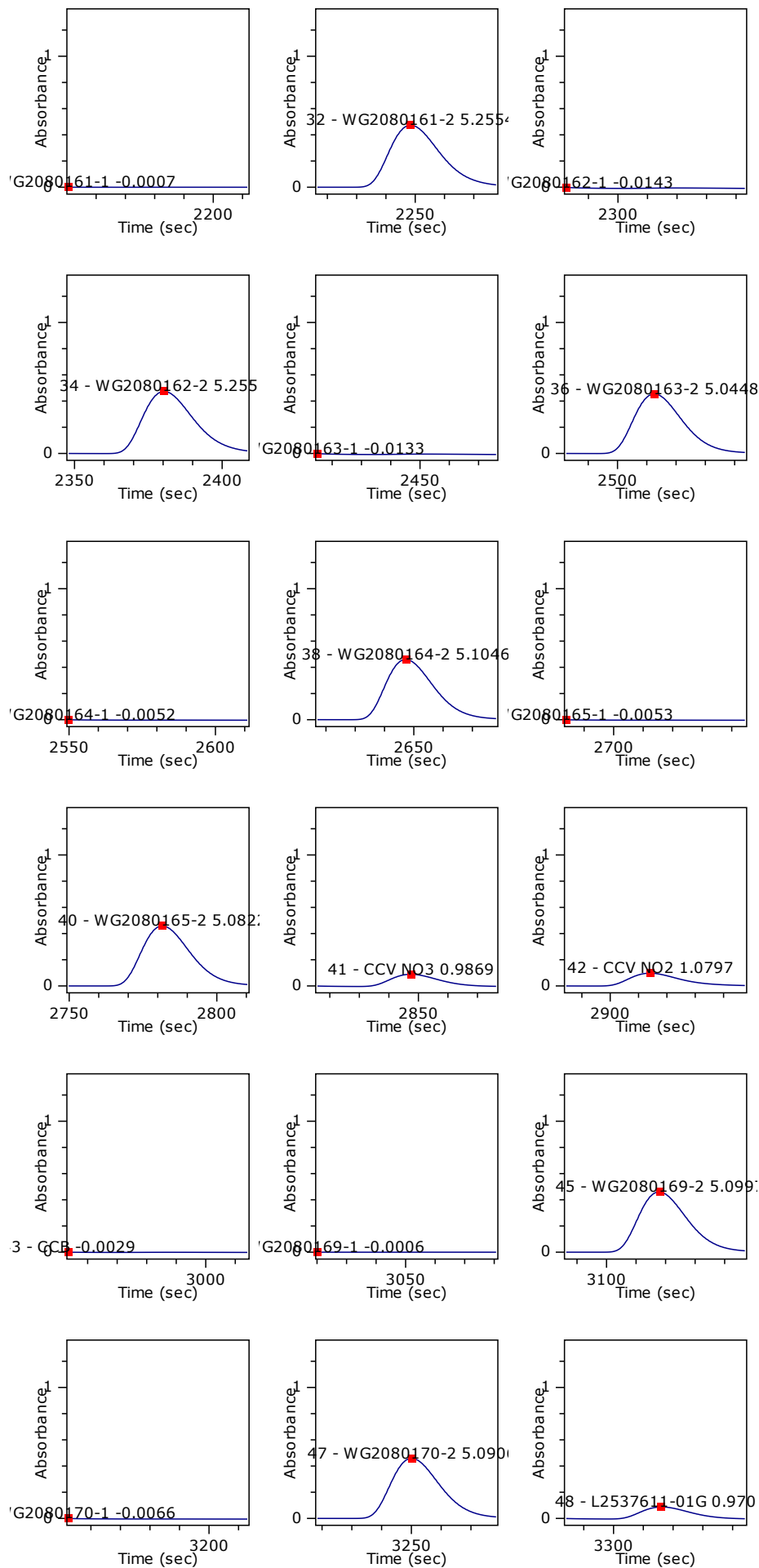
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2537864-13K	175	Unknown	?	0.0014	1	1	1	0.0029		2025-06-18T06:11:44
L2537864-14K	176	Unknown	?	0.0007	1	1	1	-0.0027		2025-06-18T06:12:52
L2537864-15K	177	Unknown	?	0.0006	1	1	1	-0.0038		2025-06-18T06:14:00
L2537960-01A	178	Unknown	?	0.0256	1	1	1	0.2195		2025-06-18T06:15:07
CCV NO3	179	QC	?	0.0000	1	1	1	-0.0088		2025-06-18T06:16:11
CCV NO2	180	QC	1	0.1161	1	1	1	1.0262		2025-06-18T06:17:19
CCB	181	QC	0	0.0004	1	1	1	-0.0056		2025-06-18T06:18:34

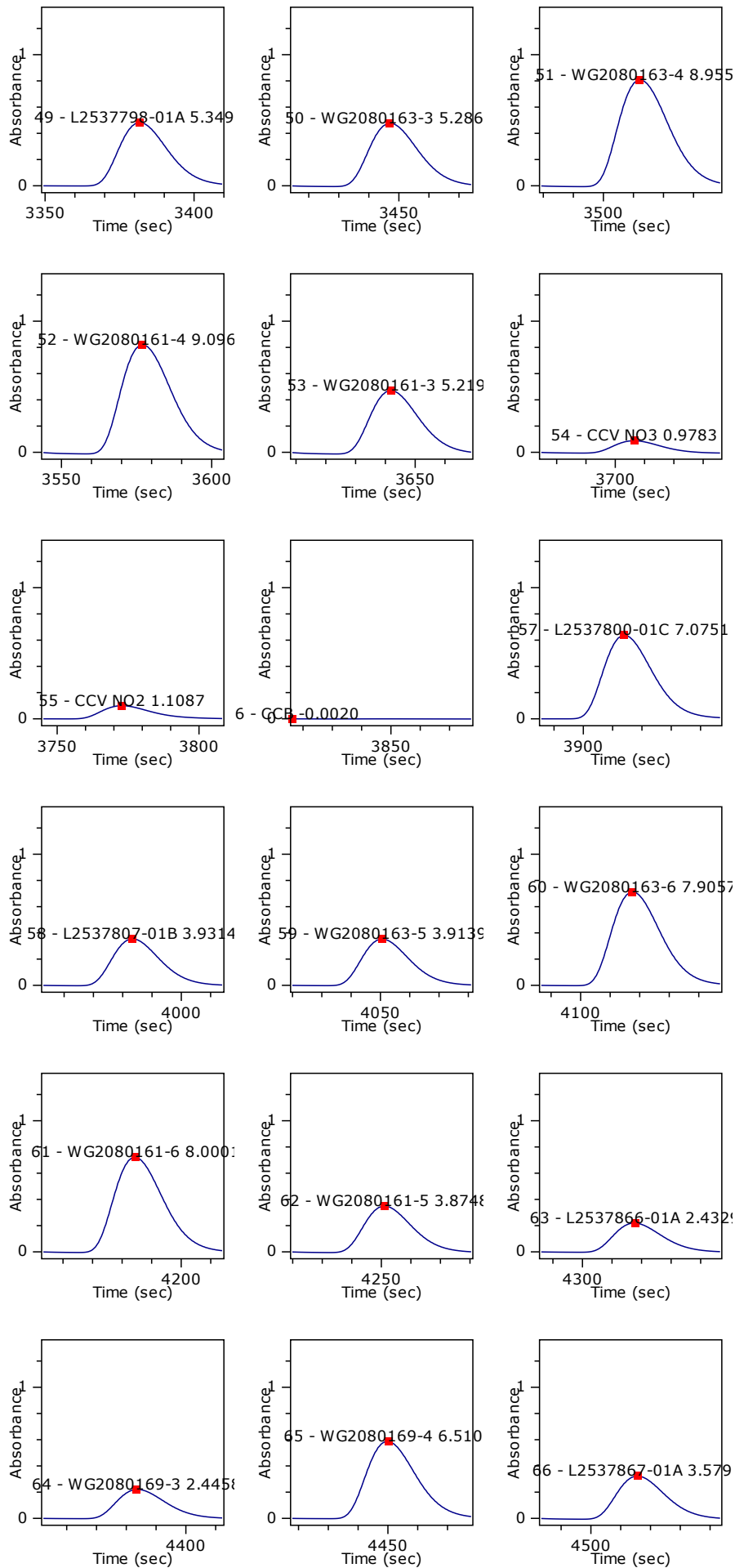
Peaks:

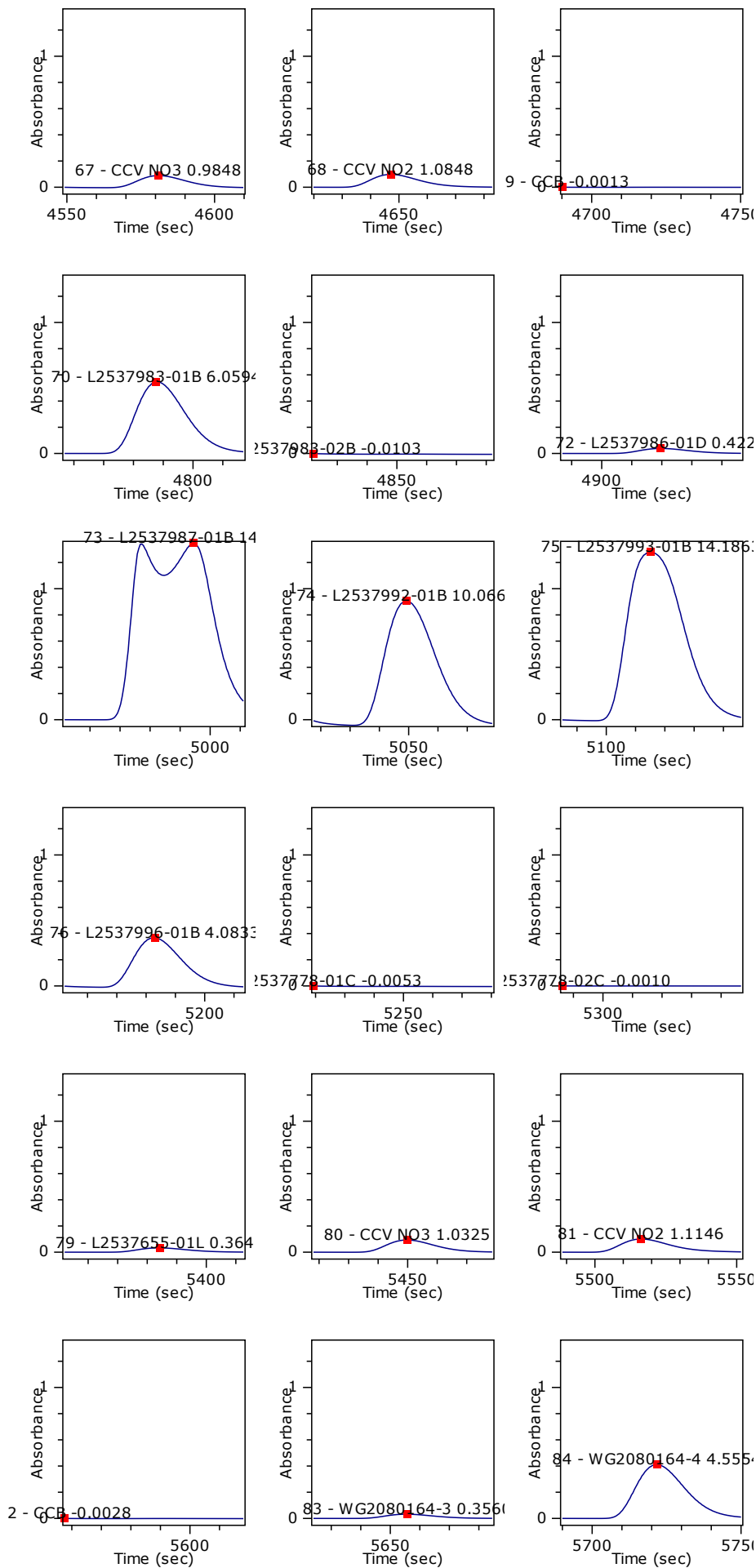
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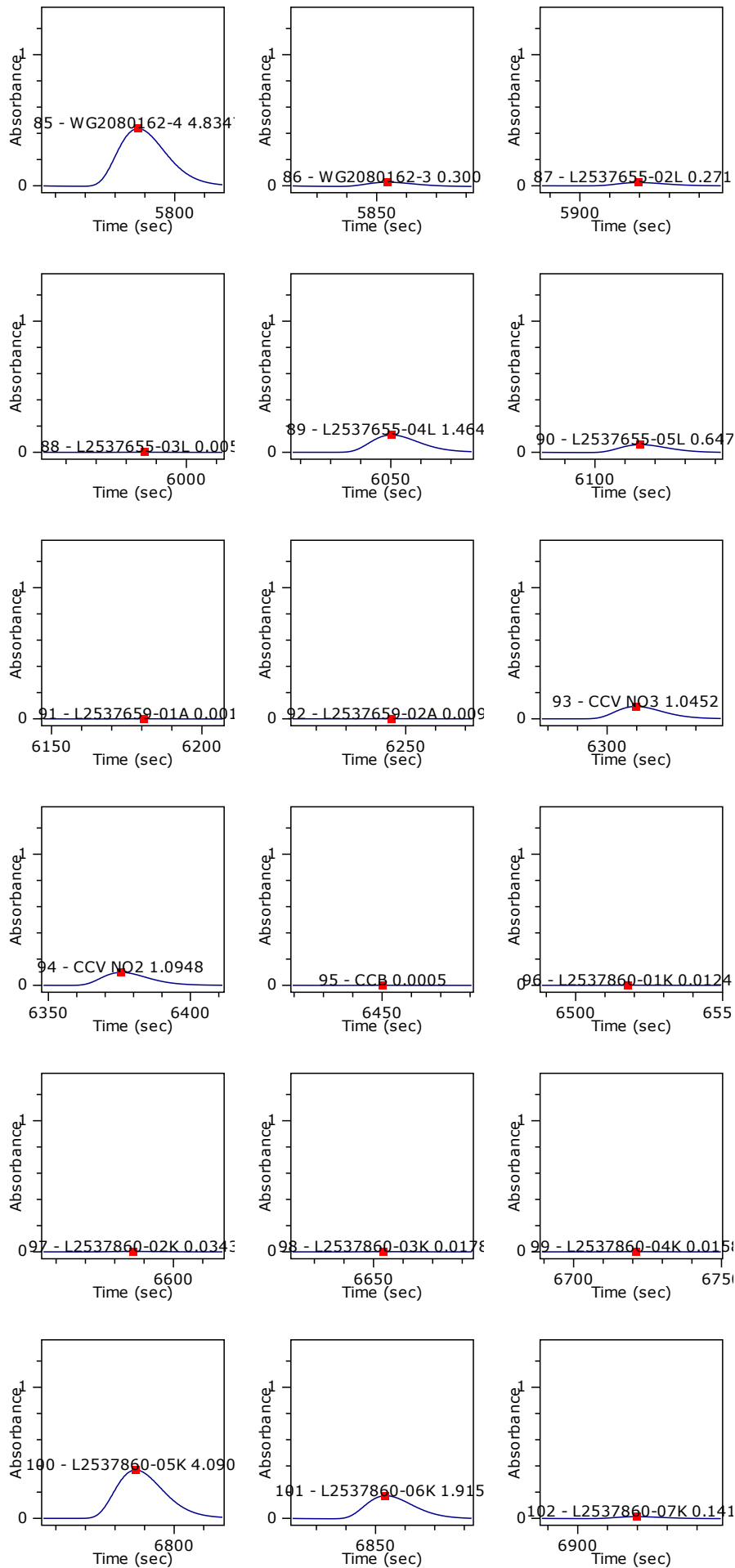


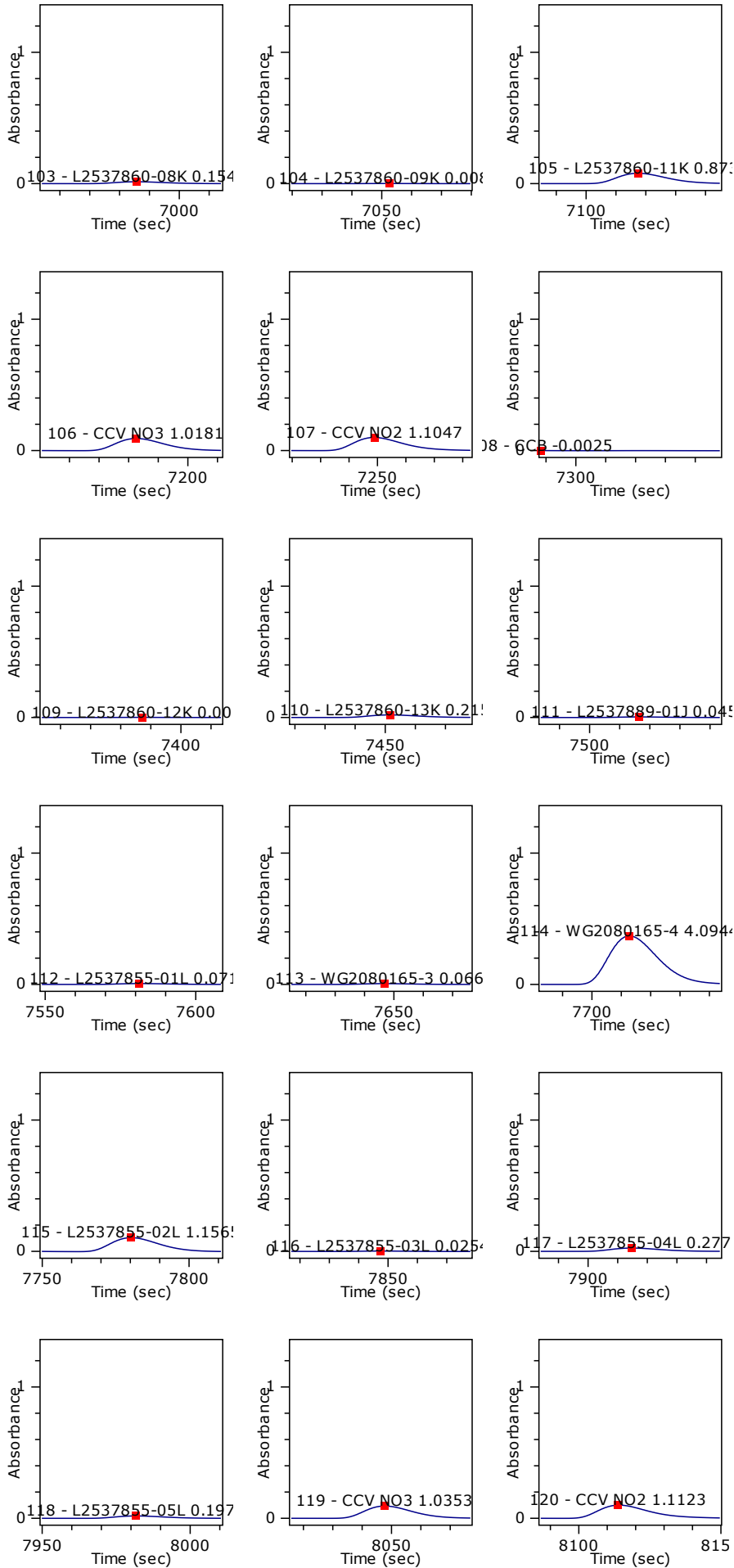


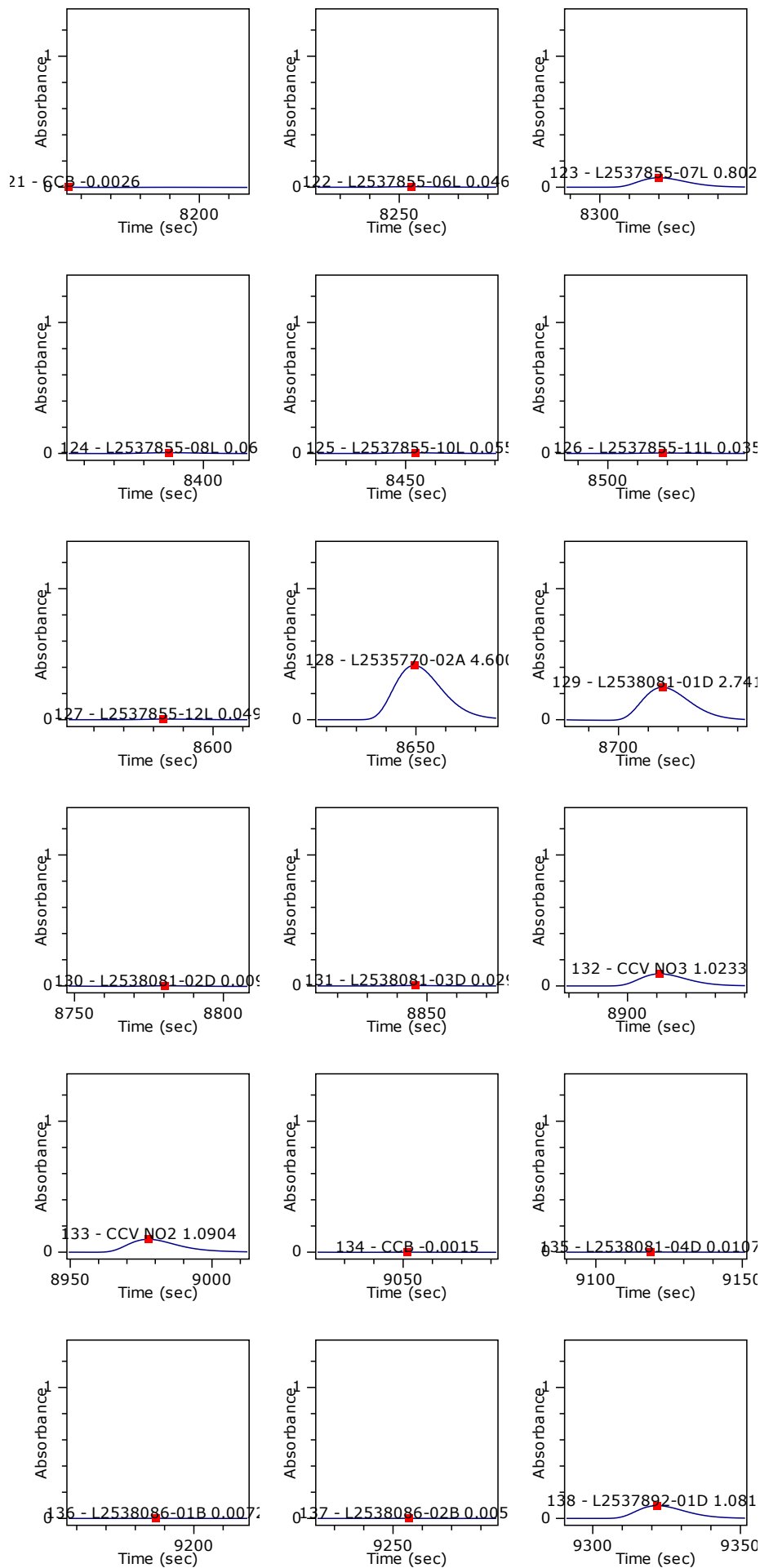


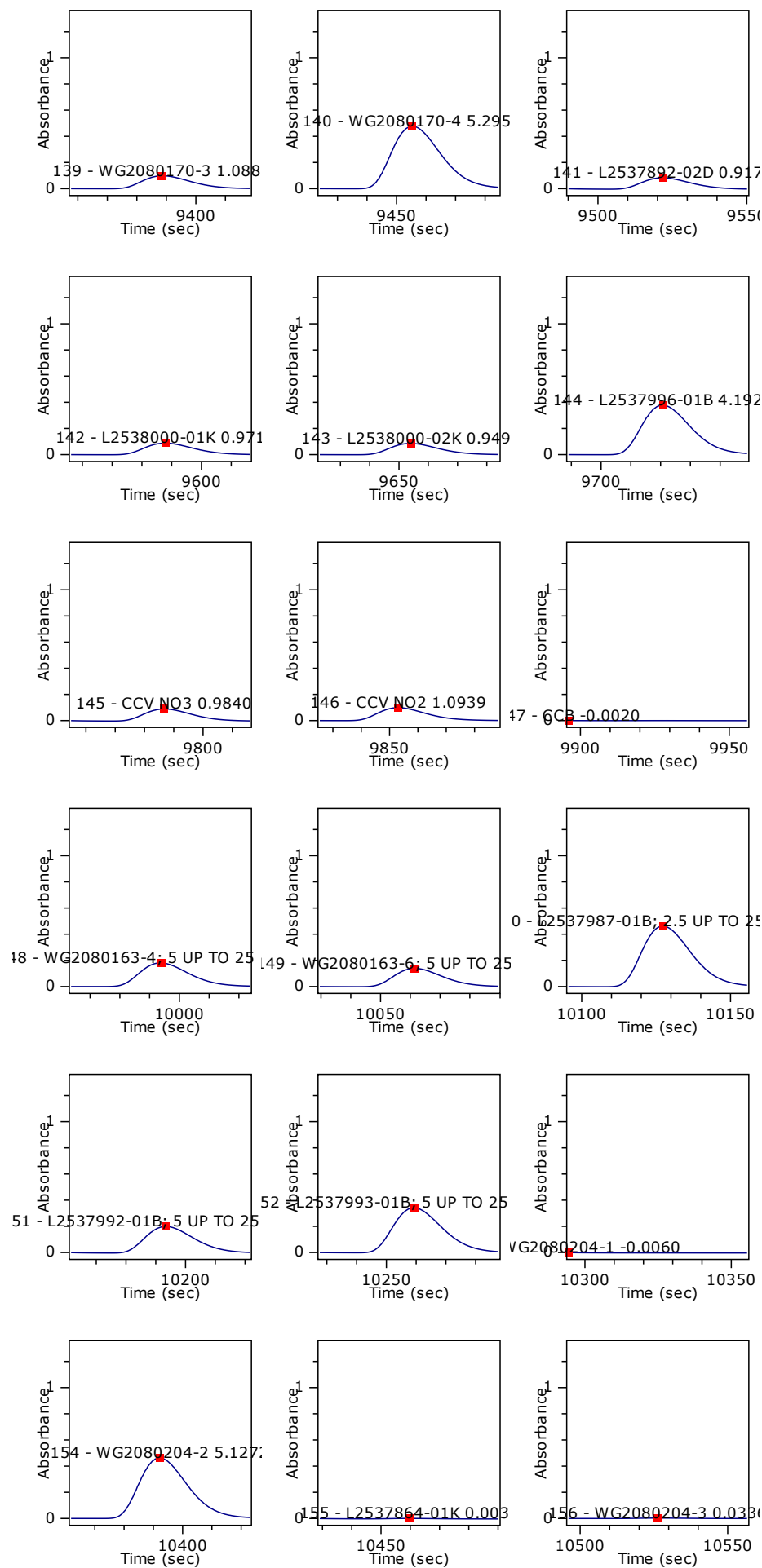


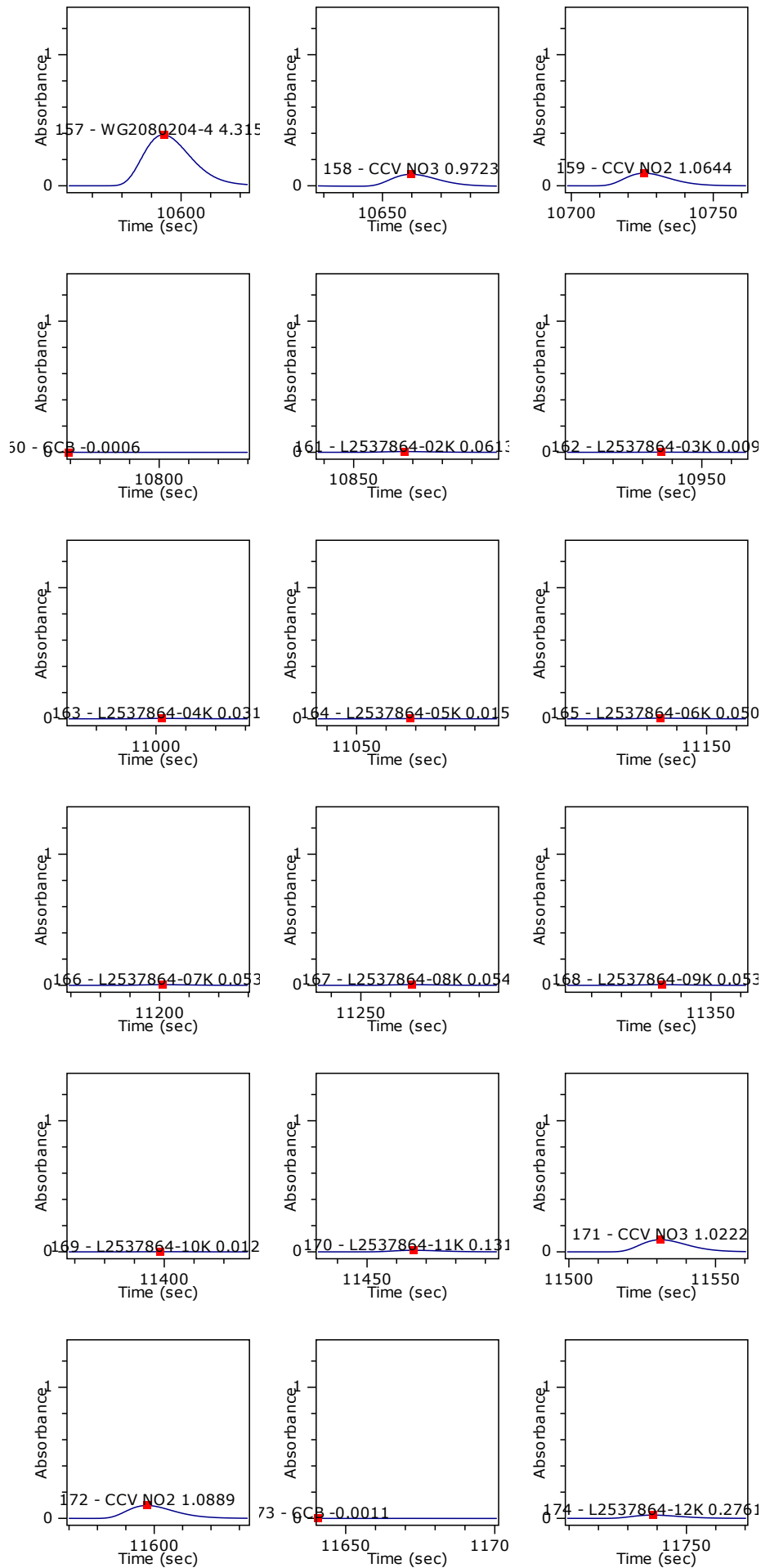


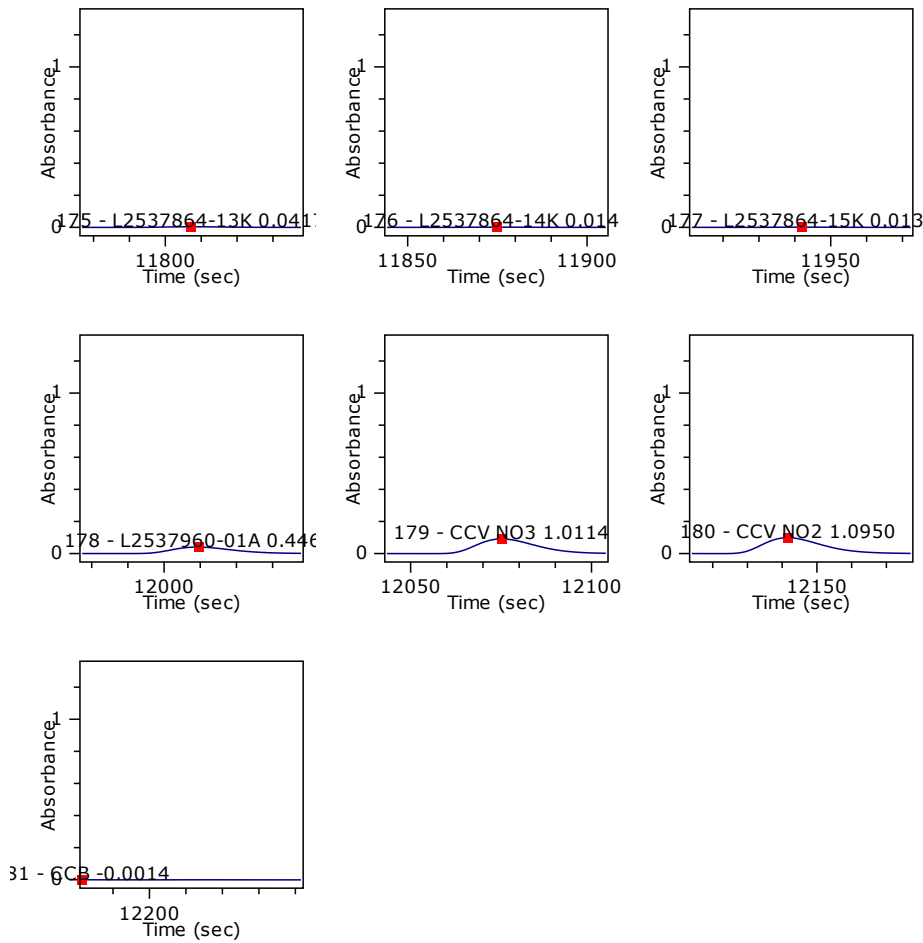




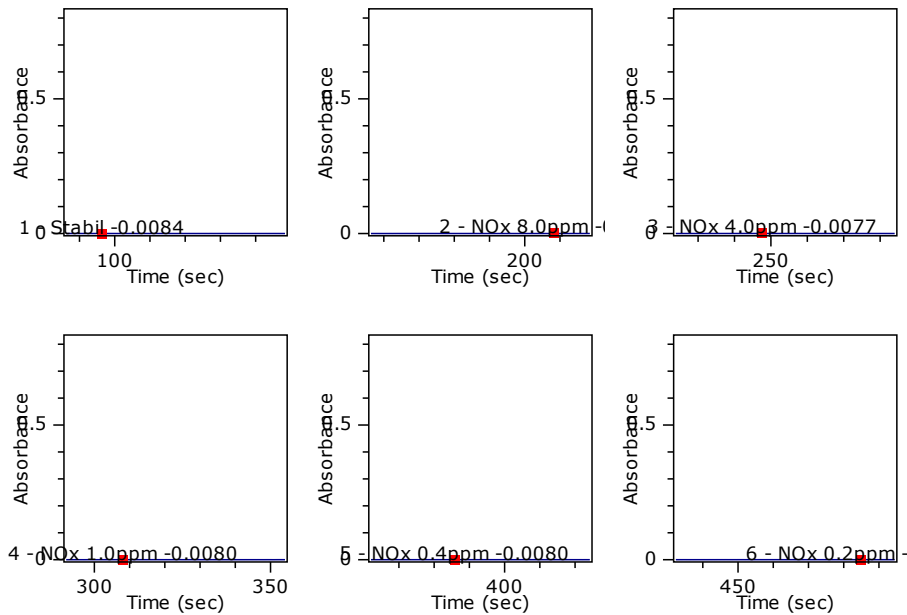


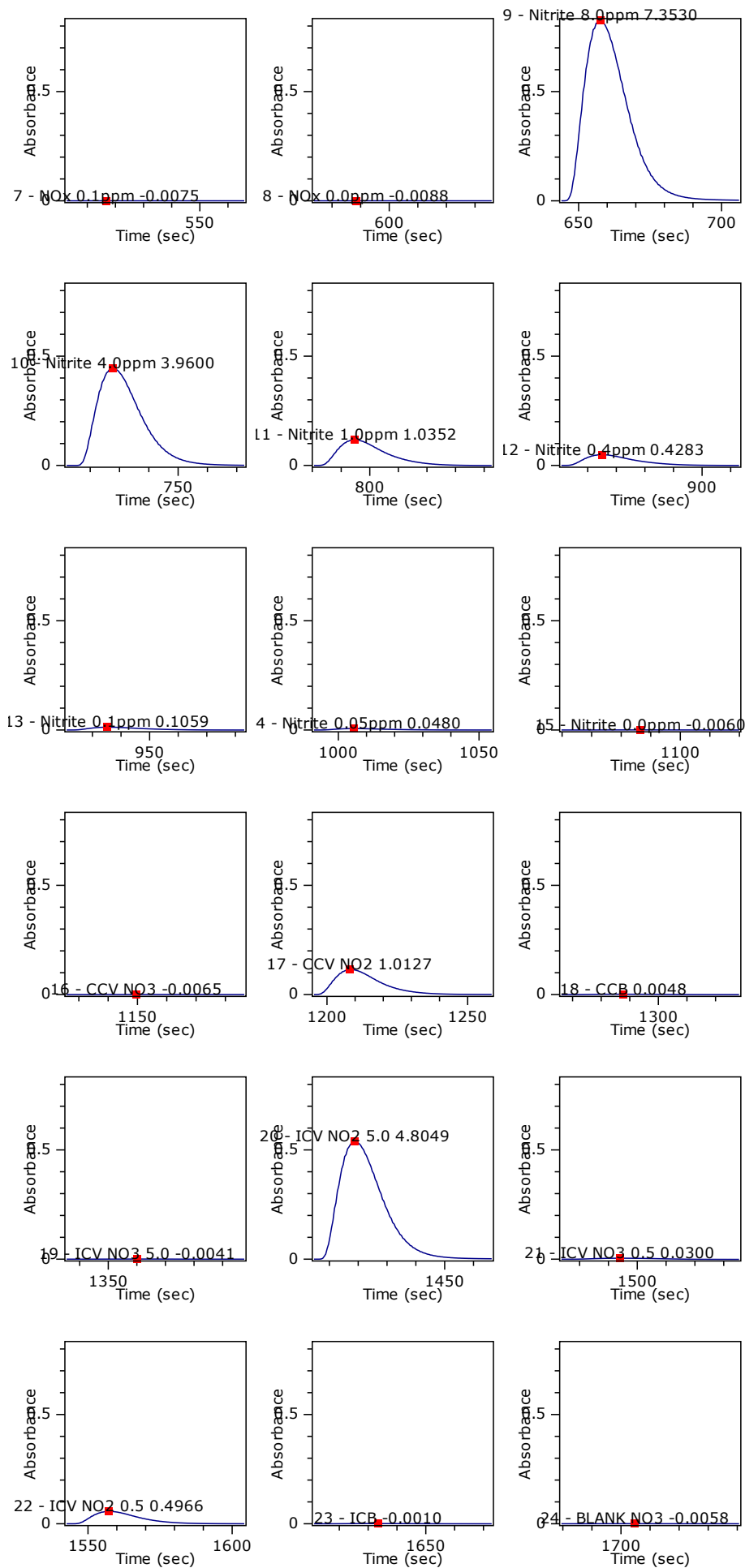


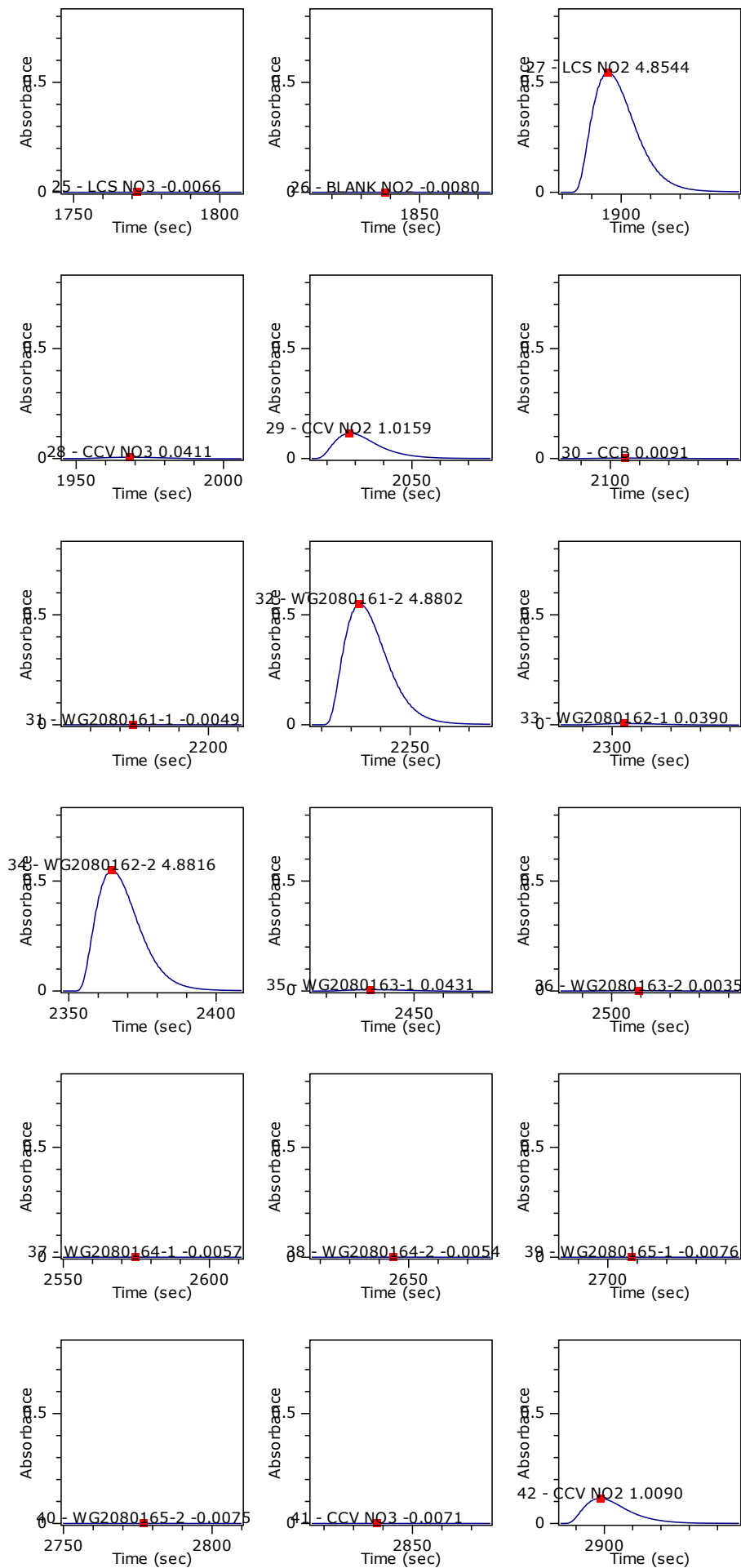


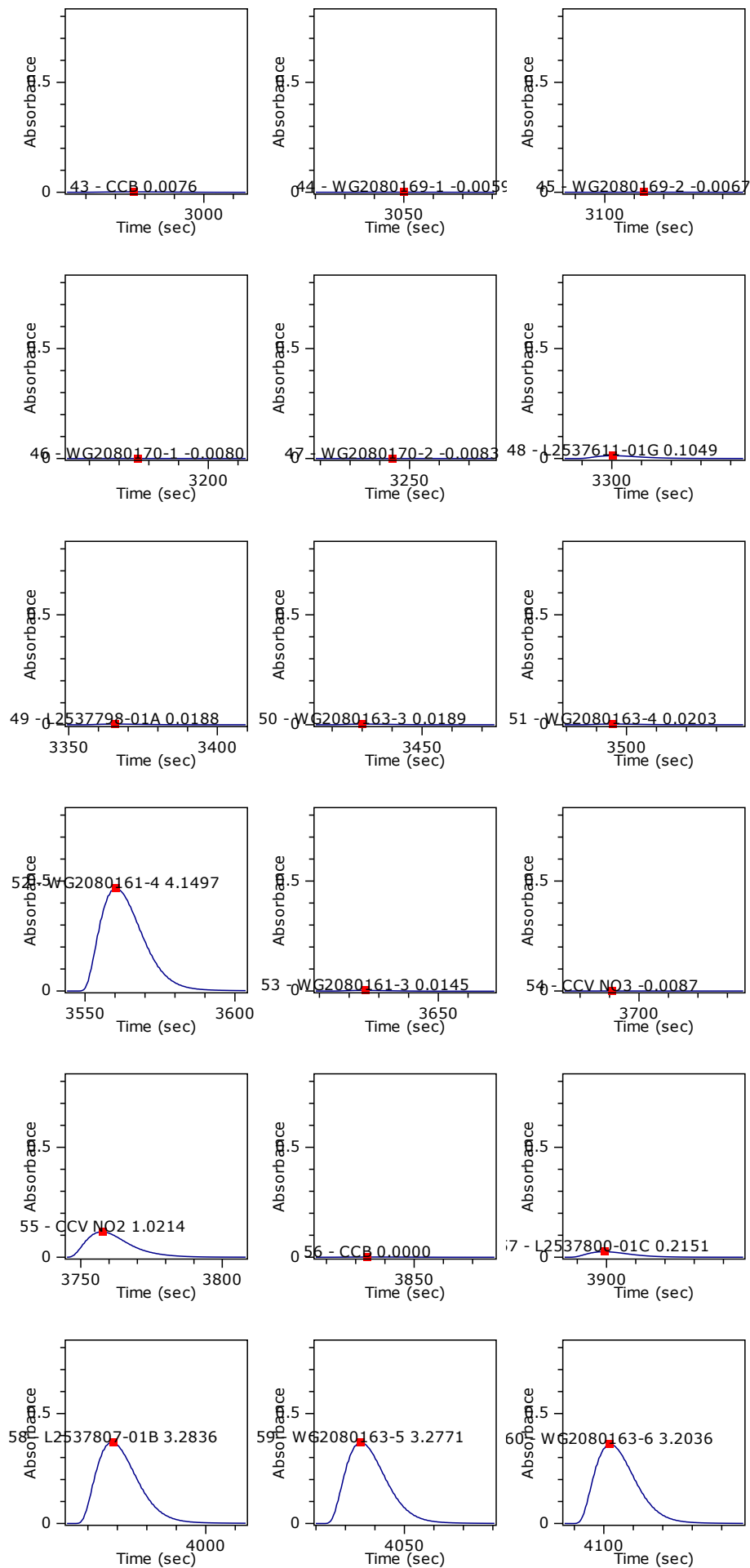


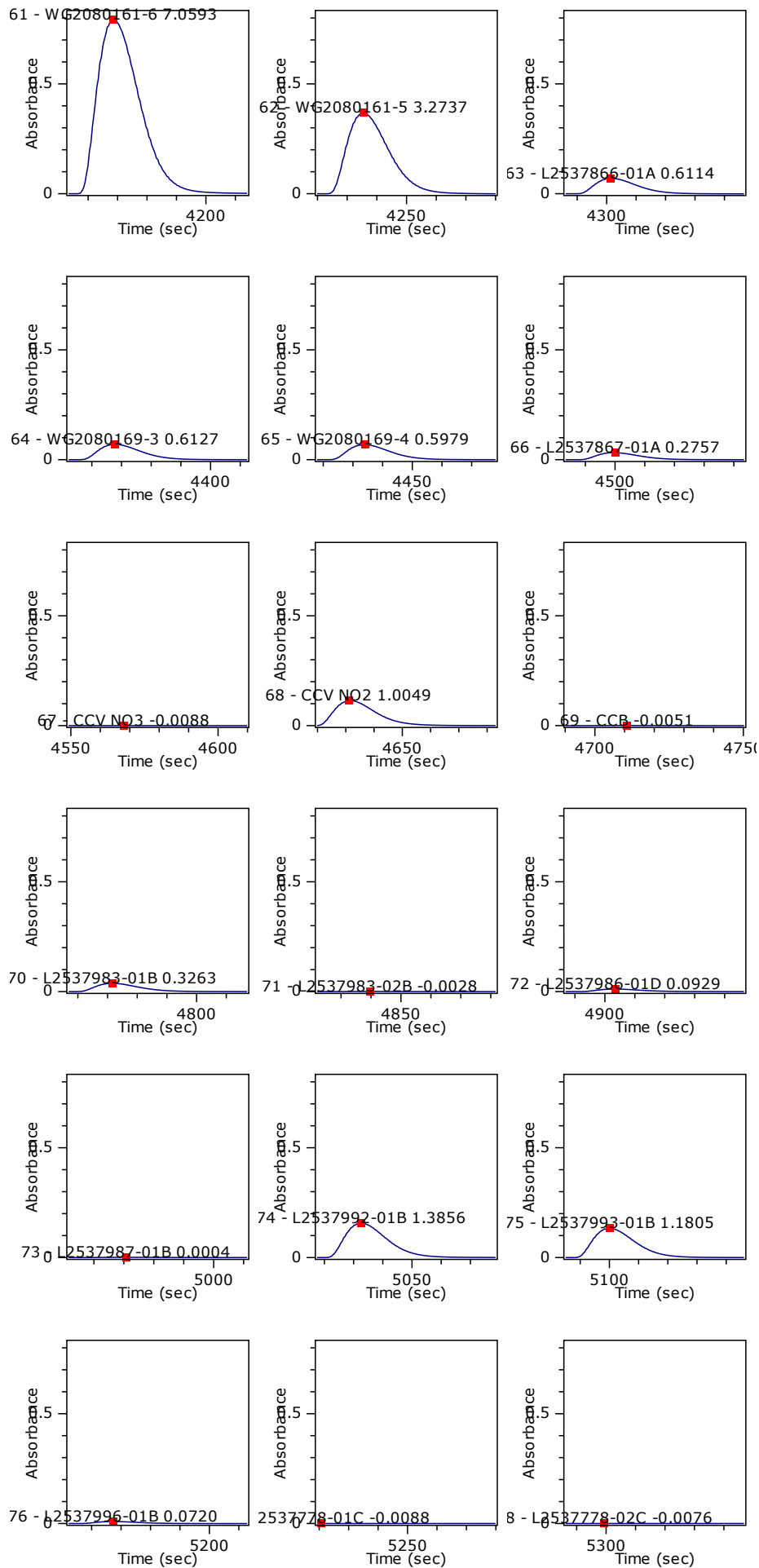
Channel: 2-NO2

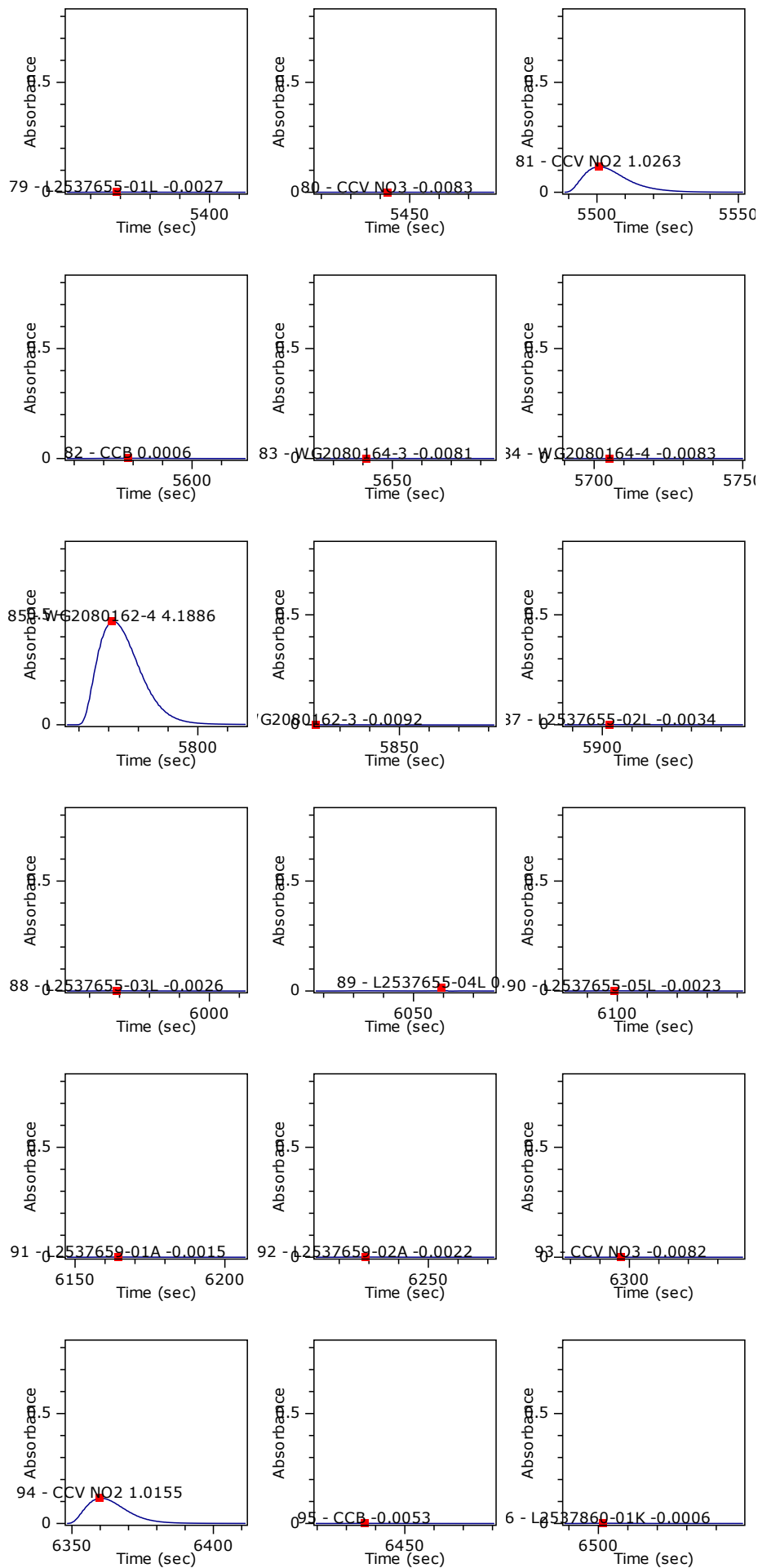


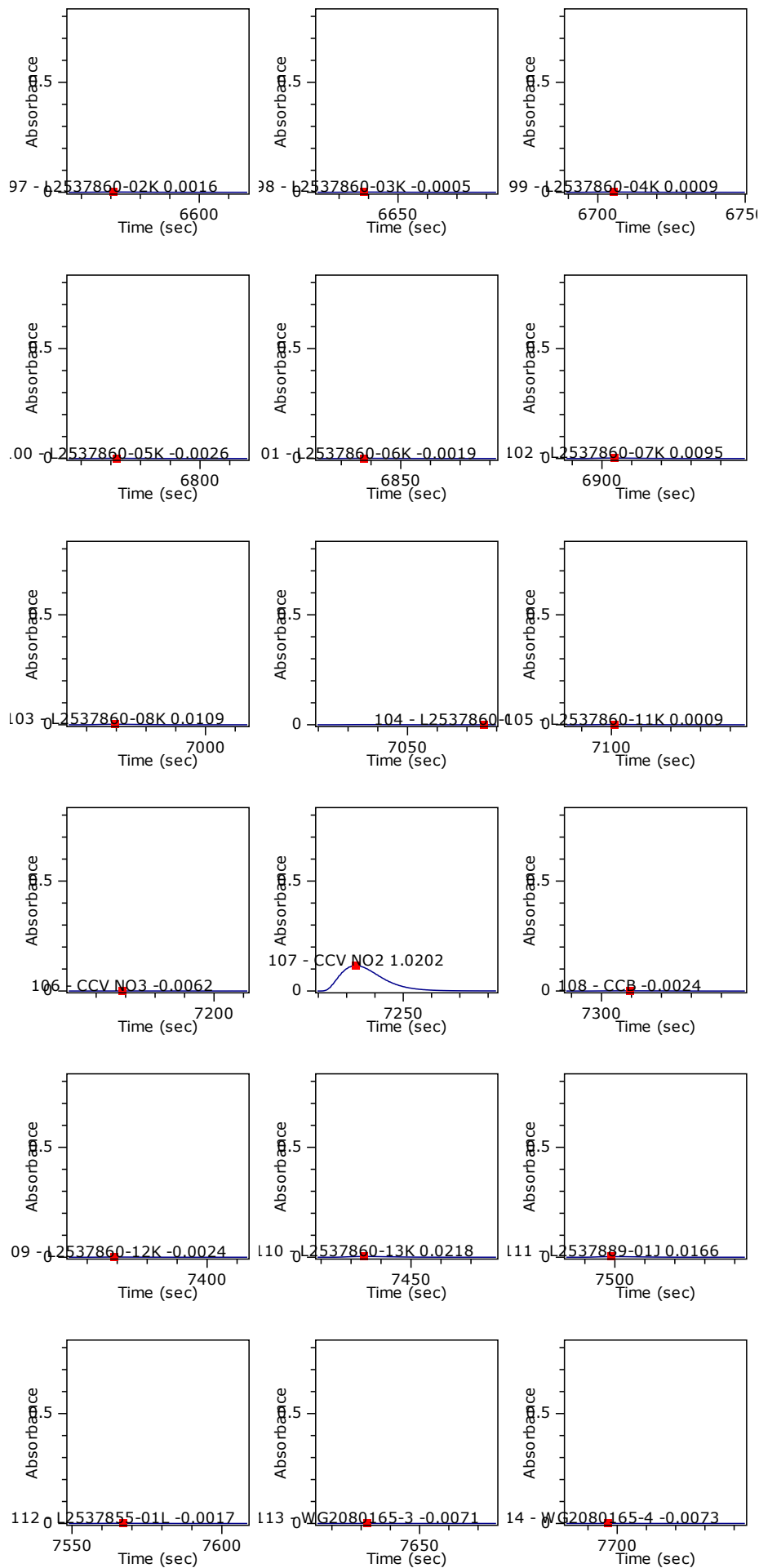


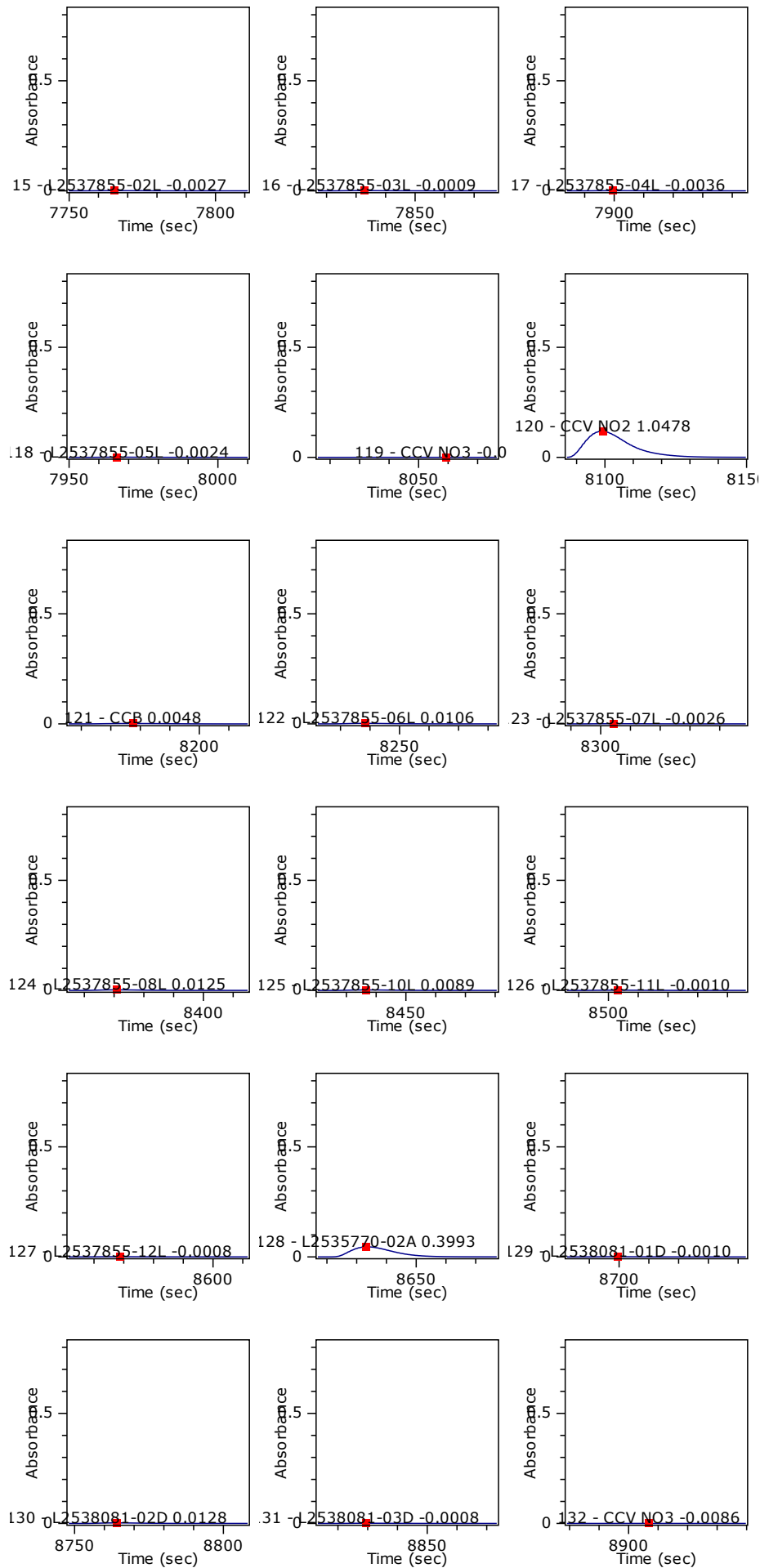


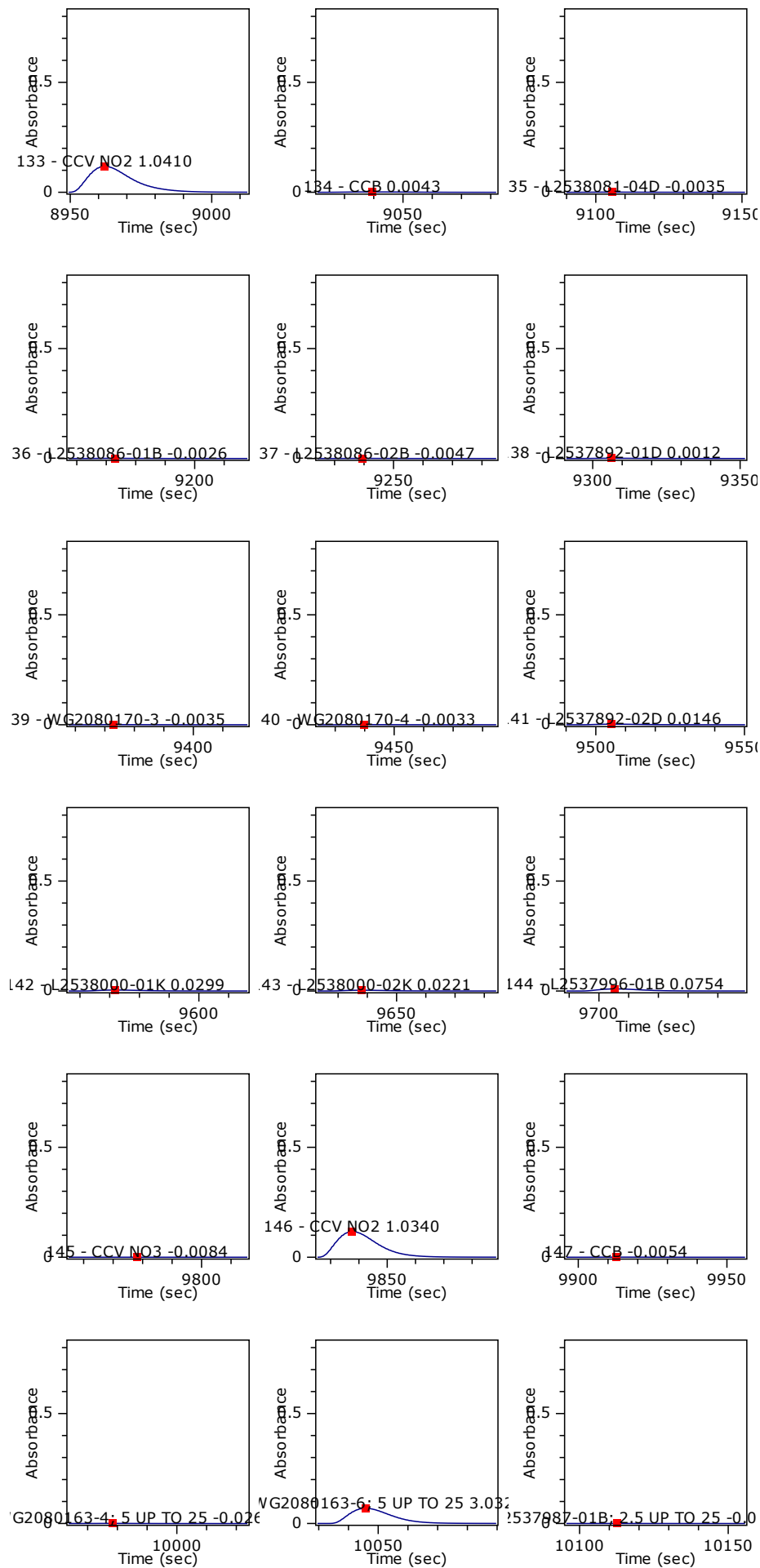


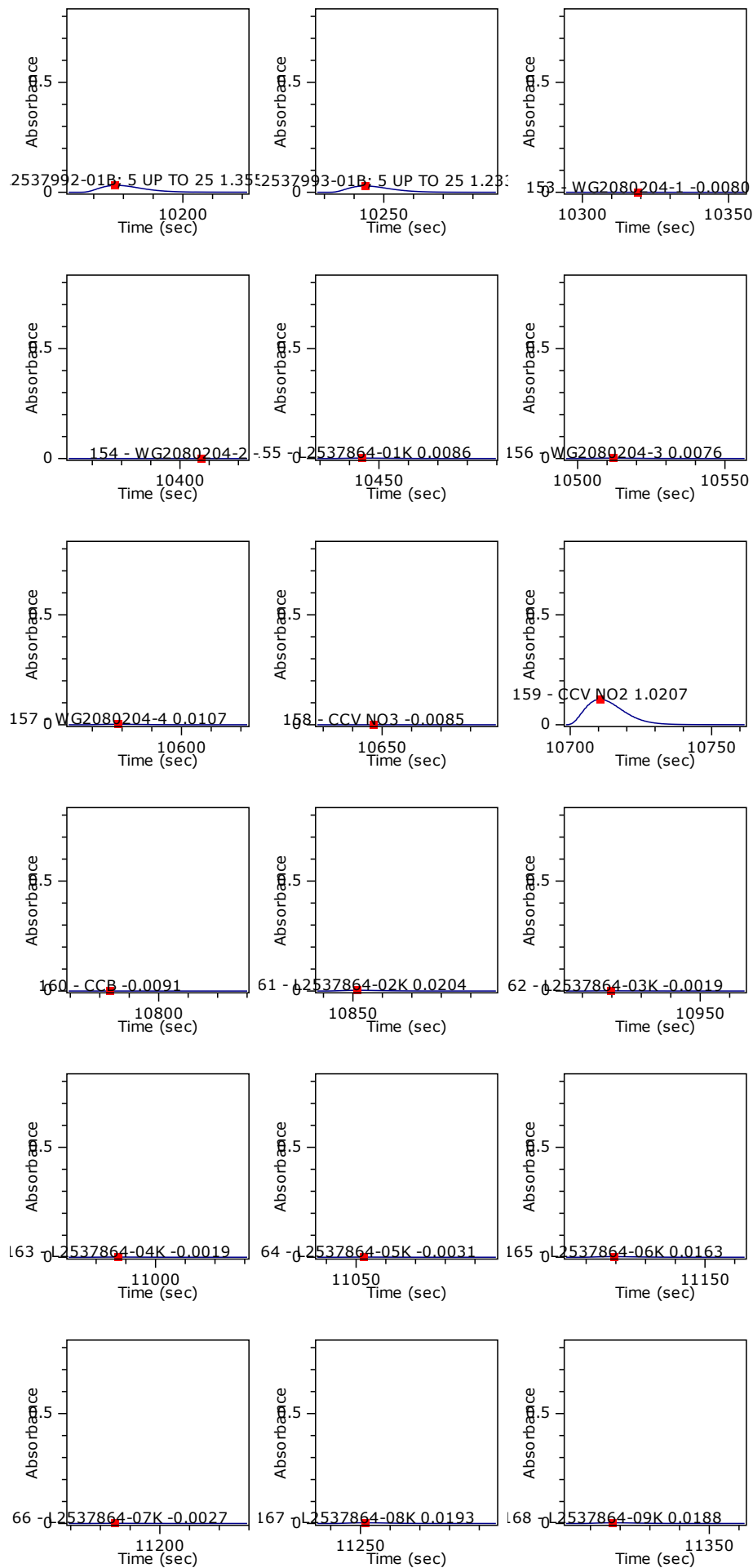


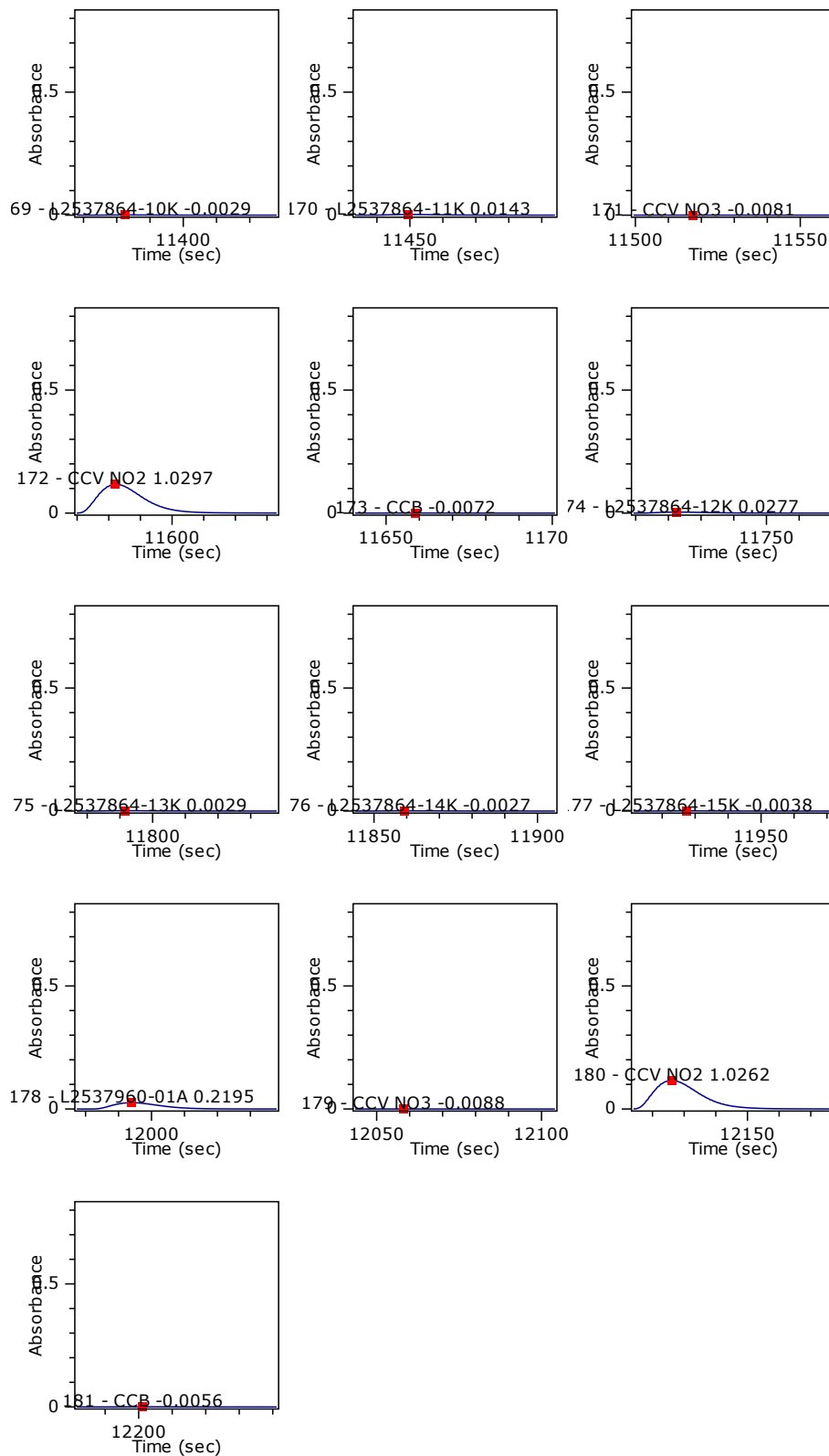












Data Processing Parameters:

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 COM9

Spectrometer Settings

Spectrometer1

Spectrometer Type: tec5

Integration Time: 5.6

Bandwidth: 2

Data Acq Rate: 2

Use Full Spectrum: False

|--- Low: 500nm

|--- High: 650nm

Reduce to Boxcar: True

Spectrometer2

Spectrometer Type: tec5

Integration Time: 5.1

Bandwidth: 2

Data Acq Rate: 2

Use Full Spectrum: False

|--- Low: 500nm

|--- High: 650nm

Reduce to Boxcar: True

Start Time

2025-06-18T02:55:13

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

Graphical report generated by FIAsoft v3.1.10

Report generated on 2025-06-18 06:50:53

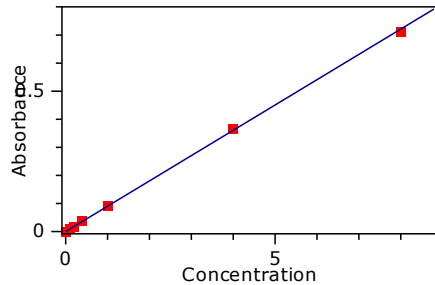
Data file (.dat): C:\FIALab\Autosave Data\2025-06-18-065031.dat

Dataset Notes:

Analyst	
---------	--

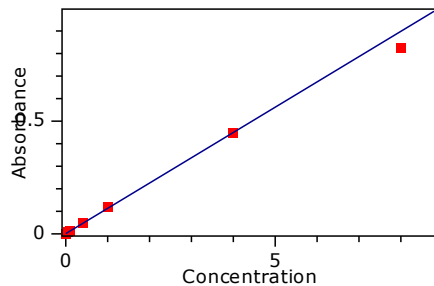
Dataset Notes Table Location: C:\FIALab\FIALab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
 Fit_Order: 1
 Weighting: 1/response
 Standard relation
 Coefficients:
 A: 0.00003
 B: 0.09016
 R^2 : 0.99986
 RSE(%): 1.06150
 % Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.71130	8.00000	7.88850	1.39	N/A
10002	NOx 4.0ppm	0.36460	4.00000	4.04310	1.08	N/A
10003	NOx 1.0ppm	0.09030	1.00000	1.00140	0.14	N/A
10004	NOx 0.4ppm	0.03640	0.40000	0.40350	0.88	N/A
10005	NOx 0.2ppm	0.01790	0.20000	0.19850	0.77	N/A
10006	NOx 0.1ppm	0.00910	0.10000	0.10020	0.15	N/A
10007	NOx 0.0ppm	0.00000	0.00000	-0.00040	NA	N/A



Channel: 2-NO2
 Fit_Order: 1
 Weighting: 1/response
 Standard relation
 Coefficients:
 A: 0.00102
 B: 0.11218
 R^2 : 0.99865
 RSE(%): 6.71582
 % Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	0.82590	8.00000	7.35300	8.09	N/A
10002	Nitrite 4.0ppm	0.44530	4.00000	3.96000	1.00	N/A
10003	Nitrite 1.0ppm	0.11720	1.00000	1.03520	3.52	N/A
10004	Nitrite 0.4ppm	0.04910	0.40000	0.42830	7.08	N/A
10005	Nitrite 0.1ppm	0.01290	0.10000	0.10590	5.94	N/A
10006	Nitrite 0.05ppm	0.00640	0.05000	0.04800	4.01	N/A
10007	Nitrite 0.0ppm	0.00030	0.00000	-0.00600	NA	N/A

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	?	0.0001	1	1	1	0.0002		2025-06-18T06:34:20
CCV NO3	2	QC	1	0.0935	1	1	1	1.0363		2025-06-18T06:35:40
CCV NO2	3	QC	?	0.0984	1	1	1	1.0908		2025-06-18T06:36:46
CCB	4	QC	0	-0.0001	1	1	1	-0.0017		2025-06-18T06:37:26

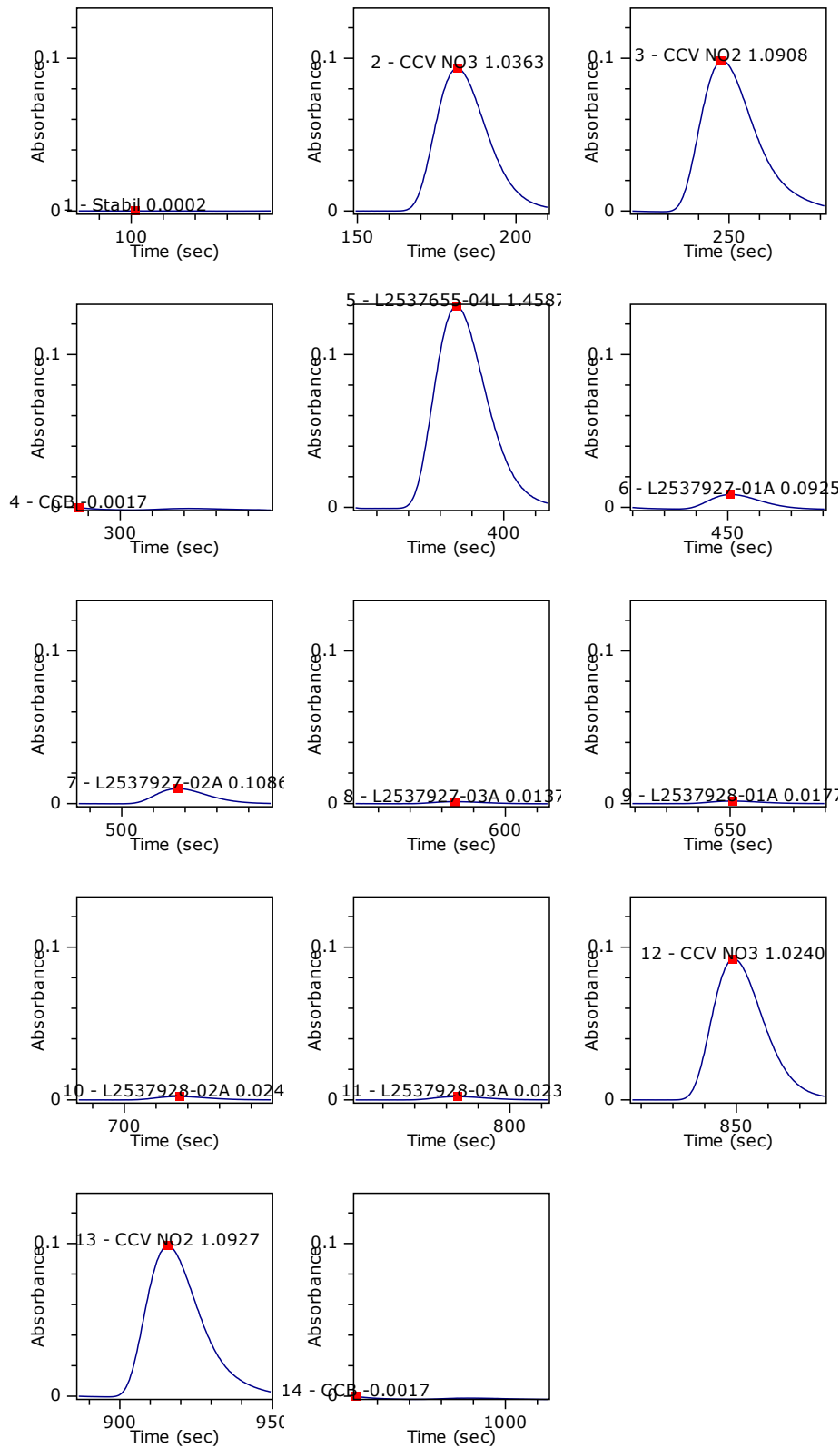
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2537655-04L	5	Unknown	?	0.1316	1	1	1	1.4587		2025-06-18T06:39:04
L2537927-01A	6	Unknown	?	0.0084	1	1	1	0.0925		2025-06-18T06:40:09
L2537927-02A	7	Unknown	?	0.0098	1	1	1	0.1086		2025-06-18T06:41:16
L2537927-03A	8	Unknown	?	0.0013	1	1	1	0.0137		2025-06-18T06:42:23
L2537928-01A	9	Unknown	?	0.0016	1	1	1	0.0177		2025-06-18T06:43:29
L2537928-02A	10	Unknown	?	0.0023	1	1	1	0.0248		2025-06-18T06:44:36
L2537928-03A	11	Unknown	?	0.0022	1	1	1	0.0236		2025-06-18T06:45:42
CCV NO3	12	QC	1	0.0924	1	1	1	1.0240		2025-06-18T06:46:47
CCV NO2	13	QC	?	0.0986	1	1	1	1.0927		2025-06-18T06:47:54
CCB	14	QC	0	-0.0001	1	1	1	-0.0017		2025-06-18T06:48:32

Channel: 2-NO2

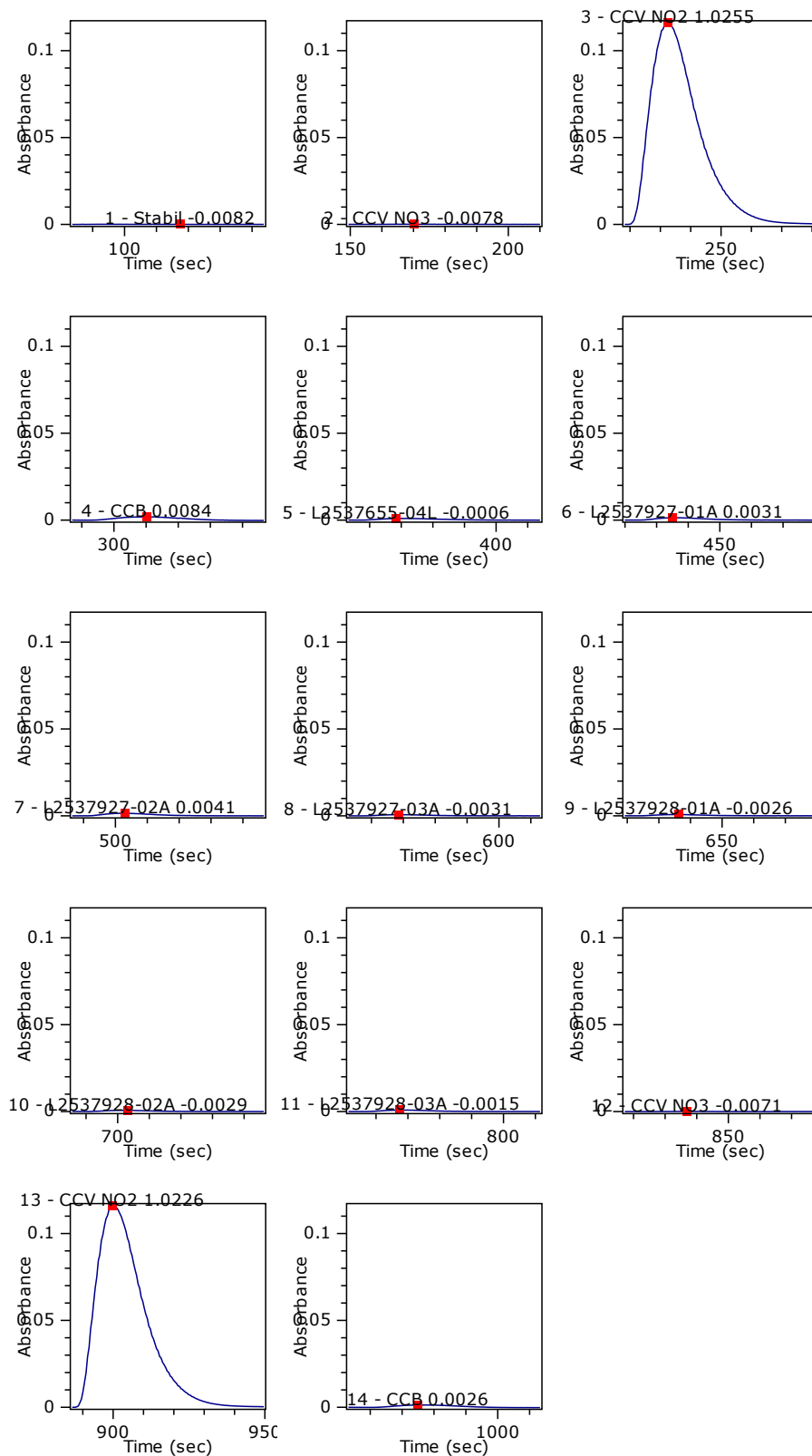
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0082		2025-06-18T06:34:36
CCV NO3	2	QC	?	0.0001	1	1	1	-0.0078		2025-06-18T06:35:29
CCV NO2	3	QC	1	0.1161	1	1	1	1.0255		2025-06-18T06:36:31
CCB	4	QC	0	0.0020	1	1	1	0.0084		2025-06-18T06:37:49
L2537655-04L	5	Unknown	?	0.0010	1	1	1	-0.0006		2025-06-18T06:38:47
L2537927-01A	6	Unknown	?	0.0014	1	1	1	0.0031		2025-06-18T06:39:54
L2537927-02A	7	Unknown	?	0.0015	1	1	1	0.0041		2025-06-18T06:41:02
L2537927-03A	8	Unknown	?	0.0007	1	1	1	-0.0031		2025-06-18T06:42:07
L2537928-01A	9	Unknown	?	0.0007	1	1	1	-0.0026		2025-06-18T06:43:15
L2537928-02A	10	Unknown	?	0.0007	1	1	1	-0.0029		2025-06-18T06:44:22
L2537928-03A	11	Unknown	?	0.0009	1	1	1	-0.0015		2025-06-18T06:45:26
CCV NO3	12	QC	?	0.0002	1	1	1	-0.0071		2025-06-18T06:46:35
CCV NO2	13	QC	1	0.1157	1	1	1	1.0226		2025-06-18T06:47:38
CCB	14	QC	0	0.0013	1	1	1	0.0026		2025-06-18T06:48:53

Peaks:

Channel: 1-NOx



Channel: 2-NO2



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 COM9

Spectrometer Settings

Spectrometer1

Spectrometer Type: tec5

Integration Time: 5.6

Bandwidth: 2

Data Acq Rate: 2

Use Full Spectrum: False

|--- Low: 500nm

|--- High: 650nm

Reduce to Boxcar: True

Spectrometer2

Spectrometer Type: tec5

Integration Time: 5.1

Bandwidth: 2

Data Acq Rate: 2

Use Full Spectrum: False

|--- Low: 500nm

|--- High: 650nm

Reduce to Boxcar: True

Start Time

2025-06-18T06:32:39

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
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-11S
 Lab Sample ID : L2537655-01
 Matrix Spike : WG2080162-4
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/18/25 04:31
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Nitrogen, Nitrite	ND	4	4.19	105					80-120	20

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-11S
 Lab Sample ID : L2537655-01
 Matrix Spike : WG2080164-4
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER

MS Analysis Date : 06/18/25 04:30
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Nitrogen, Nitrate	0.364	4	4.56	105					83-113	17



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2537892-01
 Matrix Spike : WG2080170-4
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER

MS Analysis Date : 06/18/25 05:32
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Nitrogen, Nitrate/Nitrite	1.1	4	5.3	105					80-120	20



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-11S	Matrix	: WATER
Lab Sample ID	: L2537655-01	Analysis Date	: 06/18/25 04:24
Dup Sample ID	: WG2080162-3	DUP Analysis Date	: 06/18/25 04:32

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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-11S	Matrix	: WATER
Lab Sample ID	: L2537655-01	Analysis Date	: 06/18/25 04:24
Dup Sample ID	: WG2080164-3	DUP Analysis Date	: 06/18/25 04:29

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate	0.364	0.356	2	17



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/18/25 05:30
Dup Sample ID	: WG2080170-3	DUP Analysis Date	: 06/18/25 05:31

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	1.1	1.1	0	20



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2080162-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/18/25 03:34
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Nitrogen, Nitrite	5.00	4.88	98.					90-110	20

Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2080164-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/18/25 03:39
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Nitrogen, Nitrate	5.00	5.10	102.					90-110	17



Form 7 Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2080170-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/18/25 03:49
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Nitrogen, Nitrate/Nitrite	5.00	5.10	102.					90-110	20



Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soll/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)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soll/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)

$$\text{NO}_3 \text{ mg/I} = (\text{NO}_3 + \text{NO}_2) \text{ mg/L} - (\text{NO}_2) \text{ mg/L}$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(\text{NO}_3)\text{-N mg/L} = \text{mg/L direct reading} \times \text{dilution factor}$$

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)

$$(\text{NO}_2)\text{-N mg/L} = \text{mg/L direct reading} \times \text{dilution factor}$$

Sequence Logs

Graphical report generated by FIAsoft v3.1.10

Report generated on 2025-06-18 06:27:08

Data file (.dat): C:\FIALab\Autosave Data\2025-06-18-062623.dat

Dataset Notes:

Analyst	
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Dataset Notes Table Location: C:\FIALab\FIALab User Files\Tables\Dataset Notes\Analyst.csv

Sample Table:

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
1	Stabil	RS10	Unknown	0	1	1	1	
2	NOx 8.0ppm	RD76	Standard	1	1	1	1	
3	NOx 4.0ppm	RD77	Standard	2	1	1	1	
4	NOx 1.0ppm	RS1	Standard	3	1	1	1	
5	NOx 0.4ppm	RD78	Standard	4	1	1	1	
6	NOx 0.2ppm	RD79	Standard	5	1	1	1	
7	NOx 0.1ppm	RD80	Standard	6	1	1	1	
8	NOx 0.0ppm	RS10	Standard	7	1	1	1	
9	Nitrite 8.0ppm	RD81	Standard	8	1	1	1	
10	Nitrite 4.0ppm	RD82	Standard	9	1	1	1	
11	Nitrite 1.0ppm	RS2	Standard	10	1	1	1	
12	Nitrite 0.4ppm	RD83	Standard	11	1	1	1	
13	Nitrite 0.1ppm	RD84	Standard	13	1	1	1	
14	Nitrite 0.05ppm	RD85	Standard	14	1	1	1	
15	Nitrite 0.0ppm	RS10	Standard	15	1	1	1	
16	CCV NO3	RS1	QC	94	1	1	1	
17	CCV NO2	RS2	QC	95	1	1	1	
18	CCB	RS10	QC	96	1	1	1	
19	ICV NO3 5.0	RA1	QC	90	1	1	1	
20	ICV NO2 5.0	RA2	QC	92	1	1	1	
21	ICV NO3 0.5	RA3	QC	91	1	1	1	
22	ICV NO2 0.5	RA4	QC	93	1	1	1	
23	ICB	RA5	QC	96	1	1	1	
24	BLANK NO3	RA7	Unknown	0	1	1	1	
25	LCS NO3	RA8	Unknown	0	1	1	1	
26	BLANK NO2	RA9	Unknown	0	1	1	1	
27	LCS NO2	RA10	Unknown	0	1	1	1	
28	CCV NO3	RS1	QC	94	1	1	1	
29	CCV NO2	RS2	QC	95	1	1	1	
30	CCB	RS10	QC	96	1	1	1	
31	WG2080161-1	RA11	Unknown	0	1	1	1	
32	WG2080161-2	RA12	Unknown	0	1	1	1	

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
33	WG2080162-1	RA13	Unknown	0	1	1	1	
34	WG2080162-2	RA14	Unknown	0	1	1	1	
35	WG2080163-1	RA15	Unknown	0	1	1	1	
36	WG2080163-2	RA16	Unknown	0	1	1	1	
37	WG2080164-1	RA17	Unknown	0	1	1	1	
38	WG2080164-2	RA18	Unknown	0	1	1	1	
39	WG2080165-1	RA19	Unknown	0	1	1	1	
40	WG2080165-2	RA20	Unknown	0	1	1	1	
41	CCV NO3	RS1	QC	94	1	1	1	
42	CCV NO2	RS2	QC	95	1	1	1	
43	CCB	RS10	QC	96	1	1	1	
44	WG2080169-1	RA21	Unknown	0	1	1	1	
45	WG2080169-2	RA22	Unknown	0	1	1	1	
46	WG2080170-1	RA23	Unknown	0	1	1	1	
47	WG2080170-2	RA24	Unknown	0	1	1	1	
48	L2537611-01G	RA25	Unknown	0	1	1	1	
49	L2537798-01A	RA26	Unknown	0	1	1	1	
50	WG2080163-3	RA27	Unknown	0	1	1	1	
51	WG2080163-4	RA28	Unknown	0	1	1	1	
52	WG2080161-4	RA30	Unknown	0	1	1	1	
53	WG2080161-3	RA29	Unknown	0	1	1	1	
54	CCV NO3	RS1	QC	94	1	1	1	
55	CCV NO2	RS2	QC	95	1	1	1	
56	CCB	RS10	QC	96	1	1	1	
57	L2537800-01C	RA31	Unknown	0	1	1	1	
58	L2537807-01B	RA32	Unknown	0	1	1	1	
59	WG2080163-5	RA33	Unknown	0	1	1	1	
60	WG2080163-6	RA34	Unknown	0	1	1	1	
61	WG2080161-6	RA36	Unknown	0	1	1	1	
62	WG2080161-5	RA35	Unknown	0	1	1	1	
63	L2537866-01A	RA37	Unknown	0	1	1	1	
64	WG2080169-3	RA38	Unknown	0	1	1	1	
65	WG2080169-4	RA39	Unknown	0	1	1	1	
66	L2537867-01A	RA40	Unknown	0	1	1	1	
67	CCV NO3	RS1	QC	94	1	1	1	
68	CCV NO2	RS2	QC	95	1	1	1	
69	CCB	RS10	QC	96	1	1	1	
70	L2537983-01B	RA41	Unknown	0	1	1	1	
71	L2537983-02B	RA42	Unknown	0	1	1	1	
72	L2537986-01D	RA43	Unknown	0	1	1	1	

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
73	L2537987-01B	RA44	Unknown	0	1	1	1	
74	L2537992-01B	RA45	Unknown	0	1	1	1	
75	L2537993-01B	RA46	Unknown	0	1	1	1	
76	L2537996-01B	RA47	Unknown	0	1	1	1	
77	L2537778-01C	RA48	Unknown	0	1	1	1	
78	L2537778-02C	RA49	Unknown	0	1	1	1	
79	L2537655-01L	RA50	Unknown	0	1	1	1	
80	CCV NO3	RS1	QC	94	1	1	1	
81	CCV NO2	RS2	QC	95	1	1	1	
82	CCB	RS10	QC	96	1	1	1	
83	WG2080164-3	RA51	Unknown	0	1	1	1	
84	WG2080164-4	RA52	Unknown	0	1	1	1	
85	WG2080162-4	RA54	Unknown	0	1	1	1	
86	WG2080162-3	RA53	Unknown	0	1	1	1	
87	L2537655-02L	RA55	Unknown	0	1	1	1	
88	L2537655-03L	RA56	Unknown	0	1	1	1	
89	L2537655-04L	RA57	Unknown	0	1	1	1	
90	L2537655-05L	RA58	Unknown	0	1	1	1	
91	L2537659-01A	RA59	Unknown	0	1	1	1	
92	L2537659-02A	RA60	Unknown	0	1	1	1	
93	CCV NO3	RS1	QC	94	1	1	1	
94	CCV NO2	RS2	QC	95	1	1	1	
95	CCB	RS10	QC	96	1	1	1	
96	L2537860-01K	RA61	Unknown	0	1	1	1	
97	L2537860-02K	RA62	Unknown	0	1	1	1	
98	L2537860-03K	RA63	Unknown	0	1	1	1	
99	L2537860-04K	RA64	Unknown	0	1	1	1	
100	L2537860-05K	RA65	Unknown	0	1	1	1	
101	L2537860-06K	RA66	Unknown	0	1	1	1	
102	L2537860-07K	RA67	Unknown	0	1	1	1	
103	L2537860-08K	RA68	Unknown	0	1	1	1	
104	L2537860-09K	RA69	Unknown	0	1	1	1	
105	L2537860-11K	RA70	Unknown	0	1	1	1	
106	CCV NO3	RS1	QC	94	1	1	1	
107	CCV NO2	RS2	QC	95	1	1	1	
108	CCB	RS10	QC	96	1	1	1	
109	L2537860-12K	RA71	Unknown	0	1	1	1	
110	L2537860-13K	RA72	Unknown	0	1	1	1	
111	L2537889-01J	RA73	Unknown	0	1	1	1	
112	L2537855-01L	RA74	Unknown	0	1	1	1	

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
113	WG2080165-3	RA75	Unknown	0	1	1	1	
114	WG2080165-4	RA76	Unknown	0	1	1	1	
115	L2537855-02L	RA77	Unknown	0	1	1	1	
116	L2537855-03L	RA78	Unknown	0	1	1	1	
117	L2537855-04L	RA79	Unknown	0	1	1	1	
118	L2537855-05L	RA80	Unknown	0	1	1	1	
119	CCV NO3	RS1	QC	94	1	1	1	
120	CCV NO2	RS2	QC	95	1	1	1	
121	CCB	RS10	QC	96	1	1	1	
122	L2537855-06L	RA81	Unknown	0	1	1	1	
123	L2537855-07L	RA82	Unknown	0	1	1	1	
124	L2537855-08L	RA83	Unknown	0	1	1	1	
125	L2537855-10L	RA84	Unknown	0	1	1	1	
126	L2537855-11L	RA85	Unknown	0	1	1	1	
127	L2537855-12L	RA86	Unknown	0	1	1	1	
128	L2535770-02A	RA87	Unknown	0	1	1	1	
129	L2538081-01D	RA88	Unknown	0	1	1	1	
130	L2538081-02D	RA89	Unknown	0	1	1	1	
131	L2538081-03D	RA90	Unknown	0	1	1	1	
132	CCV NO3	RS1	QC	94	1	1	1	
133	CCV NO2	RS2	QC	95	1	1	1	
134	CCB	RS10	QC	96	1	1	1	
135	L2538081-04D	RB1	Unknown	0	1	1	1	
136	L2538086-01B	RB2	Unknown	0	1	1	1	
137	L2538086-02B	RB3	Unknown	0	1	1	1	
138	L2537892-01D	RB4	Unknown	0	1	1	1	
139	WG2080170-3	RB5	Unknown	0	1	1	1	
140	WG2080170-4	RB6	Unknown	0	1	1	1	
141	L2537892-02D	RB7	Unknown	0	1	1	1	
142	L2538000-01K	RB8	Unknown	0	1	1	1	
143	L2538000-02K	RB9	Unknown	0	1	1	1	
144	L2537996-01B	RA47	Unknown	0	1	1	1	
145	CCV NO3	RS1	QC	94	1	1	1	
146	CCV NO2	RS2	QC	95	1	1	1	
147	CCB	RS10	QC	96	1	1	1	
148	WG2080163-4; 5 UP TO 25	RB10	Unknown	0	5	1	1	
149	WG2080163-6; 5 UP TO 25	RB11	Unknown	0	5	1	1	
150	L2537987-01B; 2.5 UP TO 25	RB12	Unknown	0	10	1	1	

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
151	L2537992-01B; 5 UP TO 25	RB13	Unknown	0	5	1	1	
152	L2537993-01B; 5 UP TO 25	RB14	Unknown	0	5	1	1	
153	WG2080204-1	RB15	Unknown	0	1	1	1	
154	WG2080204-2	RB16	Unknown	0	1	1	1	
155	L2537864-01K	RB17	Unknown	0	1	1	1	
156	WG2080204-3	RB18	Unknown	0	1	1	1	
157	WG2080204-4	RB19	Unknown	0	1	1	1	
158	CCV NO3	RS1	QC	94	1	1	1	
159	CCV NO2	RS2	QC	95	1	1	1	
160	CCB	RS10	QC	96	1	1	1	
161	L2537864-02K	RB20	Unknown	0	1	1	1	
162	L2537864-03K	RB21	Unknown	0	1	1	1	
163	L2537864-04K	RB22	Unknown	0	1	1	1	
164	L2537864-05K	RB23	Unknown	0	1	1	1	
165	L2537864-06K	RB24	Unknown	0	1	1	1	
166	L2537864-07K	RB25	Unknown	0	1	1	1	
167	L2537864-08K	RB26	Unknown	0	1	1	1	
168	L2537864-09K	RB27	Unknown	0	1	1	1	
169	L2537864-10K	RB28	Unknown	0	1	1	1	
170	L2537864-11K	RB29	Unknown	0	1	1	1	
171	CCV NO3	RS1	QC	94	1	1	1	
172	CCV NO2	RS2	QC	95	1	1	1	
173	CCB	RS10	QC	96	1	1	1	
174	L2537864-12K	RB30	Unknown	0	1	1	1	
175	L2537864-13K	RB31	Unknown	0	1	1	1	
176	L2537864-14K	RB32	Unknown	0	1	1	1	
177	L2537864-15K	RB33	Unknown	0	1	1	1	
178	L2537960-01A	RB34	Unknown	0	1	1	1	
179	CCV NO3	RS1	QC	94	1	1	1	
180	CCV NO2	RS2	QC	95	1	1	1	
181	CCB	RS10	QC	96	1	1	1	

Sample Table Location: C:\FIAlab\FIAlab User Files\Tables\Sample Tables\NITRATE SAMPLES 250509.csv

Graphical report generated by FIAsoft v3.1.10

Report generated on 2025-06-18 06:51:11

Data file (.dat): C:\FIALab\Autosave Data\2025-06-18-065031.dat

Dataset Notes:

Analyst	
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Dataset Notes Table Location: C:\FIALab\FIALab User Files\Tables\Dataset Notes\Analyst.csv

Sample Table:

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
1	Stabil	RS10	Unknown	0	1	1	1	
2	CCV NO3	RS1	QC	94	1	1	1	
3	CCV NO2	RS2	QC	95	1	1	1	
4	CCB	RS10	QC	96	1	1	1	
5	L2537655-04L	RA57	Unknown	0	1	1	1	
6	L2537927-01A	RB35	Unknown	0	1	1	1	
7	L2537927-02A	RB36	Unknown	0	1	1	1	
8	L2537927-03A	RB37	Unknown	0	1	1	1	
9	L2537928-01A	RB38	Unknown	0	1	1	1	
10	L2537928-02A	RB39	Unknown	0	1	1	1	
11	L2537928-03A	RB40	Unknown	0	1	1	1	
12	CCV NO3	RS1	QC	94	1	1	1	
13	CCV NO2	RS2	QC	95	1	1	1	
14	CCB	RS10	QC	96	1	1	1	

Sample Table Location: C:\FIALab\FIALab User Files\Tables\Sample Tables\Prepared Standards_2024-03-26-102432.csv

Total Dissolved Solids Analysis

Results

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/21/25 17:58
Sample Matrix	: WATER	Dilution Factor	: 1.3
Analytical Method	: 121,2540C	Analyst	: REM
Lab File ID	: WG2081874.pdf	Instrument ID	: BALANCE#22
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	170	13	4.0	



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/21/25 17:58
Sample Matrix	: WATER	Dilution Factor	: 1.3
Analytical Method	: 121,2540C	Analyst	: REM
Lab File ID	: WG2081874.pdf	Instrument ID	: BALANCE#22
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	110	13	4.0	



Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/21/25 17:58
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 121,2540C	Analyst	: REM
Lab File ID	: WG2081874.pdf	Instrument ID	: BALANCE#22
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	5.0	10	3.1	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/21/25 17:58
Sample Matrix	: WATER	Dilution Factor	: 1.3
Analytical Method	: 121,2540C	Analyst	: REM
Lab File ID	: WG2081874.pdf	Instrument ID	: BALANCE#22
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	79.	13	4.0	



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/21/25 17:58
Sample Matrix	: WATER	Dilution Factor	: 1.3
Analytical Method	: 121,2540C	Analyst	: REM
Lab File ID	: WG2081874.pdf	Instrument ID	: BALANCE#22
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	79.	13	4.0	



Form 1
WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2081874-1
Client ID : WG2081874-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,2540C
Lab File ID : WG2081874.pdf
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/21/25 17:58
Dilution Factor : 1
Analyst : REM
Instrument ID : BALANCE#22
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	ND	10	3.1	U



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2081874-3	Date Collected	: 06/16/25 12:55
Client ID	: WG2081874-3 DUP	Date Received	: 06/17/25
Sample Location	:	Date Analyzed	: 06/21/25 17:58
Sample Matrix	: WATER	Dilution Factor	: 1.3
Analytical Method	: 121,2540C	Analyst	: REM
Lab File ID	: WG2081874.pdf	Instrument ID	: BALANCE#22
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	560	13	4.0	



Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2081874-4
Client ID : WG2081874-4 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,2540C
Lab File ID : WG2081874.pdf
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : 06/16/25 13:40
Date Received : 06/17/25
Date Analyzed : 06/21/25 17:58
Dilution Factor : 1.3
Analyst : REM
Instrument ID : BALANCE#22
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	520	13	4.0	



Sample Raw Data

WorkGroup	WG2081874			Temp In (C)	180		Temp In (C)	180		Temp In (C)	180		Temp In (C)			
Title	Solids, Total Dissolved			Temp Out (C)	180		Temp Out (C)	180		Temp Out (C)			Temp Out (C)			
Method	SM2540C			Time In	23-JUN-25 03:16		Time In	23-JUN-25 05:48		Time In	24-JUN-25 02:14		Time In			
Instrument	BALANCE#22			Time Out	23-JUN-25 05:48		Time Out	24-JUN-25 02:07		Time Out	24-JUN-25 03:21		Time Out			
				Evaporation	Temp In (C)	Time In							LCS Lot #	TrueValue	Units	
					90	21-JUN-25 19:01							061025B	500	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		
L2537642-01	21-JUN-25 17:58	RENATA MUKHAMETZHAN2 OVA	AA	79145397	64.1418	100	64.1724	64.1728				306.00				
L2537642-02	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	RZ	79145397	68.8572	100	68.8924	68.8886	68.8883			311.00				
L2537642-03	21-JUN-25 17:58	RENATA MUKHAMETZHAN1 OVA	A1	79145397	69.7947	100	69.8302	69.828	69.8279			332.00				
L2537655-01	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	EB	79145397	71.0457	80	71.0592	71.0591				167.50	1.3			
L2537655-02	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	XZ	79145397	71.7479	80	71.7572	71.7568				111.25	1.3			
L2537655-03	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	AZ	79145397	71.4387	100	71.4395	71.4392				5.00		EB		
L2537655-04	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	EI	79145397	67.3811	80	67.3876	67.3874				78.75	1.3			
L2537655-05	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	Z3	79145397	61.8707	80	61.8773	61.877				78.75	1.3			
L2537860-01	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	BA	79145397	76.2195	80	76.2711	76.2718	76.2716			645.00	1.3	T2		
L2537860-02	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	BV	79145397	109.4455	80	109.4895	109.4899				550.00	1.3			
L2537860-03	21-JUN-25 17:58	RENATA MUKHAMETZHAN3 OVA	V1	79145397	70.7087	80	70.7341	70.7344				317.50	1.3			
L2537860-04	21-JUN-25 17:58	RENATA MUKHAMETZHAN4 OVA	A1	79145397	75.0584	80	75.1023	75.102				545.00	1.3			

WorkGroup	WG2081874	Temp In (C)		180	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)		180	Temp Out (C)		Temp Out (C)		Temp Out (C)	
Method	SM2540C	Time In		23-JUN-25 03:16	Time In		23-JUN-25 05:48	Time In		24-JUN-25 02:14	Time In		Time In		Time In	
Instrument	BALANCE#22	Time Out		23-JUN-25 05:48	Time Out		24-JUN-25 02:07	Time Out		24-JUN-25 03:21	Time Out		Time Out		Time Out	
														LCS Lot #	TrueValue	Units
														061025B	500	mg/l
Sample #	Analysis Date	Analyst	Cup ID	Sample Volume (ml)								Result mg/L	Dil	Comment		
L2537860-05	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	NI	79145397	65.1749	80	65.1828	65.1842	65.1839				98.75	1.3		
L2537860-06	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	V7	79145397	70.6214	80	70.6481	70.6485					333.75	1.3		
L2537860-07	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	MN	79145397	65.142	80	65.1654	65.1664	65.1667				292.50	1.3		
L2537860-09	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	RK	79145397	84.0501	100	84.0502	84.0502					1.00		FB	
L2537860-11	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	Z24	79145397	66.04	80	66.0828	66.0832					535.00	1.3		
L2537860-12	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	Z21	79145397	63.2308	80	63.2595	63.2598					358.75	1.3		
L2537860-13	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	C1	79145397	63.6196	80	63.6543	63.6547					433.75	1.3		
L2537864-01	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	K7	79145397	63.2646	80	63.3111	63.3114					581.25	1.3		
WG2081874-1	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	H8	79145397	64.2641	100	64.2632	64.2635					-9.00	1		
WG2081874-2	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	X9	79145397	60.9359	50	60.9589	60.9585					452.00	2		
WG2081874-3	21-JUN-25 17:58	RENATA MUKHAMETZHAN OVA	ZI	79145397	66.0698	80	66.1153	66.115					565.00	1.3		
WG2081874-4	21-JUN-25 17:58	RENATA MUKHAMETZHAN6 OVA	C6	79145397	68.8949	80	68.9367	68.9364					518.75	1.3		

Quality Control

Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: DW
Lab Sample ID	: NA	Analysis Date	: 06/21/25 17:58
Dup Sample ID	: WG2081874-3	DUP Analysis Date	: 06/21/25 17:58

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	640	560	13 Q	10

Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: DW
Lab Sample ID	: NA	Analysis Date	: 06/21/25 17:58
Dup Sample ID	: WG2081874-4	DUP Analysis Date	: 06/21/25 17:58

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	550	520	6	10



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2081874-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : DW
 LCS Analysis Date : 06/21/25 17:58
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Solids, Total Dissolved	500.	450.	90.					80-120	10



Date Created: 11/11/21
Created By: Jason Hebert
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WETCHEM (WATER)

[illegible]

Please Note that the RL Information provided in this table is calculated using a 100% Solids factor. (Soll/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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 10:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500SO4-E	Analyst	: MRW
Lab File ID	: WG2082652.csv	Instrument ID	: SPEC6
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	12.	10	1.4	



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 10:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500SO4-E	Analyst	: MRW
Lab File ID	: WG2082652.csv	Instrument ID	: SPEC6
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	28.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 10:40
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 121,4500SO4-E	Analyst	: MRW
Lab File ID	: WG2082652.csv	Instrument ID	: SPEC6
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	1.9	10	1.4	J



Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 10:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500SO4-E	Analyst	: MRW
Lab File ID	: WG2082652.csv	Instrument ID	: SPEC6
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	18.	10	1.4	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 10:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500SO4-E	Analyst	: MRW
Lab File ID	: WG2082652.csv	Instrument ID	: SPEC6
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	7.7	10	1.4	J

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082652-1
Client ID : WG2082652-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500SO4-E
Lab File ID : WG2082652.csv
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/24/25 10:40
Dilution Factor : 1
Analyst : MRW
Instrument ID : SPEC6
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	1.9	10	1.4	J



Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082652-3
Client ID : WG2082652-3 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500SO4-E
Lab File ID : WG2082652.csv
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : 06/17/25 09:15
Date Received : 06/17/25
Date Analyzed : 06/24/25 10:40
Dilution Factor : 2.5
Analyst : MRW
Instrument ID : SPEC6
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	41.	25	3.4	



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;WC-3572
LCS;WC-3587
Reagent;lot A5106

Sample Number: _____ Product: SO4-4500
Curve Calibration Date : 06/24/25
Client: _____ Curve Identifier: 6/24/2025
Analysis: Sulfate, SO4 Analysis Analyte: Sulfate
Method: SM 4500SO4-E Analysis Date: 6/24/2025 10:40
Instrument: SPEC6 Preparation Date: 6/24/2025 10:40
Wavelength: 420 nm Technician: MRW
Spike Volume(ml): 0.5 Work group: WG2082652
Spike Concentration (mg/l): 1000 RL: 10 mg/l
Cell: 2.5 cm

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result	Calibration Curve Volume: 25 ml
0	0.000	1.0	1.66	Slope y-intercept
10	0.142	1.0	8.77	0.019983 -0.0332
20	0.337	1.0	18.5	
40	0.787	1.0	41.0	Correlation Coefficient 0.995716
ICV/LCS Concentration (mg/l) = 20.0000				

	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)		
Sample number										Recovery	
ICB	25	25	0	0.002	0.002	1.896	1	1.0	1.9	107%	
ICV	25	25	0	0.396	0.396	21.444	1	1.0	21.4		
L2536792-01	2	25	0.013	0.629	0.616	32.360	1	12.5	404.5	SAMP	
L2537655-01	25	25	0.001	0.2	0.199	11.670	1	1.0	11.7		
L2537655-02	25	25	0.051	0.575	0.524	27.795	1	1.0	27.8		
L2537655-03	25	25	0.001	0.003	0.002	1.896	1	1.0	1.9		
L2537655-04	25	25	0.007	0.331	0.324	17.872	1	1.0	17.9		
L2537655-05	25	25	0.001	0.12	0.119	7.701	1	1.0	7.7		
L2538013-01	10	25	0.002	0.313	0.311	17.227	1	2.5	43.1		
L2538013-02	25	25	0.053	0.272	0.219	12.663	1	1.0	12.7		
CCV1	25	25	0	0.394	0.394	21.345	1	1.0	21.3		
CCB1	25	25	0	0.002	0.002	1.896	1	1.0	1.9		
L2538013-03	25	25	0.071	0.28	0.209	12.166	1	1.0	12.2	SAMP	
L2538013-04	25	25	0.002	0.309	0.307	17.029	1	1.0	17.0	SAMP	
L2538013-05	25	25	0.05	0.785	0.735	38.264	1	1.0	38.3	SAMP	
L2538013-06	12.5	25	0.007	0.321	0.314	17.376	1	2.0	34.8	SAMP	
L2538013-07	25	25	0.006	0.308	0.302	16.781	1	1.0	16.8	SAMP	
L2538382-01	25	25	0.034	0.462	0.428	23.032	1	1.0	23.0	SAMP	
L2538382-02	25	25	0.002	0.291	0.289	16.136	1	1.0	16.1	SAMP	
L2538382-03	25	25	0.083	0.405	0.322	17.773	1	1.0	17.8	SAMP	
L2538382-04	25	25	0.003	0.196	0.193	11.373	1	1.0	11.4	SAMP	
L2538382-05	25	25	0.007	0.186	0.179	10.678	1	1.0	10.7	SAMP	
CCV2	25	25	0	0.392	0.392	21.246	1	1.0	21.2	SAMP	
CCB2	25	25	0	0.004	0.004	1.995	1	1.0	2.0		
L2538382-07	25	25	0.004	0.165	0.161	9.785	1	1.0	9.8		
WG2082652-5	25	25	0	0.183	0.183	10.876	1	1.0	10.9	LOQ1	
CCV3	25	25	0	0.388	0.388	21.047	1	1.0	21.0	BLANK	
CCB3	25	25	0	0.005	0.005	2.045	1	1.0	2.0		
WG2082652-1	25	25	0.000	0.002	0.002	1.896	1	1.0	1.9		
WG2082652-3	10	25	0.003	0.296	0.293	16.334	1	2.5	40.8	DUP	
L2538013-01											
sample Final Bkgd. Gross Sample Spiked Spike conc. Spike Recovery											
volume volume (ml) Abs. Abs. Absorbance Result mg/l Volume mg/l Result mg/l											
MS	WG2082652-4	5	25	0.001	0.559	0.558	43.100	5	100.0000	147	104
L2538013-01											
LCS	WG2082652-2	25	25	0	0.396	0.396		1	20.0000	21	107

Quality Control

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2538013-01
 Matrix Spike : WG2082652-4
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER

MS Analysis Date : 06/24/25 10:40
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Sulfate	43.	100	150	104					55-147	14



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/24/25 10:40
Dup Sample ID	: WG2082652-3	DUP Analysis Date	: 06/24/25 10:40

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	43	41.	5	14



Form 7 Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2082652-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/24/25 10:40
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Sulfate	20.0	21.0	105.					90-110	14



Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

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
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WETCHEM (SOIL)

[illegible]

Please Note that the RL Information provided in this table is calculated using a 100% Solids factor. (Soll/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.

$$\text{mgSO}_4/\text{L} = \frac{\text{absorbance} - \text{y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 07:55
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2320B	Analyst	: MKT
Lab File ID	: 250624_CSV.csv	Instrument ID	: TITR5
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg CaCO ₃ /L			Qualifier
		Results	RL	MDL	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	131.	2.00	NA	



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 08:17
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2320B	Analyst	: MKT
Lab File ID	: 250624_CSV.csv	Instrument ID	: TITR5
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg CaCO3/L			Qualifier
		Results	RL	MDL	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	33.5	2.00	NA	



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 08:18
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 121,2320B	Analyst	: MKT
Lab File ID	: 250624_CSV.csv	Instrument ID	: TITR5
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg CaCO ₃ /L			Qualifier
		Results	RL	MDL	
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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 08:20
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2320B	Analyst	: MKT
Lab File ID	: 250624_CSV.csv	Instrument ID	: TITR5
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg CaCO ₃ /L			Qualifier
		Results	RL	MDL	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	32.5	2.00	NA	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 08:21
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2320B	Analyst	: MKT
Lab File ID	: 250624_CSV.csv	Instrument ID	: TITR5
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg CaCO3/L			Qualifier
		Results	RL	MDL	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	54.4	2.00	NA	

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2082617-1
 Client ID : WG2082617-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 121,2320B
 Lab File ID : 250624_CSV.csv
 Sample Amount :
 Digestion Method :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/24/25 07:54
 Dilution Factor : 1
 Analyst : MKT
 Instrument ID : TITR5
 %Solids : N/A
 Date Digested :

CAS NO.	Parameter	mg CaCO ₃ /L			Qualifier
		Results	RL	MDL	
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	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2082617-2	Date Collected	: 06/17/25 09:15
Client ID	: WG2082617-2 DUP	Date Received	: 06/17/25
Sample Location	:	Date Analyzed	: 06/24/25 08:31
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2320B	Analyst	: MKT
Lab File ID	: 250624_CSV.csv	Instrument ID	: TITR5
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg CaCO3/L			Qualifier
		Results	RL	MDL	
71-52-3	Alkalinity, Bicarbonate	265.	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U



Sample Raw Data

Results Editor



Result Overview

Sample start ti	Zero poi	Unit of Z	Data ma	Slope 1 (C	Unit of Slo	Data mark	Sensor ty	List of sta	Standard	Comment	Temperat
	7.003	pH		-56.59	mV/pH						

Results Editor



Result Overview

Sample ID1	Potentia	Unit of	Data m	Sample start	Volume	Unit of V	Density	Unit of D	Cor	Uni	Tempera	Unit of T	Commer
--	7.02	pH		6/24/2025 7:	0	mL	1.0	g/mL	1.0		25.0	°C	

Titration report



Method

Method ID	Alk Total (2)	Release state	Released
Name	EP/EP	Modified by	SystemInternal
Modified on	3/26/2025 11:25:13 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MKT	Sample size	50 mL	
		Potential R4	7.04 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.923 mL	OK
		Consumption 4.2 R3	0.926 mL	OK
		Content R5	18.460 mg/L	OK
		ALK LOW R6	18.400 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	4.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.006 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
3	WG2082612-1	Sample size	50 mL	
		Potential R4	4.04 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
4	xLCS	Sample size	50 mL	
		Potential R4	10.79 pH	OK
		Consumption 8.3 R1	4.858 mL	OK
		Consumption 4.5 R2	5.278 mL	OK
		Consumption 4.2 R3	5.282 mL	OK
		Content R5	105.560 mg/L	OK
		ALK LOW R6	105.480 mg/L	OK
5	I2536592-01	Sample size	50 mL	
		Potential R4	4.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.120 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
6	I2536592-02	Sample size	50 mL	

Titration report

LabX

		Potential R4	5.33 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.978 mL	OK
		Consumption 4.2 R3	3.142 mL	OK
		Content R5	59.560 mg/L	OK
		ALK LOW R6	56.280 mg/L	OK
7	I2536592-04	Sample size	50 mL	
		Potential R4	4.10 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
8	I2536592-05	Sample size	50 mL	
		Potential R4	5.12 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.051 mL	OK
		Consumption 4.2 R3	0.071 mL	OK
		Content R5	1.020 mg/L	OK
		ALK LOW R6	0.620 mg/L	OK
9	I2536592-05 CONF	Sample size	50 mL	
		Potential R4	4.68 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.022 mL	OK
		Consumption 4.2 R3	0.045 mL	OK
		Content R5	0.440 mg/L	OK
		ALK LOW R6	-0.020 mg/L	OK
10	I2536592-06	Sample size	50 mL	
		Potential R4	4.94 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.880 mL	OK
		Consumption 4.2 R3	0.989 mL	OK
		Content R5	17.600 mg/L	OK
		ALK LOW R6	15.420 mg/L	OK
11	I2536592-07	Sample size	50 mL	
		Potential R4	5.24 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.070 mL	OK
		Consumption 4.2 R3	0.097 mL	OK
		Content R5	1.400 mg/L	OK
		ALK LOW R6	0.860 mg/L	OK
12	I2536592-07 CONF	Sample size	50 mL	
		Potential R4	4.72 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.025 mL	OK
		Consumption 4.2 R3	0.052 mL	OK
		Content R5	0.500 mg/L	OK

Titration report



13	I2536592-08	ALK LOW R6	-0.040 mg/L	OK
		Sample size	50 mL	
		Potential R4	3.84 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
14	I2536592-09	ALK LOW R6	NaN mg/L	Not OK
		Sample size	50 mL	
		Potential R4	5.51 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.921 mL	OK
		Consumption 4.2 R3	3.008 mL	OK
		Content R5	58.420 mg/L	OK
15	I2536592-10	ALK LOW R6	56.680 mg/L	OK
		Sample size	50 mL	
		Potential R4	4.12 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
16	I2536592-11	ALK LOW R6	NaN mg/L	Not OK
		Sample size	50 mL	
		Potential R4	4.29 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.097 mL	OK
		Content R5	NaN mg/L	Not OK
17	I2536592-12	ALK LOW R6	NaN mg/L	Not OK
		Sample size	50 mL	
		Potential R4	5.47 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.512 mL	OK
		Consumption 4.2 R3	3.638 mL	OK
		Content R5	70.240 mg/L	OK
18	I2536592-13	ALK LOW R6	67.720 mg/L	OK
		Sample size	50 mL	
		Potential R4	5.57 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.874 mL	OK
		Consumption 4.2 R3	5.034 mL	OK
		Content R5	97.480 mg/L	OK
19	I2536592-14	ALK LOW R6	94.280 mg/L	OK
		Sample size	50 mL	
		Potential R4	5.14 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.407 mL	OK

Titration report

LabX

		Consumption 4.2 R3	0.428 mL	OK
		Content R5	8.140 mg/L	OK
		ALK LOW R6	7.720 mg/L	OK
20	I2536592-15	Sample size	50 mL	
		Potential R4	5.82 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.052 mL	OK
		Consumption 4.2 R3	7.249 mL	OK
		Content R5	141.040 mg/L	OK
		ALK LOW R6	137.100 mg/L	OK
21	I2536592-16	Sample size	50 mL	
		Potential R4	5.01 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.047 mL	OK
		Consumption 4.2 R3	0.075 mL	OK
		Content R5	0.940 mg/L	OK
		ALK LOW R6	0.380 mg/L	OK
22	I2536592-16 CONF	Sample size	50 mL	
		Potential R4	4.58 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.007 mL	OK
		Consumption 4.2 R3	0.028 mL	OK
		Content R5	0.140 mg/L	OK
		ALK LOW R6	-0.280 mg/L	OK
23	I2536592-17	Sample size	50 mL	
		Potential R4	4.21 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.026 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
24	I2536592-18	Sample size	50 mL	
		Potential R4	4.70 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.144 mL	OK
		Consumption 4.2 R3	0.226 mL	OK
		Content R5	2.880 mg/L	OK
		ALK LOW R6	1.240 mg/L	OK
25	WG2082612-2	Sample size	50 mL	
		Potential R4	4.70 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.141 mL	OK
		Consumption 4.2 R3	0.221 mL	OK
		Content R5	2.820 mg/L	OK
		ALK LOW R6	1.220 mg/L	OK
26	xCCV	Sample size	50 mL	
		Potential R4	10.76 pH	OK

Titration report

LabX

		Consumption 8.3 R1	4.837 mL	OK
		Consumption 4.5 R2	5.257 mL	OK
		Consumption 4.2 R3	5.258 mL	OK
		Content R5	105.140 mg/L	OK
		ALK LOW R6	105.120 mg/L	OK
27	WG2082617-1	Sample size	50 mL	
		Potential R4	4.40 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.010 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
28	I2537655-01	Sample size	50 mL	
		Potential R4	5.66 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.564 mL	OK
		Consumption 4.2 R3	6.653 mL	OK
		Content R5	131.280 mg/L	OK
		ALK LOW R6	129.500 mg/L	OK
29	I2537655-02	Sample size	50 mL	
		Potential R4	5.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.676 mL	OK
		Consumption 4.2 R3	1.694 mL	OK
		Content R5	33.520 mg/L	OK
		ALK LOW R6	33.160 mg/L	OK
30	I2537655-03	Sample size	50 mL	
		Potential R4	5.06 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.038 mL	OK
		Consumption 4.2 R3	0.055 mL	OK
		Content R5	0.760 mg/L	OK
		ALK LOW R6	0.420 mg/L	OK
31	I2537655-04	Sample size	50 mL	
		Potential R4	5.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.626 mL	OK
		Consumption 4.2 R3	1.645 mL	OK
		Content R5	32.520 mg/L	OK
		ALK LOW R6	32.140 mg/L	OK
32	I2537655-05	Sample size	50 mL	
		Potential R4	5.62 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.720 mL	OK
		Consumption 4.2 R3	2.743 mL	OK
		Content R5	54.400 mg/L	OK
		ALK LOW R6	53.940 mg/L	OK

Titration report



33	I2538013-01	Sample size	50 mL	
		Potential R4	5.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	13.302 mL	OK
		Consumption 4.2 R3	13.491 mL	OK
		Content R5	266.040 mg/L	OK
		ALK LOW R6	262.260 mg/L	OK
34	WG2082617-2	Sample size	50 mL	
		Potential R4	5.88 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	13.261 mL	OK
		Consumption 4.2 R3	13.425 mL	OK
		Content R5	265.220 mg/L	OK
		ALK LOW R6	261.940 mg/L	OK
35	I2538013-02	Sample size	50 mL	
		Potential R4	5.45 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.038 mL	OK
		Consumption 4.2 R3	1.050 mL	OK
		Content R5	20.760 mg/L	OK
		ALK LOW R6	20.520 mg/L	OK
36	I2538013-03	Sample size	50 mL	
		Potential R4	5.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.029 mL	OK
		Consumption 4.2 R3	1.043 mL	OK
		Content R5	20.580 mg/L	OK
		ALK LOW R6	20.300 mg/L	OK
37	I2538013-04	Sample size	50 mL	
		Potential R4	5.78 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.109 mL	OK
		Consumption 4.2 R3	3.125 mL	OK
		Content R5	62.180 mg/L	OK
		ALK LOW R6	61.860 mg/L	OK
38	I2538013-05	Sample size	50 mL	
		Potential R4	5.60 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.527 mL	OK
		Consumption 4.2 R3	2.555 mL	OK
		Content R5	50.540 mg/L	OK
		ALK LOW R6	49.980 mg/L	OK
39	I2538013-06	Sample size	50 mL	
		Potential R4	5.96 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.569 mL	OK
		Consumption 4.2 R3	8.659 mL	OK

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LabX

40	I2538013-07	Content R5	171.380 mg/L	OK
		ALK LOW R6	169.580 mg/L	OK
		Sample size	50 mL	
		Potential R4	5.60 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.982 mL	OK
		Consumption 4.2 R3	2.000 mL	OK
		Content R5	39.640 mg/L	OK
41	WG2082651-2	ALK LOW R6	39.280 mg/L	OK
		Sample size	50 mL	
		Potential R4	10.78 pH	OK
		Consumption 8.3 R1	4.877 mL	OK
		Consumption 4.5 R2	5.261 mL	OK
		Consumption 4.2 R3	5.261 mL	OK
		Content R5	105.220 mg/L	OK
		ALK LOW R6	105.220 mg/L	OK
42	WG2082651-1	Sample size	50 mL	
		Potential R4	4.40 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.008 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
43	I2536739-13	Sample size	50 mL	
		Potential R4	6.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	17.546 mL	OK
		Consumption 4.2 R3	17.728 mL	OK
		Content R5	350.920 mg/L	OK
		ALK LOW R6	347.280 mg/L	OK
44	WG2082651-3	Sample size	50 mL	
		Potential R4	6.16 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	17.894 mL	OK
		Consumption 4.2 R3	18.079 mL	OK
		Content R5	357.880 mg/L	OK
		ALK LOW R6	354.180 mg/L	OK
45	WG2082651-4	Sample size	50 mL	
		Potential R4	7.50 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	22.408 mL	OK
		Consumption 4.2 R3	22.638 mL	OK
		Content R5	448.160 mg/L	OK
		ALK LOW R6	443.560 mg/L	OK
46	I2536739-14	Sample size	50 mL	
		Potential R4	6.13 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK

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LabX

		Consumption 4.5 R2	11.806 mL	OK
		Consumption 4.2 R3	11.921 mL	OK
		Content R5	236.120 mg/L	OK
		ALK LOW R6	233.820 mg/L	OK
47	I2536739-15	Sample size	50 mL	
		Potential R4	6.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.679 mL	OK
		Consumption 4.2 R3	11.791 mL	OK
		Content R5	233.580 mg/L	OK
		ALK LOW R6	231.340 mg/L	OK
48	I2537671-01 2x+10	Sample size	50 mL	
		Potential R4	6.92 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
49	I2537671-02 2x+10	Sample size	50 mL	
		Potential R4	7.04 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
50	I2536731-02 2x+10	Sample size	50 mL	
		Potential R4	6.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.683 mL	OK
		Consumption 4.2 R3	5.766 mL	OK
		Content R5	113.660 mg/L	OK
		ALK LOW R6	112.000 mg/L	OK
51	I2536810-01	Sample size	50 mL	
		Potential R4	5.34 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.453 mL	OK
		Consumption 4.2 R3	1.496 mL	OK
		Content R5	29.060 mg/L	OK
		ALK LOW R6	28.200 mg/L	OK
52	I2536810-02	Sample size	50 mL	
		Potential R4	4.88 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.374 mL	OK
		Consumption 4.2 R3	0.466 mL	OK
		Content R5	7.480 mg/L	OK
		ALK LOW R6	5.640 mg/L	OK
53	I2536810-03	Sample size	50 mL	

Titration report

LabX

		Potential R4	5.66 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.942 mL	OK
		Consumption 4.2 R3	4.049 mL	OK
		Content R5	78.840 mg/L	OK
		ALK LOW R6	76.700 mg/L	OK
54	I2536810-04	Sample size	50 mL	
		Potential R4	5.30 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.856 mL	OK
		Consumption 4.2 R3	0.915 mL	OK
		Content R5	17.120 mg/L	OK
		ALK LOW R6	15.940 mg/L	OK
55	I2536810-05	Sample size	50 mL	
		Potential R4	5.90 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.619 mL	OK
		Consumption 4.2 R3	8.772 mL	OK
		Content R5	172.380 mg/L	OK
		ALK LOW R6	169.320 mg/L	OK
56	I2536810-06	Sample size	50 mL	
		Potential R4	5.68 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.857 mL	OK
		Consumption 4.2 R3	2.940 mL	OK
		Content R5	57.140 mg/L	OK
		ALK LOW R6	55.480 mg/L	OK
57	I2536810-07	Sample size	50 mL	
		Potential R4	5.73 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.853 mL	OK
		Consumption 4.2 R3	2.967 mL	OK
		Content R5	57.060 mg/L	OK
		ALK LOW R6	54.780 mg/L	OK
58	I2536810-08	Sample size	50 mL	
		Potential R4	5.77 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.994 mL	OK
		Consumption 4.2 R3	4.108 mL	OK
		Content R5	79.880 mg/L	OK
		ALK LOW R6	77.600 mg/L	OK
59	I2536810-09	Sample size	50 mL	
		Potential R4	4.98 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.065 mL	OK
		Consumption 4.2 R3	0.121 mL	OK
		Content R5	1.300 mg/L	OK

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LabX

60	I2536810-09 CONF	ALK LOW R6	0.180 mg/L	OK
		Sample size	50 mL	
		Potential R4	4.63 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.016 mL	OK
		Consumption 4.2 R3	0.048 mL	OK
		Content R5	0.320 mg/L	OK
61	I2536810-11	ALK LOW R6	-0.320 mg/L	OK
		Sample size	50 mL	
		Potential R4	4.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.052 mL	OK
		Consumption 4.2 R3	0.229 mL	OK
		Content R5	1.040 mg/L	OK
62	I2536810-12	ALK LOW R6	-2.500 mg/L	OK
		Sample size	50 mL	
		Potential R4	5.77 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.881 mL	OK
		Consumption 4.2 R3	1.974 mL	OK
		Content R5	37.620 mg/L	OK
63	I2536810-13	ALK LOW R6	35.760 mg/L	OK
		Sample size	50 mL	
		Potential R4	5.86 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.995 mL	OK
		Consumption 4.2 R3	2.056 mL	OK
		Content R5	39.900 mg/L	OK
64	I2536810-14	ALK LOW R6	38.680 mg/L	OK
		Sample size	50 mL	
		Potential R4	5.76 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.435 mL	OK
		Consumption 4.2 R3	1.458 mL	OK
		Content R5	28.700 mg/L	OK
65	CCV	ALK LOW R6	28.240 mg/L	OK
		Sample size	50 mL	
		Potential R4	10.73 pH	OK
		Consumption 8.3 R1	4.824 mL	OK
		Consumption 4.5 R2	5.208 mL	OK
		Consumption 4.2 R3	5.209 mL	OK
		Content R5	104.160 mg/L	OK
66	CCB	ALK LOW R6	104.140 mg/L	OK
		Sample size	50 mL	
		Potential R4	4.51 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK

Titration report

LabX

Consumption 4.2 R3	0.015 mL	OK
Content R5	NaN mg/L	Not OK
ALK LOW R6	NaN mg/L	Not OK

Statistics

R1

Mean	NaN mL	Minimum	4.824 mL
Maximum	4.877 mL	Rel. standard deviation	NaN %
Standard deviation	NaN mL	Samples excluded	0
Total samples	66		

R2

Mean	NaN mL	Minimum	0.007 mL
Maximum	22.408 mL	Rel. standard deviation	NaN %
Standard deviation	NaN mL	Samples excluded	0
Total samples	66		

R3

Mean	NaN mL	Minimum	0.006 mL
Maximum	22.638 mL	Rel. standard deviation	NaN %
Standard deviation	NaN mL	Samples excluded	0
Total samples	66		

R4

Mean	5.68 pH	Minimum	3.84 pH
Maximum	10.79 pH	Rel. standard deviation	26.652 %
Standard deviation	1.51 pH	Samples excluded	0
Total samples	66		

R5

Mean	NaN mg/L	Minimum	0.140 mg/L
Maximum	448.160 mg/L	Rel. standard deviation	NaN %
Standard deviation	NaN mg/L	Samples excluded	0
Total samples	66		

R6

Mean	NaN mg/L	Minimum	-2.500 mg/L
Maximum	443.560 mg/L	Rel. standard deviation	NaN %
Standard deviation	NaN mg/L	Samples excluded	0
Total samples	66		

Used Instruments

Titration report



Name	T7 Excellence Titrator	Serial number	C329519495
-------------	------------------------	----------------------	------------

Responsible User

Time	Login name	Full name
6/24/2025 7:08:12 AM	SystemInternal	System internal account

Quality Control

Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/24/25 08:24
Dup Sample ID	: WG2082617-2	DUP Analysis Date	: 06/24/25 08:31

Parameter	Sample Concentration (mg CaCO ₃ /L)	Duplicate Concentration (mg CaCO ₃ /L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	266	265.	0	9



Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

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

$$\text{Alkalinity, mg CaCO}_3/\text{L} = \frac{A \times N \times 50,000}{\text{mL Sample}}$$

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	250624	LCS 7.05	7.02 INT:	mrw
pH 4	3484	Titrant:	4298	
pH 7	3386	LCS:	3530	
pH 10	3482	MS:	3529	
LCS	3523			

1 Rinse,MKT	42 WG2082651-1
2 Rinse,MKT	43 I2536739-13
3 WG2082612-1	44 WG2082651-3
4 xLCS	45 WG2082651-4
5 I2536592-01	46 I2536739-14
6 I2536592-02	47 I2536739-15
7 I2536592-04	48 I2537671-01 2x+10
8 I2536592-05	49 I2537671-02 2x+10
9 I2536592-05 CONF	50 I2536731-02 2x+10
10 I2536592-06	51 I2536810-01
11 I2536592-07	52 I2536810-02
12 I2536592-07 CONF	53 I2536810-03
13 I2536592-08	54 I2536810-04
14 I2536592-09	55 I2536810-05
15 I2536592-10	56 I2536810-06
16 I2536592-11	57 I2536810-07
17 I2536592-12	58 I2536810-08
18 I2536592-13	59 I2536810-09
19 I2536592-14	60 I2536810-09 CONF
20 I2536592-15	61 I2536810-11
21 I2536592-16	62 I2536810-12
22 I2536592-16 CONF	63 I2536810-13
23 I2536592-17	64 I2536810-14
24 I2536592-18	65 CCV
25 WG2082612-2	66 CCB
26 xCCV	67
27 WG2082617-1	
28 I2537655-01	
29 I2537655-02	
30 I2537655-03	
31 I2537655-04	
32 I2537655-05	
33 I2538013-01	
34 WG2082617-2	
35 I2538013-02	
36 I2538013-03	
37 I2538013-04	
38 I2538013-05	
39 I2538013-06	
40 I2538013-07	
41 WG2082651-2	

Chloride Analysis

Results

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 04:00
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500CL-E	Analyst	: MRM
Lab File ID	: CL250624-F1	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	3.6	1.0	0.89	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 04:01
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500CL-E	Analyst	: MRM
Lab File ID	: CL250624-F1	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	13.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 04:02
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 121,4500CL-E	Analyst	: MRM
Lab File ID	: CL250624-F1	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	0.89	1.0	0.89	J



Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 04:03
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500CL-E	Analyst	: MRM
Lab File ID	: CL250624-F1	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	9.5	1.0	0.89	



Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 04:03
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500CL-E	Analyst	: MRM
Lab File ID	: CL250624-F1	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	5.8	1.0	0.89	

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2083092-1
Client ID : WG2083092-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500CL-E
Lab File ID : CL250624-F1
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/25/25 03:57
Dilution Factor : 1
Analyst : MRM
Instrument ID : LACHAT
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	ND	1.0	0.89	U



Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2083092-3
Client ID : WG2083092-3 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500CL-E
Lab File ID : CL250624-F1
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : 06/17/25 09:15
Date Received : 06/17/25
Date Analyzed : 06/25/25 03:51
Dilution Factor : 1
Analyst : MRM
Instrument ID : LACHAT
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	3.0	1.0	0.89	



Sample Raw Data

Author:

Date : 6/24/2025

Original Run Filename: OM_6-24-2025_05-03-13PM.OMN Created: 6/24/2025 5:03:13 PM

Original Run Author's Signature: [a1wetcheminstrument]

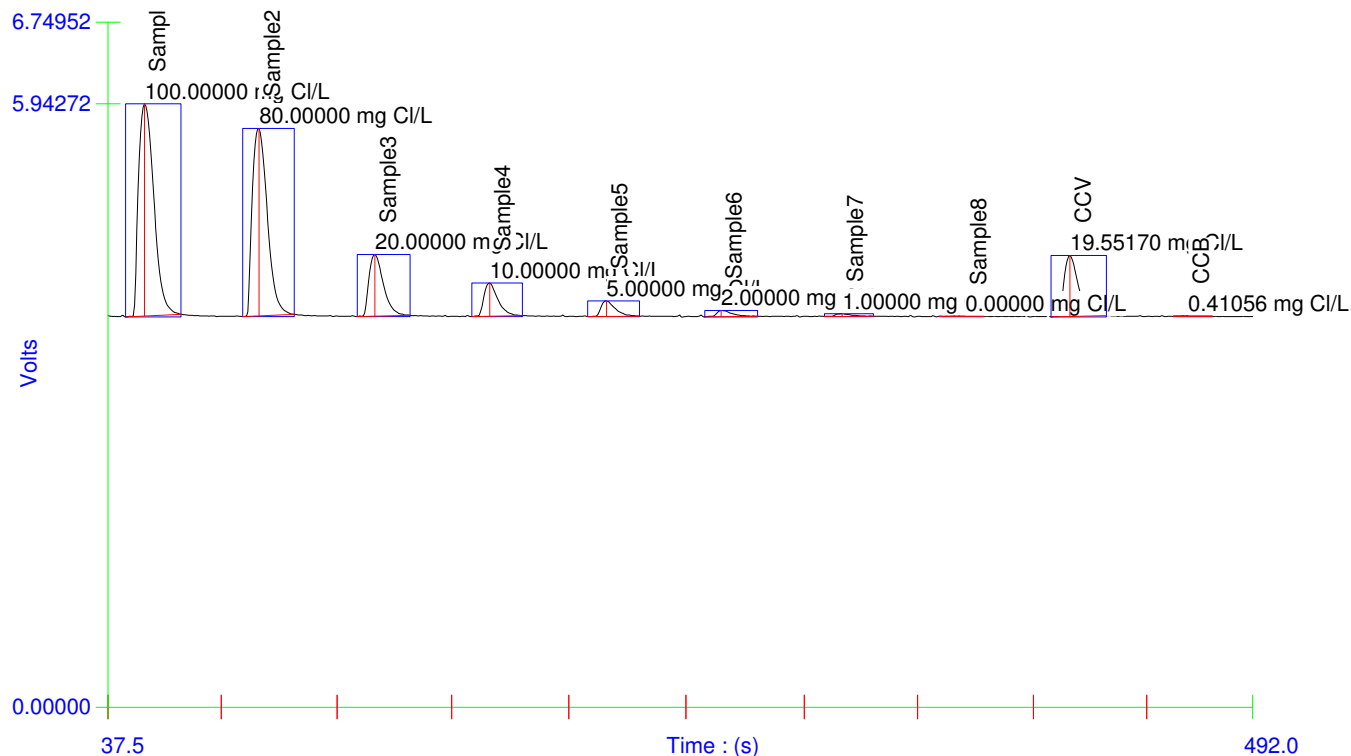
Current Run Filename: OM_6-24-2025_05-03-13PM.OMN Last Modified: 6/24/2025 5:18:35 PM

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	19.55170			
Known Conc:			20.00000			
Calibration:			Table/Fig. : 1			
CCB	1	S9	0.41056			
Known Conc:			0.00000			
ICV 5	1	1	5.02408			
ICV 30	1	2	30.90726			
ICV 80	1	3	83.97937			
ICB	1	4	0.65238			
100 PPM	1	5	110.54465	10.00		
WG2082897-1	1	6	0.55724			
WG2082897-2	1	7	31.20835			

Channel 1 (Chloride) - Set: 1 / 2



Channel 1 (Chloride) - Set: 2 / 2

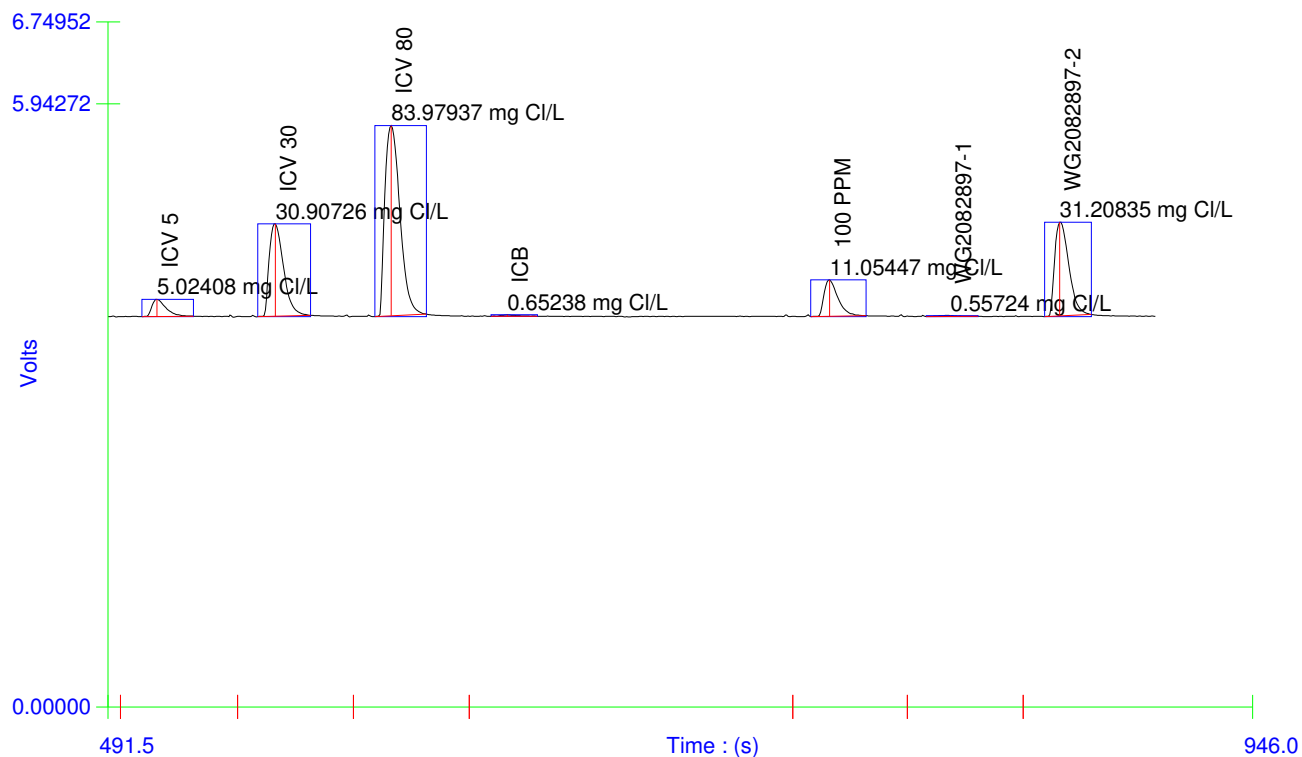
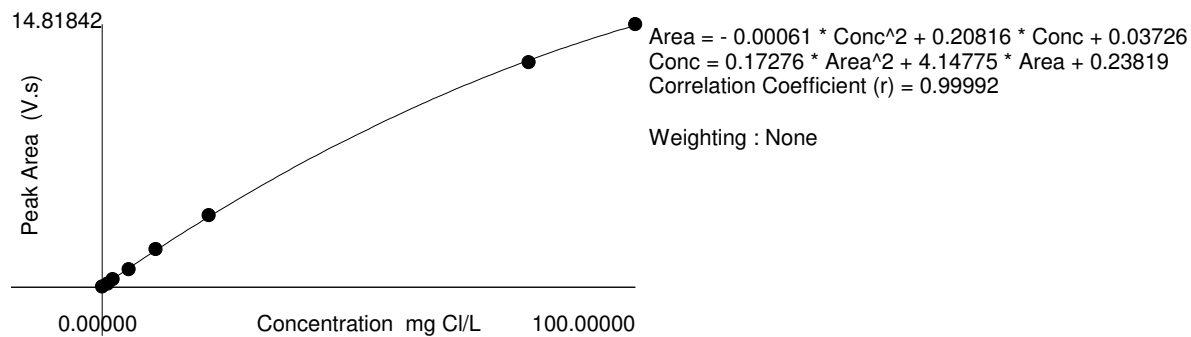


Table : 1 (Chloride-CH3)

	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	14.81842	2.09066	0.0	-0.5	99.63751	6/24/2025	5:04:04 PM
2	80.00000	1	12.66912	1.84665	0.0	0.9	80.51614	6/24/2025	5:04:49 PM
3	20.00000	1	4.04780	0.60835	0.0	-2.3	19.85811	6/24/2025	5:05:35 PM
4	10.00000	1	2.13560	0.32761	0.0	-3.8	9.88408	6/24/2025	5:06:21 PM
5	5.00000	1	1.00750	0.15441	0.0	5.2	4.59241	6/24/2025	5:07:07 PM
6	2.00000	1	0.44149	0.06084	0.0	2.1	2.10304	6/24/2025	5:07:53 PM
7	1.00000	1	0.19291	0.02723	0.0	21.2	1.04476	6/24/2025	5:08:41 PM
8	0.00000	1	0.03029	0.00333			0.36397	6/24/2025	5:09:26 PM

Figure : 1 (Chloride-CH3)



Author:

Date : 6/24/2025

Original Run Filename: OM_6-24-2025_05-19-03PM.OMN Created: 6/24/2025 5:19:03 PM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-24-2025_05-19-03PM.OMN Last Modified: 6/24/2025 5:45:10 PM

Current Run Author's Signature: [a1wetcheminstrument]

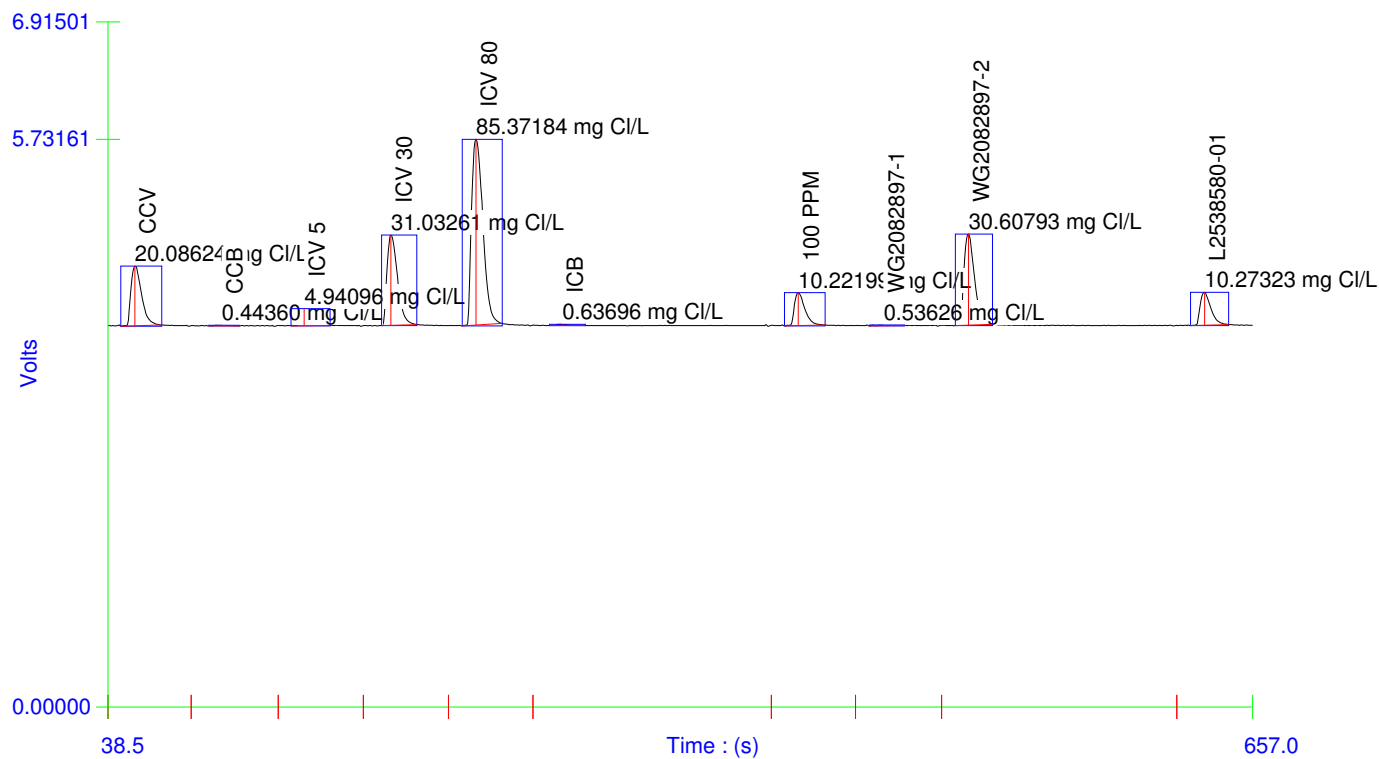
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride- CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	20.08624			
Known Conc:			20.00000			
CCB	1	S9	0.44360			
Known Conc:			0.00000			
Calibration:			Table/Fig. : 1			
ICV 5	1	1	4.94096			
ICV 30	1	2	31.03261			
ICV 80	1	3	85.37184			
ICB	1	4	0.63696			
100 PPM	1	5	102.21989	10.00		
WG2082897-1	1	6	0.53626			
WG2082897-2	1	7	30.60793			
L2538580-01	1	8	10273.23047	10.00	100.00	
L2538580-02	1	9	7101.13916		100.00	
L2538580-03	1	10	6487.10400	10.00	100.00	
CCV	1	S3	18.81322			
Known Conc:			20.00000			
CCB	1	S9	0.47993			
Known Conc:			0.00000			
L2538580-04	1	11	7417.51807		100.00	
L2538580-05	1	12	11162.39844	10.00	100.00	
L2538580-06	1	13	7051.85938		100.00	
L2538580-07	1	14	12552.20508	10.00	100.00	
L2538580-08	1	15	7026.78906		100.00	
WG2082897-3	1	16	7196.70654		100.00	
WG2082897-4	1	17	7024.14258		100.00	
CCV	1	S3	19.06139			
Known Conc:			20.00000			
CCB	1	S9	0.50252			
Known Conc:			0.00000			

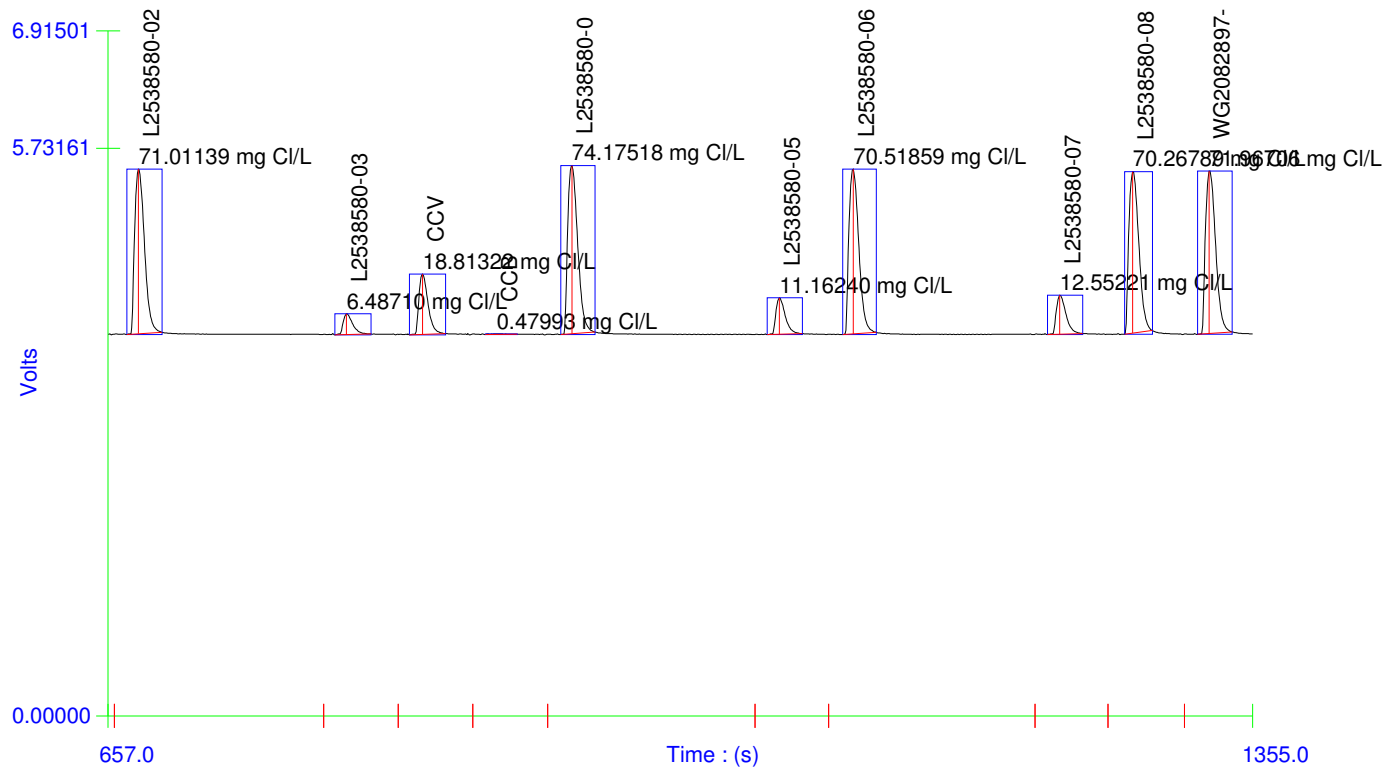
Author:

Date : 6/24/2025

Channel 1 (Chloride) - Set: 1 / 3



Channel 1 (Chloride) - Set: 2 / 3



Channel 1 (Chloride) - Set: 3 / 3

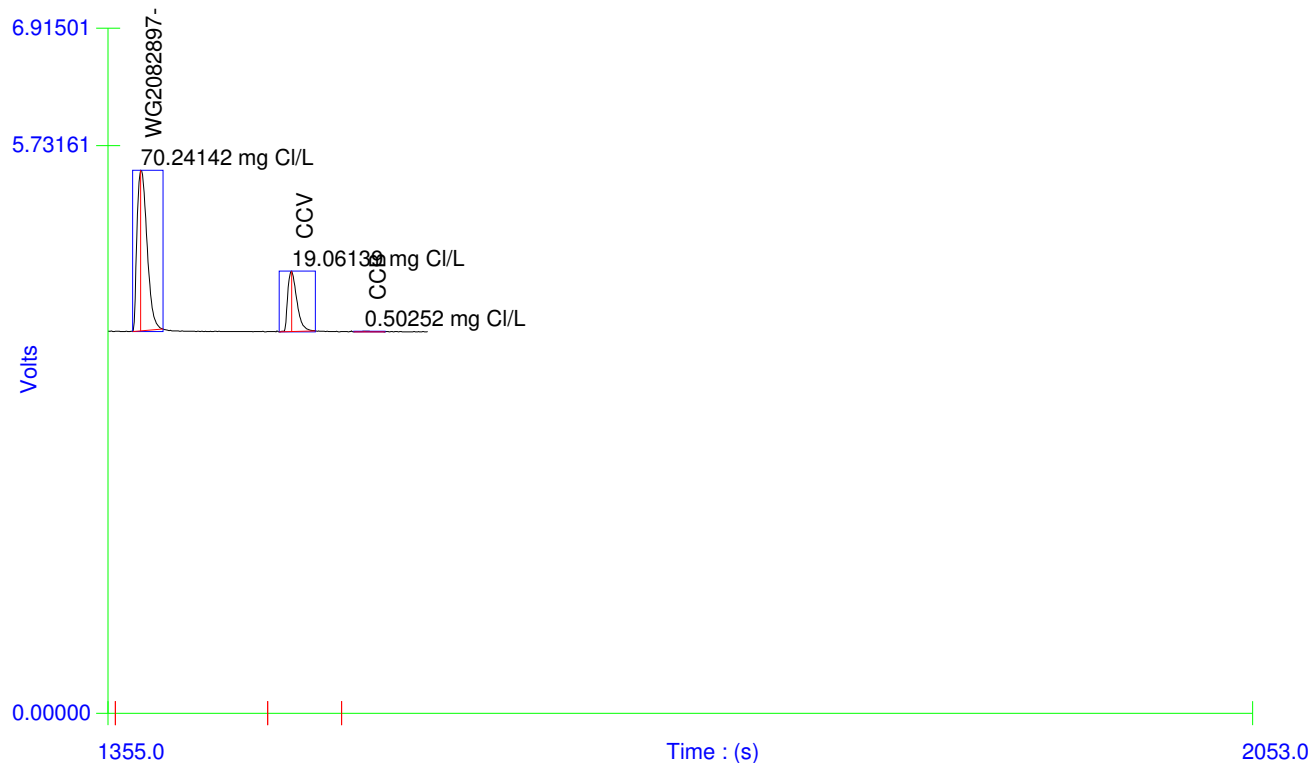
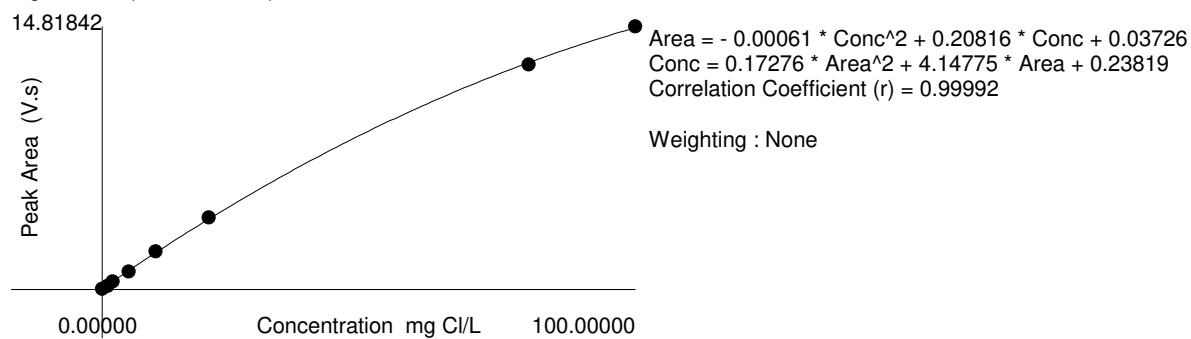


Table : 1 (Chloride-CH3)

	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	14.81842	2.09066	0.0	-0.5	99.63751	6/24/2025	5:04:04 PM
2	80.00000	1	12.66912	1.84665	0.0	0.9	80.51614	6/24/2025	5:04:49 PM
3	20.00000	1	4.04780	0.60835	0.0	-2.3	19.85811	6/24/2025	5:05:35 PM
4	10.00000	1	2.13560	0.32761	0.0	-3.8	9.88408	6/24/2025	5:06:21 PM
5	5.00000	1	1.00750	0.15441	0.0	5.2	4.59241	6/24/2025	5:07:07 PM
6	2.00000	1	0.44149	0.06084	0.0	2.1	2.10304	6/24/2025	5:07:53 PM
7	1.00000	1	0.19291	0.02723	0.0	21.2	1.04476	6/24/2025	5:08:41 PM
8	0.00000	1	0.03029	0.00333			0.36397	6/24/2025	5:09:26 PM

Figure : 1 (Chloride-CH3)



Author:

Date : 6/24/2025

Original Run Filename: OM_6-24-2025_06-49-09PM.OMN Created: 6/24/2025 6:49:09 PM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-24-2025_06-49-09PM.OMN Last Modified: 6/24/2025 6:55:12 PM

Current Run Author's Signature: [a1wetcheminstrument]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 1	ADF	MDF	Weight
			Chloride-CH3 (mg Cl/L)			
CCV	1	S3	19.28361			
Known Conc:			20.00000			
Calibration:			Table/Fig. : 1			
CCB	1	S9	0.51865			
Known Conc:			0.00000			
L2538794-01	1	18	58.17772			
CCV	1	S3	19.72862			
Known Conc:			20.00000			
CCB	1	S9	0.40377			
Known Conc:			0.00000			

Channel 1 (Chloride) - Set: 1 / 1

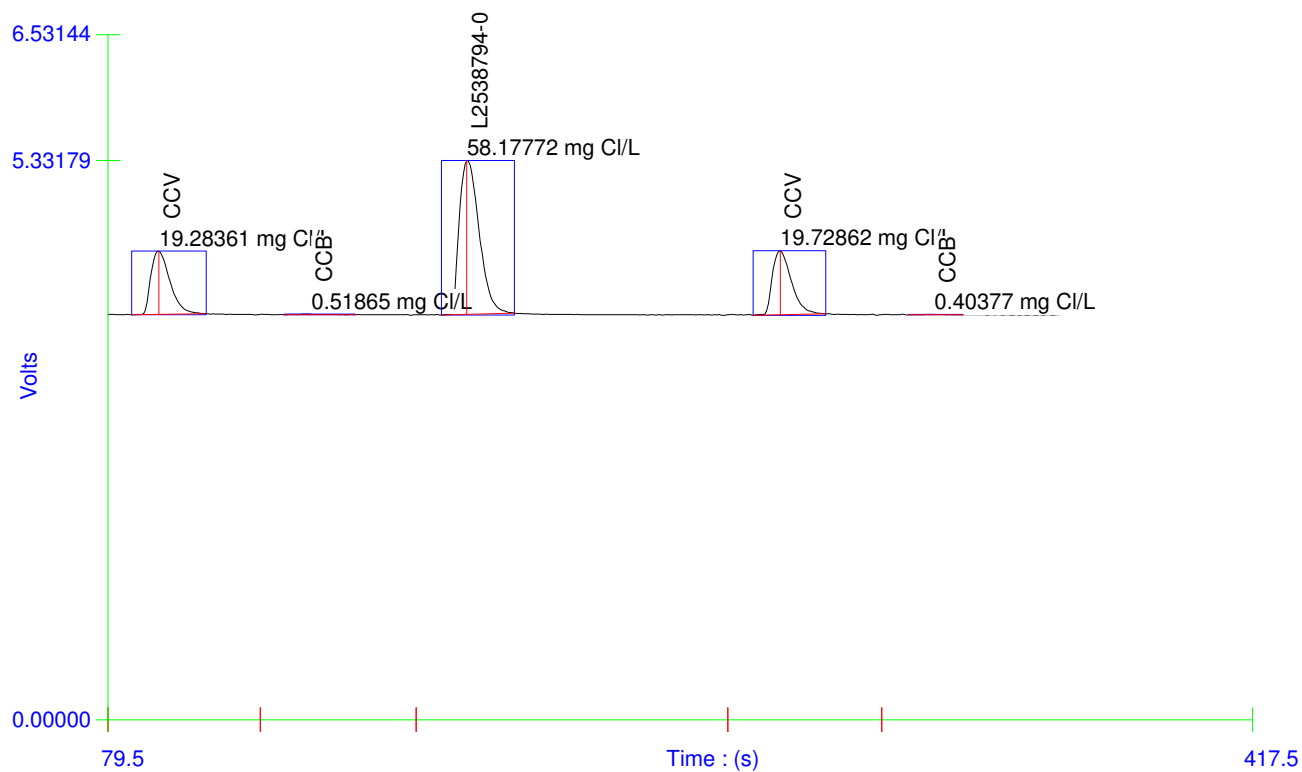
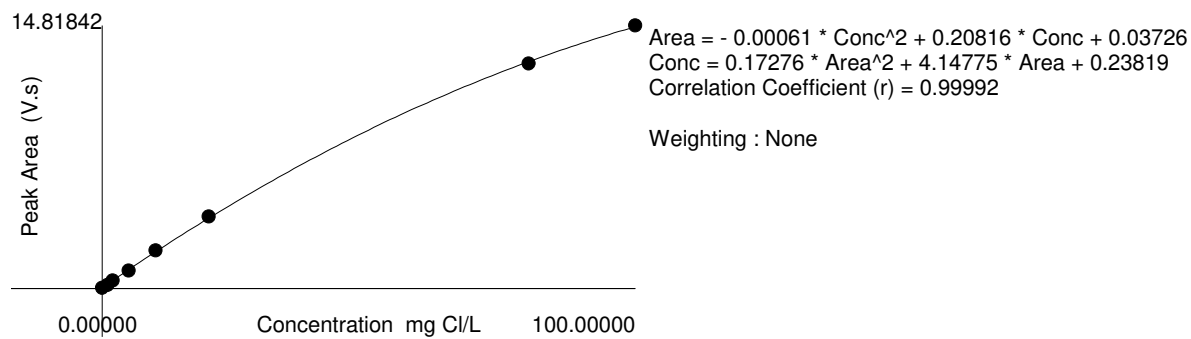


Table : 1 (Chloride-CH3)

	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	14.81842	2.09066	0.0	-0.5	99.63751	6/24/2025	5:04:04 PM
2	80.00000	1	12.66912	1.84665	0.0	0.9	80.51614	6/24/2025	5:04:49 PM
3	20.00000	1	4.04780	0.60835	0.0	-2.3	19.85811	6/24/2025	5:05:35 PM
4	10.00000	1	2.13560	0.32761	0.0	-3.8	9.88408	6/24/2025	5:06:21 PM
5	5.00000	1	1.00750	0.15441	0.0	5.2	4.59241	6/24/2025	5:07:07 PM
6	2.00000	1	0.44149	0.06084	0.0	2.1	2.10304	6/24/2025	5:07:53 PM
7	1.00000	1	0.19291	0.02723	0.0	21.2	1.04476	6/24/2025	5:08:41 PM
8	0.00000	1	0.03029	0.00333			0.36397	6/24/2025	5:09:26 PM

Figure : 1 (Chloride-CH3)



Author:

Date : 6/24/2025

Original Run Filename: OM_6-24-2025_06-56-33PM.OMN Created: 6/24/2025 6:56:33 PM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-24-2025_06-56-33PM.OMN Last Modified: 6/24/2025 7:03:28 PM

Current Run Author's Signature: [a1wetcheminstrument]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 1	ADF	MDF	Weight
			Chloride-CH3 (mg Cl/L)			
CCV	1	S3	19.60335			
Known Conc:			20.00000			
Calibration:			Table/Fig. : 1			
CCB	1	S9	0.47642			
Known Conc:			0.00000			
38580-03	1	19	6563.20361	10.00	100.00	
CCV	1	S3	20.04893			
Known Conc:			20.00000			
CCB	1	S9	0.45305			
Known Conc:			0.00000			

Channel 1 (Chloride) - Set: 1 / 1

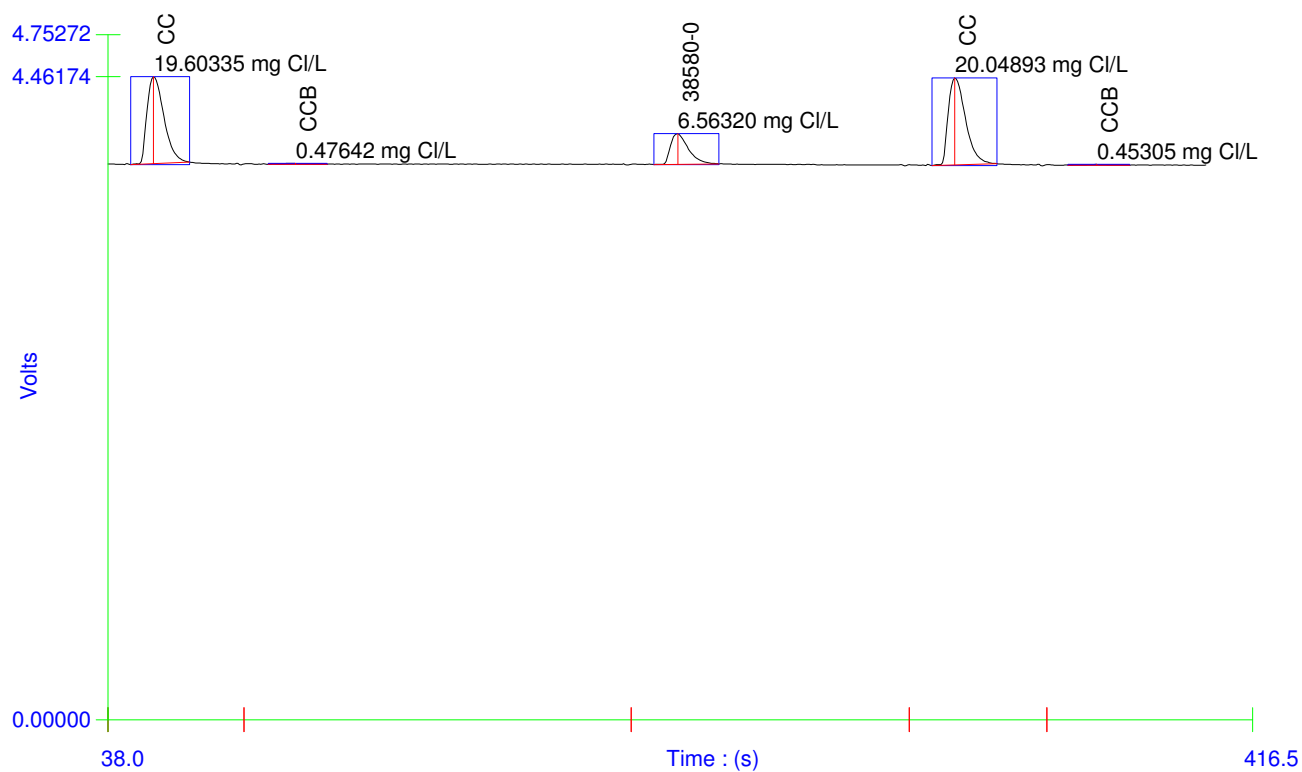
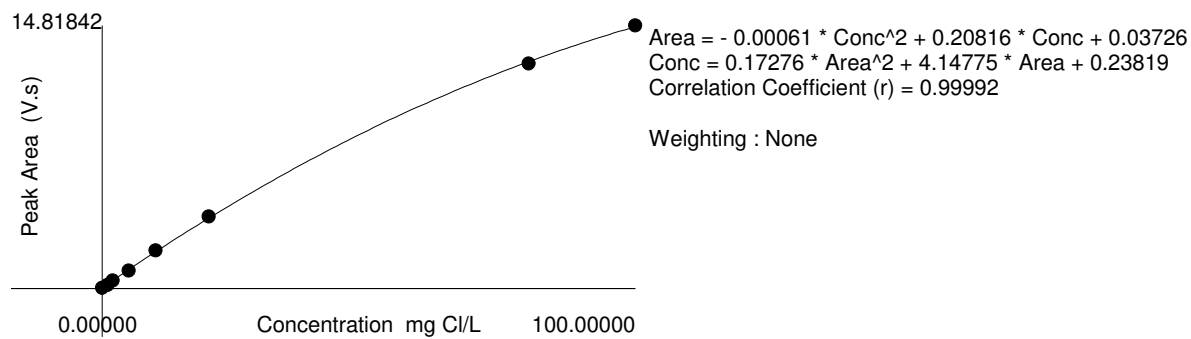


Table : 1 (Chloride-CH3)

	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	14.81842	2.09066	0.0	-0.5	99.63751	6/24/2025	5:04:04 PM
2	80.00000	1	12.66912	1.84665	0.0	0.9	80.51614	6/24/2025	5:04:49 PM
3	20.00000	1	4.04780	0.60835	0.0	-2.3	19.85811	6/24/2025	5:05:35 PM
4	10.00000	1	2.13560	0.32761	0.0	-3.8	9.88408	6/24/2025	5:06:21 PM
5	5.00000	1	1.00750	0.15441	0.0	5.2	4.59241	6/24/2025	5:07:07 PM
6	2.00000	1	0.44149	0.06084	0.0	2.1	2.10304	6/24/2025	5:07:53 PM
7	1.00000	1	0.19291	0.02723	0.0	21.2	1.04476	6/24/2025	5:08:41 PM
8	0.00000	1	0.03029	0.00333			0.36397	6/24/2025	5:09:26 PM

Figure : 1 (Chloride-CH3)



Author:

Date : 6/24/2025

Original Run Filename: OM_6-24-2025_07-36-40PM.OMN Created: 6/24/2025 7:36:40 PM

Original Run Author's Signature: [a1wetcheminstrument]

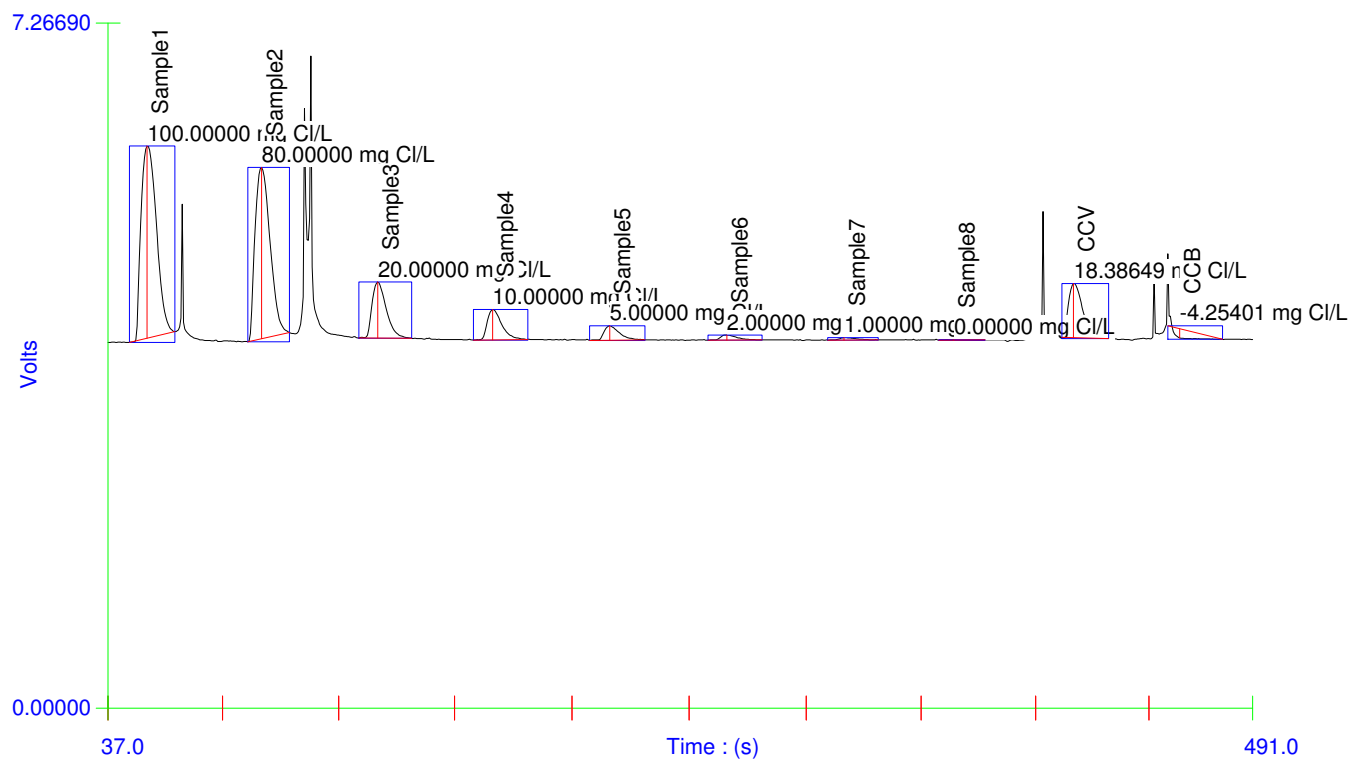
Current Run Filename: OM_6-24-2025_07-36-40PM.OMN Last Modified: 6/24/2025 7:48:36 PM

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	18.38649			
Known Conc:			20.00000			
Calibration:			Table/Fig. : 1			
CCB	1	S9	-4.25401			
Known Conc:			0.00000			
ICV 5	1	86	5.75594			
ICV 30	1	87	31.17840			
ICV 80	1	88	85.42934			

Channel 1 (Chloride) - Set: 1 / 2



Author:

Date : 6/24/2025

Channel 1 (Chloride) - Set: 2 / 2

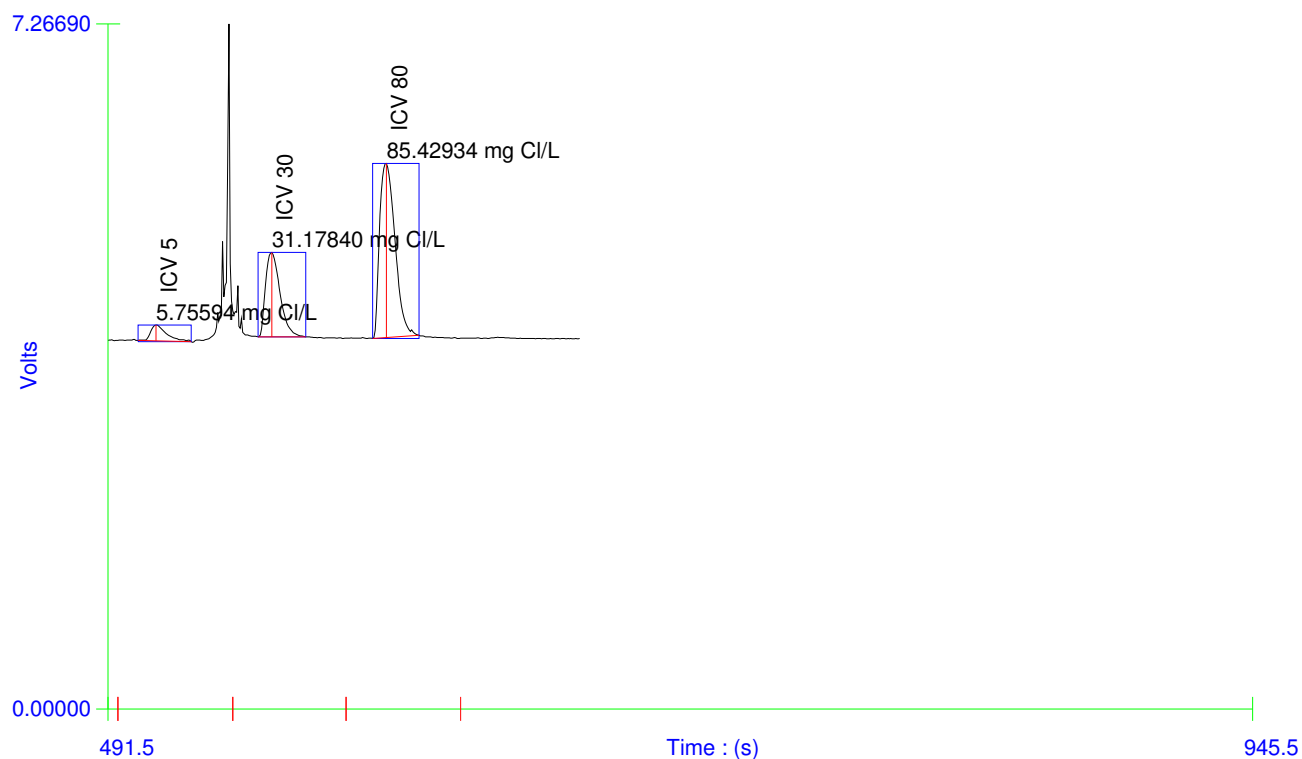
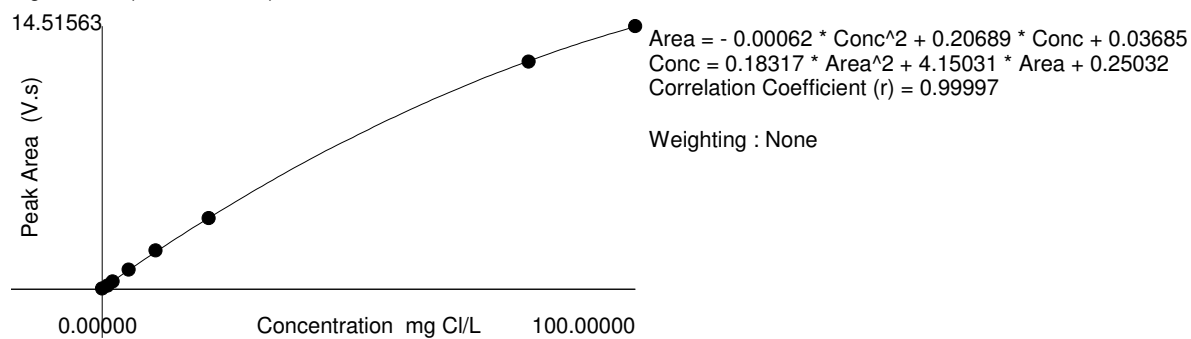


Table : 1 (Chloride-CH3)

	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	14.51563	2.03863	0.0	-0.2	99.08828	6/24/2025	7:37:31 PM
2	80.00000	1	12.56163	1.81321	0.0	0.3	81.28750	6/24/2025	7:38:17 PM
3	20.00000	1	3.91641	0.59443	0.0	0.2	19.31409	6/24/2025	7:39:03 PM
4	10.00000	1	2.12450	0.32014	0.0	-4.0	9.89440	6/24/2025	7:39:50 PM
5	5.00000	1	1.07879	0.15167	0.0	-2.2	4.94078	6/24/2025	7:40:36 PM
6	2.00000	1	0.41885	0.05468	0.0	6.5	2.02083	6/24/2025	7:41:22 PM
7	1.00000	1	0.19776	0.02696	0.0	18.7	1.07825	6/24/2025	7:42:09 PM
8	0.00000	1	0.03021	0.00309			0.37586	6/24/2025	7:42:54 PM

Figure : 1 (Chloride-CH3)



Author:

Date : 6/24/2025

Original Run Filename: OM_6-24-2025_09-16-58PM.OMN Created: 6/24/2025 9:16:58 PM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-24-2025_09-16-58PM.OMN Last Modified: 6/24/2025 11:29:15 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	19.21432			
Known Conc:			20.00000			
Calibration:			Table/Fig. : 1			
CCB	1	S9	0.53140			
Known Conc:			0.00000			
ICV 5	1	86	4.78336			
ICV 30	1	87	28.60959			
ICV 80	1	88	81.98666			
ICB	1	89	0.52768			
100 PPM	1	90	96.70164	10.00		
WG2082935-1	1	1	0.13144			
WG2082935-2	1	2	28.24146			
WG2082937-1	1	3	0.42350			
WG2082937-2	1	4	28.10814			
WG2082939-1	1	5	0.45094			
CCV	1	S3	18.59223			
Known Conc:			20.00000			
CCB	1	S9	0.45253			
Known Conc:			0.00000			
WG2082939-2	1	6	28.46830			
WG2082940-1	1	7	0.71664			
WG2082940-2	1	8	30.48202			
WG2082941-1	1	9	0.71102			
WG2082941-2	1	10	28.85701			
WG2082944-1	1	11	0.30420			
WG2082944-2	1	12	27.39070			
WG2082947-1	1	13	0.46171			
WG2082947-2	1	14	29.21691			
WG2082948-1	1	15	0.51006			
CCV	1	S3	19.35362			
Known Conc:			20.00000			
CCB	1	S9	0.53347			
Known Conc:			0.00000			
WG2082948-2	1	16	29.24817			
WG2082951-1	1	17	0.47202			
WG2082951-2	1	18	29.18226			
WG2082950-1	1	19	0.36382			
WG2082950-2	1	20	29.04723			
L2535803-01	1	21	207.96828			
L2535803-02	1	22	95.98324			
L2535803-03	1	23	94.56271			
L2535803-04	1	24	131.80234			
L2535807-03	1	25	17.71467			
CCV	1	S3	18.92625			
Known Conc:			20.00000			
CCB	1	S9	0.45988			
Known Conc:			0.00000			
L2535807-06	1	26	85.14285			
L2535807-09	1	27	91.65665			
L2535807-12	1	28	91.56053			

Author:

Date : 6/24/2025

L2535807-15	1	29	0.65147			
L2535807-18	1	30	70.57239			
L2535807-21	1	31	87.85719			
L2535807-24	1	32	75.83175			
L2535807-27	1	33	66.39431			
L2535809-01	1	34	14.61583			
L2535809-04	1	35	15.12271			
CCV	1	S3	19.22443			
		Known Conc:	20.00000			
CCB	1	S9	1.12409			
		Known Conc:	0.00000			
L2535809-07	1	36	0.13127			
L2535809-10	1	37	24.27838			
L2535809-13	1	38	21.01320			
L2535809-16	1	39	69.45811			
L2535809-19	1	40	76.53731			
WG2082935-3	1	41	76.51642			
WG2082935-4	1	42	90.59335			
L2535809-22	1	43	39.62749			
WG2082937-3	1	44	39.53651			
WG2082937-4	1	45	58.45208			
CCV	1	S3	19.34578			
		Known Conc:	20.00000			
CCB	1	S9	0.31418			
		Known Conc:	0.00000			
L2535809-25	1	46	44.29744			
L2535814-03	1	47	79.43665			
L2535814-06	1	48	99.71396			
L2535814-09	1	49	23.06593			
L2535814-12	1	50	23.26423			
L2535814-15	1	51	0.42383			
L2535814-18	1	52	102.65898			
L2535814-21	1	53	101.23116			
L2535814-24	1	54	50.63675			
L2535814-27	1	55	12.16162			
CCV	1	S3	19.39939			
		Known Conc:	20.00000			
CCB	1	S9	0.34508			
		Known Conc:	0.00000			
L2535819-01	1	56	42.79001			
L2535819-04	1	57	43.04626			
L2535819-07	1	58	0.51575			
L2535819-10	1	59	43.88035			
L2535819-13	1	60	51.17797			
L2535819-16	1	61	130.27243			
L2535819-19	1	62	108.19618			
L2535819-22	1	63	55.47741			
L2535819-25	1	64	39.16668			
L2535820-01	1	65	16.09470			
CCV	1	S3	18.98438			
		Known Conc:	20.00000			
CCB	1	S9	0.47200			
		Known Conc:	0.00000			
L2535820-04	1	66	15.64704			
L2535820-07	1	67	0.33993			
L2535820-10	1	68	28.99927			
L2535820-13	1	69	71.94975			
L2535820-16	1	70	31.29766			
L2535820-19	1	71	34.17919			
L2535820-22	1	72	34.42334			
L2535820-25	1	73	33.72206			
L2535822-03	1	74	5.50836			
L2535822-06	1	75	73.53110			
CCV	1	S3	19.27013			
		Known Conc:	20.00000			
CCB	1	S9	0.44074			
		Known Conc:	0.00000			
L2535822-09	1	76	56.60709			

Author:

Date : 6/24/2025

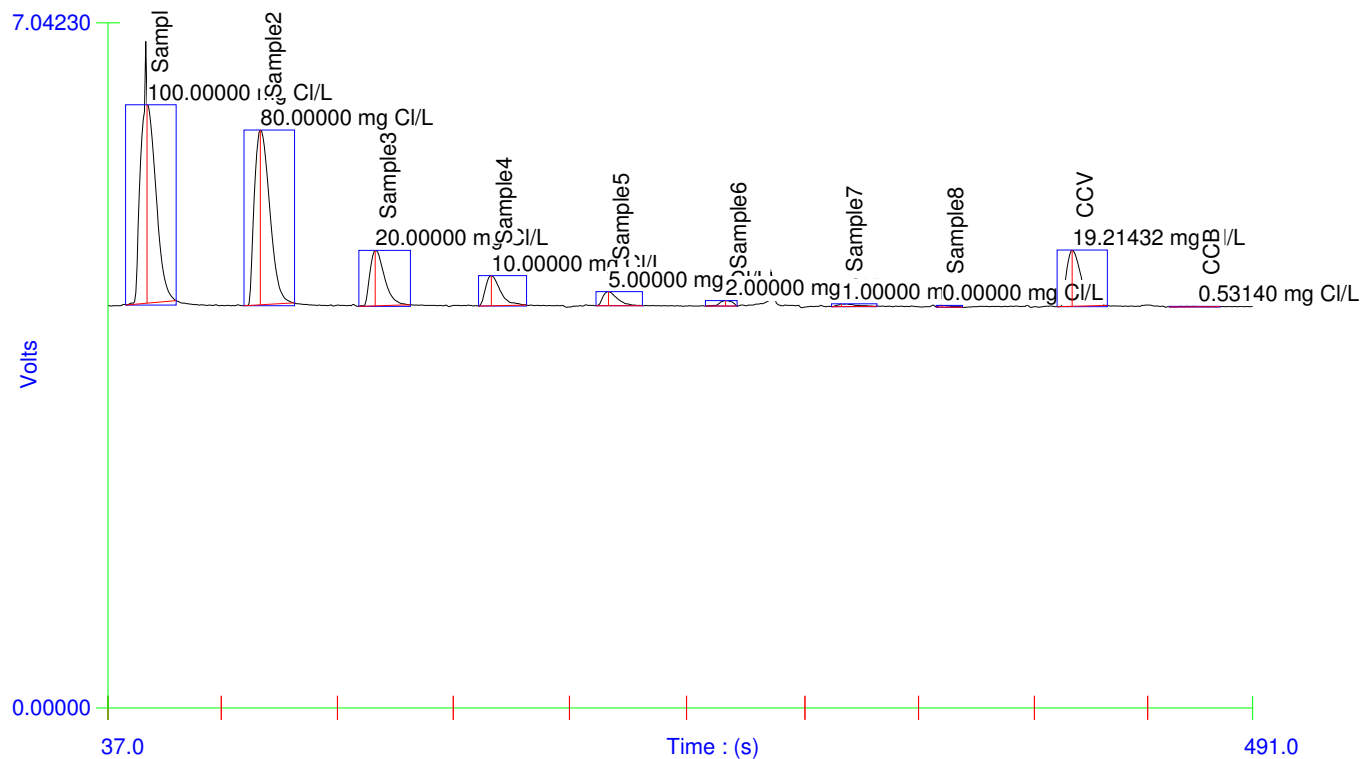
L2535822-12	1	77	58.16471			
L2535822-15	1	78	0.43926			
L2535822-18	1	79	115.78040			
L2535822-21	1	80	120.86125			
L2535822-24	1	81	123.52643			
L2537391-01	1	82	326.20166	25.00		
L2536247-01	1	83	15.79585			
L2536247-02	1	84	24.70385			
L2536247-03	1	85	15.42416			
CCV	1	S3	19.23291			
		Known Conc:	20.00000			
CCB	1	S9	0.44161			
		Known Conc:	0.00000			
L2536247-04	1	91	17.95751			
L2536247-05	1	92	30.42608			
L2536247-06	1	93	23.68919			
L2536247-07	1	94	19.51403			
L2536247-08	1	95	9.31420			
L2536247-09	1	96	23.94938			
L2536247-10	1	97	17.10935			
L2536247-11	1	98	8.66029			
L2536247-12	1	99	24.64938	10.00		
WG2082940-3	1	100	22.89361	10.00		
CCV	1	S3	18.63303			
		Known Conc:	20.00000			
CCB	1	S9	0.45933			
		Known Conc:	0.00000			
WG2082940-4	1	101	40.22771	10.00		
L2536247-13	1	102	14.69693	10.00		
L2536247-14	1	103	15.95318			
L2536247-15	1	104	16.89727			
L2536247-16	1	105	16.46195	10.00		
L2536247-17	1	106	15.35597	10.00		
L2536247-18	1	107	16.55799			
L2536247-20	1	108	17.22139			
L2536345-01	1	109	51.56107	10.00		
L2536345-02	1	110	52.91093	10.00		
CCV	1	S3	19.50510			
		Known Conc:	20.00000			
CCB	1	S9	0.52145			
		Known Conc:	0.00000			
L2536345-04	1	111	56.34550	10.00		
L2536345-06	1	112	62.21067	10.00		
L2536572-01	1	113	147.48724	10.00		
WG2082944-3	1	114	144.58102	10.00		
WG2082944-4	1	115	170.11198	10.00		
L2536572-02	1	116	255.07173	10.00		
L2536572-03	1	117	300.54837	10.00		
L2536572-04	1	118	39.35228	10.00		
L2536572-05	1	119	191.04715	10.00		
L2536572-06	1	120	130.39087	10.00		
CCV	1	S3	18.79178			
		Known Conc:	20.00000			
CCB	1	S9	0.57219			
		Known Conc:	0.00000			
L2536572-07	1	121	10.36989	10.00		
L2536572-08	1	122	8.47842	10.00		
L2536572-09	1	123	14.78075	10.00		
WG2082944-5	1	124	15.33360	10.00		
WG2082944-6	1	125	32.82372	10.00		
L2536572-08	1	122	13.19901	10.00		
L2536572-10	1	126	148.99533	10.00		
L2536572-11	1	127	112.87240	10.00		
L2536572-12	1	128	256.64178	10.00		
L2537295-01	1	129	249.93617	25.00		
CCV	1	S3	19.43860			
		Known Conc:	20.00000			
CCB	1	S9	0.48888			

Author:

Date : 6/24/2025

Known Conc:			0.00000			
L2537295-03	1	130	233.85104	25.00		
L2536725-01	1	131	24.34849	10.00		
L2536725-02	1	132	58.63150	10.00		
L2536725-03	1	133	34.85159	10.00		

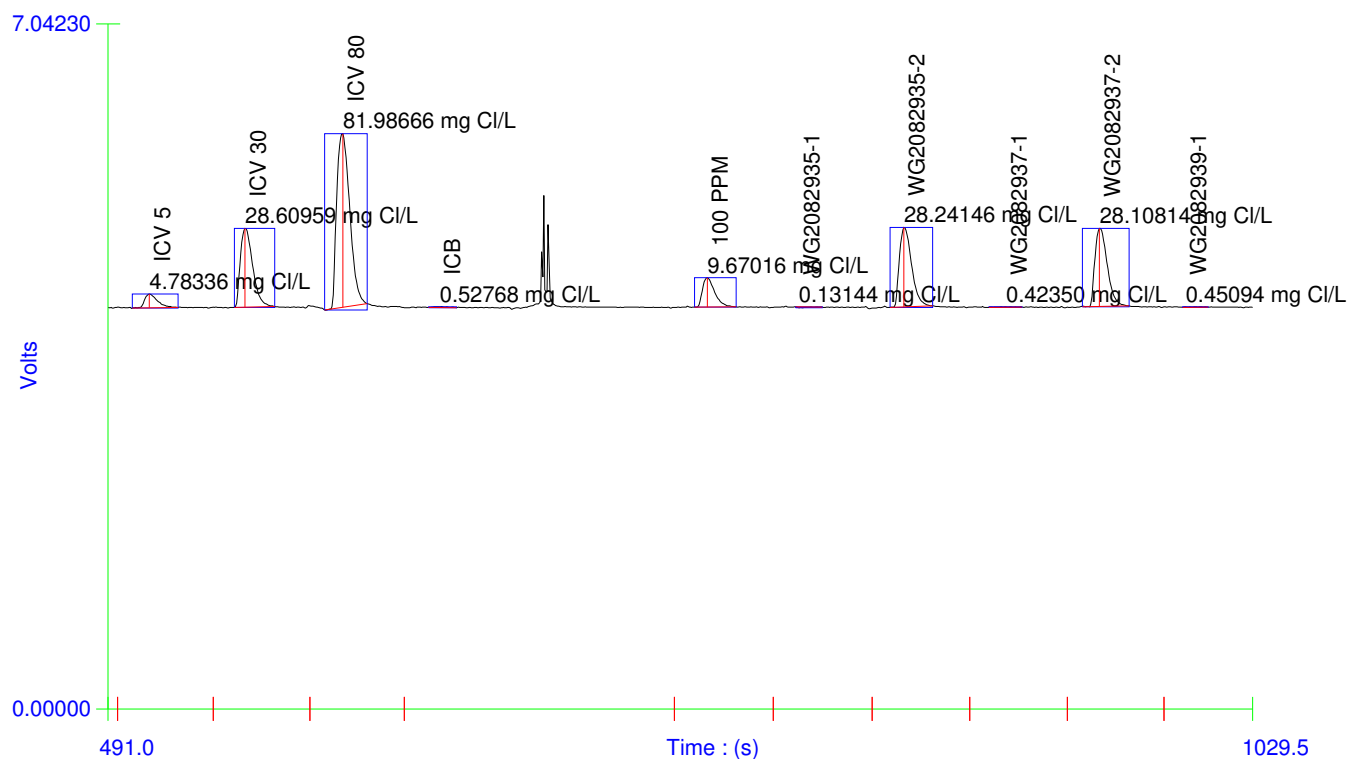
Channel 1 (Chloride) - Set: 1 / 17



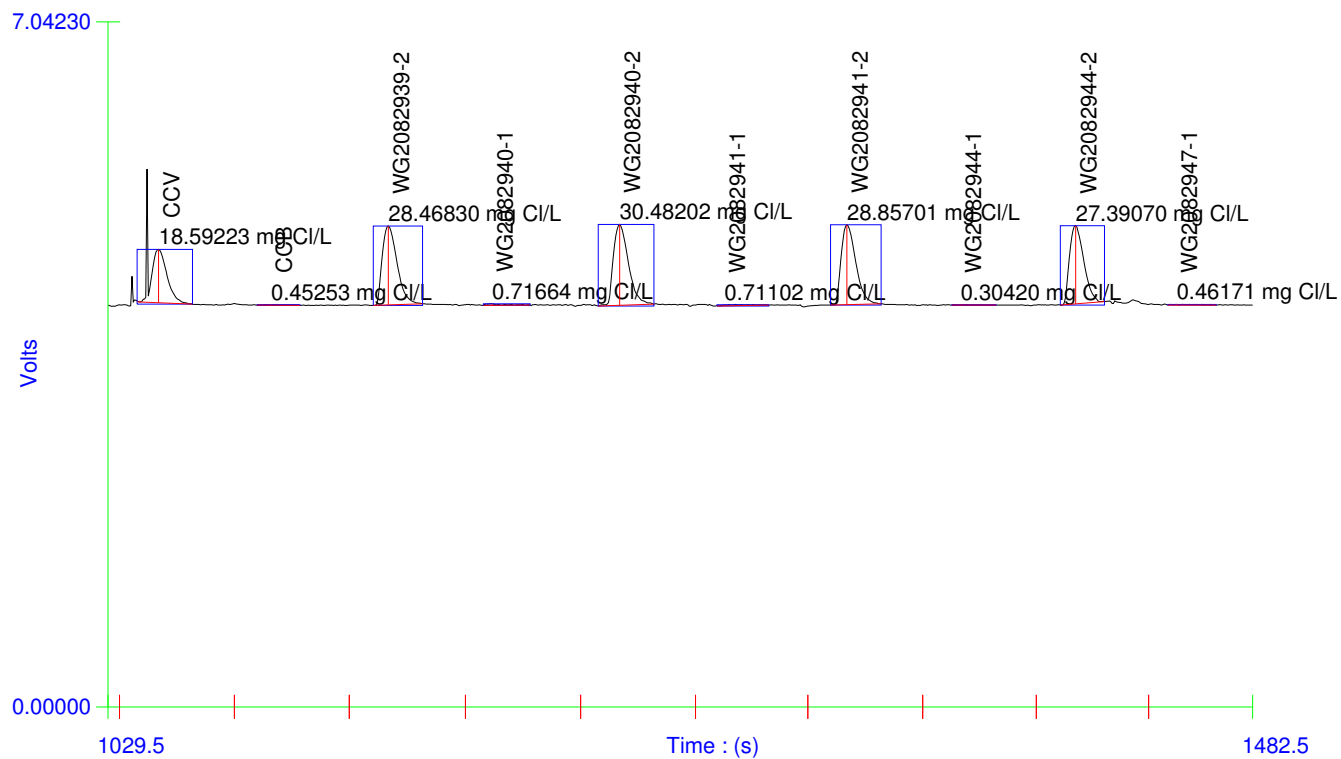
Author:

Date : 6/24/2025

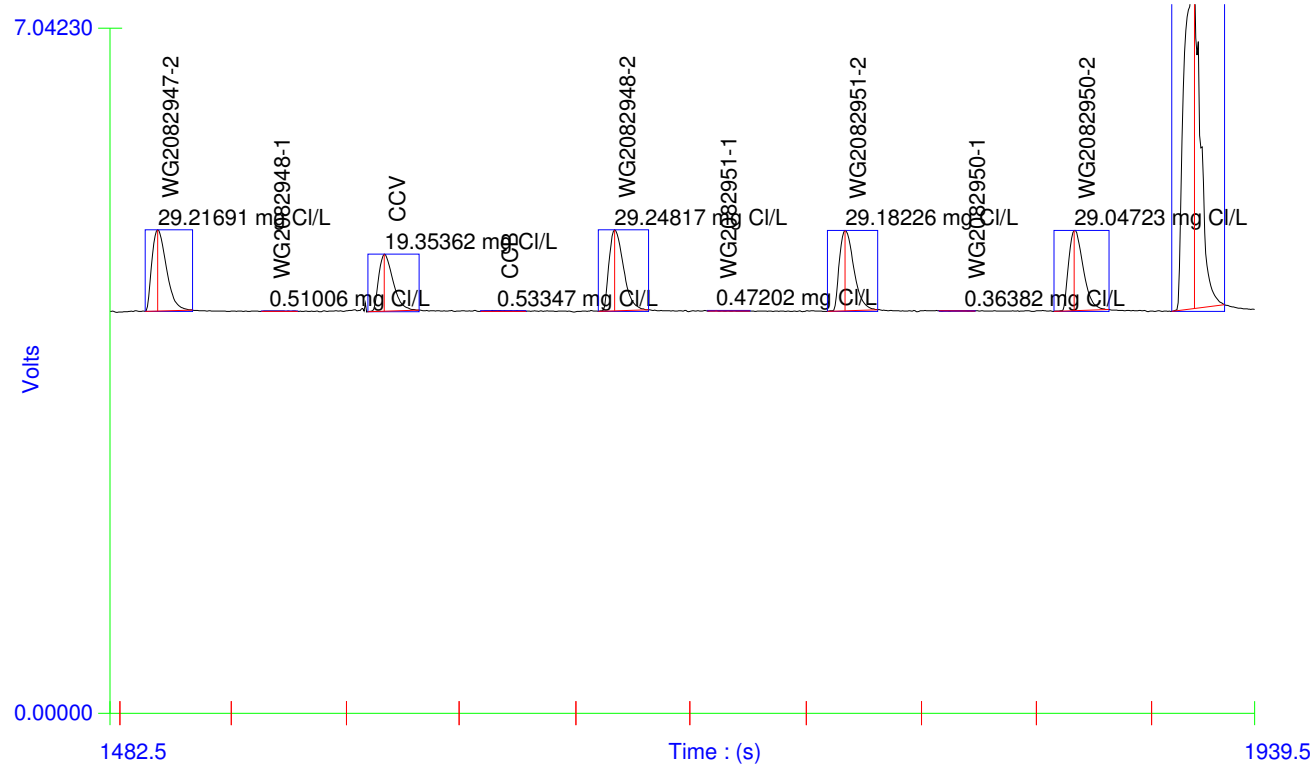
Channel 1 (Chloride) - Set: 2 / 17



Channel 1 (Chloride) - Set: 3 / 17



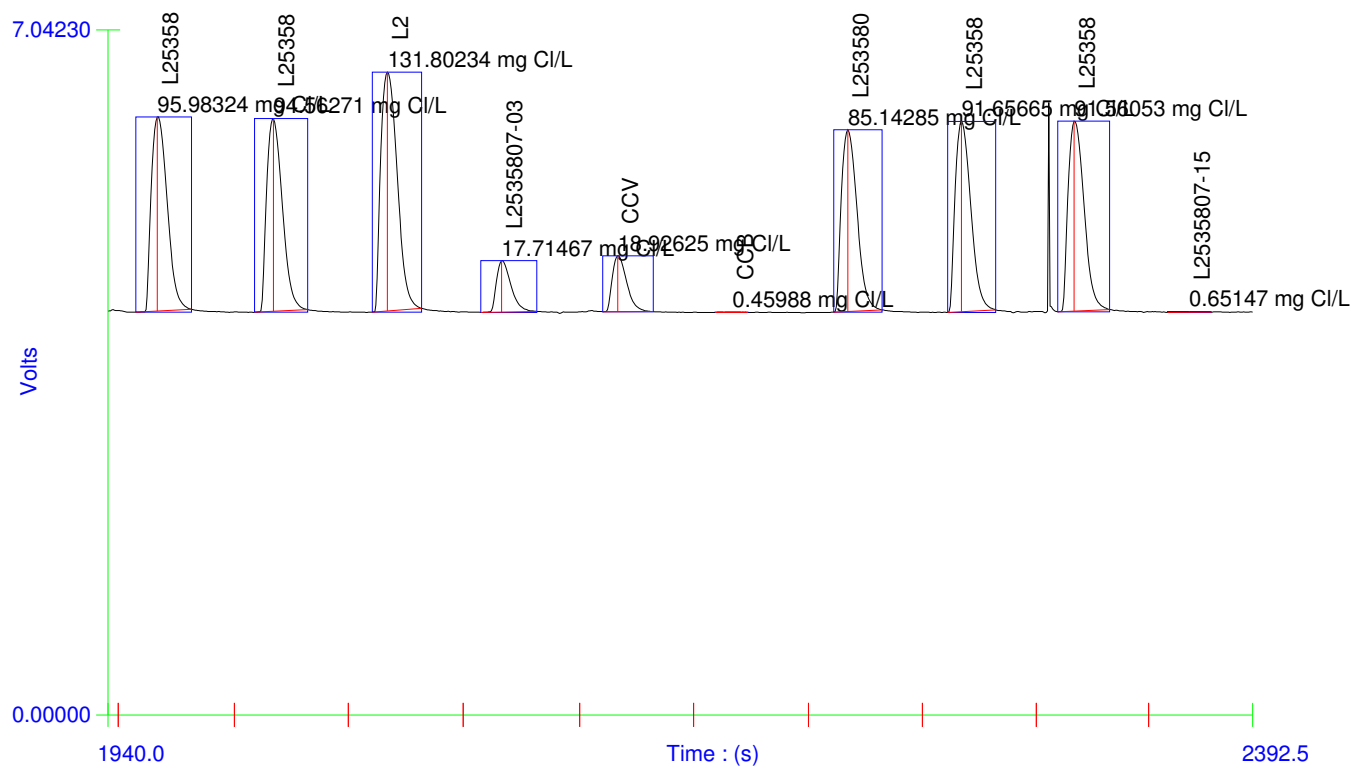
Channel 1 (Chloride) - Set: 4 / 17



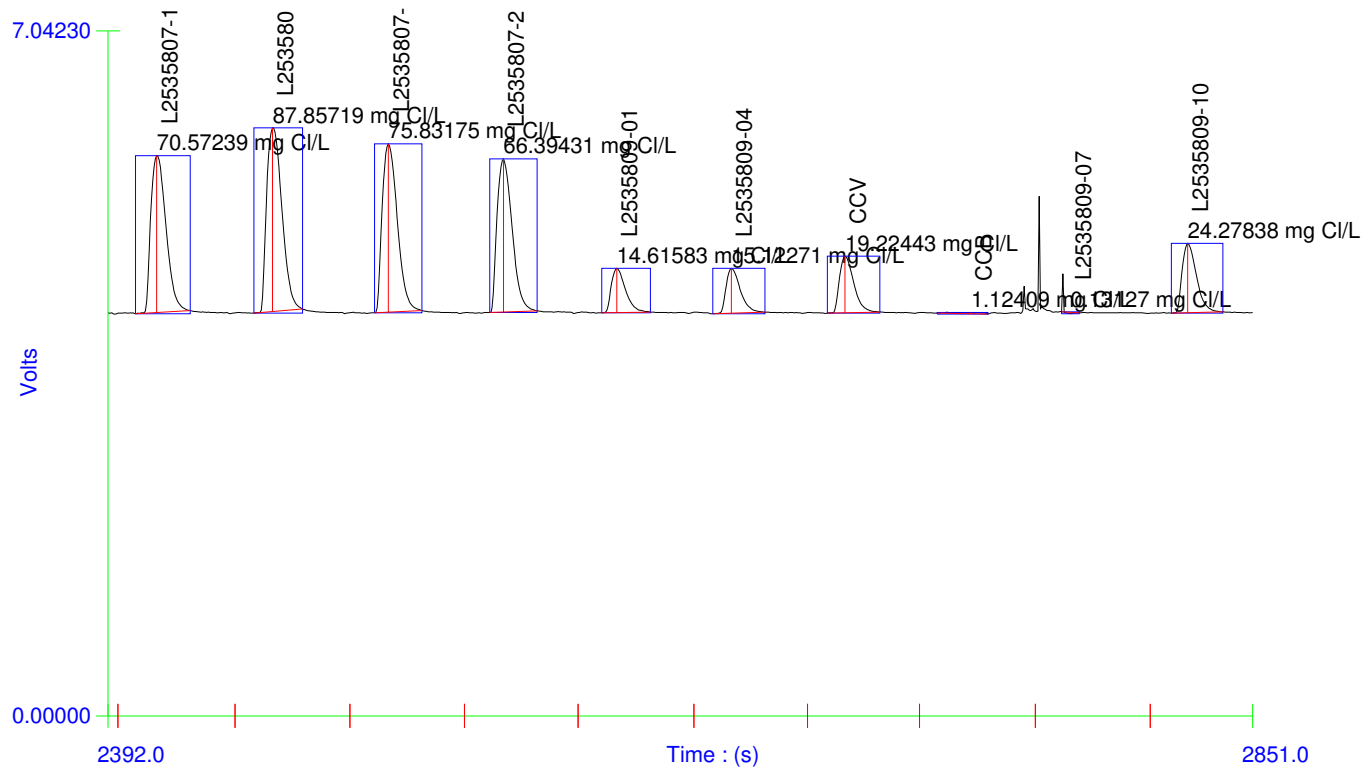
Author:

Date : 6/24/2025

Channel 1 (Chloride) - Set: 5 / 17



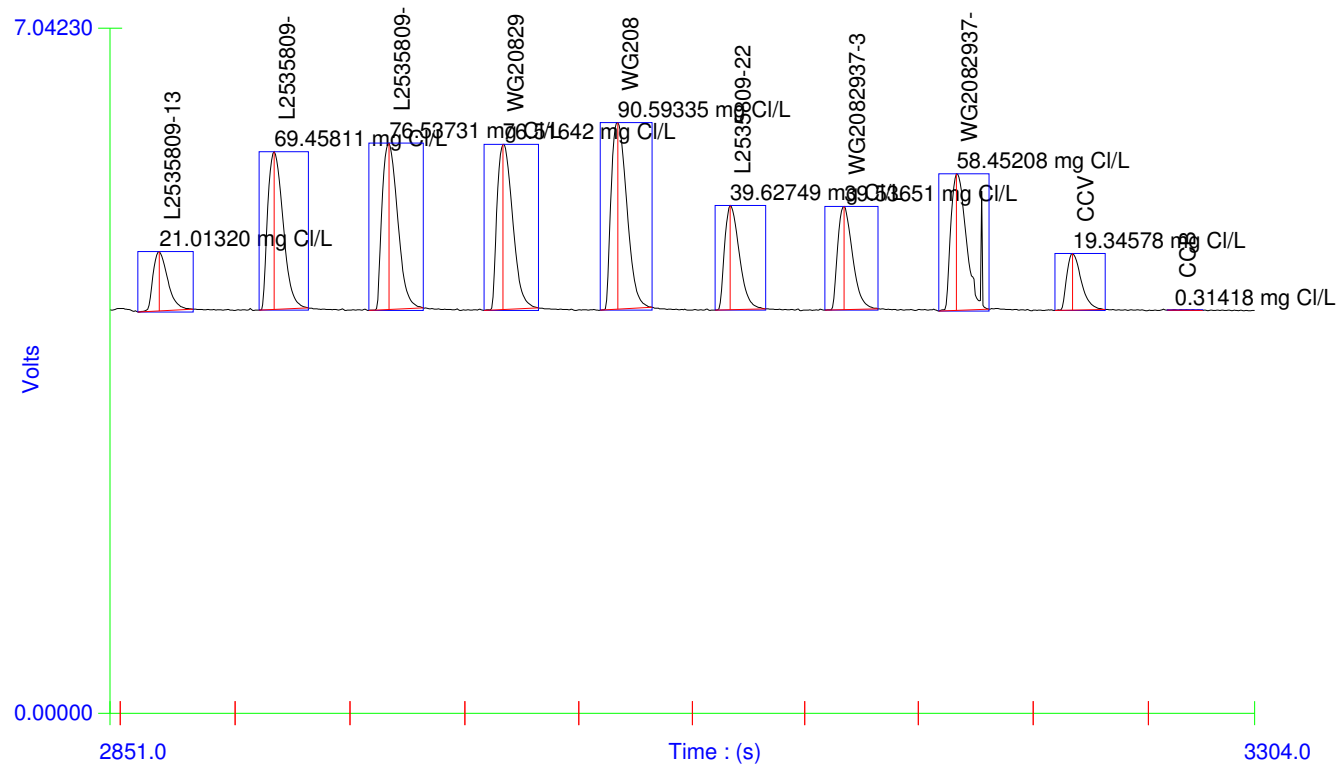
Channel 1 (Chloride) - Set: 6 / 17



Author:

Date : 6/24/2025

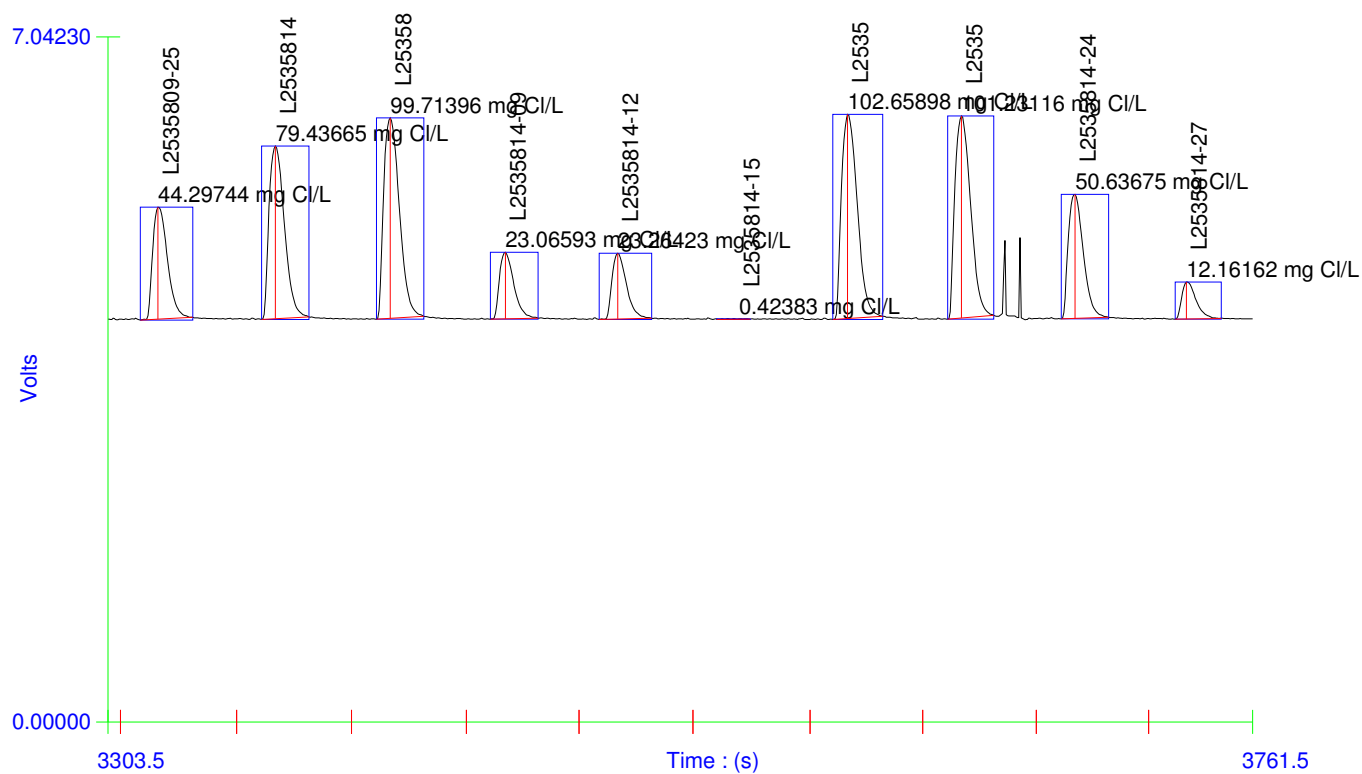
Channel 1 (Chloride) - Set: 7 / 17



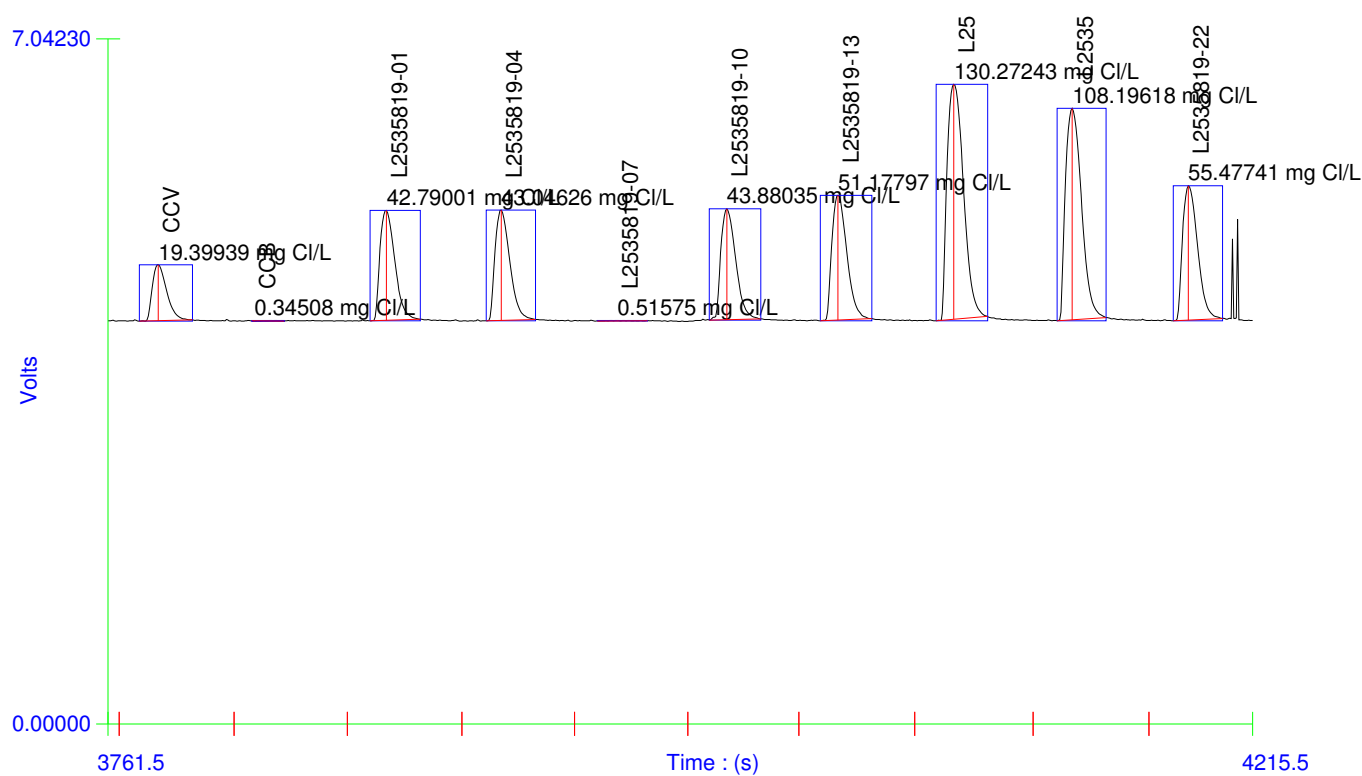
Author:

Date : 6/24/2025

Channel 1 (Chloride) - Set: 8 / 17



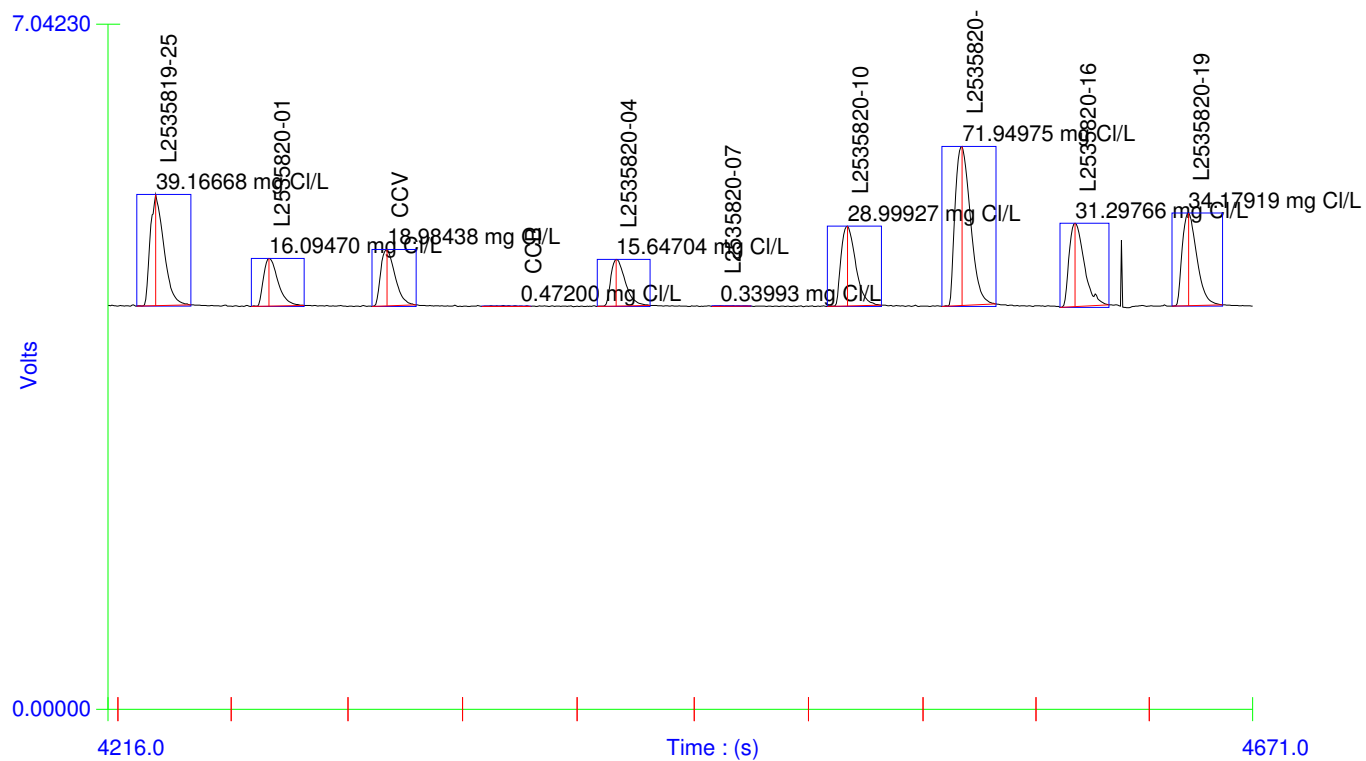
Channel 1 (Chloride) - Set: 9 / 17



Author:

Date : 6/24/2025

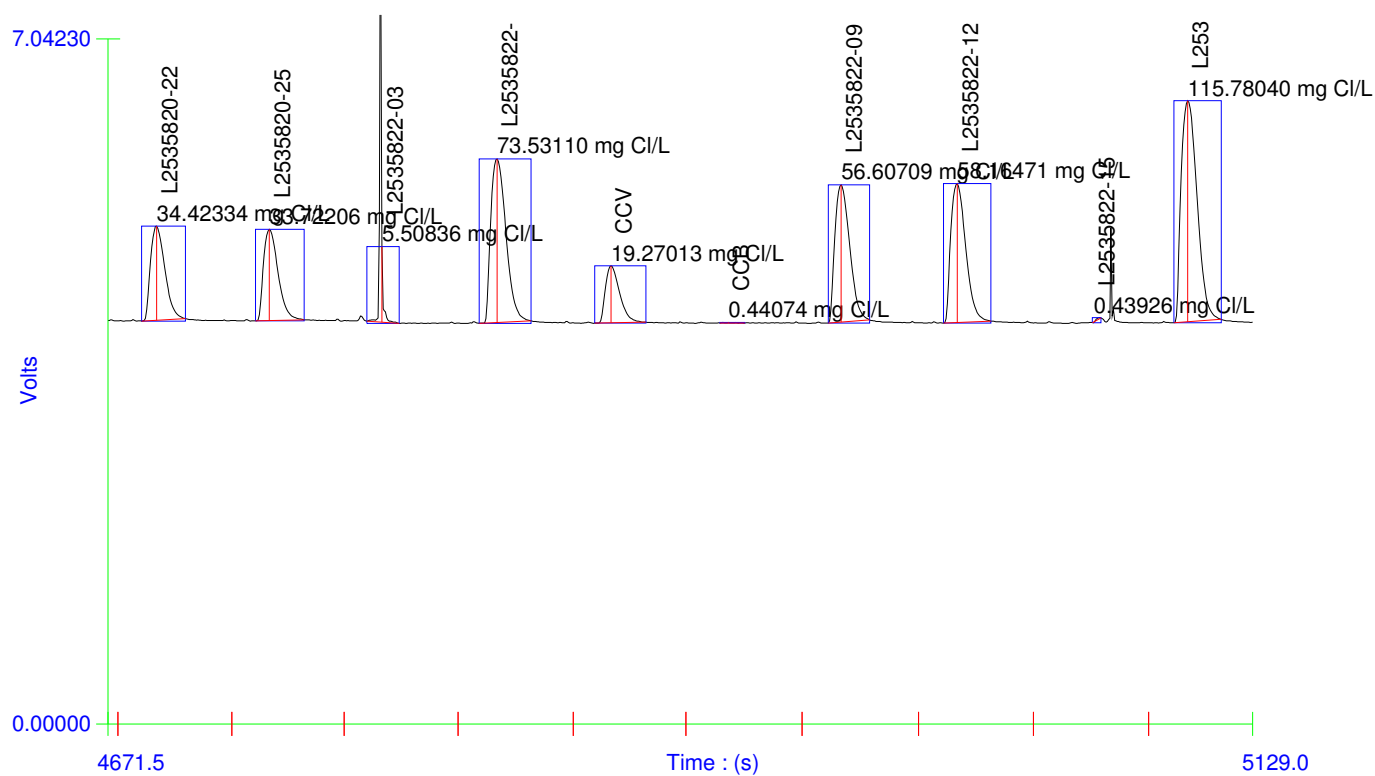
Channel 1 (Chloride) - Set: 10 / 17



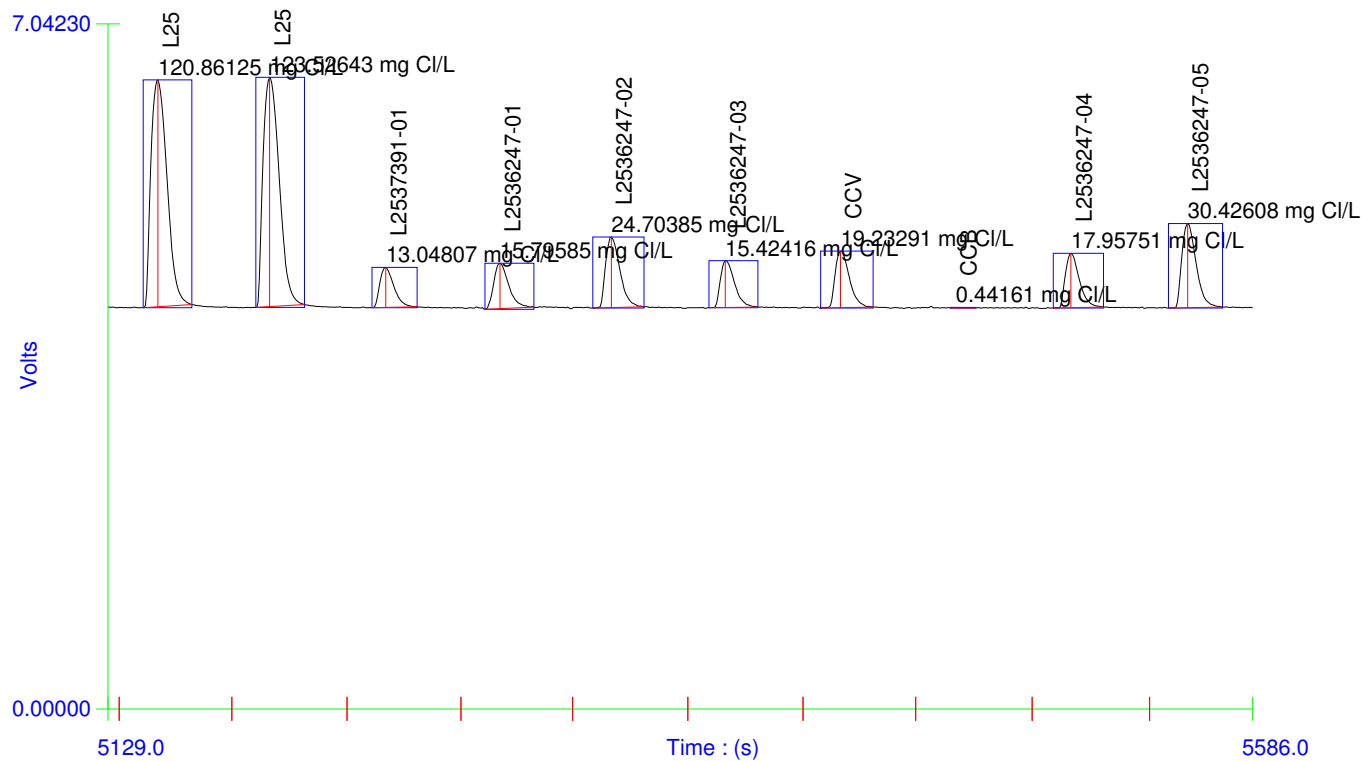
Author:

Date : 6/24/2025

Channel 1 (Chloride) - Set: 11 / 17



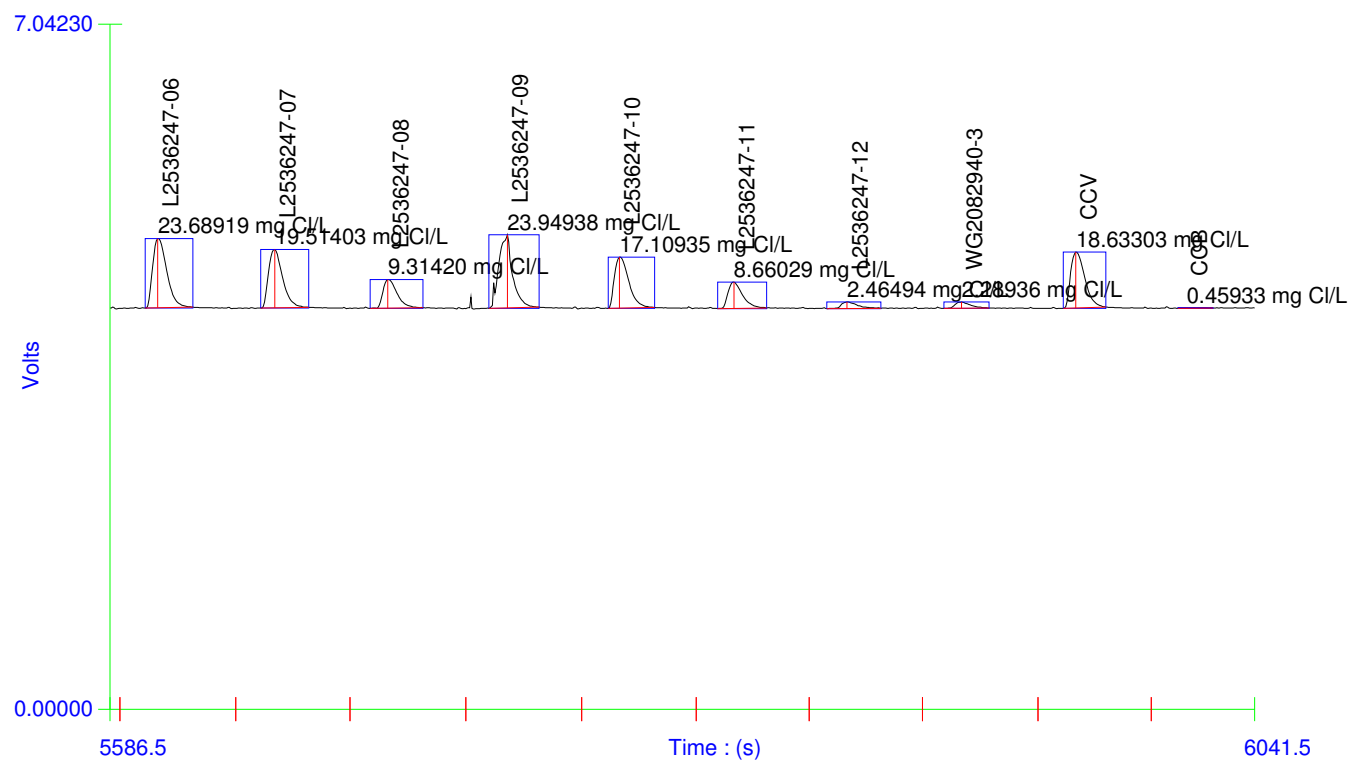
Channel 1 (Chloride) - Set: 12 / 17



Author:

Date : 6/24/2025

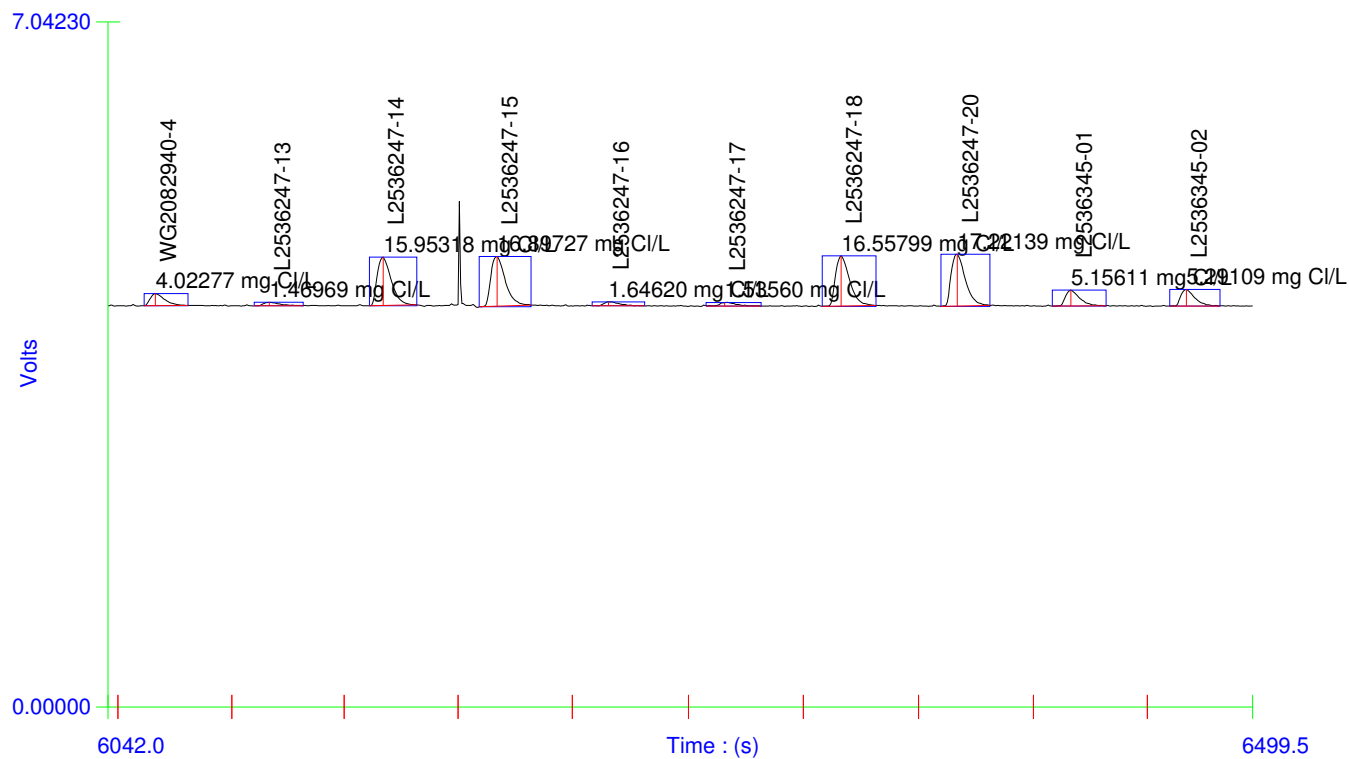
Channel 1 (Chloride) - Set: 13 / 17



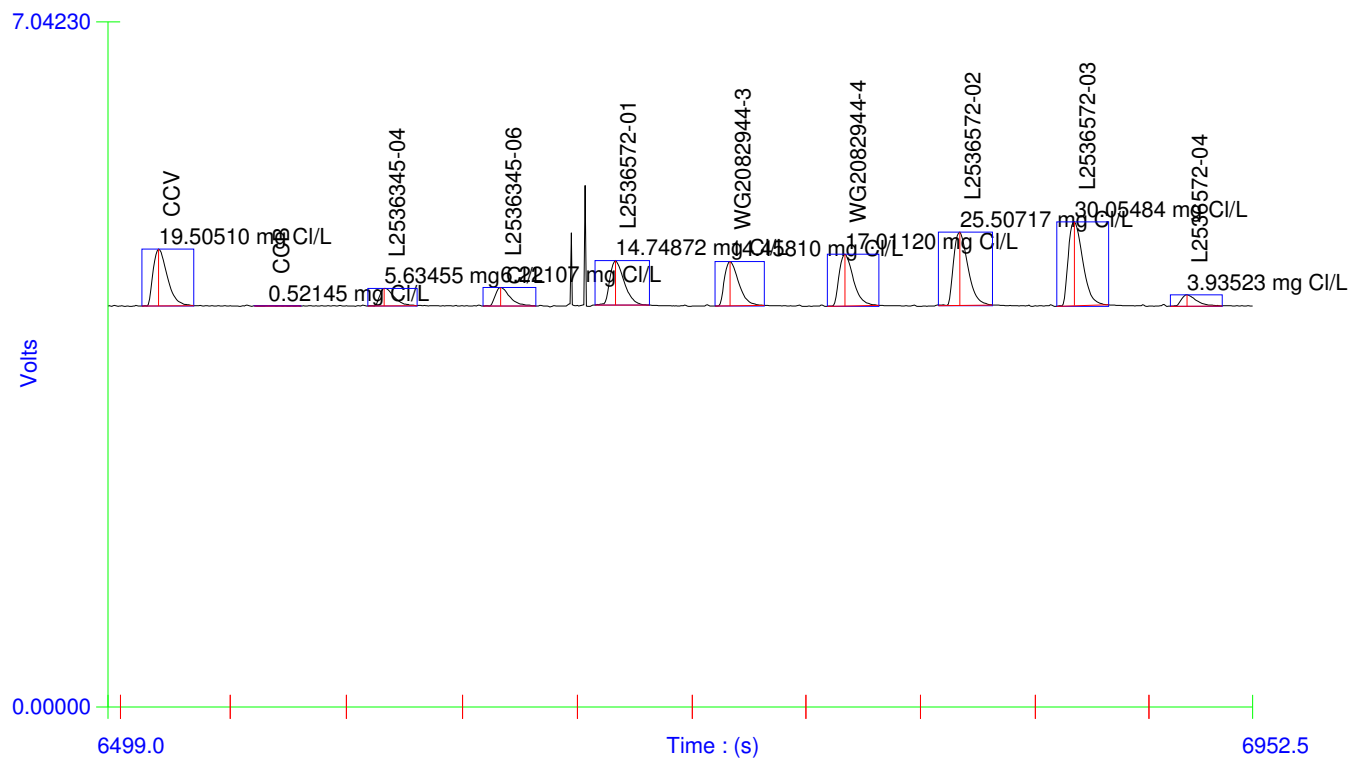
Author:

Date : 6/24/2025

Channel 1 (Chloride) - Set: 14 / 17



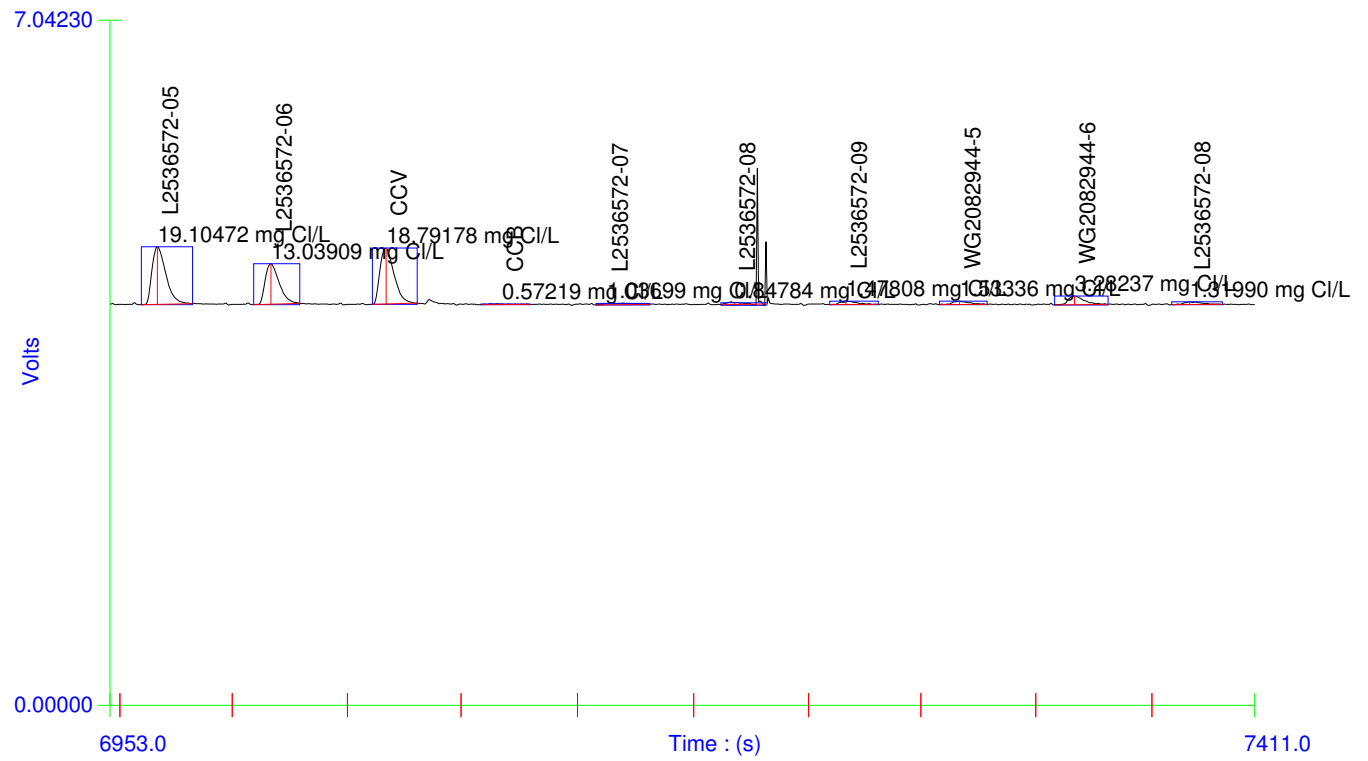
Channel 1 (Chloride) - Set: 15 / 17



Author:

Date : 6/24/2025

Channel 1 (Chloride) - Set: 16 / 17



Channel 1 (Chloride) - Set: 17 / 17

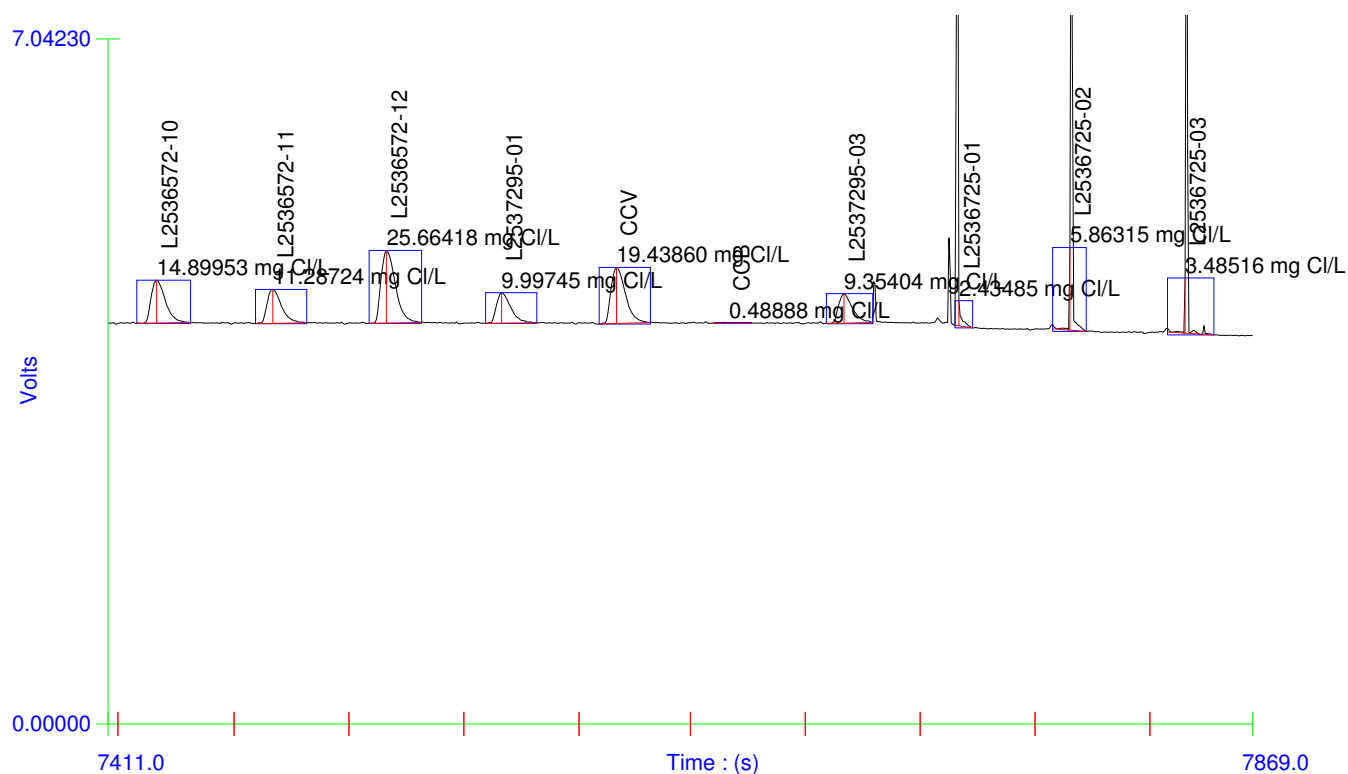
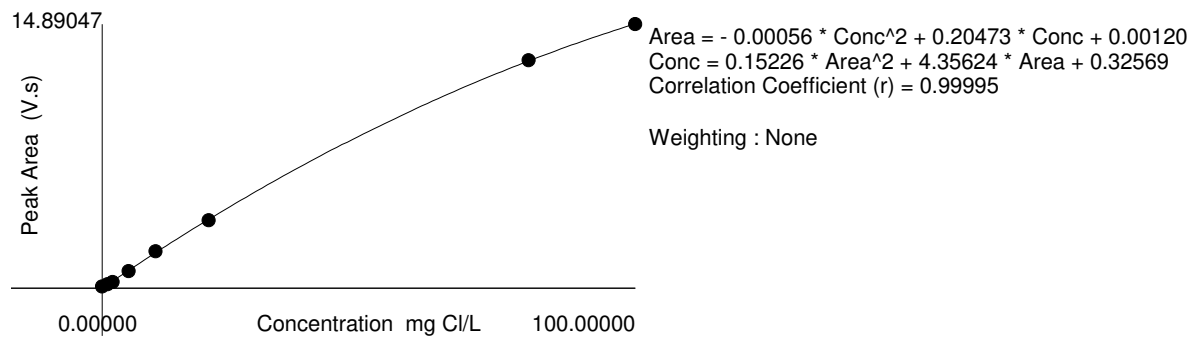


Table : 1 (Chloride-CH3)

	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	14.89047	2.03901	0.0	0.1	98.95296	6/24/2025	9:17:48 PM
2	80.00000	1	12.85401	1.79955	0.0	-0.3	81.47868	6/24/2025	9:18:34 PM
3	20.00000	1	3.82137	0.56964	0.0	1.3	19.19596	6/24/2025	9:19:20 PM
4	10.00000	1	2.06764	0.30948	0.0	-3.8	9.98377	6/24/2025	9:20:05 PM
5	5.00000	1	0.95442	0.14375	0.0	5.6	4.62208	6/24/2025	9:20:53 PM
6	2.00000	1	0.33612	0.05752	0.0	17.7	1.80711	6/24/2025	9:21:39 PM
7	1.00000	1	0.21565	0.02707	0.0	-5.0	1.27218	6/24/2025	9:22:26 PM
8	0.00000	1	0.08276	0.01556			0.68726	6/24/2025	9:23:10 PM

Figure : 1 (Chloride-CH3)



Author:

Date : 6/25/2025

Original Run Filename: OM_6-24-2025_11-38-46PM.OMN Created: 6/24/2025 11:38:46 PM
 Original Run Author's Signature: [a1wetcheminstrument]
 Current Run Filename: OM_6-24-2025_11-38-46PM.OMN Last Modified: 6/25/2025 12:17:54 AM
 Current Run Author's Signature: [a1wetcheminstrument]
 Description: Default New Run

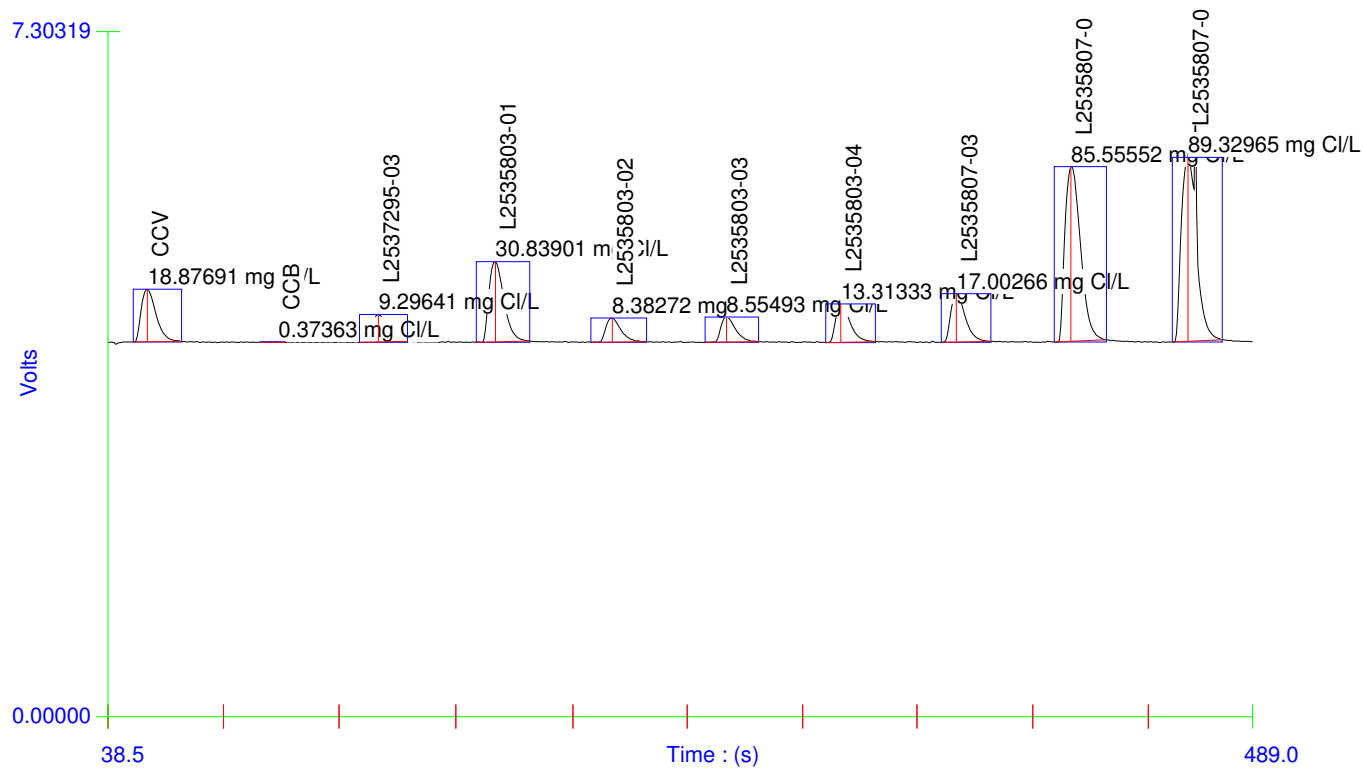
Sample	Rep.	Cup No.	Channel 1 Chloride- CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	18.87691			
Known Conc:			20.00000			
Calibration:			Table/Fig. : 1			
CCB	1	S9	0.37363			
Known Conc:			0.00000			
L2537295-03	1	130	232.41034		25.00	
L2535803-01	1	21	308.39008		10.00	
L2535803-02	1	22	83.82716		10.00	
L2535803-03	1	23	85.54935		10.00	
L2535803-04	1	24	133.13335		10.00	
L2535807-03	1	25	17.00266			
L2535807-06	1	26	85.55552			
L2535807-09	1	27	89.32965			
L2535807-12	1	28	92.32392			
L2535807-15	1	29	0.47682			
CCV	1	S3	18.99081			
Known Conc:			20.00000			
CCB	1	S9	0.41892			
Known Conc:			0.00000			
L2535807-18	1	30	68.99567			
L2535807-21	1	31	87.54366			
L2535807-24	1	32	79.36316			
L2535807-27	1	33	66.36055			
L2535809-01	1	34	14.69908			
L2535809-04	1	35	14.81748			
L2535809-07	1	36	0.52759			
L2535809-10	1	37	24.87849			
L2535809-13	1	38	19.50764			
L2535809-16	1	39	69.43044			
CCV	1	S3	19.08448			
Known Conc:			20.00000			
CCB	1	S9	0.26787			
Known Conc:			0.00000			
L2535809-19	1	40	75.16521			
WG2082935-3	1	41	75.78047			
WG2082935-4	1	42	93.09238		10.00	
L2535807-12	1	28	84.29707		10.00	
L2536725-01	1	131	4.10646		10.00	
L2536725-02	1	132	7.04750		10.00	
L2536725-03	1	133	3.68482		10.00	
WG2082941-3	1	134	2.99839		10.00	
WG2082941-4	1	135	20.34985		10.00	
L2536792-01	1	136	1795.48853		50.00	
CCV	1	S3	19.06516			
Known Conc:			20.00000			
CCB	1	S9	0.28157			
Known Conc:			0.00000			
L2536821-01	1	137	72.56264		10.00	
L2536869-01	1	138	5.48954			
L2536969-07	1	139	222.59430		10.00	
L2537227-01	1	140	25.62215		10.00	
L2537227-02	1	141	26.24921		10.00	
L2537509-01	1	142	-0.19073		10.00	
L2537671-01	1	143	1346.25549		100.00	
L2537671-02	1	144	1625.19116		100.00	
L2538975-01	1	145	523.26038		25.00	
L2539317-01	1	146	2.29632		1.00	
CCV	1	S3	18.98513			

Author:

Date : 6/25/2025

		Known Conc:	20.00000		
CCB	1	S9	0.17980		
		Known Conc:	0.00000		

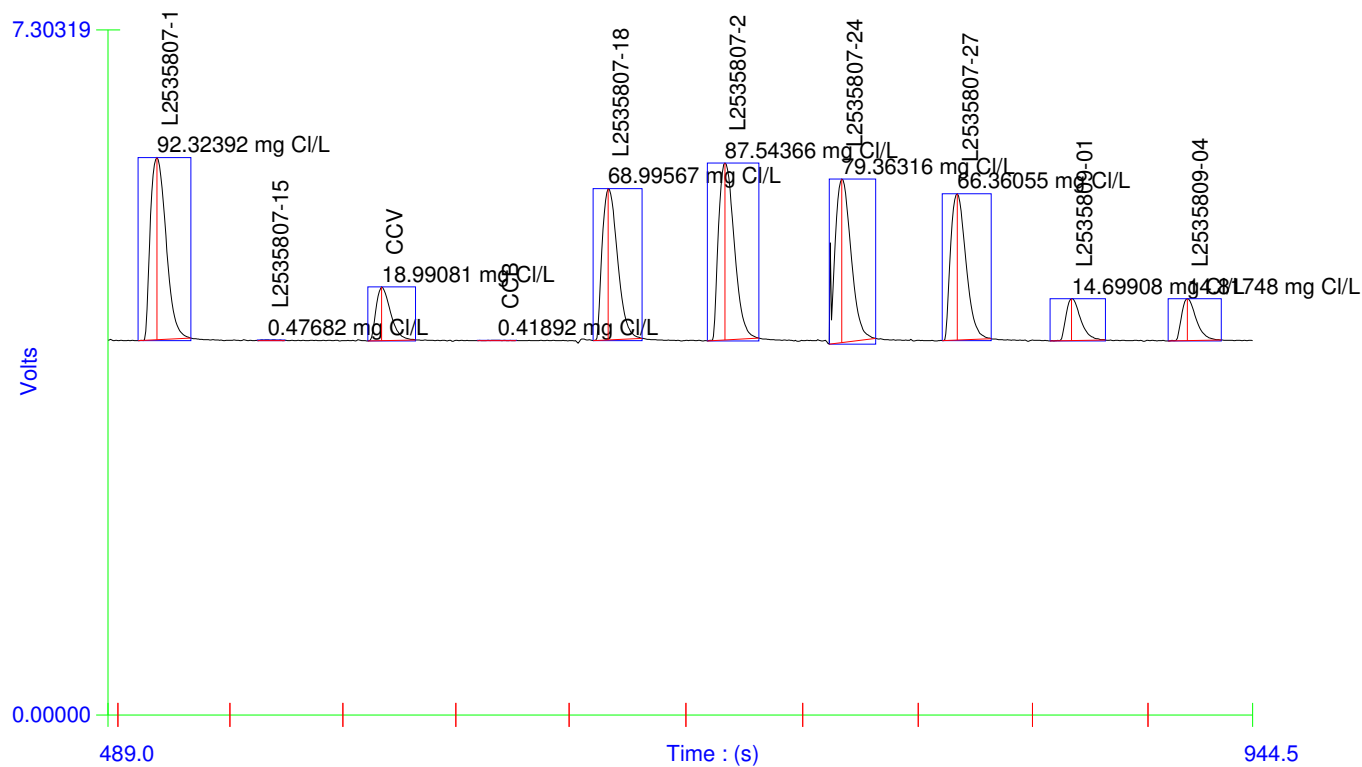
Channel 1 (Chloride) - Set: 1 / 5



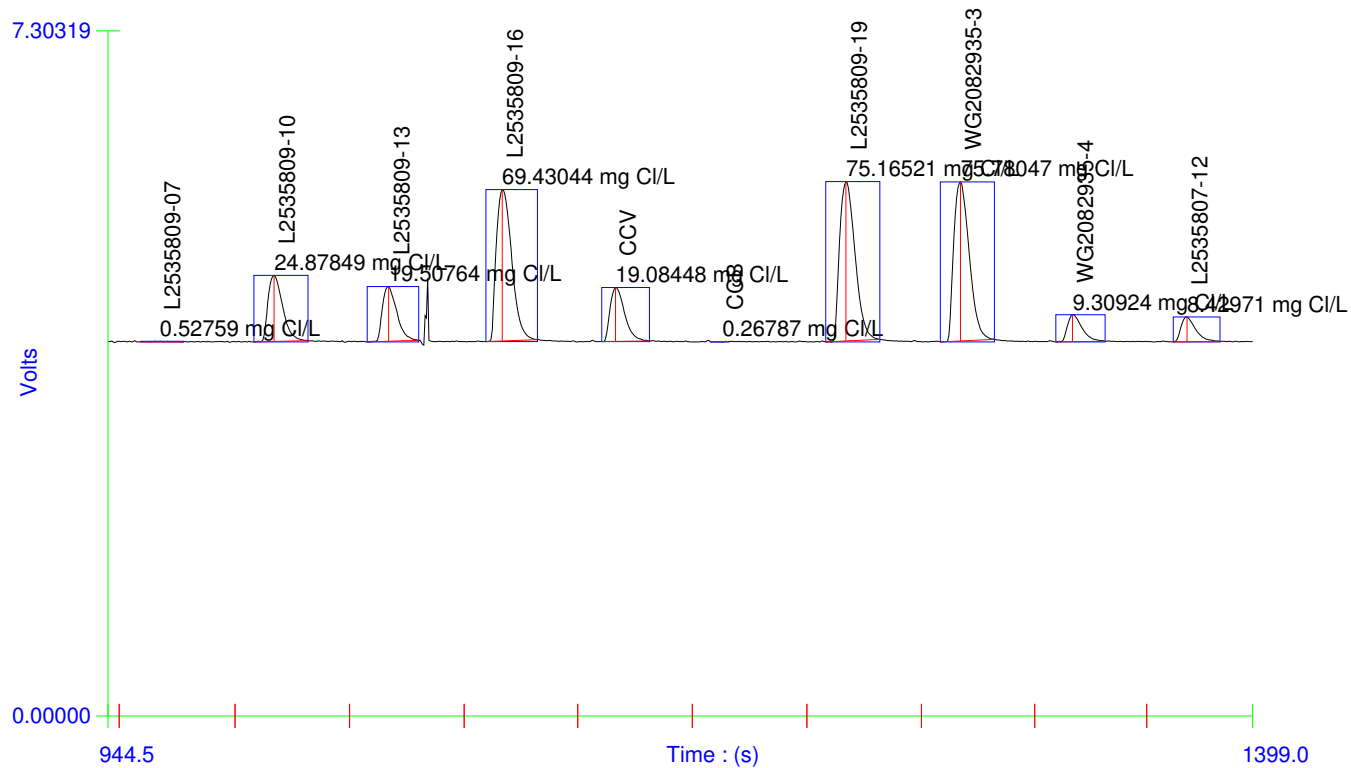
Author:

Date : 6/25/2025

Channel 1 (Chloride) - Set: 2 / 5



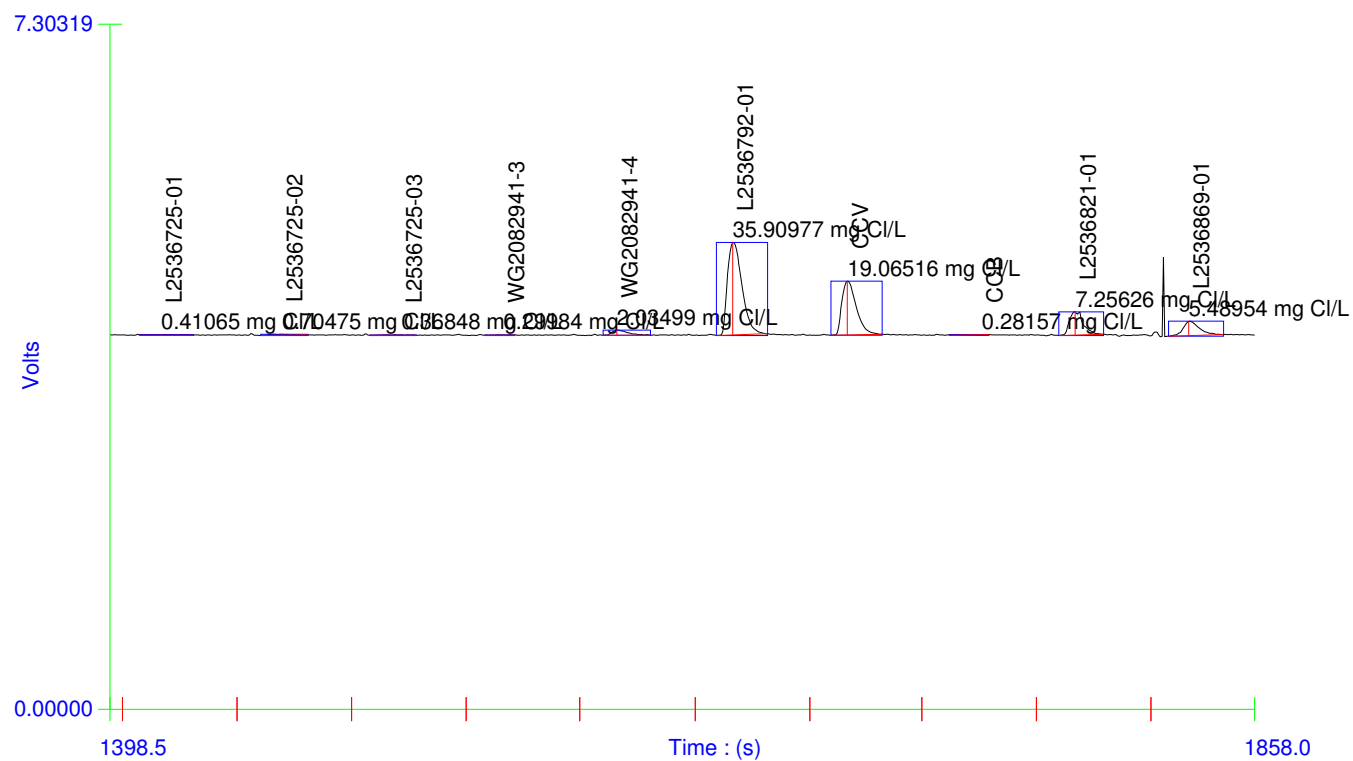
Channel 1 (Chloride) - Set: 3 / 5



Author:

Date : 6/25/2025

Channel 1 (Chloride) - Set: 4 / 5



Author:

Date : 6/25/2025

Channel 1 (Chloride) - Set: 5 / 5

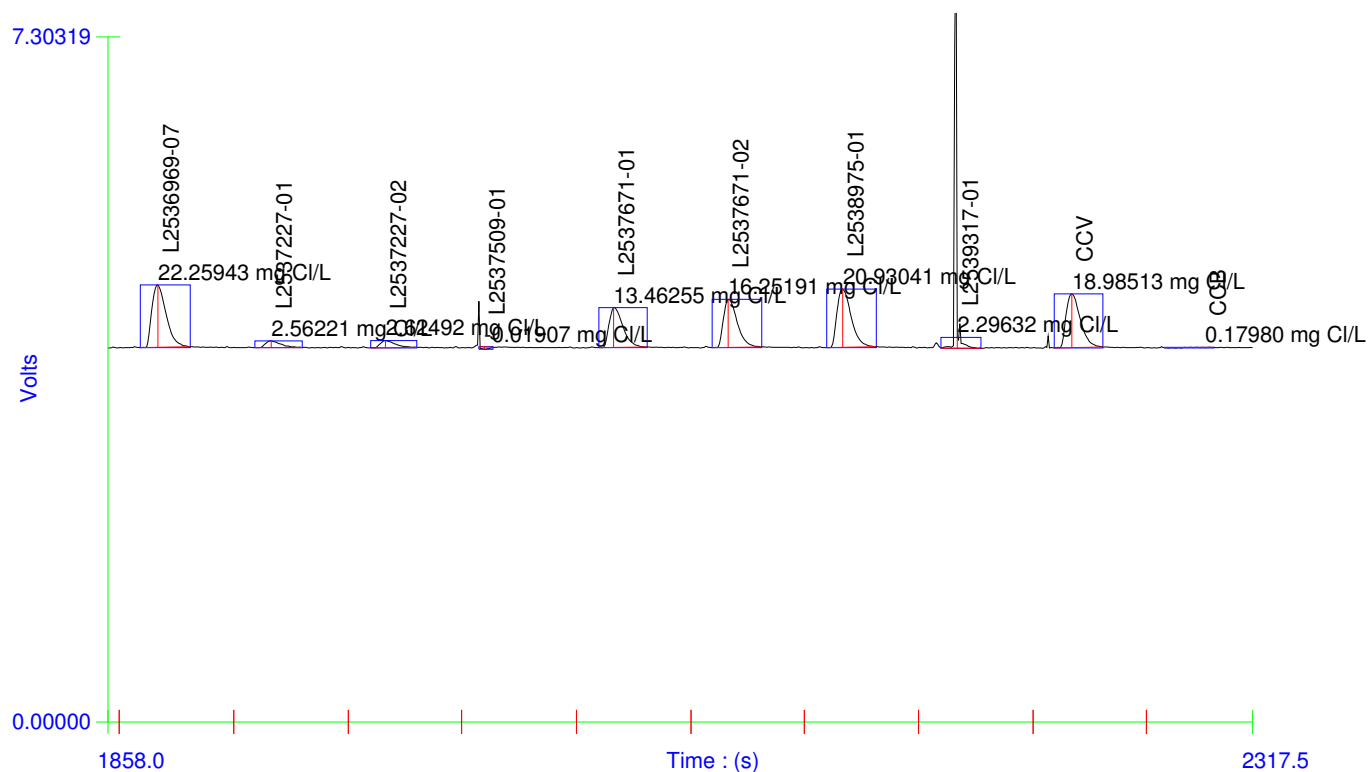
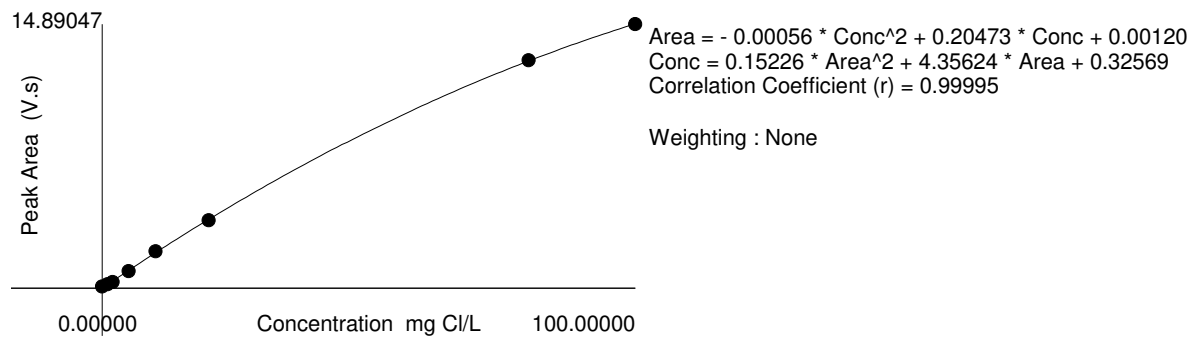


Table : 1 (Chloride-CH3)

	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	14.89047	2.03901	0.0	0.1	98.95296	6/24/2025	9:17:48 PM
2	80.00000	1	12.85401	1.79955	0.0	-0.3	81.47868	6/24/2025	9:18:34 PM
3	20.00000	1	3.82137	0.56964	0.0	1.3	19.19596	6/24/2025	9:19:20 PM
4	10.00000	1	2.06764	0.30948	0.0	-3.8	9.98377	6/24/2025	9:20:05 PM
5	5.00000	1	0.95442	0.14375	0.0	5.6	4.62208	6/24/2025	9:20:53 PM
6	2.00000	1	0.33612	0.05752	0.0	17.7	1.80711	6/24/2025	9:21:39 PM
7	1.00000	1	0.21565	0.02707	0.0	-5.0	1.27218	6/24/2025	9:22:26 PM
8	0.00000	1	0.08276	0.01556			0.68726	6/24/2025	9:23:10 PM

Figure : 1 (Chloride-CH3)



Author:

Date : 6/25/2025

Original Run Filename: OM_6-25-2025_01-16-51AM.OMN Created: 6/25/2025 1:16:51 AM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-25-2025_01-16-51AM.OMN Last Modified: 6/25/2025 2:51:39 AM

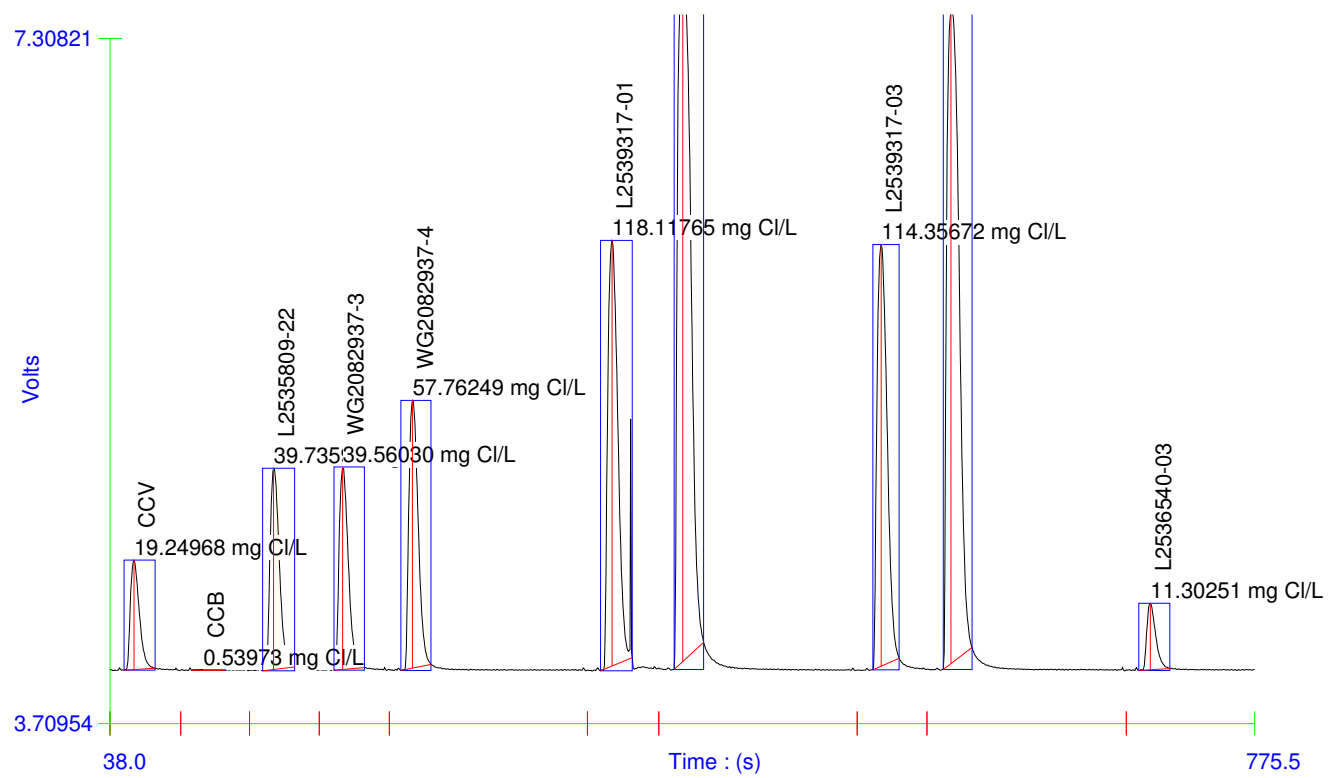
Current Run Author's Signature: [a1wetcheminstrument]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride- CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	19.24968			
Known Conc:			20.00000			
CCB	1	S9	0.53973			
Known Conc:			0.00000			
L2535809-22	1	43	39.73590			
WG2082937-3	1	44	39.56030			
WG2082937-4	1	45	57.76249			
L2539317-01	1	146	11811.76562	10.00	10.00	
L2539317-02	1	147	3419.62500		10.00	
L2539317-03	1	148	11435.67188	10.00	10.00	
Calibration: Table/Fig. : 1						
L2539317-04	1	149	2858.23877		10.00	
L2536540-03	1	153	113.02512	10.00		
WG2082947-5	1	154	112.71832	10.00		
WG2082947-6	1	155	126.88661	10.00		
CCV	1	S3	19.07812			
Known Conc:			20.00000			
CCB	1	S9	0.57140			
Known Conc:			0.00000			
L2536540-04	1	156	99.68674			
L2536540-05	1	157	68.70278			
L2536540-06	1	158	80.68041			
L2536540-07	1	159	69.12805			
L2536540-08	1	160	72.46521			
L2539317-01	1	146	11069.85156	100.00	10.00	
L2539317-02	1	147	7455.60645	10.00	10.00	
L2539317-03	1	148	10444.18359	100.00	10.00	
L2539317-04	1	149	5057.08789	10.00	10.00	
L2536810-01	1	161	16.45995	10.00		
CCV	1	S3	19.14029			
Known Conc:			20.00000			
CCB	1	S9	0.47383			
Known Conc:			0.00000			
L2536810-01	1	161	15.40807			
WG2082947-3	1	162	15.77867			
WG2082947-4	1	163	36.37005			
L2536810-02	1	164	15.32161			
L2536810-03	1	165	33.24099			
L2536810-04	1	166	17.28898			
L2536810-05	1	167	48.53565			
L2536810-06	1	168	61.82831			
L2536810-07	1	169	156.49016			
L2536810-08	1	170	36.13319			
CCV	1	S3	18.94780			
Known Conc:			20.00000			
CCB	1	S9	0.34765			
Known Conc:			0.00000			
L2536810-09	1	171	0.33044			
L2536810-11	1	172	25.79978			
L2536810-12	1	173	19.32102			
L2536810-13	1	174	7.46168			
L2536810-14	1	175	45.02032			
L2535819-16	1	61	143.42073		10.00	
L2535819-19	1	62	100.09169		10.00	
L2535819-22	1	63	55.08719			
L2535822-15	1	78	0.75859			
L2535822-18	1	79	119.28997		10.00	
CCV	1	S3	19.28921			

	Known Conc:		20.00000		
CCB	1	S9	0.20050		
	Known Conc:		0.00000		
L2535822-21	1	80	125.40733	10.00	
L2535822-24	1	81	132.09399	10.00	
L2535822-15	1	78	0.35230		
L2537391-01	1	82	326.90195	25.00	
L2535814-06	1	48	94.40754	10.00	
L2535814-09	1	49	23.12793		
L2535814-18	1	52	99.82184	10.00	
L2535814-21	1	53	96.84342	10.00	
L2535814-24	1	54	50.93859		
L2536185-01	1	176	129.34026	10.00	
CCV	1	S3	18.95004		
	Known Conc:		20.00000		
CCB	1	S9	0.21406		
	Known Conc:		0.00000		
WG2082948-3	1	177	129.43063	10.00	
WG2082948-4	1	178	140.24168	10.00	
L2536185-04	1	179	7.98973	10.00	
L2536185-05	1	180	102.90475	10.00	
L2536185-06	1	1	2.46112	10.00	
L2536185-06	1	1	95.89176	10.00	
L2536614-01	1	2	97.61888	10.00	
L2536614-02	1	3	23.41562	10.00	
L2536614-03	1	4	199.87718	10.00	
L2537053-01	1	5	137.12042	10.00	
CCV	1	S3	19.43788		
	Known Conc:		20.00000		
CCB	1	S9	0.25005		
	Known Conc:		0.00000		
L2537053-02	1	6	86.87723	10.00	
L2537053-03	1	7	196.87706	10.00	
L2536268-02	1	27	60.27300	10.00	
WG2082950-3	1	28	58.16051	10.00	
WG2082950-4	1	29	82.49406	10.00	
L2536268-03	1	30	64.98016	10.00	
L2536268-04	1	31	3.26890	10.00	
L2536268-08	1	32	0.46266		
L2536268-09	1	33	80.47943	10.00	
L2536268-10	1	34	193.74335	10.00	
CCV	1	S3	19.10997		
	Known Conc:		20.00000		
CCB	1	S9	0.40209		
	Known Conc:		0.00000		
L2536730-01	1	35	103.98854	10.00	
WG2082950-5	1	36	103.72131	10.00	
WG2082950-6	1	37	116.59506	10.00	
L2536730-02	1	38	109.09291	10.00	
L2536730-03	1	39	142.92368	10.00	
L2536730-04	1	40	0.41538		
L2539470-01	1	150	3.93399		
L2539470-02	1	151	1.78293		
L2539470-03	1	152	2.46478		
L2536540-04	1	156	95.46268	10.00	
CCV	1	S3	19.53240		
	Known Conc:		20.00000		
CCB	1	S9	0.49830		
	Known Conc:		0.00000		
L2536540-04	1	156	101.44133	10.00	
L2536540-05	1	157	68.38285		
L2536810-07	1	169	185.32866	10.00	
L2536810-08	1	170	35.48009		
CCV	1	S3	19.30441		
	Known Conc:		20.00000		
CCB	1	S9	0.81877		
	Known Conc:		0.00000		

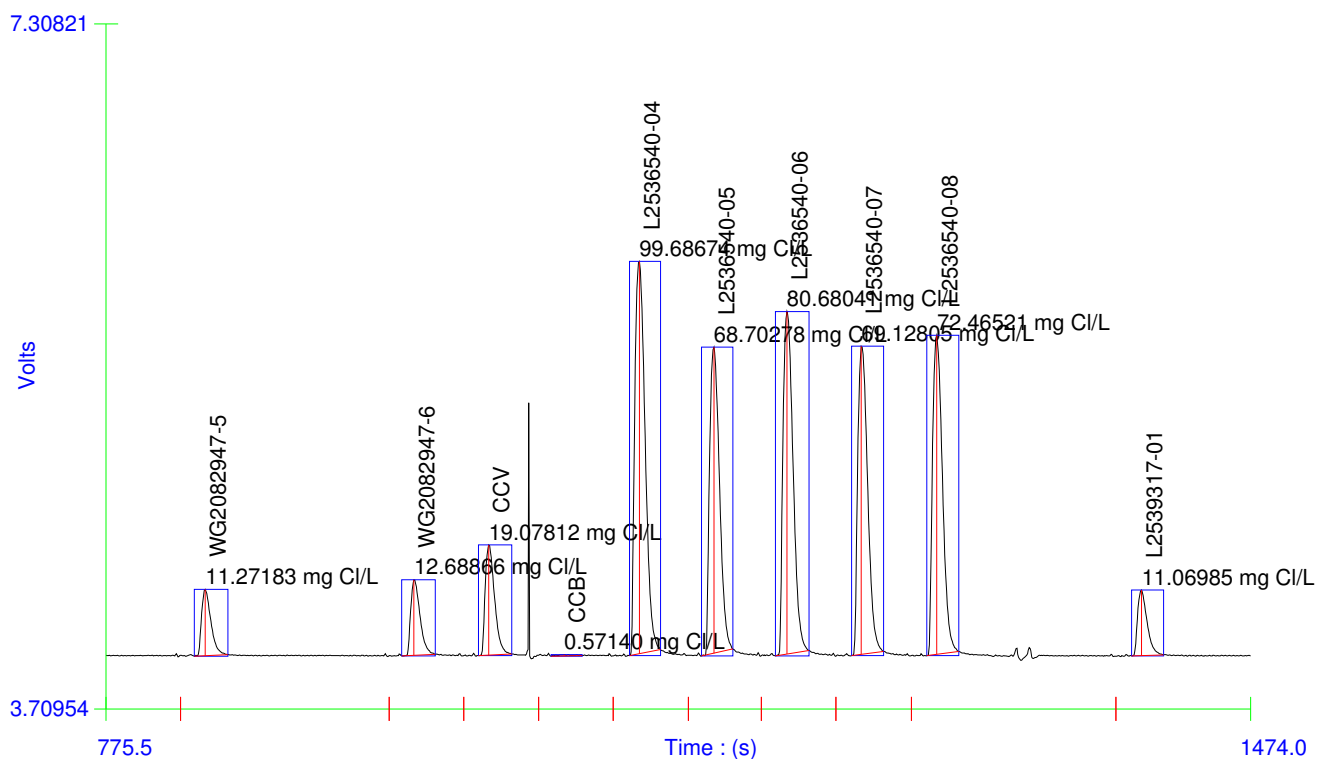
Channel 1 (Chloride) - Set: 1 / 11



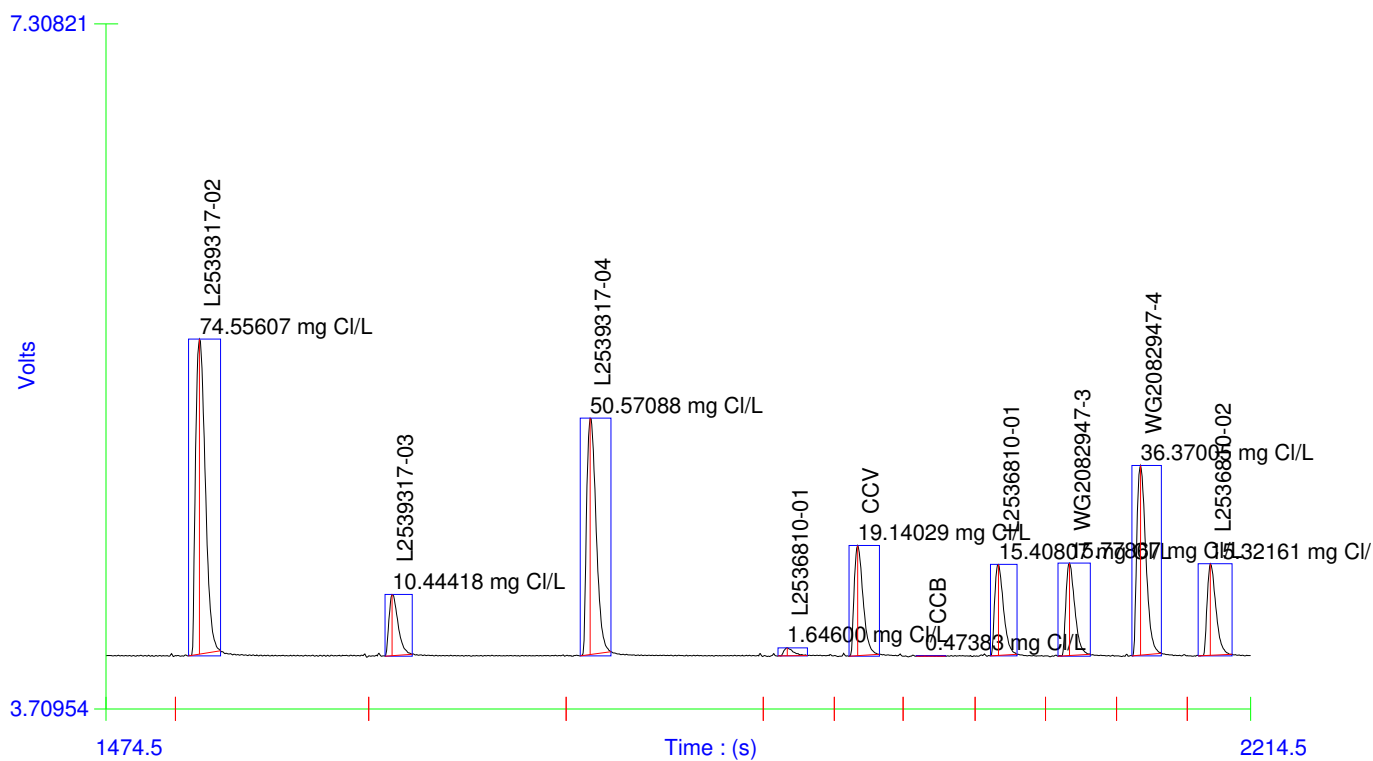
Author:

Date : 6/25/2025

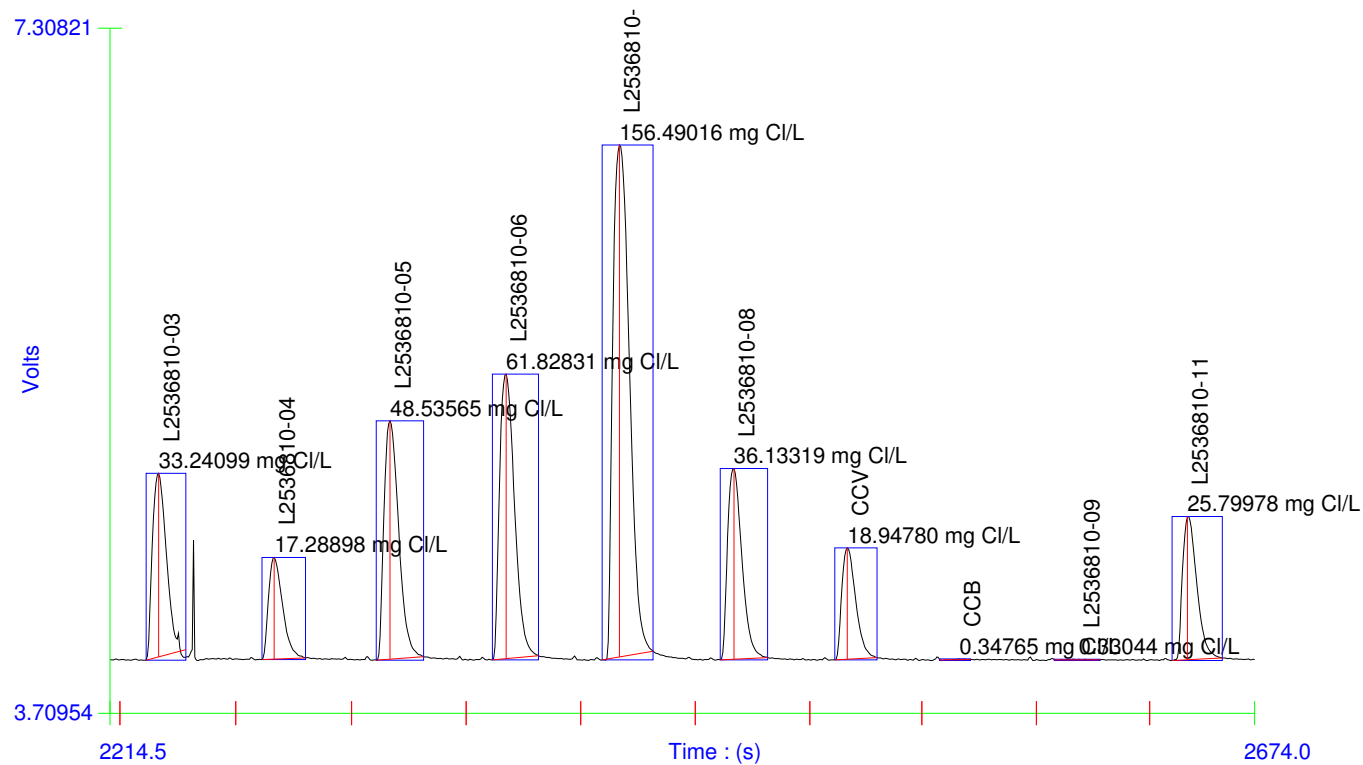
Channel 1 (Chloride) - Set: 2 / 11



Channel 1 (Chloride) - Set: 3 / 11



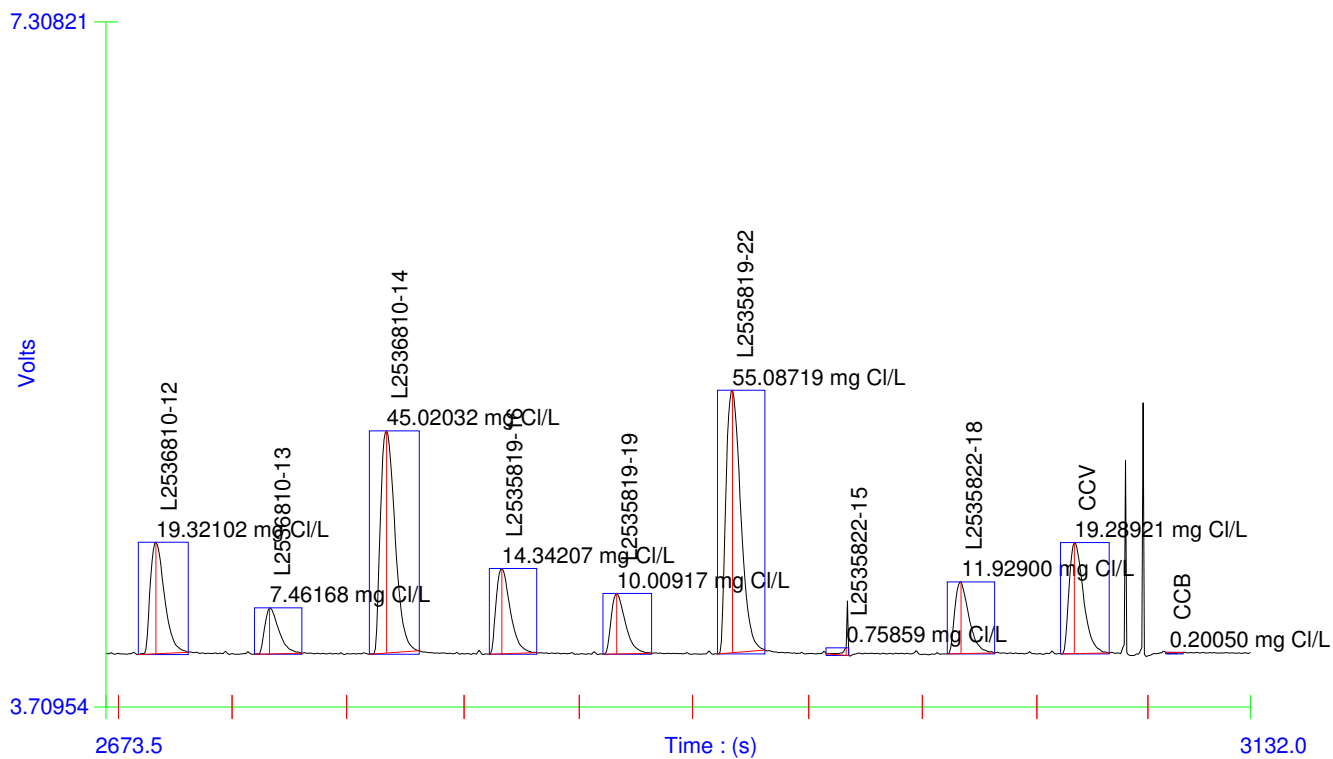
Channel 1 (Chloride) - Set: 4 / 11



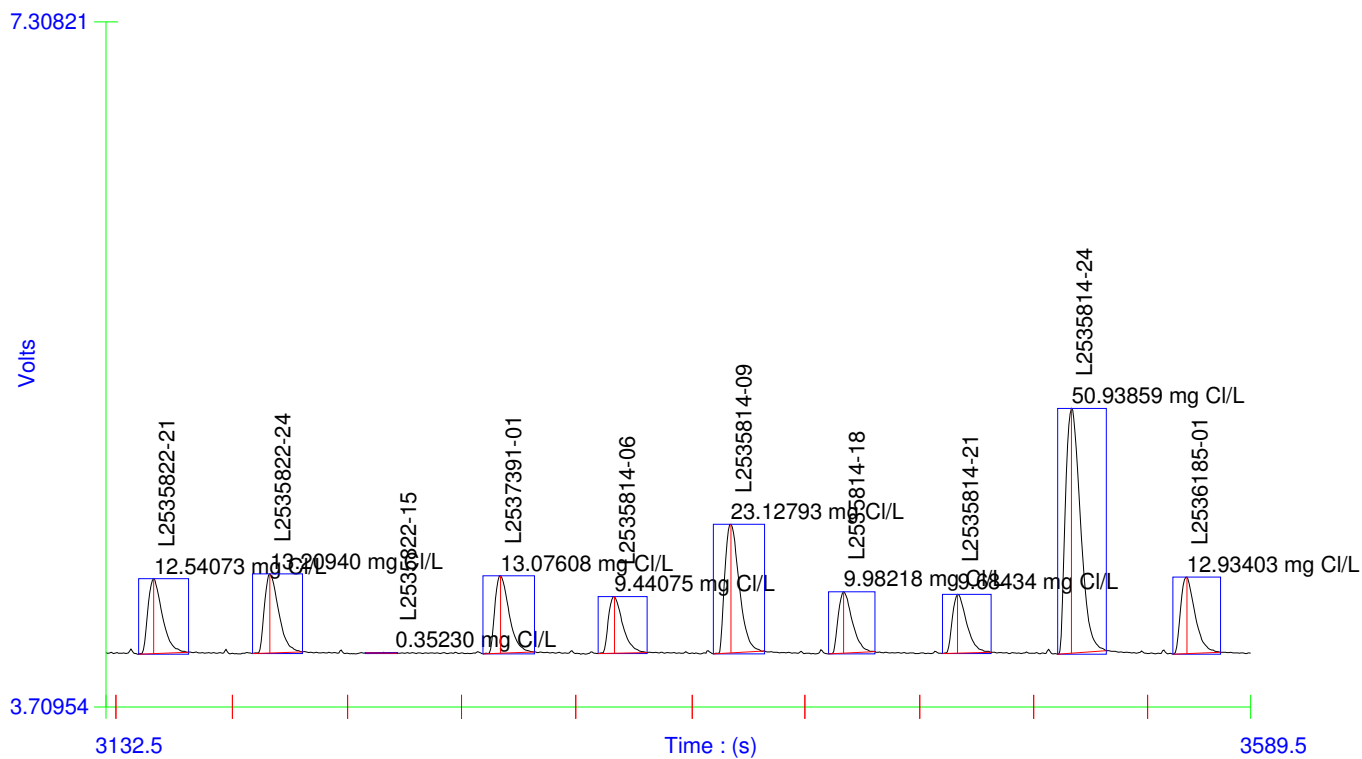
Author:

Date : 6/25/2025

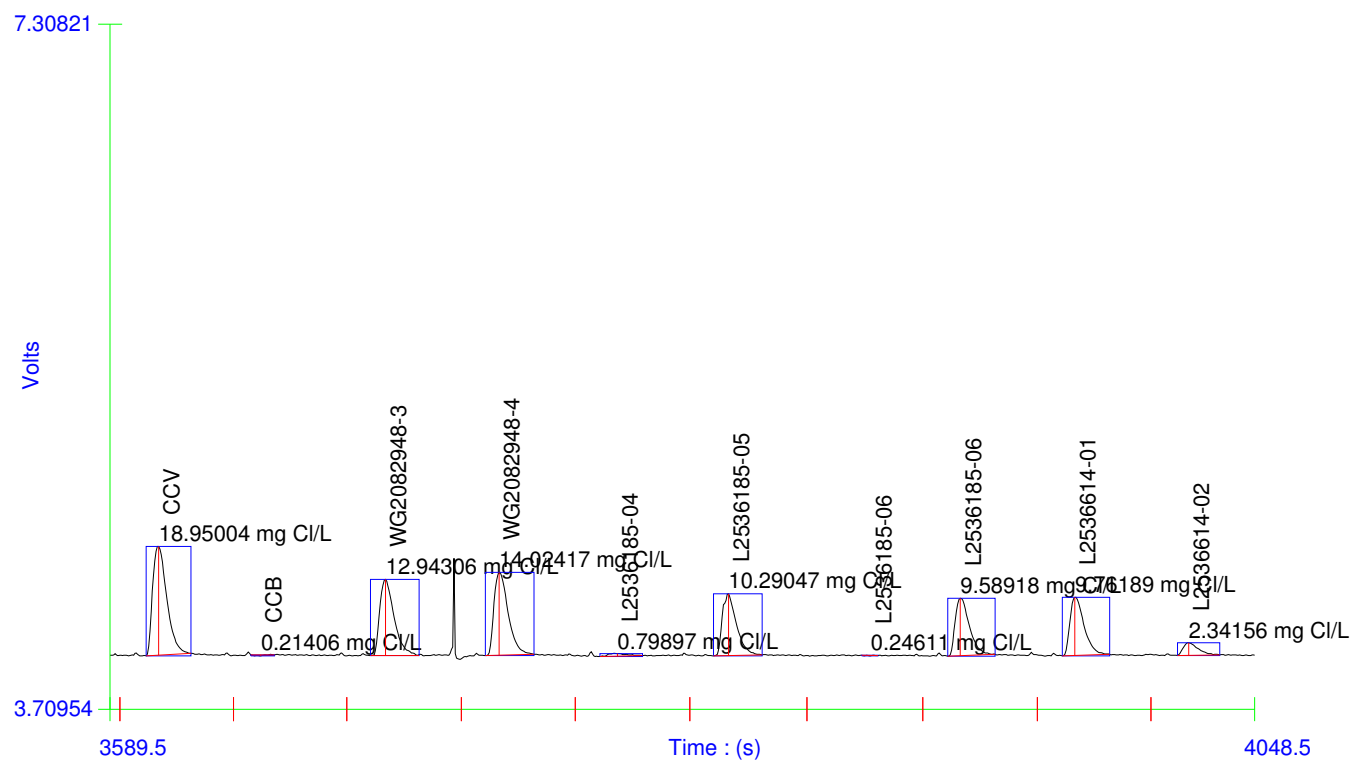
Channel 1 (Chloride) - Set: 5 / 11



Channel 1 (Chloride) - Set: 6 / 11



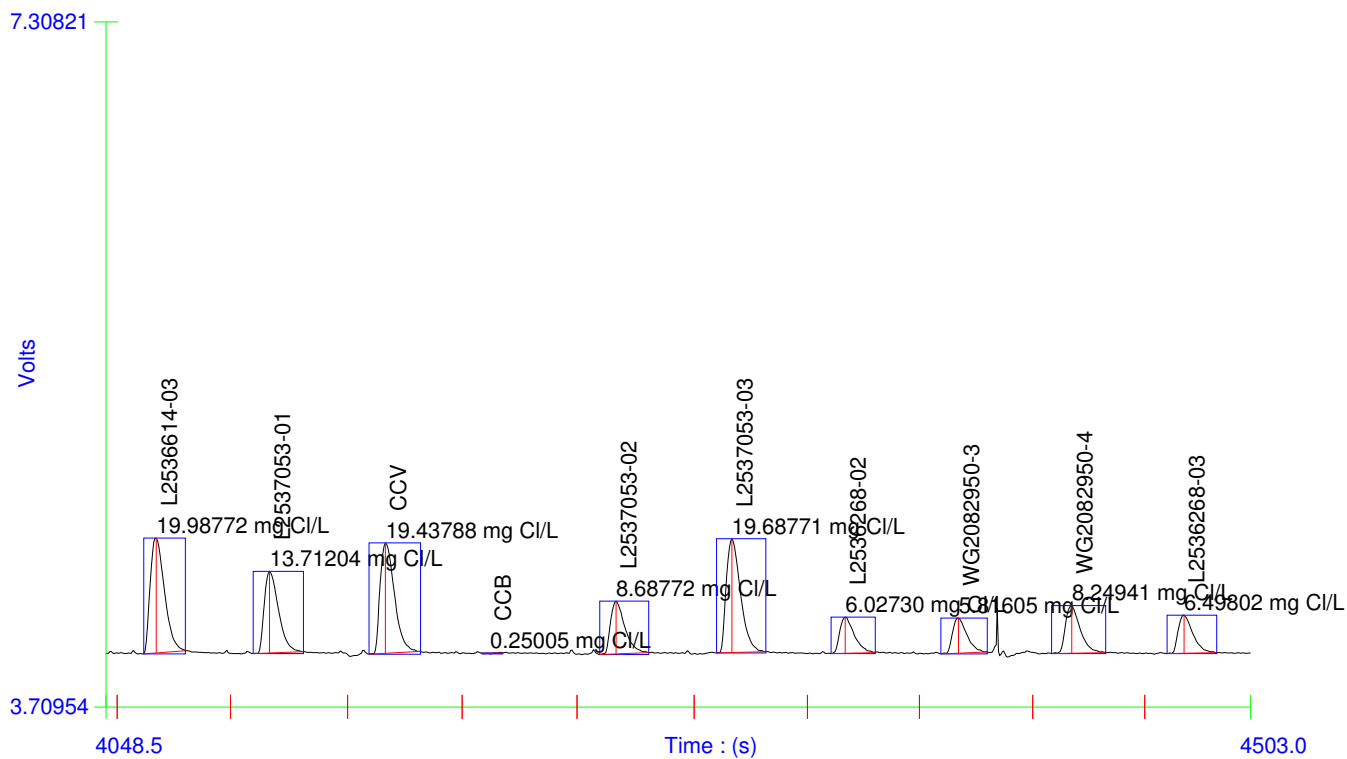
Channel 1 (Chloride) - Set: 7 / 11



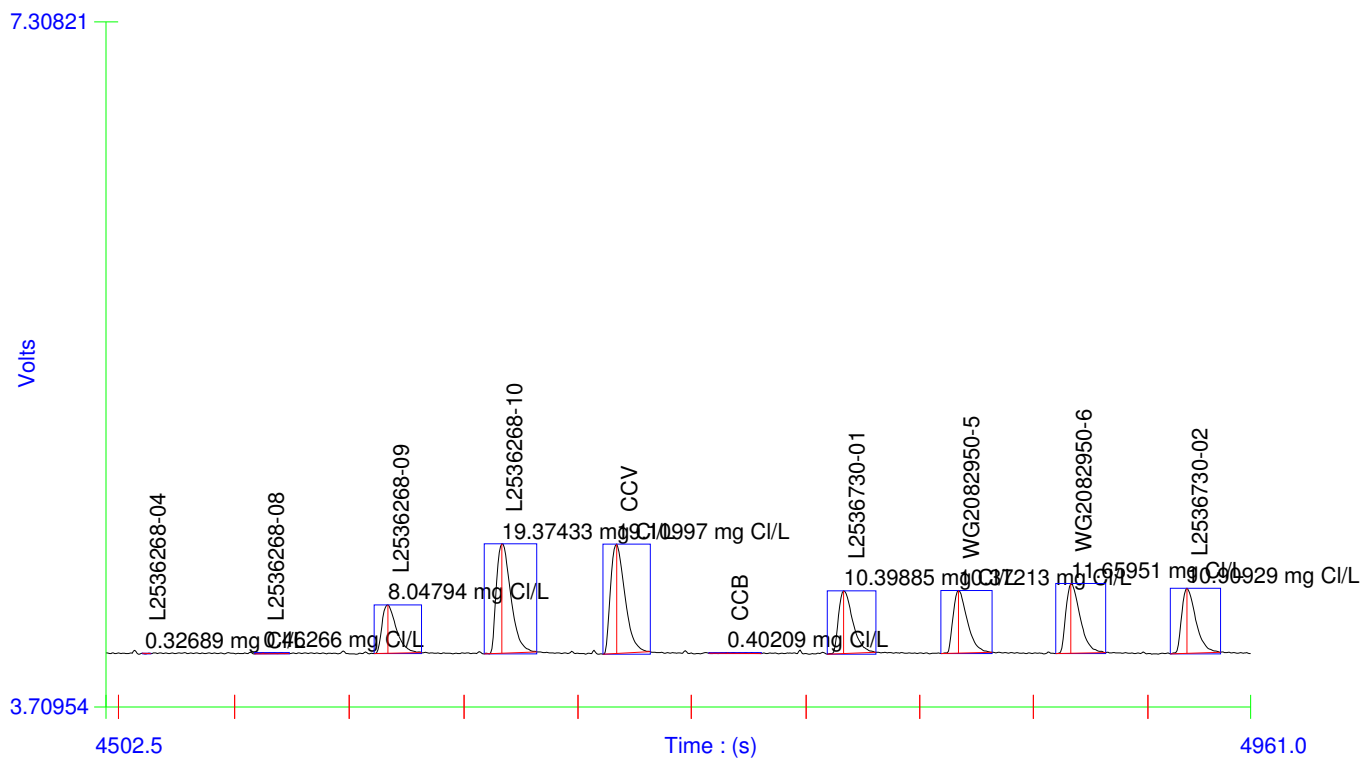
Author:

Date : 6/25/2025

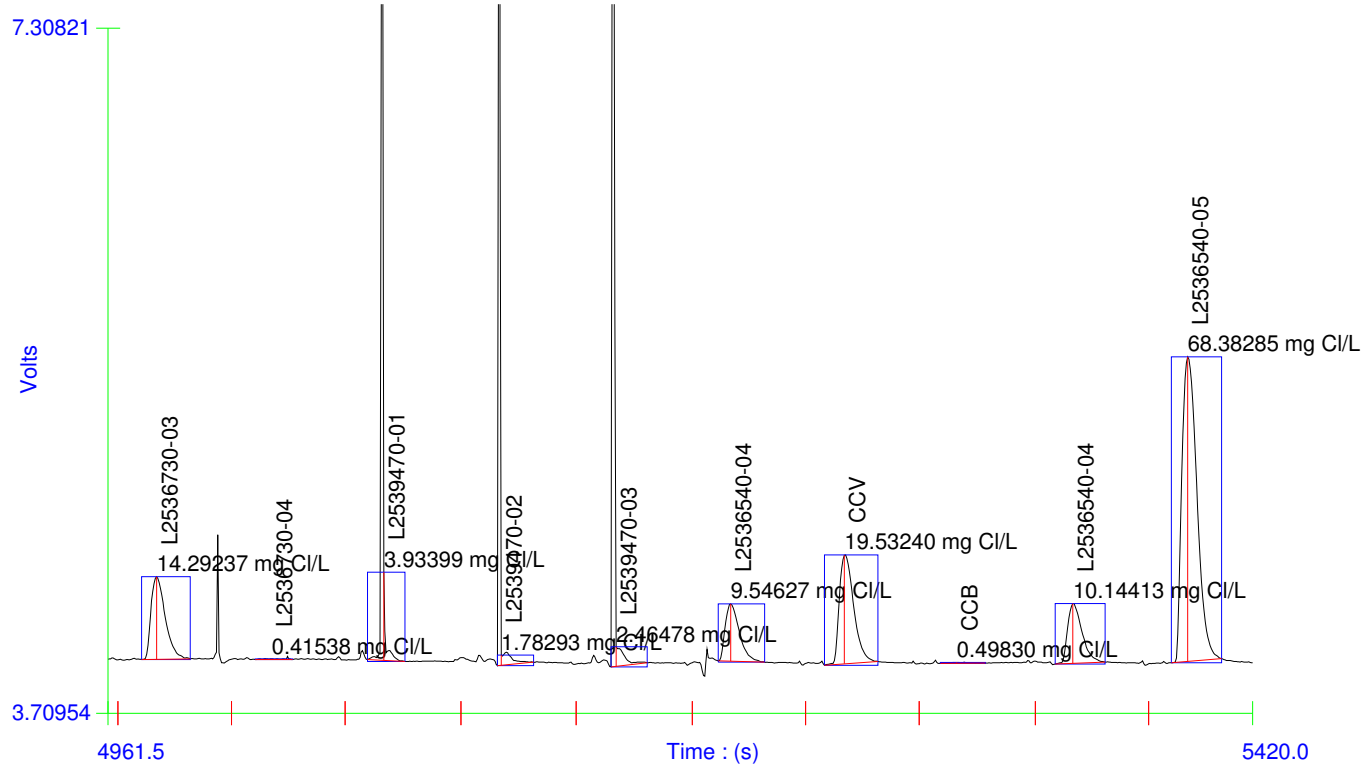
Channel 1 (Chloride) - Set: 8 / 11



Channel 1 (Chloride) - Set: 9 / 11



Channel 1 (Chloride) - Set: 10 / 11



Channel 1 (Chloride) - Set: 11 / 11

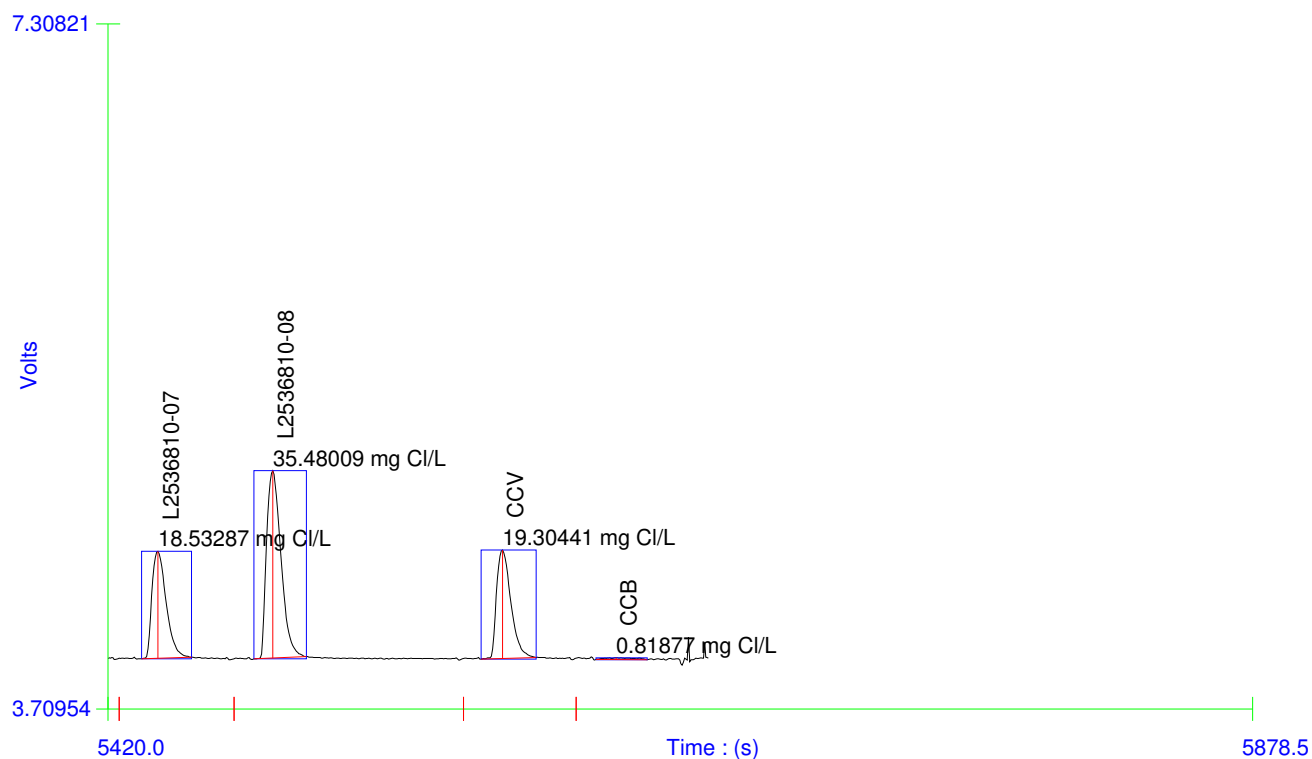
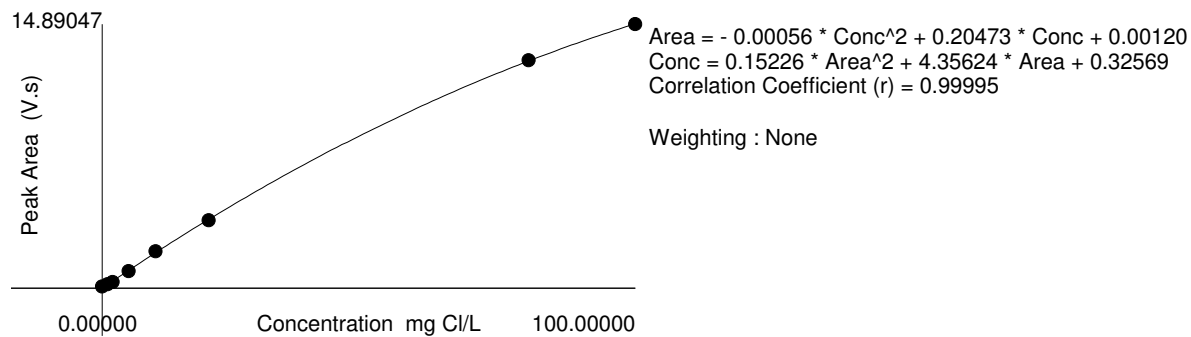


Table : 1 (Chloride-CH3)

	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	14.89047	2.03901	0.0	0.1	98.95296	6/24/2025	9:17:48 PM
2	80.00000	1	12.85401	1.79955	0.0	-0.3	81.47868	6/24/2025	9:18:34 PM
3	20.00000	1	3.82137	0.56964	0.0	1.3	19.19596	6/24/2025	9:19:20 PM
4	10.00000	1	2.06764	0.30948	0.0	-3.8	9.98377	6/24/2025	9:20:05 PM
5	5.00000	1	0.95442	0.14375	0.0	5.6	4.62208	6/24/2025	9:20:53 PM
6	2.00000	1	0.33612	0.05752	0.0	17.7	1.80711	6/24/2025	9:21:39 PM
7	1.00000	1	0.21565	0.02707	0.0	-5.0	1.27218	6/24/2025	9:22:26 PM
8	0.00000	1	0.08276	0.01556			0.68726	6/24/2025	9:23:10 PM

Figure : 1 (Chloride-CH3)



Author:

Date : 6/25/2025

Original Run Filename: OM_6-25-2025_03-11-26AM.OMN Created: 6/25/2025 3:11:26 AM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-25-2025_03-11-26AM.OMN Last Modified: 6/25/2025 4:07:49 AM

Current Run Author's Signature: [a1wetcheminstrument]

Description: Default New Run

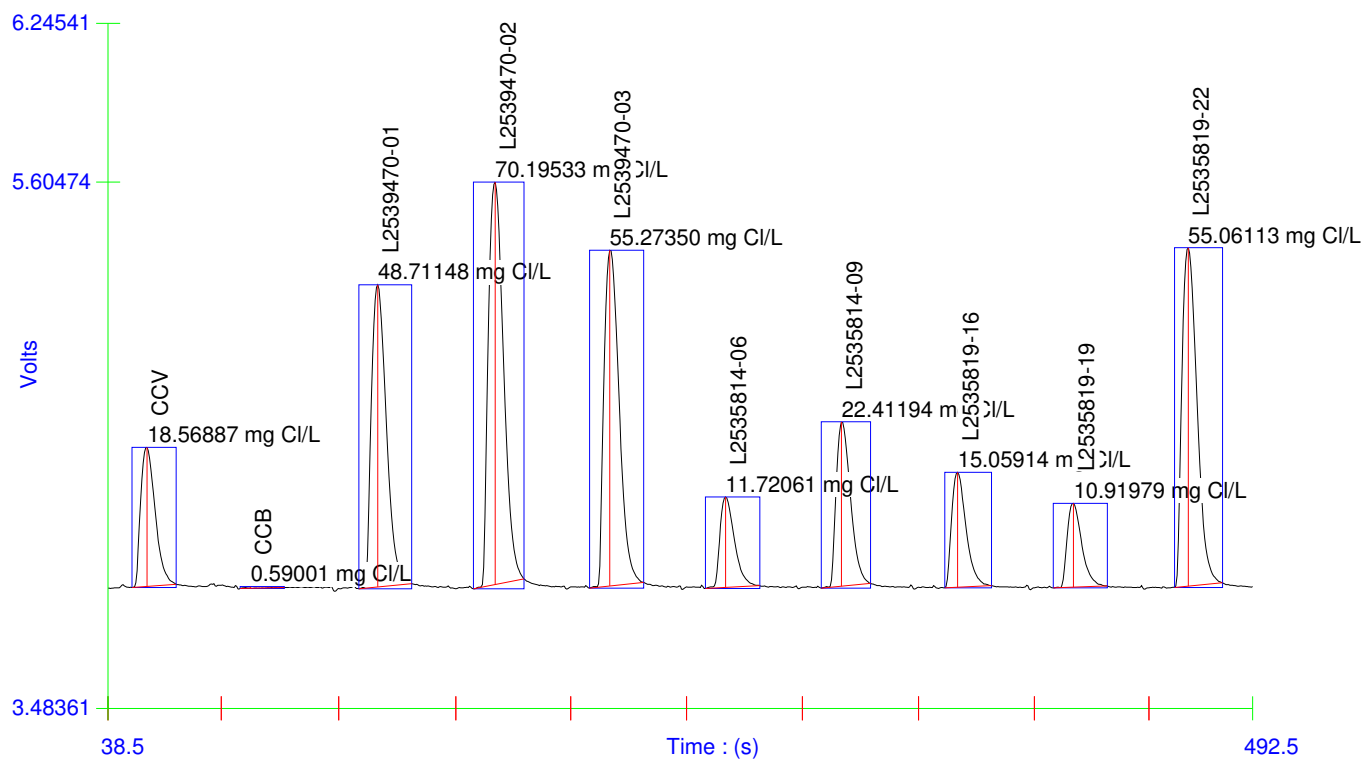
Sample	Rep.	Cup No.	Channel 1 Chloride- CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	18.56887			
Known Conc:			20.00000			
CCB	1	S9	0.59001			
Known Conc:			0.00000			
Calibration:			Table/Fig. : 1			
L2539470-01	1	1	487.11481		10.00	
L2539470-02	1	2	701.95325		10.00	
L2539470-03	1	3	552.73499		10.00	
L2535814-06	1	4	117.20612		10.00	
L2535814-09	1	5	22.41194			
L2535819-16	1	6	150.59142		10.00	
L2535819-19	1	7	109.19791		10.00	
L2535819-22	1	8	55.06113			
L2535807-09	1	9	91.87846		10.00	
L2535807-12	1	10	90.68568		10.00	
CCV	1	S3	18.98730			
Known Conc:			20.00000			
CCB	1	S9	0.47364			
Known Conc:			0.00000			
L2535807-15	1	11	0.32260			
L2536725-01	1	12	0.58924			
L2536725-02	1	13	2.53387			
L2536725-03	1	14	0.69955			
WG2082941-3	1	15	0.61355			
WG2082941-4	1	16	21.20778			
L2537227-01	1	17	27.63190			
L2537227-02	1	18	27.11376			
L2537509-01	1	19	1.65226			
L2535822-18	1	20	130.38080		10.00	
CCV	1	S3	18.90204			
Known Conc:			20.00000			
CCB	1	S9	0.57505			
Known Conc:			0.00000			
L2535822-21	1	21	205.39902		10.00	
L2535822-24	1	22	184.24661		10.00	
L2537391-01	1	23	455.39075		10.00	
L2536247-12	1	24	26.66762			
WG2082940-3	1	25	26.85111			
WG2082940-4	1	26	45.35163			
L2536247-13	1	27	14.52584			
L2536247-16	1	28	17.08991			
L2536247-17	1	29	17.14944			
L2536345-01	1	30	60.72635			
CCV	1	S3	18.89715			
Known Conc:			20.00000			
CCB	1	S9	0.58079			
Known Conc:			0.00000			
L2536345-02	1	31	59.66715			
L2536345-04	1	32	63.17401			
L2536345-06	1	33	64.67197			
L2536572-04	1	34	44.42178			
L2536572-07	1	35	11.22684			
L2536572-08	1	36	10.35202			
L2536572-09	1	37	13.07544			
WG2082944-5	1	38	13.42076			
WG2082944-6	1	39	31.16973			
L2538013-01	1	40	7.18255	10.00		
CCV	1	S3	19.08654			

Author:

Date : 6/25/2025

	Known Conc:	20.00000			
CCB	1	S9	0.63894		
	Known Conc:	0.00000			
WG2083092-3	1	41	3.04492		
WG2083092-4	1	42	23.01705		
L2538013-02	1	43	26.64984		
L2538013-03	1	44	26.63838		
L2538013-04	1	45	21.17197		
L2538013-05	1	46	12.99816		
L2538013-06	1	47	17.50341		
L2538013-07	1	48	17.48897		
WG2083092-1	1	49	0.57002		
WG2083092-2	1	50	28.55059		
CCV	1	S3	18.90782		
	Known Conc:	20.00000			
CCB	1	S9	0.53545		
	Known Conc:	0.00000			
L2537655-01	1	51	3.56205		
L2537655-02	1	52	13.25866		
L2537655-03	1	53	0.88728		
L2537655-04	1	54	9.49825		
L2537655-05	1	55	5.79039		
L2538013-01	1	40	2.89572		
CCV	1	S3	18.57691		
	Known Conc:	20.00000			
CCB	1	S9	0.63519		
	Known Conc:	0.00000			

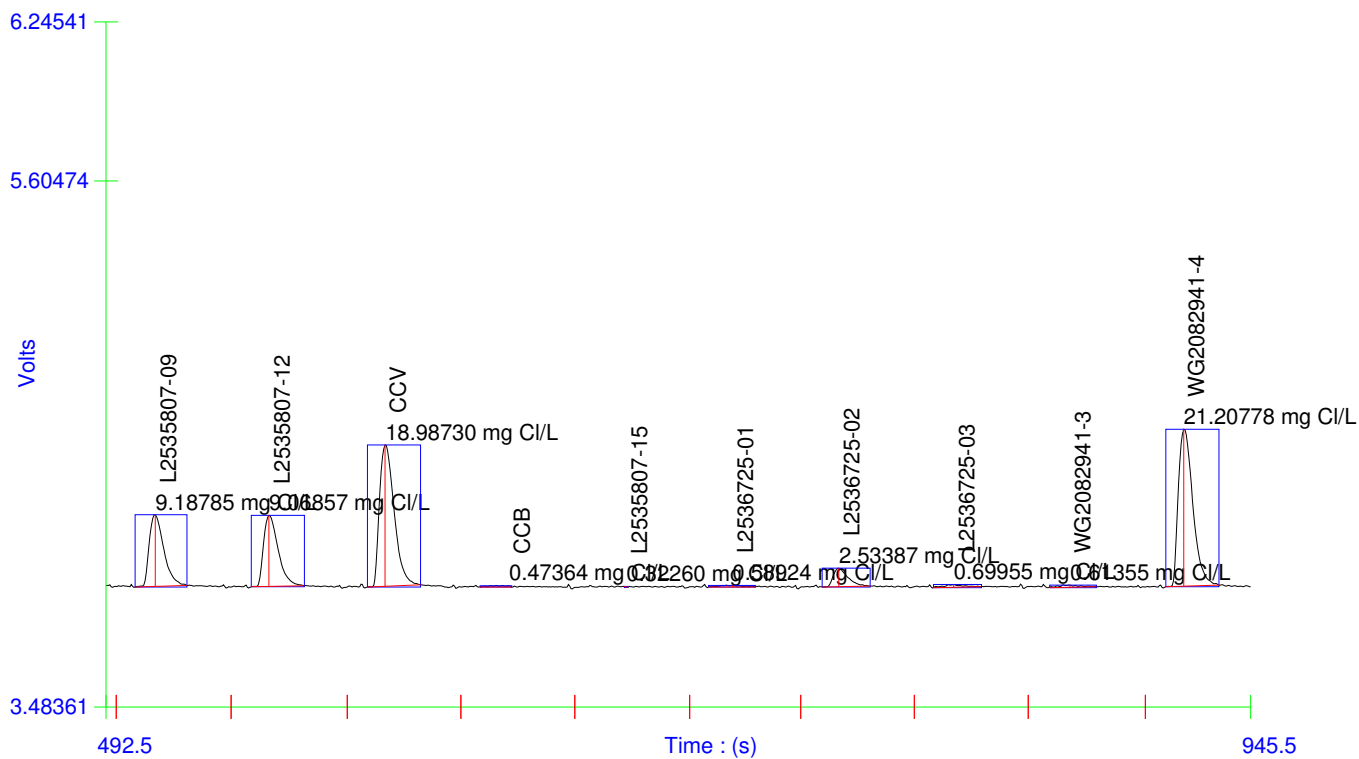
Channel 1 (Chloride) - Set: 1 / 7



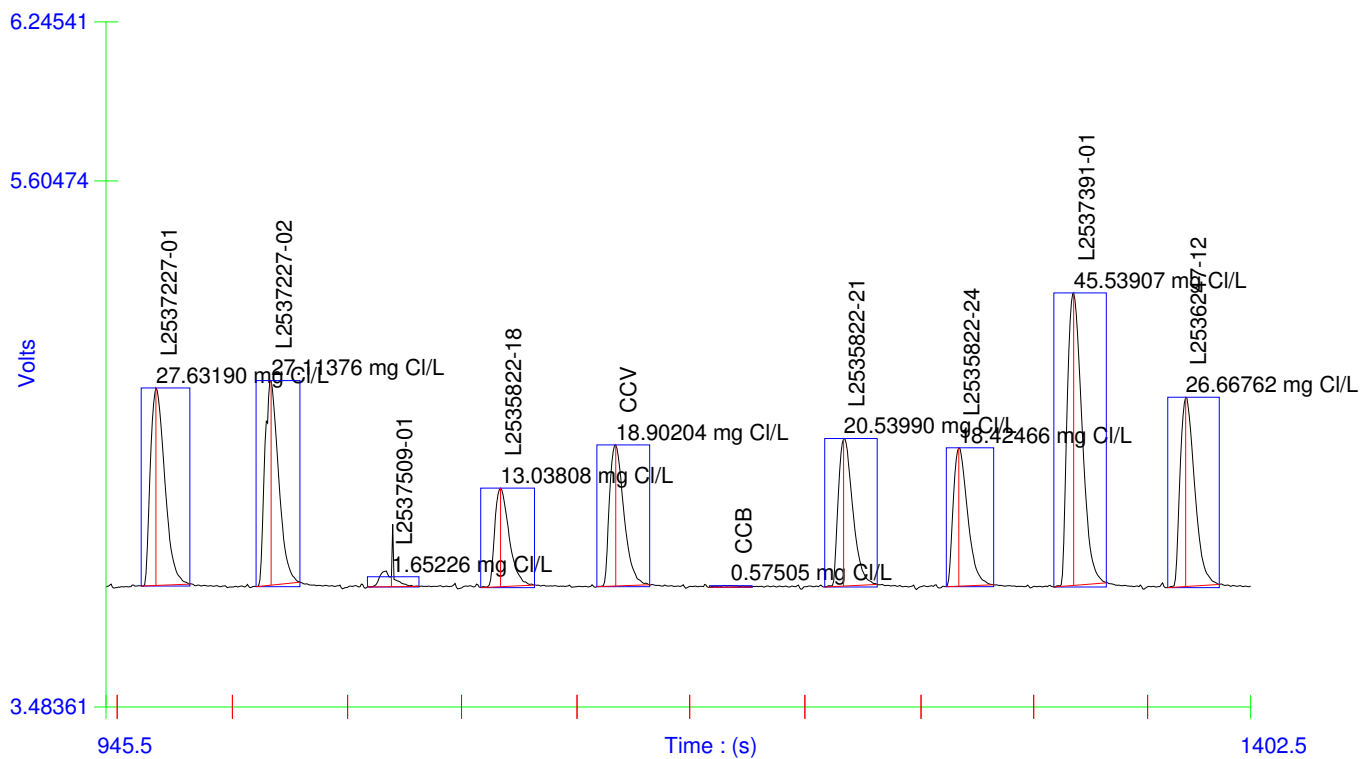
Author:

Date : 6/25/2025

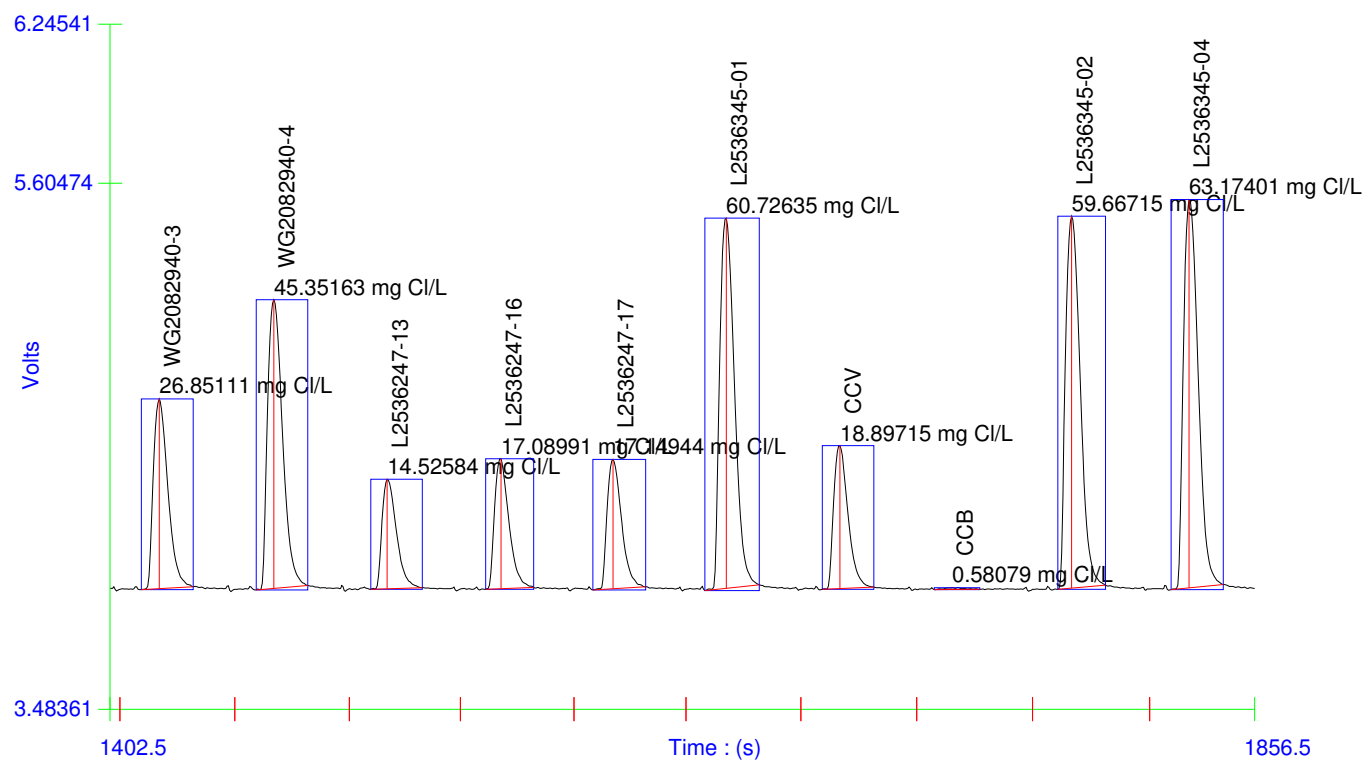
Channel 1 (Chloride) - Set: 2 / 7



Channel 1 (Chloride) - Set: 3 / 7



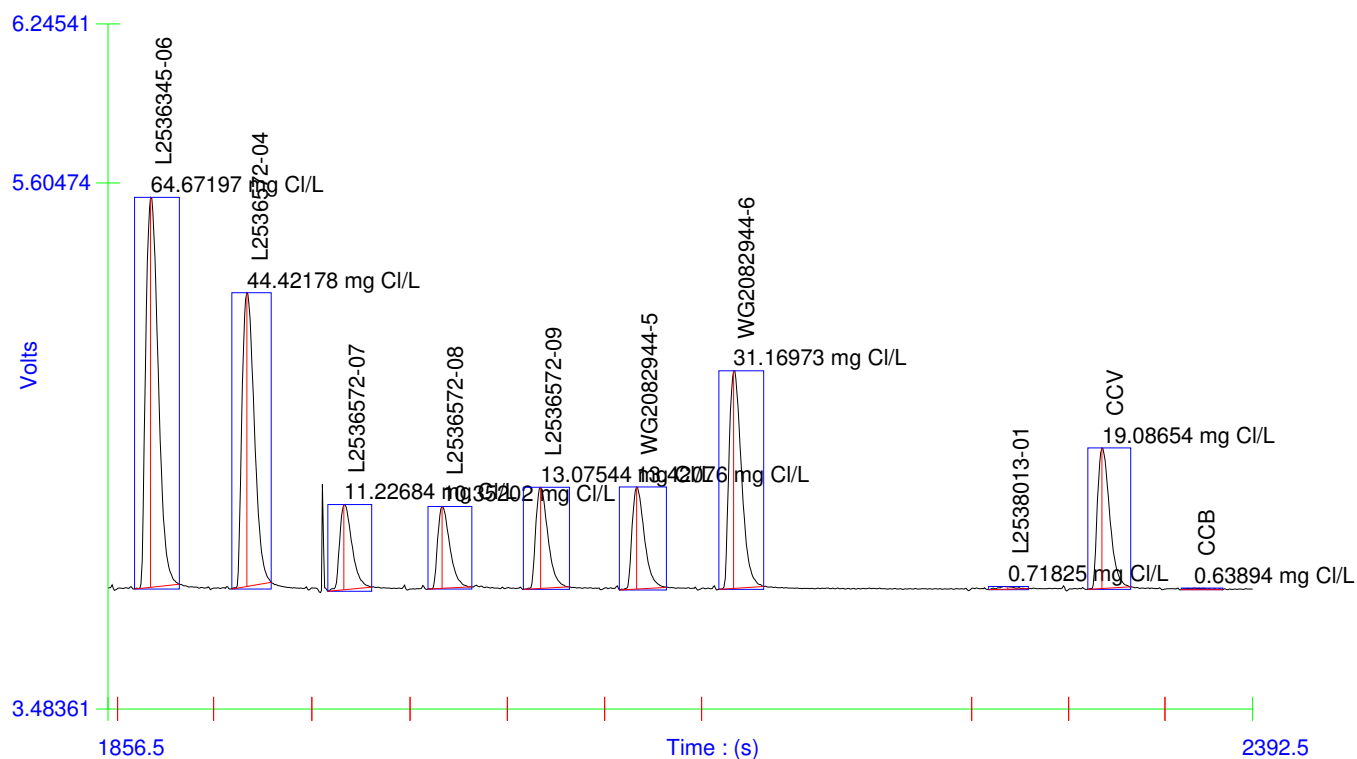
Channel 1 (Chloride) - Set: 4 / 7



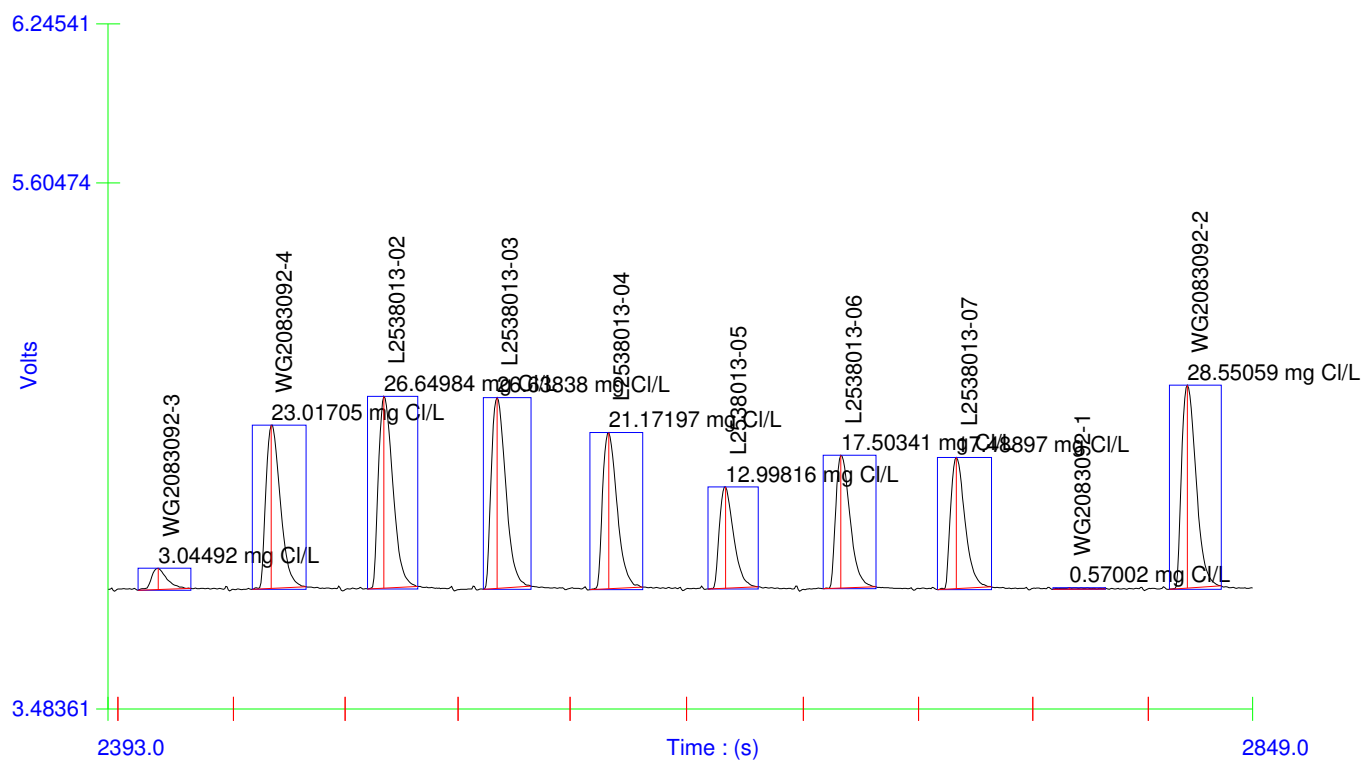
Author:

Date : 6/25/2025

Channel 1 (Chloride) - Set: 5 / 7



Channel 1 (Chloride) - Set: 6 / 7



Channel 1 (Chloride) - Set: 7 / 7

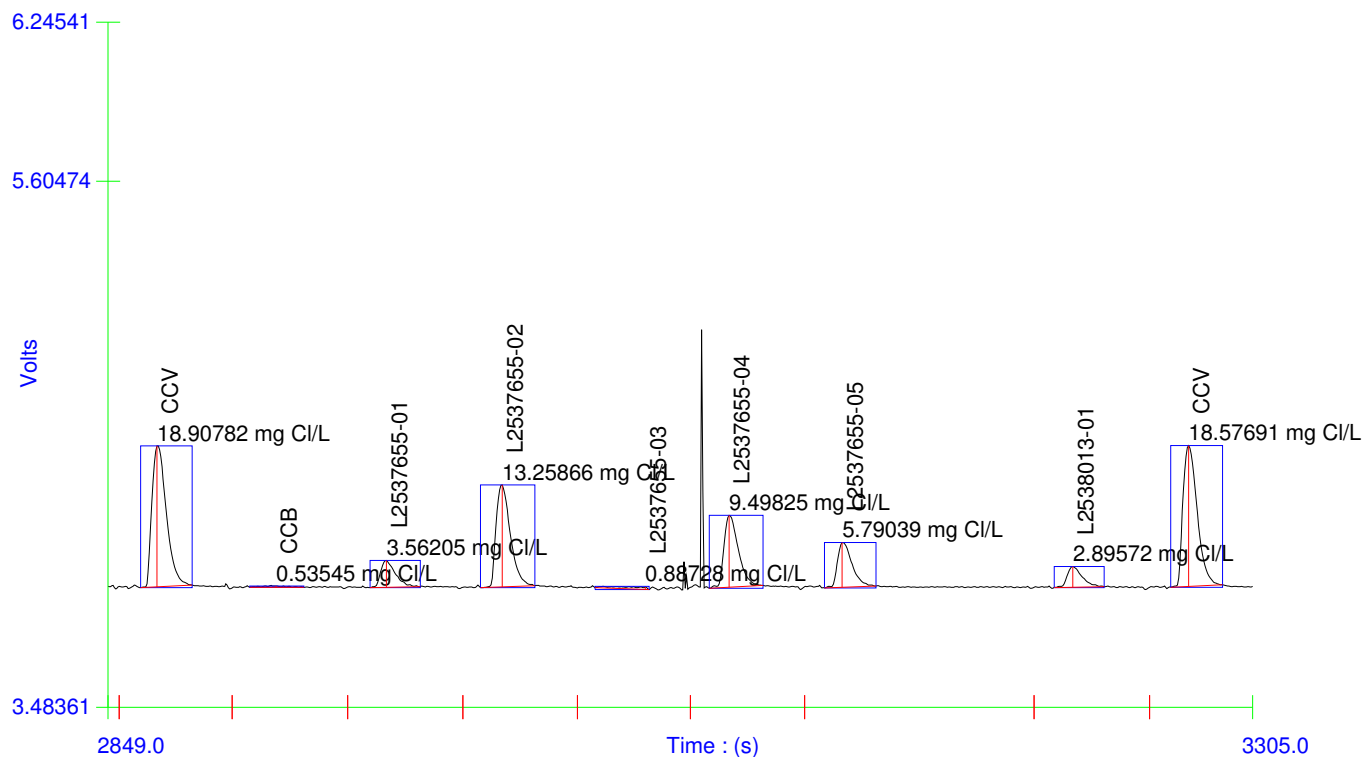
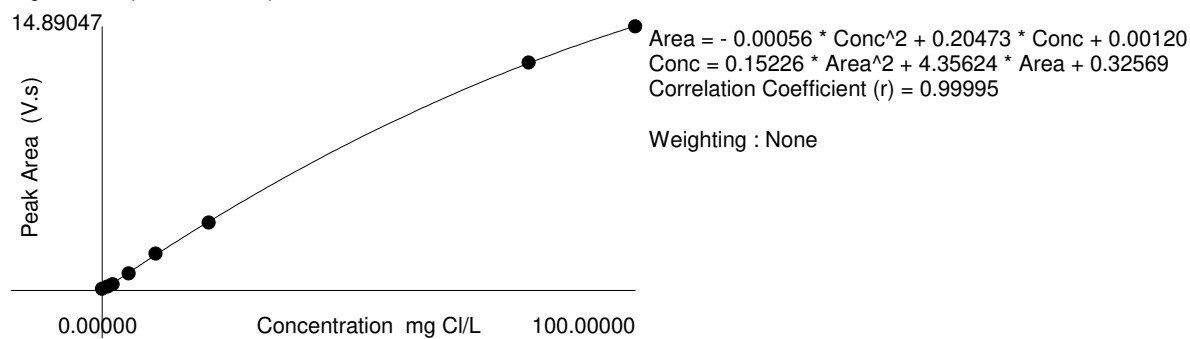


Table : 1 (Chloride-CH3)

	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	14.89047	2.03901	0.0	0.1	98.95296	6/24/2025	9:17:48 PM
2	80.00000	1	12.85401	1.79955	0.0	-0.3	81.47868	6/24/2025	9:18:34 PM
3	20.00000	1	3.82137	0.56964	0.0	1.3	19.19596	6/24/2025	9:19:20 PM
4	10.00000	1	2.06764	0.30948	0.0	-3.8	9.98377	6/24/2025	9:20:05 PM
5	5.00000	1	0.95442	0.14375	0.0	5.6	4.62208	6/24/2025	9:20:53 PM
6	2.00000	1	0.33612	0.05752	0.0	17.7	1.80711	6/24/2025	9:21:39 PM
7	1.00000	1	0.21565	0.02707	0.0	-5.0	1.27218	6/24/2025	9:22:26 PM
8	0.00000	1	0.08276	0.01556			0.68726	6/24/2025	9:23:10 PM

Figure : 1 (Chloride-CH3)



Quality Control

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2538013-01
 Matrix Spike : WG2083092-4
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/25/25 03:52
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Chloride	2.9	20	23.	100					58-140	7



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/25/25 04:05
Dup Sample ID	: WG2083092-3	DUP Analysis Date	: 06/25/25 03:51

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chloride	2.9	3.0	4	7



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2083092-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/25/25 03:58
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Chloride	30.0	28.0	93.					90-110	7



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Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soll/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)

[illegible]

Please Note that the RL Information provided in this table is calculated using a 100% Solids factor. (Soll/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)

$$\text{Cl mg/L} = \text{mg/L direct reading} \times \text{dilution factor}$$

Sequence Logs

250624 Sample ID

1	ICV 5	1	L2539470-01
2	ICV 30	2	L2539470-02
3	ICV 80	3	L2539470-03
4	ICB	4	L2535814-06
5	100 PPM	5	L2535814-09
6	WG2082897-1	6	L2535819-16
7	WG2082897-2	7	L2535819-19
8	L2538580-01	8	L2535819-22
9	L2538580-02	9	L2535807-09
10	L2538580-03	10	L2535807-12
11	L2538580-04	11	L2535807-15
12	L2538580-05	12	L2536725-01
13	L2538580-06	13	L2536725-02
14	L2538580-07	14	L2536725-03
15	L2538580-08	15	WG2082941-3
16	WG2082897-3	16	WG2082941-4
17	WG2082897-4	17	L2537227-01
18	L2538794-01	18	L2537227-02
		19	L2537509-01
86	ICV 5	20	L2535822-18
87	ICV 30	21	L2535822-21
88	ICV 80	22	L2535822-24
89	ICB	23	L2537391-01
90	100 PPM	24	L2536247-12
1	WG2082935-1	25	WG2082940-3
2	WG2082935-2	26	WG2082940-4
3	WG2082937-1	27	L2536247-13
4	WG2082937-2	28	L2536247-16
5	WG2082939-1	29	L2536247-17
6	WG2082939-2	30	L2536345-01
7	WG2082940-1	31	L2536345-02
8	WG2082940-2	32	L2536345-04
9	WG2082941-1	33	L2536345-06
10	WG2082941-2	34	L2536572-04
11	WG2082944-1	35	L2536572-07
12	WG2082944-2	36	L2536572-08
13	WG2082947-1	37	L2536572-09
14	WG2082947-2	38	WG2082944-5
15	WG2082948-1	39	WG2082944-6
16	WG2082948-2	40	L2538013-01
17	WG2082951-1	41	WG2083092-3
18	WG2082951-2	42	WG2083092-4
19	WG2082950-1	43	L2538013-02
20	WG2082950-2	44	L2538013-03
21	L2535803-01	45	L2538013-04

22 L2535803-02	46 L2538013-05
23 L2535803-03	47 L2538013-06
24 L2535803-04	48 L2538013-07
25 L2535807-03	49 WG2083092-1
26 L2535807-06	50 WG2083092-2
27 L2535807-09	51 L2537655-01
28 L2535807-12	52 L2537655-02
29 L2535807-15	53 L2537655-03
30 L2535807-18	54 L2537655-04
31 L2535807-21	55 L2537655-05
32 L2535807-24	
33 L2535807-27	
34 L2535809-01	
35 L2535809-04	
36 L2535809-07	
37 L2535809-10	
38 L2535809-13	
39 L2535809-16	
40 L2535809-19	
41 WG2082935-3	
42 WG2082935-4	
43 L2535809-22	
44 WG2082937-3	
45 WG2082937-4	
46 L2535809-25	
47 L2535814-03	
48 L2535814-06	
49 L2535814-09	
50 L2535814-12	
51 L2535814-15	
52 L2535814-18	
53 L2535814-21	
54 L2535814-24	
55 L2535814-27	
56 L2535819-01	
57 L2535819-04	
58 L2535819-07	
59 L2535819-10	
60 L2535819-13	
61 L2535819-16	
62 L2535819-19	
63 L2535819-22	
64 L2535819-25	
65 L2535820-01	
66 L2535820-04	
67 L2535820-07	
68 L2535820-10	

69 L2535820-13
70 L2535820-16
71 L2535820-19
72 L2535820-22
73 L2535820-25
74 L2535822-03
75 L2535822-06
76 L2535822-09
77 L2535822-12
78 L2535822-15
79 L2535822-18
80 L2535822-21
81 L2535822-24
82 L2537391-01
83 L2536247-01
84 L2536247-02
85 L2536247-03
91 L2536247-04
92 L2536247-05
93 L2536247-06
94 L2536247-07
95 L2536247-08
96 L2536247-09
97 L2536247-10
98 L2536247-11
99 L2536247-12
100 WG2082940-3
101 WG2082940-4
102 L2536247-13
103 L2536247-14
104 L2536247-15
105 L2536247-16
106 L2536247-17
107 L2536247-18
108 L2536247-20
109 L2536345-01
110 L2536345-02
111 L2536345-04
112 L2536345-06
113 L2536572-01
114 WG2082944-3
115 WG2082944-4
116 L2536572-02
117 L2536572-03
118 L2536572-04
119 L2536572-05
120 L2536572-06

121 L2536572-07
122 L2536572-08
123 L2536572-09
124 WG2082944-5
125 WG2082944-6
126 L2536572-10
127 L2536572-11
128 L2536572-12
129 L2537295-01
130 L2537295-03
131 L2536725-01
132 L2536725-02
133 L2536725-03
134 WG2082941-3
135 WG2082941-4
136 L2536792-01
137 L2536821-01
138 L2536869-01
139 L2536969-07
140 L2537227-01
141 L2537227-02
142 L2537509-01
143 L2537671-01
144 L2537671-02
145 L2538975-01
146 L2539317-01
147 L2539317-02
148 L2539317-03
149 L2539317-04
153 L2536540-03
154 WG2082947-5
155 WG2082947-6
156 L2536540-04
157 L2536540-05
158 L2536540-06
159 L2536540-07
160 L2536540-08
161 L2536810-01
162 WG2082947-3
163 WG2082947-4
164 L2536810-02
165 L2536810-03
166 L2536810-04
167 L2536810-05
168 L2536810-06
169 L2536810-07
170 L2536810-08

171 L2536810-09
172 L2536810-11
173 L2536810-12
174 L2536810-13
175 L2536810-14
176 L2536185-01
177 WG2082948-3
178 WG2082948-4
179 L2536185-04
180 L2536185-05
1 L2536185-06
2 L2536614-01
3 L2536614-02
4 L2536614-03
5 L2537053-01
6 L2537053-02
7 L2537053-03
27 L2536268-02
28 WG2082950-3
29 WG2082950-4
30 L2536268-03
31 L2536268-04
32 L2536268-08
33 L2536268-09
34 L2536268-10
35 L2536730-01
36 WG2082950-5
37 WG2082950-6
38 L2536730-02
39 L2536730-03
40 L2536730-04

Fluoride Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/19/25 06:49
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500F-BC	Analyst	: DTH
Lab File ID	: WG2080697.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/19/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/19/25 06:49
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500F-BC	Analyst	: DTH
Lab File ID	: WG2080697.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/19/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/19/25 06:49
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 121,4500F-BC	Analyst	: DTH
Lab File ID	: WG2080697.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/19/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	ND	0.20	0.01	U



Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/19/25 06:49
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500F-BC	Analyst	: DTH
Lab File ID	: WG2080697.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/19/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	0.02	0.20	0.01	J



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/19/25 06:49
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500F-BC	Analyst	: DTH
Lab File ID	: WG2080697.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/19/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	0.07	0.20	0.01	J

Form 1
WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2080697-1
Client ID : WG2080697-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500F-BC
Lab File ID : WG2080697.csv
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/19/25 06:49
Dilution Factor : 1
Analyst : DTH
Instrument ID :
%Solids : N/A
Date Digested : 06/19/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	ND	0.20	0.01	U



Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2080697-3
Client ID : WG2080697-3 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500F-BC
Lab File ID : WG2080697.csv
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : 06/17/25 09:15
Date Received : 06/17/25
Date Analyzed : 06/19/25 06:49
Dilution Factor : 1
Analyst : DTH
Instrument ID :
%Solids : N/A
Date Digested : 06/19/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	0.04	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 Date: 6/19/2025 6:49
Technician: DTH
Work group: WG2080697
RL: 0.20 mg/L
Distillation Date: 6/19/2025 0:47

Analysis: FLUORIDE
Method: SM 4500F-BC
LCS Concentration (mg/l): 2
Spike Concentration (mg/l): 1

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Curve Slope y-intercept	Correlation Coefficient
0.2	-0.699	128.6	-0.698	0.2007	100	-59.0277875	87.425
0.5	-0.301	105.4	-0.305	0.4960	99		
1.0	0.000	87.3	0.002	1.0049	100		
10	1.000	28.4	1.000	9.999	100		0.999994

	Sample number	Sample Volume (ml)	Distill Volume (ml)	Flask	Reagent	Dilution Factor	Meter Reading	RL Multiplier	FINAL RESULT (mg/l)	Recovery
	ICB	50	50		YES	1.00	0	1.00	0.00	
	ICV	50	50		YES	1.00	1.01	1.00	1.01	101%
SAMP	L2536247-14	50	50		YES	1.00	0.111	1.00	0.11	
SAMP	L2536247-15	50	50		YES	1.00	0.103	1.00	0.10	
SAMP	L2536247-18	50	50		YES	1.00	0.923	1.00	0.92	
SAMP	L2536247-20	50	50		YES	1.00	0.106	1.00	0.11	
	L2537655-01	50	50		YES	1.00	0.0256	1.00	0.03	
	L2537655-02	50	50		YES	1.00	0.0382	1.00	0.04	
	L2537655-03	50	50		YES	1.00	0.00546	1.00	0.01	
	L2537655-04	50	50		YES	1.00	0.0217	1.00	0.02	
	L2537655-05	50	50		YES	1.00	0.0729	1.00	0.07	
SAMP	L2538013-01	50	50		YES	1.00	0.037	1.00	0.04	
SAMP	L2538013-02	50	50		YES	1.00	0.0271	1.00	0.03	
SAMP	L2538013-03	50	50		YES	1.00	0.0259	1.00	0.03	
SAMP	L2538013-04	50	50		YES	1.00	0.0664	1.00	0.07	
SAMP	L2538013-05	50	50		YES	1.00	0.0508	1.00	0.05	
SAMP	L2538013-06	50	50		YES	1.00	0.109	1.00	0.11	
SAMP	L2538013-07	50	50		YES	1.00	0.0613	1.00	0.06	
	CCV	50	50		YES	1.00	0.985	1.00	0.99	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	0.981	1.00	0.98	
	CCB	50	50		YES	1.00	0	1.00	0.00	
BLANK	WG2080697-1	50	50		YES	1.00	0	1.00	0.00	
DUP	WG2080697-3	50	50		YES	1.00	0.0353	1.00	0.04	L2538013-01
	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	WG2080697-4	50	50		YES	.04	0.907	1	0.91	87
LCS	WG2080697-2	50	50		YES		1.71	2	1.71	86

last sample

Quality Control

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2538013-01
 Matrix Spike : WG2080697-4
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/19/25 06:49
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Fluoride	0.04J	1	0.91	91					69-124	13

Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/19/25 06:49
Dup Sample ID	: WG2080697-3	DUP Analysis Date	: 06/19/25 06:49

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.04J	0.04J	NC	13



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2080697-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/19/25 06:49
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Fluoride	2.00	1.70	86.					78-120	13



Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

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)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soli/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:

$$\text{Fluoride, mg/L} = (\text{mg F-/L}) \times (\text{Volume of Distillate, mL}) / \text{Volume of Sample, mL}$$

For solids:

$$\text{Fluoride, mg/Kg} = (\text{mg F-/L}) \times (\text{Volume of Distillate, mL}) / \text{Weight of Sample, gm}$$

To calculate final result for soil samples based on dry weight, multiply final result on 100 and divide on %TS (in %)

Sample Preparation

TITLE

PROJECT

Continued from Page

WG2080697



Analyst: DTH

Date & Time: 6/19/2025 6:49

ICV:F 06152025-100ppm

LCS:F 06152025-100ppm

Spike:F 06152025-700ppm

Curve: WC-3575

TISAB III: R- 4367

STD	ML
0.2	128.6
0.5	105.4
1.0	87.3
10.0	28.4

Sample	Volume 50mL	Final Volume 50mL	Notes
ICV			1.01
ICB			0.0
Blank			0.0
36247-14			0.111
-15			0.103
-18			0.923
-20			0.106
37655-01			0.0256
-02			0.0382
-03			0.00546
-04			0.0217
-05			0.072
CCV			0.985
CCB			0.0
38013-01			0.0370
-0201			0.0353
-m501			0.907
-02			0.0271
-03			0.0259
-04			0.0664
-05			0.0508
-06			0.109
-07			0.0613
Les			1.71
CCV			0.981
CCB			0.0

Continued from Page

SIGNATURE

DATE

Project No. _____

Confidential

Book No. _____

TITLE _____

Page No. _____

<u>Tube</u>	<u>Sample</u>	<u>Volume</u>	<u>Final Volume</u>	<u>Block</u>	<u>Comments</u>
1	Blank	50mL	50mL	Therol #2	DTH 6/19/05 00:47
2	LCS				1.0mL F06152025-100ppm
3	36247-14				
4	-15				
5	-18				
6	-20				
7	37655-01				
8	-02				
9	-03				
10	-04				
11	-05				
12	38013-01				
13	-0901				
14	-MS01				
15	-02				
16	-03				
17	-04				
18	-05				
19	-06				
20	-07				

Fluor #1

0.5mL F06152025-100ppm

To Page No. _____

Phosphates Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 15:14
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500P-E(M)	Analyst	: MEF
Lab File ID	: PHOS062425-WG2082473.csv	Instrument ID	: SEAL2
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.040	0.031	0.012	



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/29/25 17:37
Sample Matrix	: WATER	Dilution Factor	: 2
Analytical Method	: 121,4500P-E(M)	Analyst	: MEF
Lab File ID	: PHOS062925-WG2084951	Instrument ID	: SEAL2
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/29/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	3.10	0.061	0.025	



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 15:16
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 121,4500P-E(M)	Analyst	: MEF
Lab File ID	: PHOS062425-WG2082473.csv	Instrument ID	: SEAL2
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.012	0.031	0.012	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 15:17
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500P-E(M)	Analyst	: MEF
Lab File ID	: PHOS062425-WG2082473.csv	Instrument ID	: SEAL2
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.025	0.031	0.012	J



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 15:18
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500P-E(M)	Analyst	: MEF
Lab File ID	: PHOS062425-WG2082473.csv	Instrument ID	: SEAL2
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.037	0.031	0.012	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2082473-1	Date Collected	: NA
Client ID	: WG2082473-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/24/25 15:11
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500P-E(M)	Analyst	: MEF
Lab File ID	: PHOS062425-WG2082473.csv	Instrument ID	: SEAL2
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.015	0.031	0.012	J



Form 1
WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082473-3
Client ID : WG2082473-3 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500P-E(M)
Lab File ID : PHOS062425-WG2082473.csv
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : 06/17/25 09:15
Date Received : 06/17/25
Date Analyzed : 06/24/25 15:20
Dilution Factor : 1
Analyst : MEF
Instrument ID : SEAL2
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.089	0.031	0.012	

Form 1
WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082473-5
Client ID : WG2082473-5 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500P-E(M)
Lab File ID : PHOS062425-WG2082473.csv
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : 06/18/25 13:22
Date Received : 06/18/25
Date Analyzed : 06/24/25 15:37
Dilution Factor : 1
Analyst : MEF
Instrument ID : SEAL2
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.040	0.031	0.012	



Form 1
WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2084951-1
Client ID : WG2084951-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500P-E(M)
Lab File ID : PHOS062925-WG2084951
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/29/25 17:22
Dilution Factor : 1
Analyst : MEF
Instrument ID : SEAL2
%Solids : N/A
Date Digested : 06/29/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.012	0.031	0.012	J



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2084951-3	Date Collected	: 06/19/25 11:05
Client ID	: WG2084951-3 DUP	Date Received	: 06/19/25
Sample Location	:	Date Analyzed	: 06/29/25 17:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500P-E(M)	Analyst	: MEF
Lab File ID	: PHOS062925-WG2084951	Instrument ID	: SEAL2
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/29/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.077	0.031	0.012	



Sample Raw Data

AQ2 Tray Report



Software version : 2.4.5
Report requested by : MFlaherty
Date \ Time : 29-Jun-2025 19:07:00
Tray number : 1
Tray name : WG2082978,4949,51,53

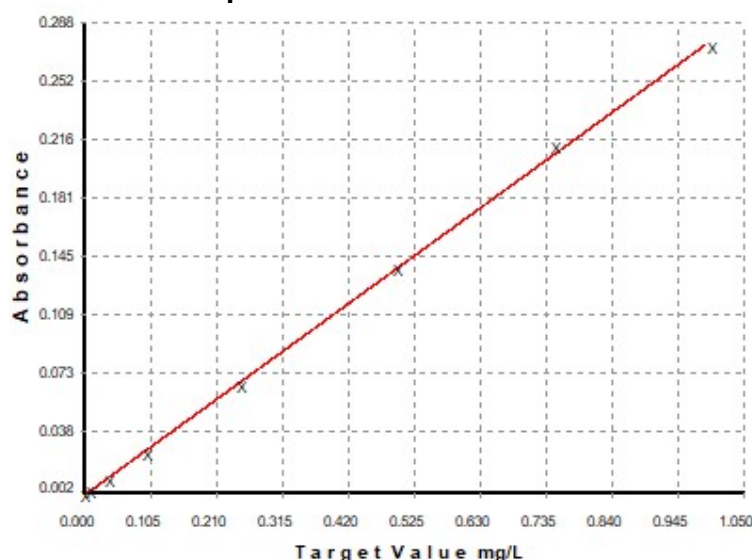
T-Phos 1

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0019	0.004	0.000	
S90	0.0043	0.013	0.010	29.72
S91	0.0113	0.038	0.040	-4.28
S92	0.0271	0.096	0.100	-4.37
S93	0.0677	0.242	0.250	-3.08
S94	0.1388	0.499	0.500	-0.14
S95	0.2132	0.768	0.750	2.41
S96	0.2743	0.989	1.000	-1.08
S0	0.0018	0.004	0.000	

Polynomial Order : 1
 Correlation Coefficient : 0.9997
 Carryover(%) : -0.0
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: -2.445152E-03
 b =: 3.614851E+00
 Date & Time : 29-Jun-2025 16:52:15

Calibration Graph



Reagents

Reagent Name	Batch Number	Operator	Expiry Date
TP Working Color	TP Color-06222025	MEF	29-Jun-2025 00:00:00
TP Ascorbic	TP Ascorbic-06292025	MEF	06-Jul-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			0.001852			MEF	29-Jun-2025 16:44:28
S90	Standard 90		0.004			0.004265			MEF	29-Jun-2025 16:45:26
S91	Standard 91		0.011			0.011269			MEF	29-Jun-2025 16:46:24
S92	Standard 92		0.027			0.027132			MEF	29-Jun-2025 16:47:22
S93	Standard 93		0.068			0.067703			MEF	29-Jun-2025 16:48:20
S94	Standard 94		0.139			0.138799			MEF	29-Jun-2025 16:49:19
S95	Standard 95		0.213			0.213152			MEF	29-Jun-2025 16:50:17
S96	Standard 96		0.274			0.274327			MEF	29-Jun-2025 16:51:16
S0	Standard 0		0.002			0.001830			MEF	29-Jun-2025 16:52:15
2	ICV	ICV 29-JUN-2025 15-36	0.525	mg/L		0.145968			MEF	29-Jun-2025 16:53:13
3	ICB	ICB 29-JUN-2025 15-36	0.003	mg/L		0.001470			MEF	29-Jun-2025 16:54:14
4	U1	WG2082978-1 29-JUN-2025 15-36	0.004	ELL mg/L		0.001709			MEF	29-Jun-2025 16:55:15
5	U2	WG2082978-2 29-JUN-2025 15-36	0.503	mg/L		0.139881			MEF	29-Jun-2025 16:56:14
6	U3	L2536394-01 29-JUN-2025 15-36	1.718	mg/L		0.095738	x5.0000		MEF	29-Jun-2025 18:11:26
6	U3	L2536394-01 29-JUN-2025 15-36	1.589	mg/L		0.440231			MEF	29-Jun-2025 16:57:13
7	U4	L2536494-02 29-JUN-2025 15-36	0.024	mg/L		0.007217			MEF	29-Jun-2025 16:58:11
8	U5	WG2082978-3 29-JUN-2025 15-36	0.023	mg/L		0.007044			MEF	29-Jun-2025 16:59:11
9	U6	WG2082978-4 29-JUN-2025 15-36	0.550	mg/L		0.152791			MEF	29-Jun-2025 17:00:10
10	U7	L2536497-01 29-JUN-2025 15-36	0.284	mg/L		0.079286			MEF	29-Jun-2025 17:01:09

11	U8	L2536580-01-100	29-JUN-2025 15-36	59.439	mg/L	0.165106		x100.0000	MEF	29-Jun-2025 17:02:07
12	U9	L2536580-02	29-JUN-2025 15-36	6.006	mg/L	0.067135	x25.0000		MEF	29-Jun-2025 18:31:51
12	U9	L2536580-02	29-JUN-2025 15-36	5.838	mg/L	0.323683	x5.0000		MEF	29-Jun-2025 18:12:17
12	U9	L2536580-02	29-JUN-2025 15-36	2.749	mg/L	0.761176			MEF	29-Jun-2025 17:03:06
13	U10	L2536582-01-5	29-JUN-2025 15-36	4.213	mg/L	0.233749		x5.0000	MEF	29-Jun-2025 17:04:05
	CCV	CCV		0.525	mg/L	0.146018			MEF	29-Jun-2025 17:05:04
	CCB	CCB		0.003	mg/L	0.001481			MEF	29-Jun-2025 17:06:04
14	U11	L2536582-02	29-JUN-2025 15-36	0.534	mg/L	0.148512			MEF	29-Jun-2025 17:07:05
15	U12	L2536585-01-5	29-JUN-2025 15-36	1.268	mg/L	0.070839		x5.0000	MEF	29-Jun-2025 17:08:04
16	U13	L2536585-02	29-JUN-2025 15-36	1.244	mg/L	0.069492	x5.0000		MEF	29-Jun-2025 18:13:08
16	U13	L2536585-02	29-JUN-2025 15-36	1.196	mg/L	0.331603			MEF	29-Jun-2025 17:09:02
17	U14	L2536608-01-5	29-JUN-2025 15-36	1.097	mg/L	0.061397		x5.0000	MEF	29-Jun-2025 17:10:01
18	U15	L2536608-02	29-JUN-2025 15-36	0.536	mg/L	0.148940			MEF	29-Jun-2025 17:10:59
19	U16	L2536636-01-2	29-JUN-2025 15-36	4.531	mg/L	0.126034	x5.0000	x2.0000	MEF	29-Jun-2025 18:13:59
19	U16	L2536636-01-2	29-JUN-2025 15-36	4.005	mg/L	0.554678		x2.0000	MEF	29-Jun-2025 17:11:57
20	U17	L2536641-01-2	29-JUN-2025 15-36	0.847	mg/L	0.117898		x2.0000	MEF	29-Jun-2025 17:12:55
21	U18	L2536673-01	29-JUN-2025 15-36	0.023	mg/L	0.007075			MEF	29-Jun-2025 17:13:53
22	U19	L2536673-02	29-JUN-2025 15-36	0.052	mg/L	0.015035			MEF	29-Jun-2025 17:14:51
23	U20	L2536712-01	29-JUN-2025 15-36	0.744	mg/L	0.206477			MEF	29-Jun-2025 17:15:48
	CCV	CCV		0.524	mg/L	0.145697			MEF	29-Jun-2025 17:16:46
	CCB	CCB		0.002	mg/L	0.001324			MEF	29-Jun-2025 17:17:47
24	U21	L2536712-02	29-JUN-2025 15-36	0.028	mg/L	0.008560			MEF	29-Jun-2025 17:18:48
25	U22	L2536725-01	29-JUN-2025 15-36	0.048	mg/L	0.013971			MEF	29-Jun-2025 17:19:45
26	U23	L2536725-02-2	29-JUN-2025 15-36	0.328	mg/L	0.045990		x2.0000	MEF	29-Jun-2025 17:20:43
27	U24	L2536725-03	29-JUN-2025 15-36	0.169	mg/L	0.047365			MEF	29-Jun-2025 17:21:41
28	U25	WG2084949-1	29-JUN-2025 15-36	0.004ELL	mg/L	0.001694			MEF	29-Jun-2025 17:22:39
29	U26	WG2084949-2	29-JUN-2025 15-36	0.506	mg/L	0.140640			MEF	29-Jun-2025 17:23:36
30	U27	L2536073-05	29-JUN-2025 15-36	0.030	mg/L	0.008867			MEF	29-Jun-2025 17:24:34
31	U28	WG2084949-3	29-JUN-2025 15-36	0.030	mg/L	0.008947			MEF	29-Jun-2025 17:25:33
32	U29	WG2084949-4	29-JUN-2025 15-36	0.562	mg/L	0.156152			MEF	29-Jun-2025 17:26:31
33	U30	L2537565-02	29-JUN-2025 15-36	0.044	mg/L	0.012723			MEF	29-Jun-2025 17:27:29
	CCV	CCV		0.524	mg/L	0.145666			MEF	29-Jun-2025 17:28:27
	CCB	CCB		0.003	mg/L	0.001383			MEF	29-Jun-2025 17:29:28
34	U31	L2537565-03	29-JUN-2025 15-36	0.017	mg/L	0.005436			MEF	29-Jun-2025 17:30:29
35	U32	L2537684-01	29-JUN-2025 15-36	0.018	mg/L	0.005664			MEF	29-Jun-2025 17:31:28
36	U33	L2537805-02	29-JUN-2025 15-36	2.707	mg/L	0.150431	x5.0000		MEF	29-Jun-2025 18:14:50
36	U33	L2537805-02	29-JUN-2025 15-36	2.116	mg/L	0.585957			MEF	29-Jun-2025 17:32:26
37	U34	L2539018-01	29-JUN-2025 15-36	0.078	mg/L	0.022130			MEF	29-Jun-2025 17:33:24
38	U35	L2539018-02	29-JUN-2025 15-36	0.040	mg/L	0.011651			MEF	29-Jun-2025 17:34:23
39	U36	L2539524-02	29-JUN-2025 15-36	0.318	mg/L	0.088757			MEF	29-Jun-2025 17:35:21
40	U37	L2539524-03	29-JUN-2025 15-36	0.043	mg/L	0.012483			MEF	29-Jun-2025 17:36:20
41	U38	L2537655-02O2	29-JUN-2025 15-36	1.011	mg/L	0.140457		x2.0000	MEF	29-Jun-2025 17:37:18
42	U39	L2538805-01O	29-JUN-2025 15-36	0.011	mg/L	0.003837			MEF	29-Jun-2025 17:38:17
43	U40	L2538805-02O	29-JUN-2025 15-36	0.025	mg/L	0.007729			MEF	29-Jun-2025 17:39:16
	CCV	CCV		0.552	mg/L	0.153292			MEF	29-Jun-2025 17:40:15
	CCB	CCB		0.002	mg/L	0.001180			MEF	29-Jun-2025 17:41:16
44	U41	WG2084951-3O	29-JUN-2025 15-36	0.025	mg/L	0.007704			MEF	29-Jun-2025 17:42:17
45	U42	WG2084951-4O	29-JUN-2025 15-36	0.552	mg/L	0.153265			MEF	29-Jun-2025 17:43:16
46	U43	L2538805-03O	29-JUN-2025 15-36	0.011	mg/L	0.003597			MEF	29-Jun-2025 17:44:15
47	U44	L2538805-04O	29-JUN-2025 15-36	0.026	mg/L	0.007896			MEF	29-Jun-2025 17:45:16
48	U45	L2538805-05O	29-JUN-2025 15-36	0.027	mg/L	0.008211			MEF	29-Jun-2025 17:46:17
49	U46	L2538805-06O	29-JUN-2025 15-36	0.010	mg/L	0.003533			MEF	29-Jun-2025 17:46:49
50	U47	L2536730-01O	29-JUN-2025 15-36	0.011	mg/L	0.003822			MEF	29-Jun-2025 17:47:47
51	U48	WG2084953-3O	29-JUN-2025 15-36	0.018	mg/L	0.005637			MEF	29-Jun-2025 17:48:38
52	U49	WG2084953-4O	29-JUN-2025 15-36	0.536	mg/L	0.148915			MEF	29-Jun-2025 17:49:29
53	U50	L2536730-02O	29-JUN-2025 15-36	0.011	mg/L	0.003740			MEF	29-Jun-2025 17:50:21
	CCV	CCV		0.511	mg/L	0.141920			MEF	29-Jun-2025 17:51:12
	CCB	CCB		0.002	mg/L	0.001334			MEF	29-Jun-2025 17:52:04
54	U51	L2536730-03O	29-JUN-2025 15-36	0.007	mg/L	0.002564			MEF	29-Jun-2025 17:52:55
55	U52	L2536730-04O	29-JUN-2025 15-36	0.003ELL	mg/L	0.001572			MEF	29-Jun-2025 17:53:47
	CCV	CCV		0.513	mg/L	0.142656			MEF	29-Jun-2025 17:54:38
	CCB	CCB		0.003	mg/L	0.001430			MEF	29-Jun-2025 17:55:30
	CCV	CCV		0.503	mg/L	0.139827			MEF	29-Jun-2025 18:09:42
	CCB	CCB		0.002	mg/L	0.001358			MEF	29-Jun-2025 18:10:34
	CCV	CCV		0.531	mg/L	0.147486			MEF	29-Jun-2025 18:15:42
	CCB	CCB		0.003	mg/L	0.001394			MEF	29-Jun-2025 18:16:33
	CCV	CCV		0.518	mg/L	0.144051			MEF	29-Jun-2025 18:30:07
	CCB	CCB		0.003	mg/L	0.001561			MEF	29-Jun-2025 18:30:59
	CCV	CCV		0.523	mg/L	0.145365			MEF	29-Jun-2025 18:32:42

CCB

CCB

0.003 mg/L

0.001621

MEF 29-Jun-2025 18:33:34

AQ2 Tray Report



Software version : 2.4.5
Report requested by : MFlaherty
Date \ Time : 24-Jun-2025 16:30:54
Tray number : 1
Tray name : WG2082473

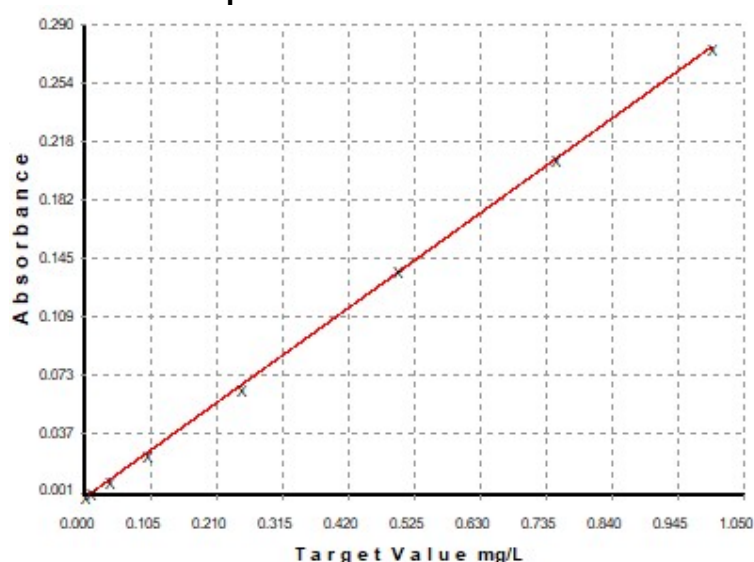
T-Phos 1

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0009	0.006	0.000	
S90	0.0030	0.014	0.010	41.48
S91	0.0094	0.037	0.040	-7.36
S92	0.0256	0.096	0.100	-4.44
S93	0.0662	0.242	0.250	-3.11
S94	0.1387	0.504	0.500	0.83
S95	0.2070	0.751	0.750	0.07
S96	0.2761	1.000	1.000	-0.00
S0	0.0011	0.007	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 =: 3.161442E-03
 b =: 3.610768E+00
 Date & Time : 24-Jun-2025 15:08:45

Calibration Graph



Reagents

Reagent Name	Batch Number	Operator	Expiry Date
TP Working Color	TP Color-06222025	MEF	29-Jun-2025 00:00:00
TP Ascorbic	TP Ascorbic-06182025	MEF	25-Jun-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		0.001			0.000885			MEF	24-Jun-2025 15:00:58
S90	Standard 90		0.003			0.003043			MEF	24-Jun-2025 15:01:57
S91	Standard 91		0.009			0.009388			MEF	24-Jun-2025 15:02:55
S92	Standard 92		0.026			0.025590			MEF	24-Jun-2025 15:03:53
S93	Standard 93		0.066			0.066205			MEF	24-Jun-2025 15:04:51
S94	Standard 94		0.139			0.138742			MEF	24-Jun-2025 15:05:49
S95	Standard 95		0.207			0.206988			MEF	24-Jun-2025 15:06:48
S96	Standard 96		0.276			0.276072			MEF	24-Jun-2025 15:07:46
S0	Standard 0		0.001			0.001052			MEF	24-Jun-2025 15:08:45
2	ICV	ICV 24-JUN-2025 14-24	0.511	mg/L		0.140770			MEF	24-Jun-2025 15:09:44
3	ICB	ICB 24-JUN-2025 14-24	0.005	mg/L		0.000525			MEF	24-Jun-2025 15:10:45
4	U1	WG2082473-1O 24-JUN-2025 14-24	0.005	ELL mg/L		0.000632			MEF	24-Jun-2025 15:11:45
5	U2	WG2082473-2O 24-JUN-2025 14-24	0.512	mg/L		0.141017			MEF	24-Jun-2025 15:12:44
6	U3	L2536544-01O1O 24-JUN-2025 14-24	119.748	mg/L		0.131781	x25.0000	x10.0000	MEF	24-Jun-2025 16:12:54
6	U3	L2536544-01O1O 24-JUN-2025 14-24	106.861	mg/L		0.591028	x5.0000	x10.0000	MEF	24-Jun-2025 15:55:55
6	U3	L2536544-01O1O 24-JUN-2025 14-24	34.015	mg/L		0.941177		x10.0000	MEF	24-Jun-2025 15:13:43
7	U4	L2537655-01O 24-JUN-2025 14-24	0.013	mg/L		0.002800			MEF	24-Jun-2025 15:14:42
8	U5	L2537655-02O 24-JUN-2025 14-24	0.952	mg/L		0.262836			MEF	24-Jun-2025 15:15:41
9	U6	L2537655-03O 24-JUN-2025 14-24	0.004	ELL mg/L		0.000334			MEF	24-Jun-2025 15:16:40

10	U7	L2537655-04O	24-JUN-2025 14-24	0.008	mg/L	0.001349	MEF	24-Jun-2025 15:17:39
11	U8	L2537655-05O	24-JUN-2025 14-24	0.012	mg/L	0.002425	MEF	24-Jun-2025 15:18:38
12	U9	L2538013-01O	24-JUN-2025 14-24	0.031	mg/L	0.007762	MEF	24-Jun-2025 15:19:37
13	U10	WG2082473-3O	24-JUN-2025 14-24	0.029	mg/L	0.007059	MEF	24-Jun-2025 15:20:35
	CCV	CCV		0.513	mg/L	0.141192	MEF	24-Jun-2025 15:21:34
	CCB	CCB		0.006	mg/L	0.000715	MEF	24-Jun-2025 15:22:35
14	U11	WG2082473-4O	24-JUN-2025 14-24	0.552	mg/L	0.152017	MEF	24-Jun-2025 15:23:36
15	U12	L2538013-02O	24-JUN-2025 14-24	0.033	mg/L	0.008284	MEF	24-Jun-2025 15:24:34
16	U13	L2538013-03O	24-JUN-2025 14-24	0.102	mg/L	0.027332	MEF	24-Jun-2025 15:25:33
17	U14	L2538013-04O	24-JUN-2025 14-24	0.029	mg/L	0.007042	MEF	24-Jun-2025 15:26:31
18	U15	L2538013-05O	24-JUN-2025 14-24	0.091	mg/L	0.024375	MEF	24-Jun-2025 15:27:29
19	U16	L2538013-06O	24-JUN-2025 14-24	0.070	mg/L	0.018563	MEF	24-Jun-2025 15:28:27
20	U17	L2538013-07O	24-JUN-2025 14-24	0.021	mg/L	0.004895	MEF	24-Jun-2025 15:29:25
21	U18	L2538382-01O	24-JUN-2025 14-24	0.123	mg/L	0.033188	MEF	24-Jun-2025 15:30:26
22	U19	L2538382-02O	24-JUN-2025 14-24	0.010	mg/L	0.001812	MEF	24-Jun-2025 15:31:26
23	U20	L2538382-03O	24-JUN-2025 14-24	0.069	mg/L	0.018200	MEF	24-Jun-2025 15:31:59
	CCV	CCV		0.520	mg/L	0.143032	MEF	24-Jun-2025 15:32:57
	CCB	CCB		0.006	mg/L	0.000738	MEF	24-Jun-2025 15:33:48
24	U21	L2538382-04O	24-JUN-2025 14-24	0.021	mg/L	0.004927	MEF	24-Jun-2025 15:34:40
25	U22	L2538382-05O	24-JUN-2025 14-24	0.026	mg/L	0.006214	MEF	24-Jun-2025 15:35:31
26	U23	L2538382-06O	24-JUN-2025 14-24	0.012	mg/L	0.002336	MEF	24-Jun-2025 15:36:22
27	U24	WG2082473-5O	24-JUN-2025 14-24	0.013	mg/L	0.002815	MEF	24-Jun-2025 15:37:13
28	U25	WG2082473-6O	24-JUN-2025 14-24	0.526	mg/L	0.144777	MEF	24-Jun-2025 15:38:05
29	U26	L2538382-07O	24-JUN-2025 14-24	0.017	mg/L	0.003920	MEF	24-Jun-2025 15:38:56
	CCV	CCV		0.512	mg/L	0.140959	MEF	24-Jun-2025 15:39:47
	CCB	CCB		0.006	mg/L	0.000810	MEF	24-Jun-2025 15:40:38
	CCV	CCV		0.507	mg/L	0.139623	MEF	24-Jun-2025 15:54:12
	CCB	CCB		0.007	mg/L	0.000928	MEF	24-Jun-2025 15:55:03
	CCV	CCV		0.511	mg/L	0.140611	MEF	24-Jun-2025 15:56:46
	CCB	CCB		0.008	mg/L	0.001345	MEF	24-Jun-2025 15:57:38
	CCV	CCV		0.513	mg/L	0.141085	MEF	24-Jun-2025 16:11:11
	CCB	CCB		0.007	mg/L	0.001046	MEF	24-Jun-2025 16:12:02
	CCV	CCV		0.513	mg/L	0.141117	MEF	24-Jun-2025 16:13:45
	CCB	CCB		0.007	mg/L	0.001034	MEF	24-Jun-2025 16:14:36

Quality Control

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2538013-01
 Matrix Spike : WG2082473-4
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER

MS Analysis Date : 06/24/25 15:23
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Phosphate, Total	0.095	1.53	1.69	104					80-120	15



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2082473-6
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/24/25 15:38
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Phosphate, Total	0.037	1.53	1.61	103					80-120	15



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2538805-02
 Matrix Spike : WG2084951-4
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/29/25 17:43
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Phosphate, Total	0.077	1.53	1.69	105					80-120	15

Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/24/25 15:19
Dup Sample ID	: WG2082473-3	DUP Analysis Date	: 06/24/25 15:20

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.095	0.089	7	15



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/24/25 15:36
Dup Sample ID	: WG2082473-5	DUP Analysis Date	: 06/24/25 15:37

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.037	0.040	8	15

Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/29/25 17:39
Dup Sample ID	: WG2084951-3	DUP Analysis Date	: 06/29/25 17:42

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.077	0.077	0	15



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2082473-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/24/25 15:12
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Phosphate, Total	1.53	1.57	103.					84-118	15

Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2084951-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/29/25 17:23
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Phosphate, Total	1.53	1.55	101.					84-118	15



Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

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)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soli/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
Page: 1

WETCHEM (WATER)

[illegible]

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)

[illegible]

Please Note that the RL Information provided in this table is calculated using a 100% Solids factor. (Soll/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 (segment flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance} - \text{y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Wet Chemistry
By
IC Methods

Results

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-01	Date Collected	: 06/16/25 12:05
Client ID	: MW-11S	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 18:29
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 44,300.0	Analyst	: CVN,
Lab File ID	: WG2082916-18	Instrument ID	: IC3
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	0.041	0.050	0.013	J

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-02	Date Collected	: 06/16/25 12:08
Client ID	: MW-11D	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 18:41
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 44,300.0	Analyst	: CVN,
Lab File ID	: WG2082916-18	Instrument ID	: IC3
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	0.054	0.050	0.013	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-03	Date Collected	: 06/16/25 12:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 18:53
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 44,300.0	Analyst	: CVN,
Lab File ID	: WG2082916-18	Instrument ID	: IC3
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-04	Date Collected	: 06/16/25 13:45
Client ID	: MW-1DRZ	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 19:05
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 44,300.0	Analyst	: CVN,
Lab File ID	: WG2082916-18	Instrument ID	: IC3
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	0.070	0.050	0.013	



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2537655-05	Date Collected	: 06/16/25 13:50
Client ID	: MW-1SR	Date Received	: 06/16/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 19:17
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 44,300.0	Analyst	: CVN,
Lab File ID	: WG2082916-18	Instrument ID	: IC3
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	0.039	0.050	0.013	J

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082916-1
Client ID : WG2082916-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 44,300.0
Lab File ID : WG2082916-18
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/24/25 13:39
Dilution Factor : 1
Analyst : CVN,
Instrument ID : IC3
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	ND	0.050	0.013	U



Form 1
WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082916-4
Client ID : WG2082916-4 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 44,300.0
Lab File ID : WG2082916-18
Sample Amount :
Digestion Method :

Lab Number : L2537655
Project Number : 2232.0006Y005
Date Collected : 06/11/25 17:50
Date Received : 06/11/25
Date Analyzed : 06/24/25 20:42
Dilution Factor : 1
Analyst : CVN,
Instrument ID : IC3
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	ND	0.050	0.013	U

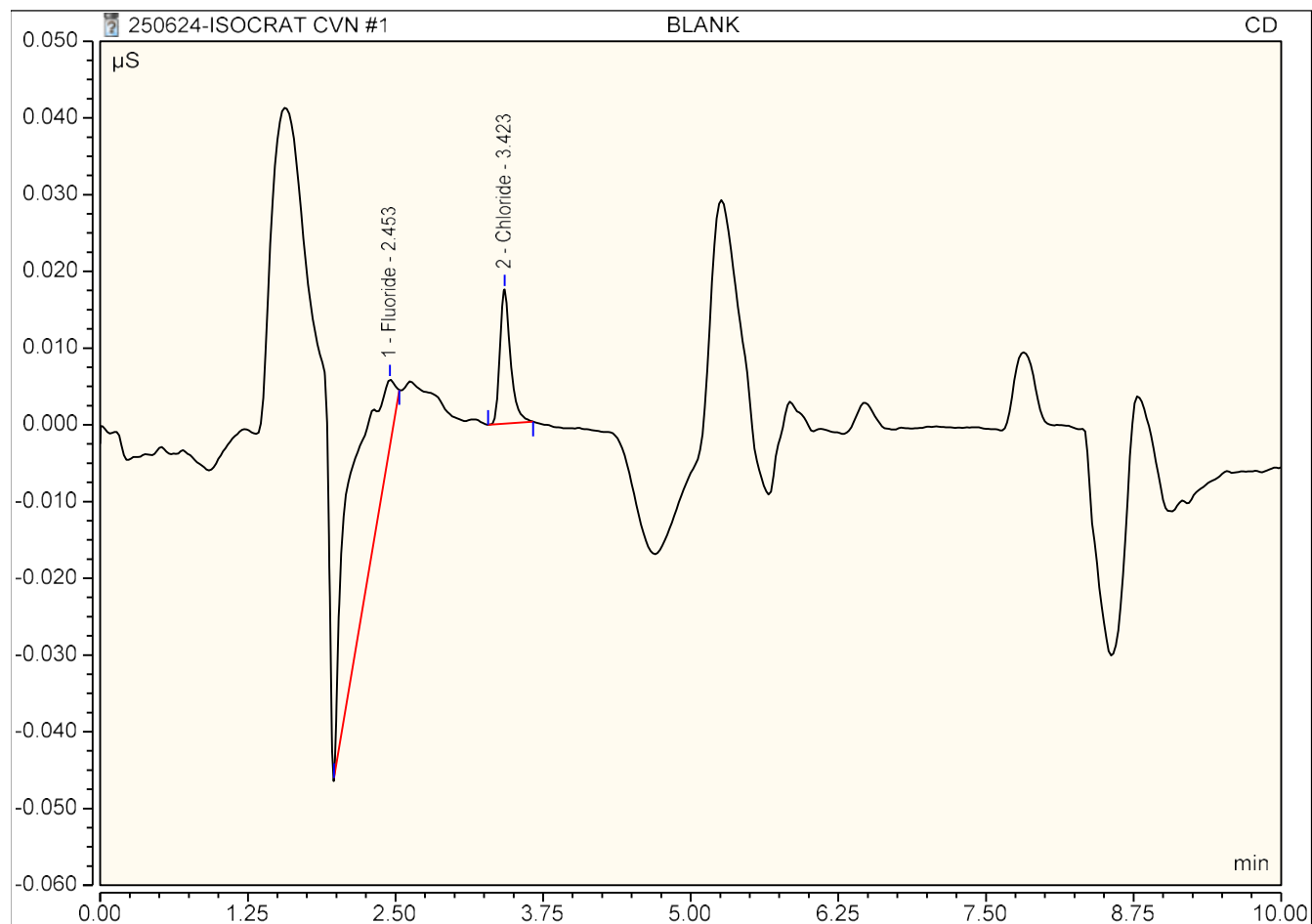


Sample Raw Data

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:	21-May-2025 / 19:51	Run Time:	10.00

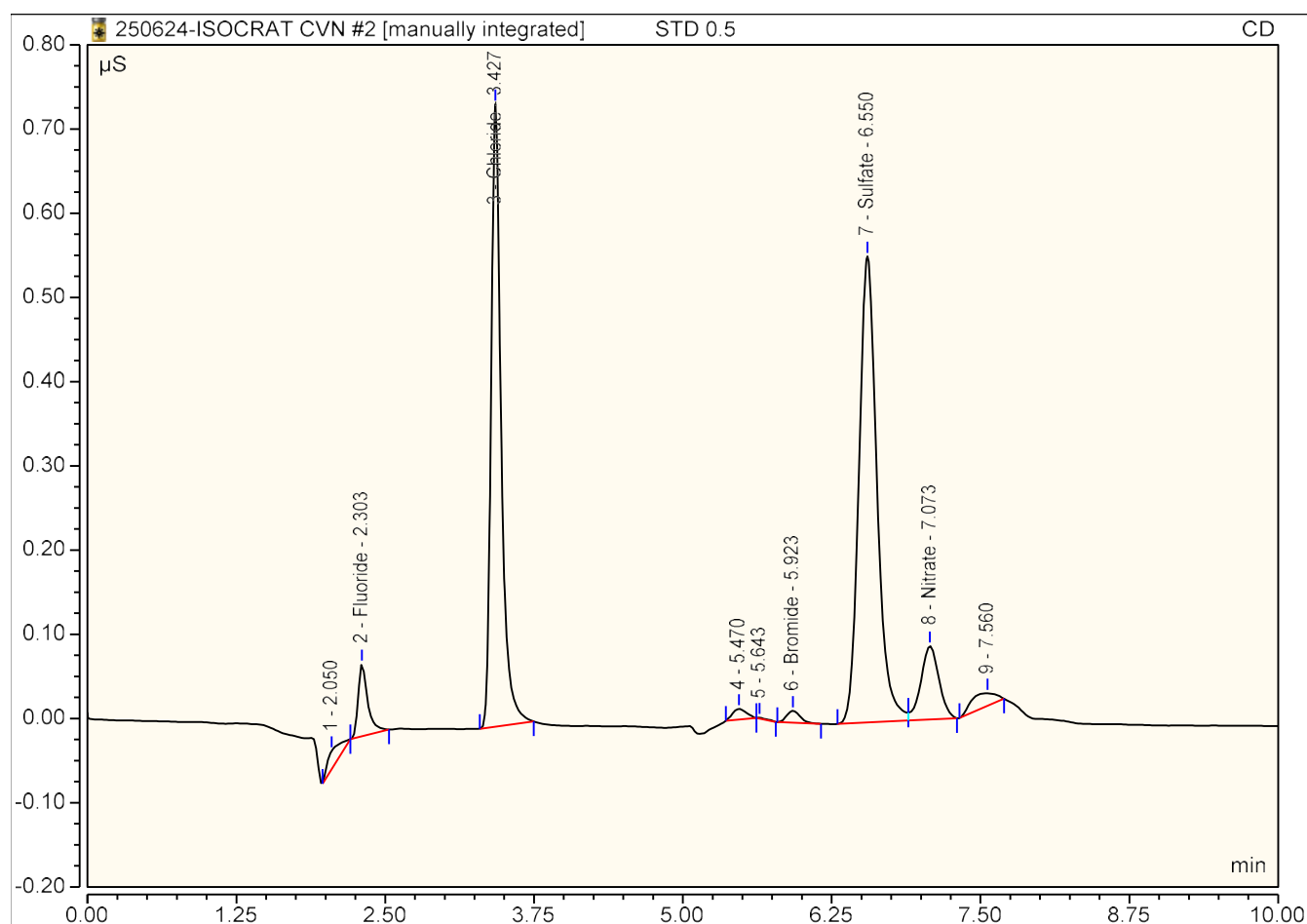
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
1	2.45	Fluoride	BMB	0.009	0.009	0.0440
2	3.42	Chloride	BMB	0.002	0.017	0.1000
TOTAL:				0.01	0.03	0.14



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:	21-May-2025 / 20:04	Run Time:	10.00

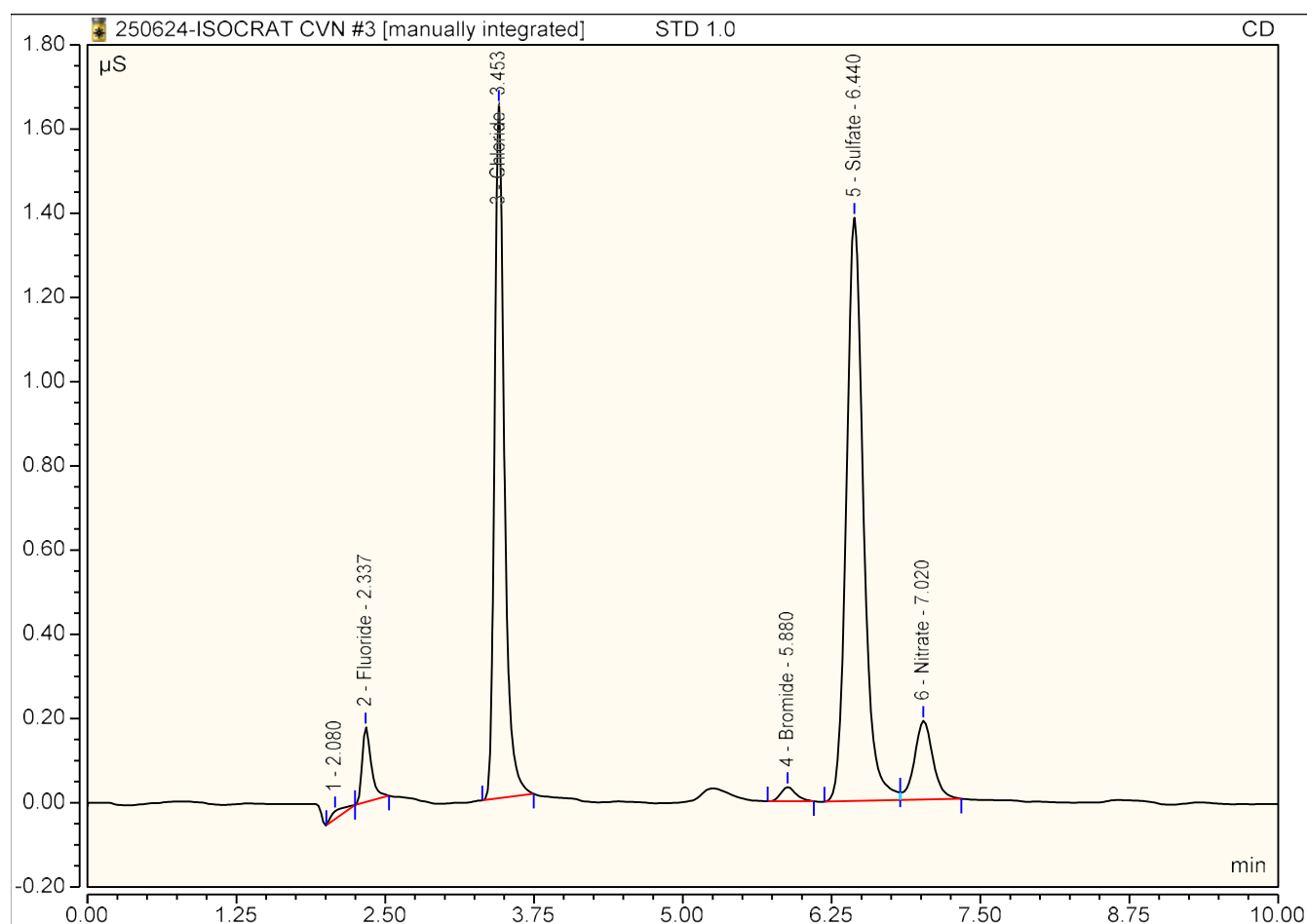
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.30	Fluoride	BMB	0.008	0.086	0.0418
3	3.43	Chloride	BMB	0.072	0.739	0.2829
6	5.92	Bromide	BMB	0.002	0.014	0.0511
7	6.55	Sulfate	BM *	0.097	0.553	1.0180
8	7.07	Nitrate	MB*	0.015	0.087	0.0429
TOTAL:				0.19	1.48	1.44



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:	21-May-2025 / 20:16	Run Time:	10.00

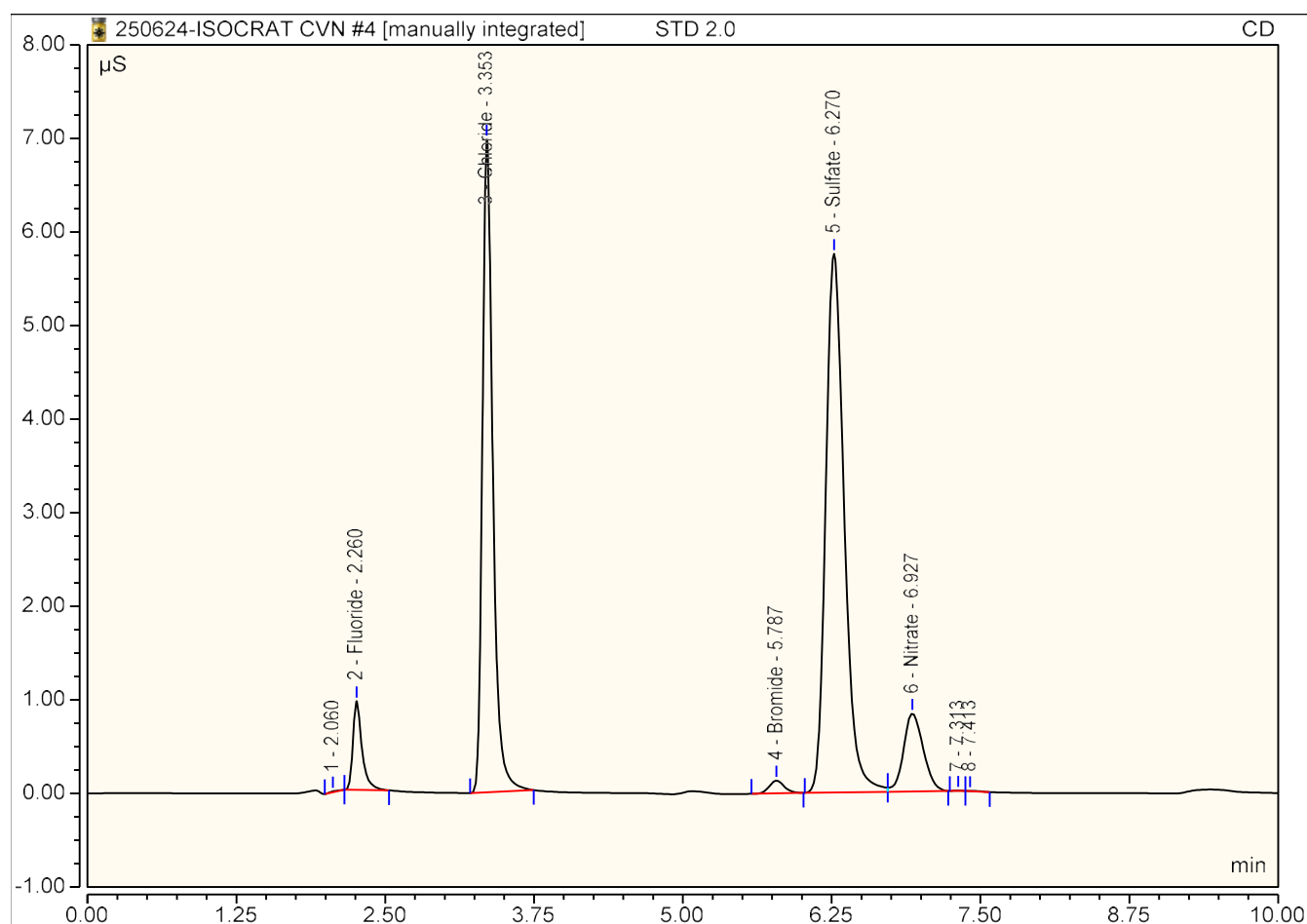
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.34	Fluoride	BMB	0.016	0.178	0.0555
3	3.45	Chloride	BMB	0.158	1.647	0.5048
4	5.88	Bromide	BMB	0.005	0.034	0.0744
5	6.44	Sulfate	BM *	0.230	1.385	1.4554
6	7.02	Nitrate	MB*	0.034	0.187	0.0622
TOTAL:				0.44	3.43	2.15



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:	21-May-2025 / 20:28	Run Time:	10.00

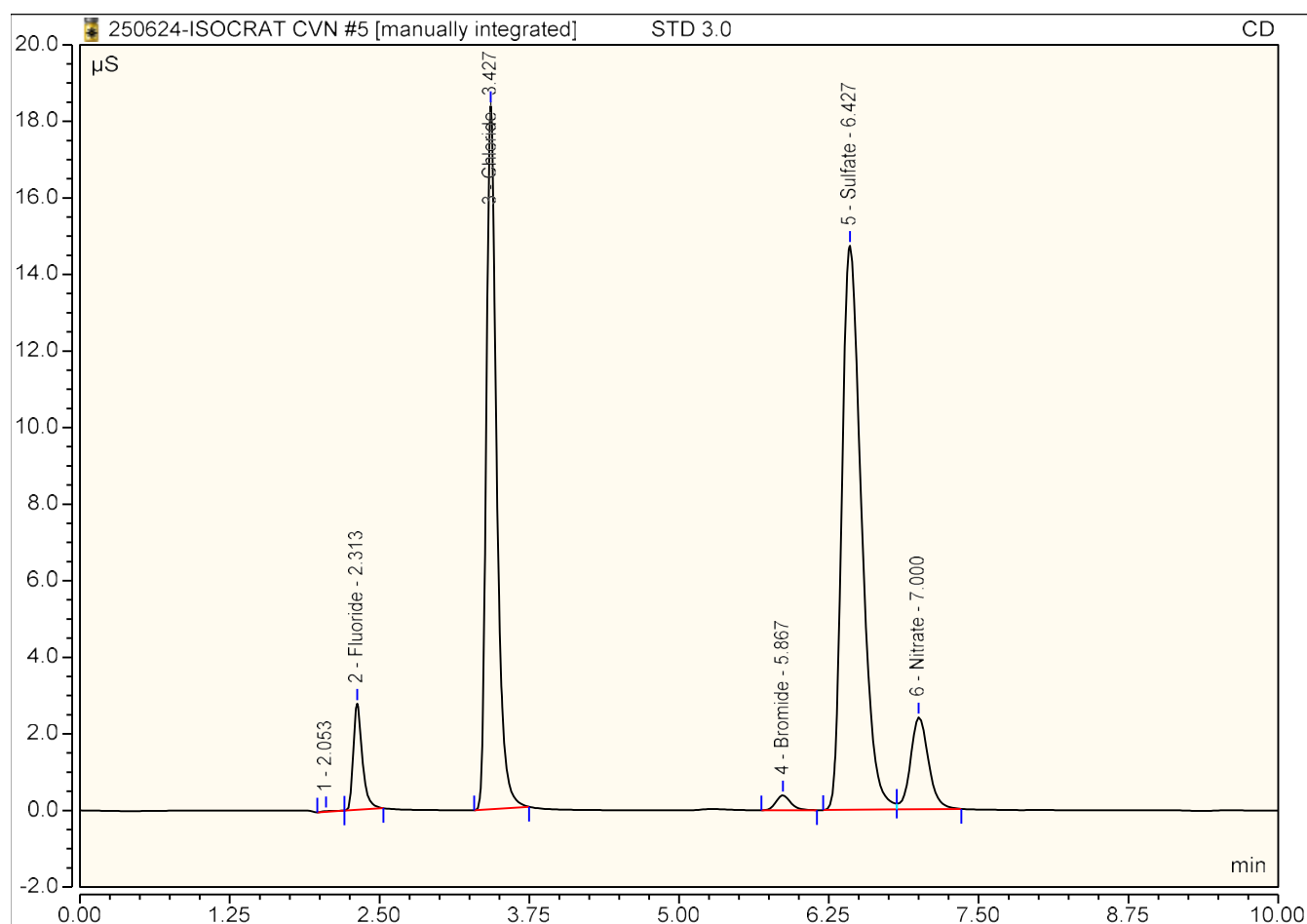
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.26	Fluoride	BMB	0.083	0.947	0.1773
3	3.35	Chloride	BMB	0.708	6.976	1.9278
4	5.79	Bromide	BMB	0.020	0.138	0.1845
5	6.27	Sulfate	BM *	1.036	5.755	4.1152
6	6.93	Nitrate	MB*	0.160	0.832	0.1949
TOTAL:				2.01	14.65	6.60



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:	21-May-2025 / 20:40	Run Time:	10.00

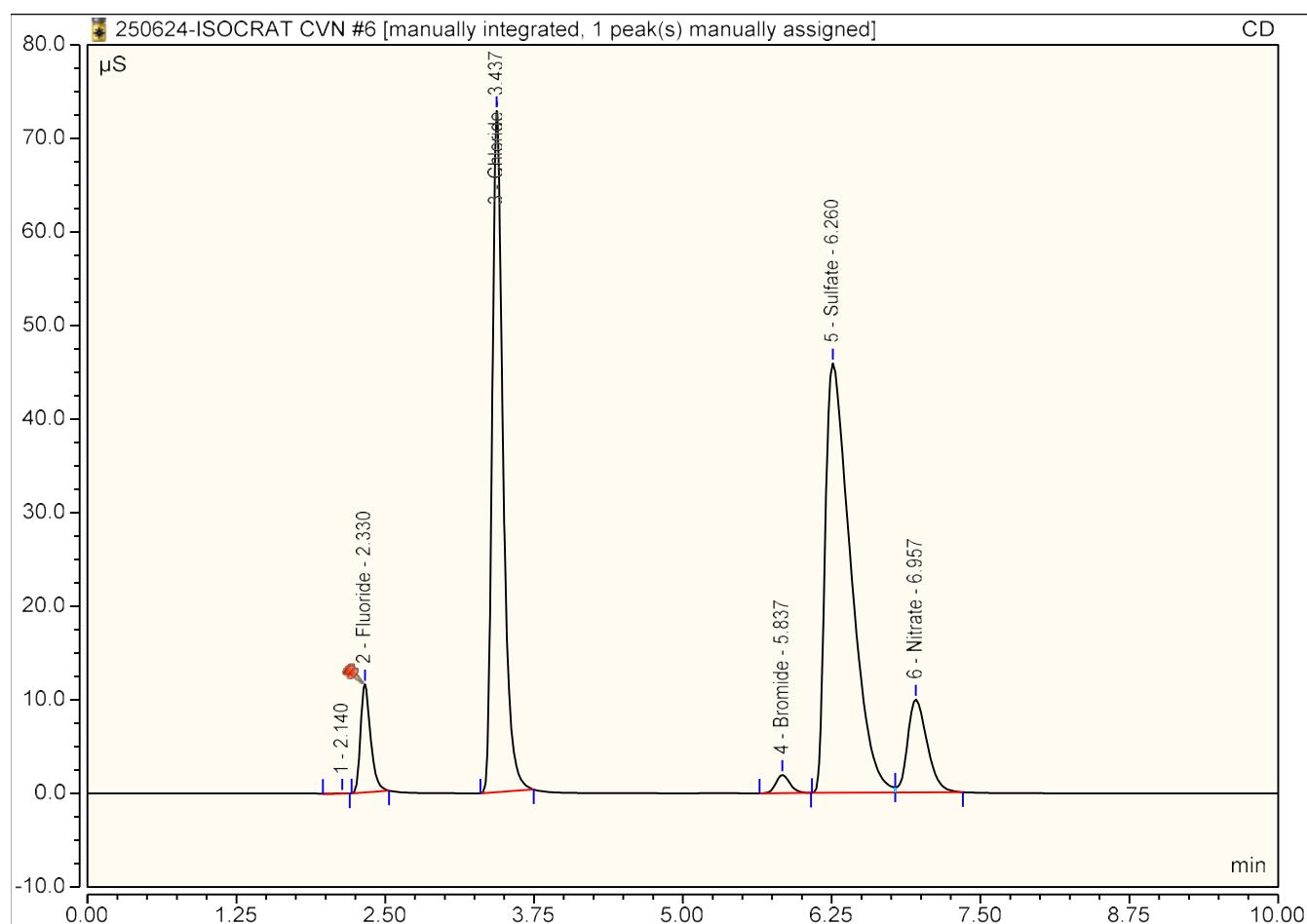
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.240	2.772	0.4593
3	3.43	Chloride	BMB	1.847	18.371	4.8782
4	5.87	Bromide	BMB	0.056	0.390	0.4524
5	6.43	Sulfate	BM *	2.792	14.733	9.9062
6	7.00	Nitrate	MB*	0.419	2.404	0.4665
TOTAL:				5.35	38.67	16.16



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:	21-May-2025 / 20:52	Run Time:	10.00

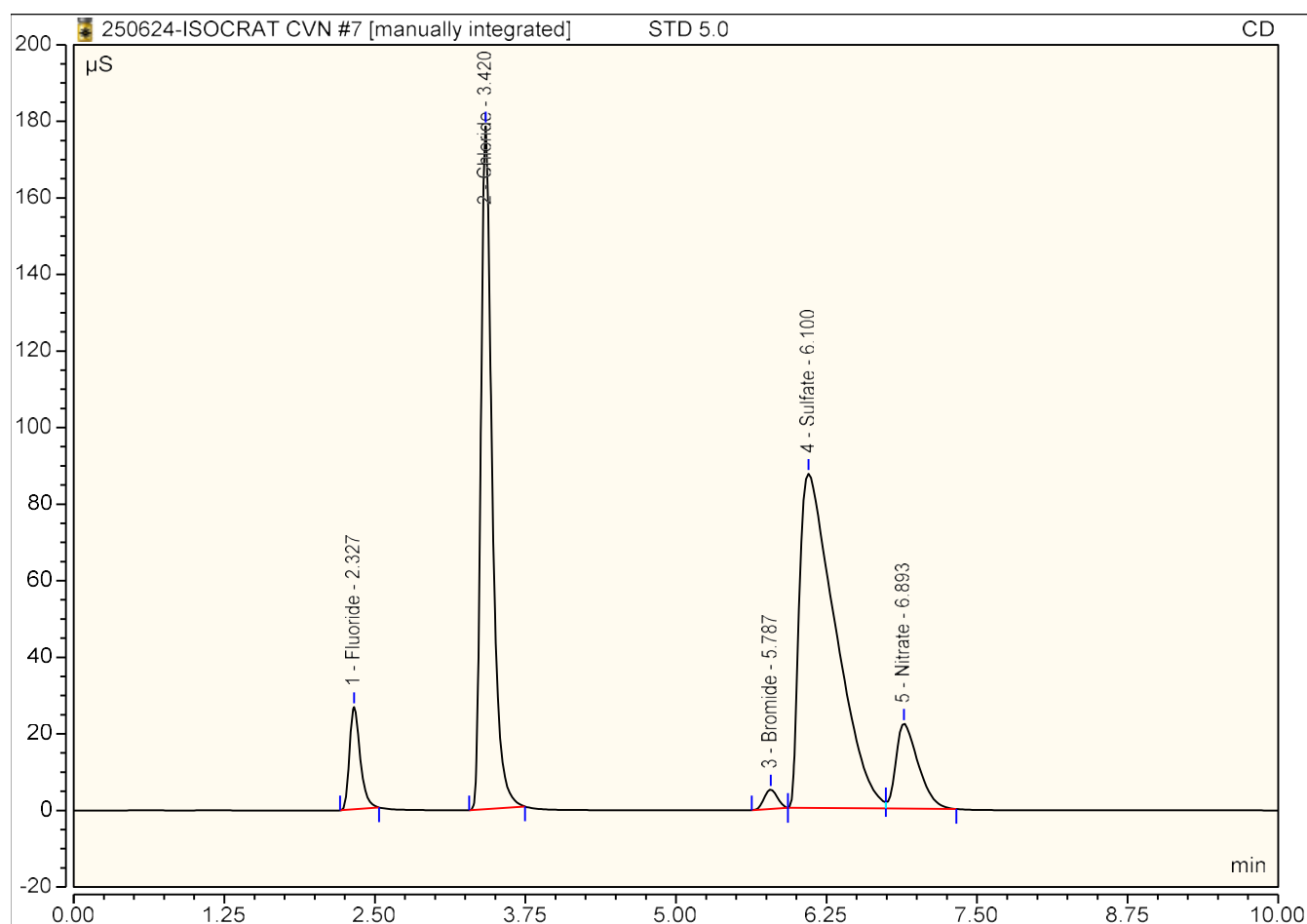
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB^	1.128	11.556	2.0605
3	3.44	Chloride	BMB	7.777	72.796	20.2356
4	5.84	Bromide	BMB	0.266	1.950	2.0125
5	6.26	Sulfate	BM *	11.417	45.897	38.3461
6	6.96	Nitrate	MB*	1.886	9.931	2.0083
TOTAL:				22.47	142.13	64.66



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:	21-May-2025 / 21:04	Run Time:	10.00

No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
1	2.33	Fluoride	BMB	2.748	26.716	4.9806
2	3.42	Chloride	BMB	19.240	178.379	49.9206
3	5.79	Bromide	BMB*	0.653	5.098	4.8837
4	6.10	Sulfate	bM *	30.313	87.355	100.6592
5	6.89	Nitrate	MB*	4.778	22.200	5.0460
TOTAL:				57.73	319.75	165.49

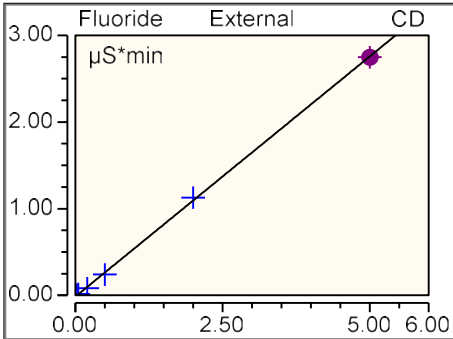


Calibration Batch Report

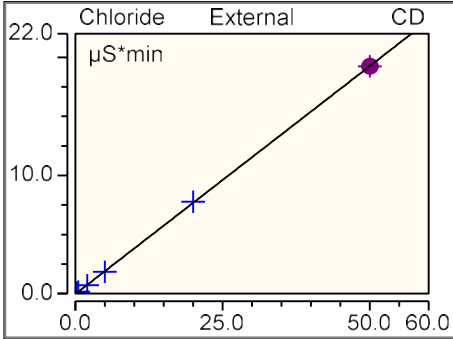
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Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	21-May-2025 / 21:04	Run Time:	10

Calibration Summary							
Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffset	6.000	-0.015	0.555	0.000	99.9661
Chloride	Area	in, WithOffset	6.000	-0.037	0.386	0.000	99.9957
Bromide	Area	in, WithOffset	5.000	-0.005	0.135	0.000	99.8572
Sulfate	Area	in, WithOffset	6.000	-0.212	0.303	0.000	99.9523
Nitrate	Area	in, WithOffset	5.000	-0.026	0.952	0.000	99.9388
AVERAGE:				-0.0588	0.4662	0.0000	99.9420

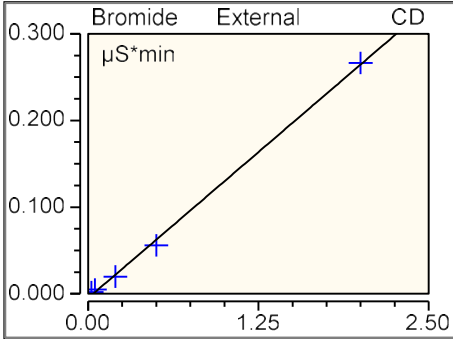
Injection Name	Ret.Time min	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount
	CD	CD	CD	CD
STD 0.5	Fluoride 2.303	Fluoride 0.0080	Fluoride 0.086	Fluoride 0.042
STD 1.0	2.337	0.0156	0.178	0.055
STD 2.0	2.260	0.0832	0.947	0.177
STD 3.0	2.313	0.2396	2.772	0.459
STD 4.0	2.330	1.1278	11.556	2.061
STD 5.0	2.327	2.7476	26.716	4.981
Average	2.312			
Rel. Std. Dev.	1.212 %			



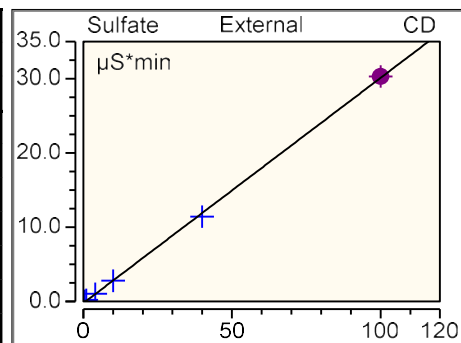
Injection Name	Ret.Time min	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount
	CD	CD	CD	CD
STD 0.5	Chloride 3.427	Chloride 0.0724	Chloride 0.739	Chloride 0.283
STD 1.0	3.453	0.1581	1.647	0.505
STD 2.0	3.353	0.7076	6.976	1.928
STD 3.0	3.427	1.8469	18.371	4.878
STD 4.0	3.437	7.7770	72.796	20.236
STD 5.0	3.420	19.2396	178.379	49.921
Average	3.419			
Rel. Std. Dev.	1.006 %			



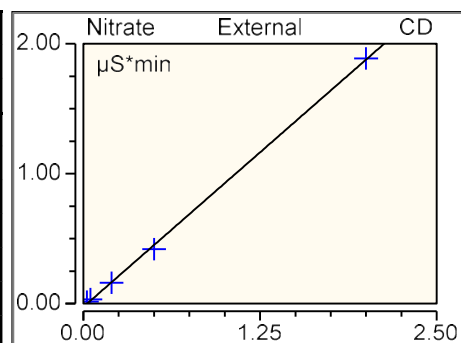
Injection Name	Ret.Time min	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount
	CD	CD	CD	CD
STD 0.5	Bromide 5.923	Bromide 0.0019	Bromide 0.014	Bromide 0.051
STD 1.0	5.880	0.0050	0.034	0.074
STD 2.0	5.787	0.0199	0.138	0.185
STD 3.0	5.867	0.0560	0.390	0.452
STD 4.0	5.837	0.2663	1.950	2.013
STD 5.0	5.787	0.6535	5.098	4.884
Average	5.847			
Rel. Std. Dev.	0.927 %			



Injection Name	Ret. Time min CD	Area $\mu\text{S} \cdot \text{min}$ CD	Height μS CD	Amount CD
STD 0.5	Sulfate 6.550	Sulfate 0.0971	Sulfate 0.553	Sulfate 1.018
STD 1.0	6.440	0.2297	1.385	1.455
STD 2.0	6.270	1.0363	5.755	4.115
STD 3.0	6.427	2.7924	14.733	9.906
STD 4.0	6.260	11.4169	45.897	38.346
STD 5.0	6.100	30.3133	87.355	100.659
Average	6.341			
Rel. Std. Dev.	2.548 %			



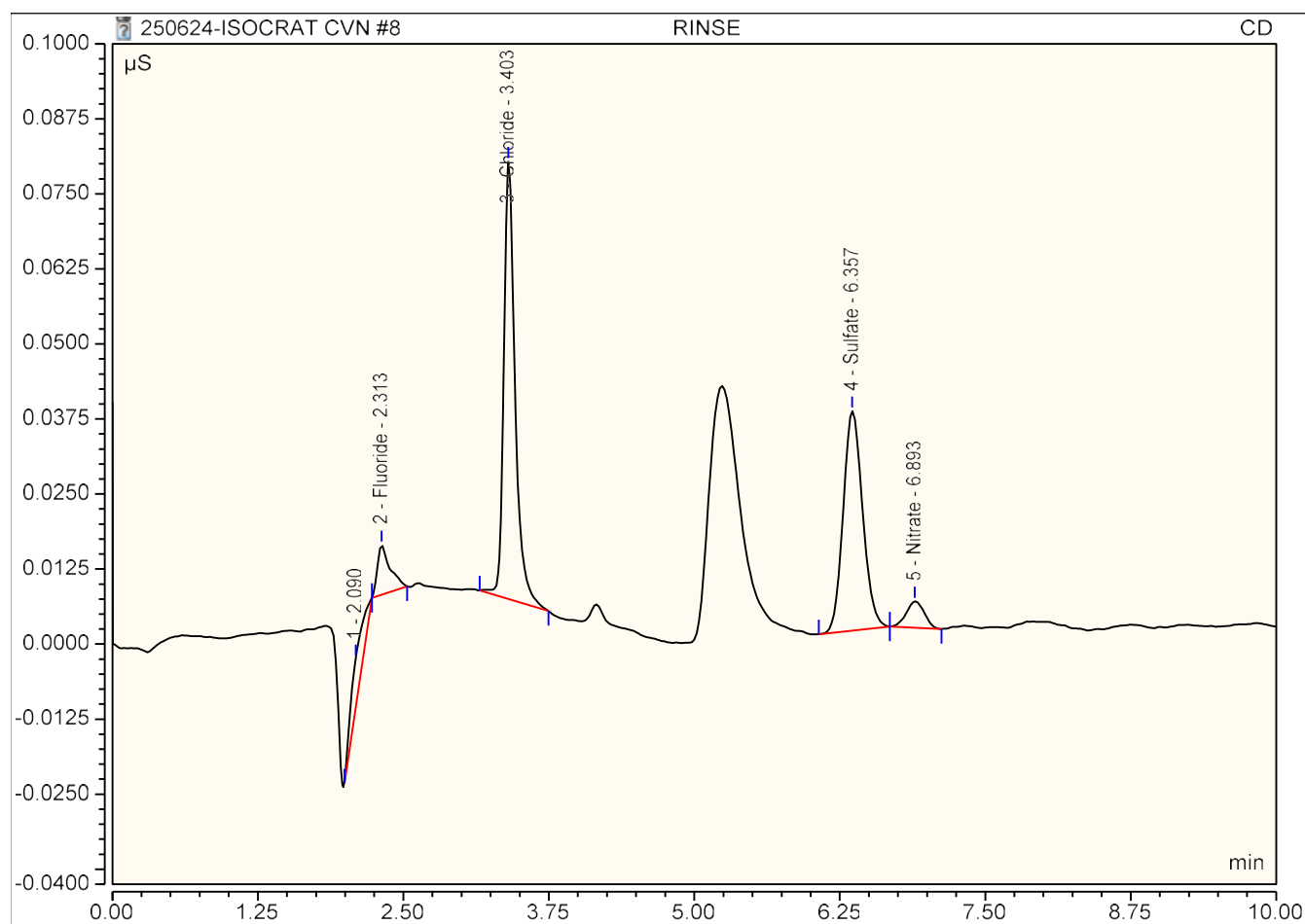
Injection Name	Ret. Time min CD	Area $\mu\text{S} \cdot \text{min}$ CD	Height μS CD	Amount CD
STD 0.5	Nitrate 7.073	Nitrate 0.0153	Nitrate 0.087	Nitrate 0.043
STD 1.0	7.020	0.0337	0.187	0.062
STD 2.0	6.927	0.1600	0.832	0.195
STD 3.0	7.000	0.4186	2.404	0.467
STD 4.0	6.957	1.8863	9.931	2.008
STD 5.0	6.893	4.7780	22.200	5.046
Average	6.978			
Rel. Std. Dev.	0.942 %			



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:	24-Jun-2025 / 12:38	Run Time:	10.00

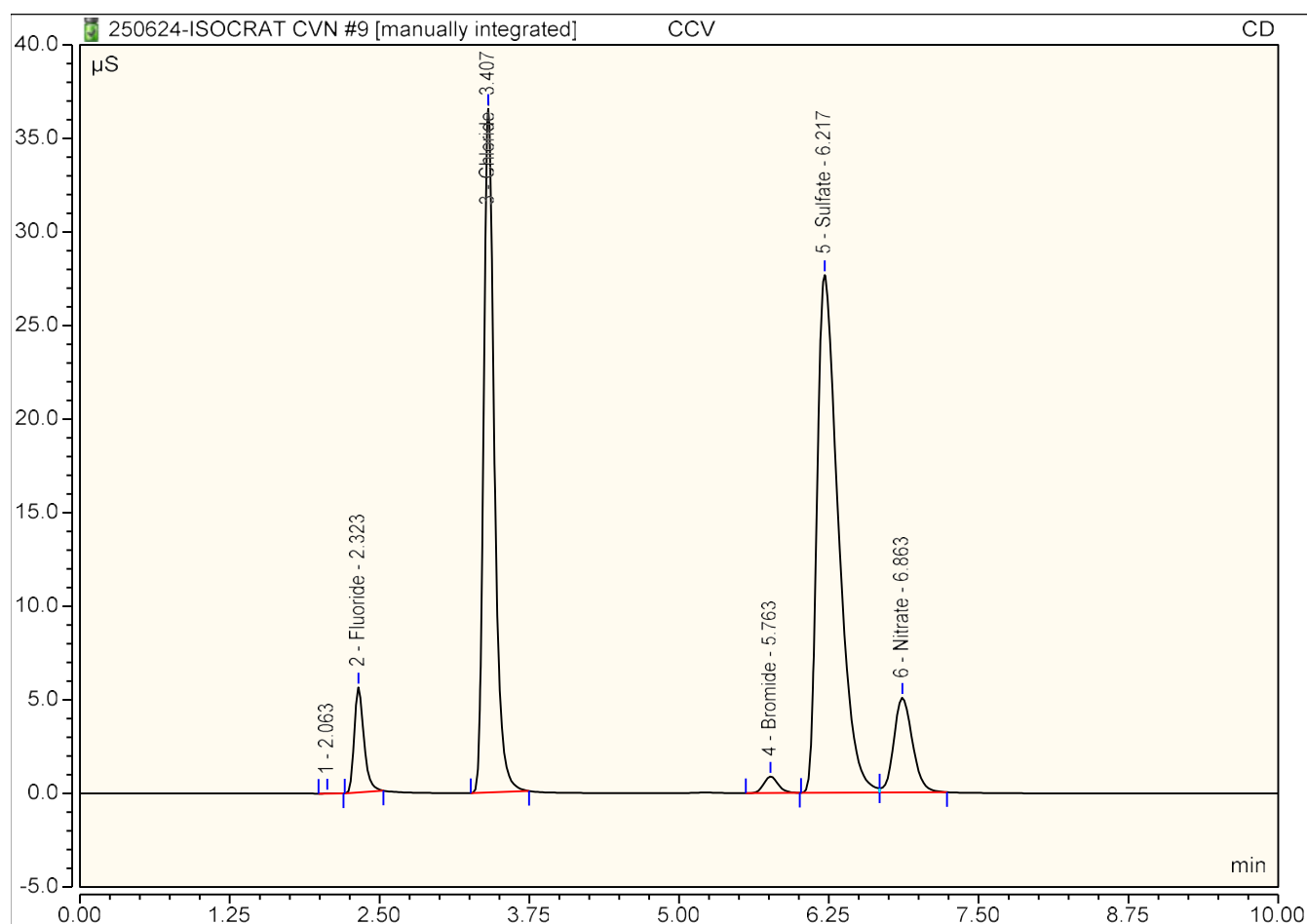
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.001	0.008	0.0291
3	3.40	Chloride	BMB	0.008	0.073	0.1165
4	6.36	Sulfate	BMB	0.007	0.037	0.7212
5	6.89	Nitrate	BMB	0.001	0.004	0.0277
TOTAL:				0.02	0.12	0.89



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:	24-Jun-2025 / 12:51	Run Time:	10.00

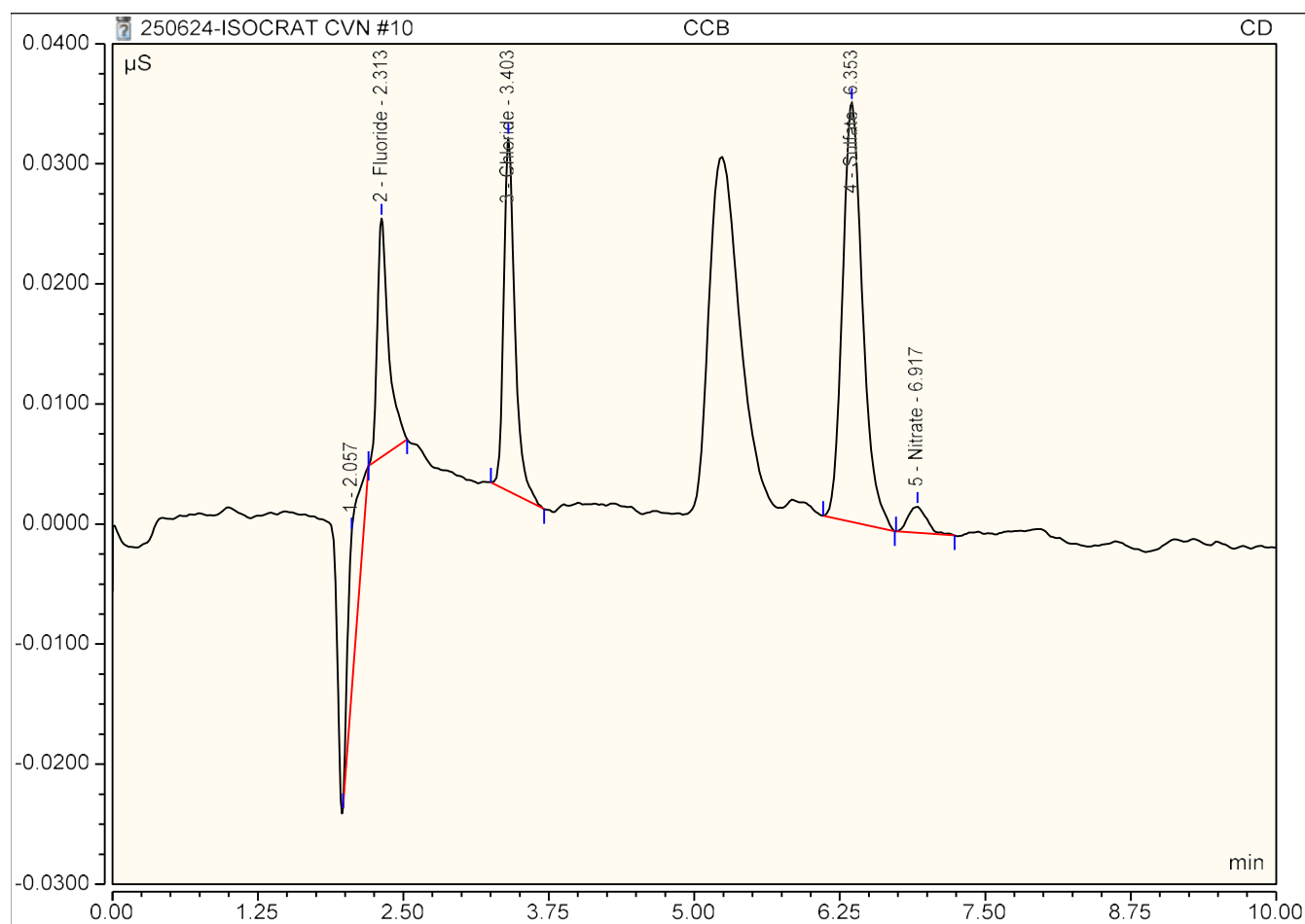
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.522	5.615	0.9688
3	3.41	Chloride	BMB	3.811	36.536	9.9652
4	5.76	Bromide	BMB	0.124	0.885	0.9582
5	6.22	Sulfate	BM *	5.706	27.663	19.5130
6	6.86	Nitrate	MB*	0.915	5.058	0.9881
TOTAL:				11.08	75.76	32.39



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:	24-Jun-2025 / 13:03	Run Time:	10.00

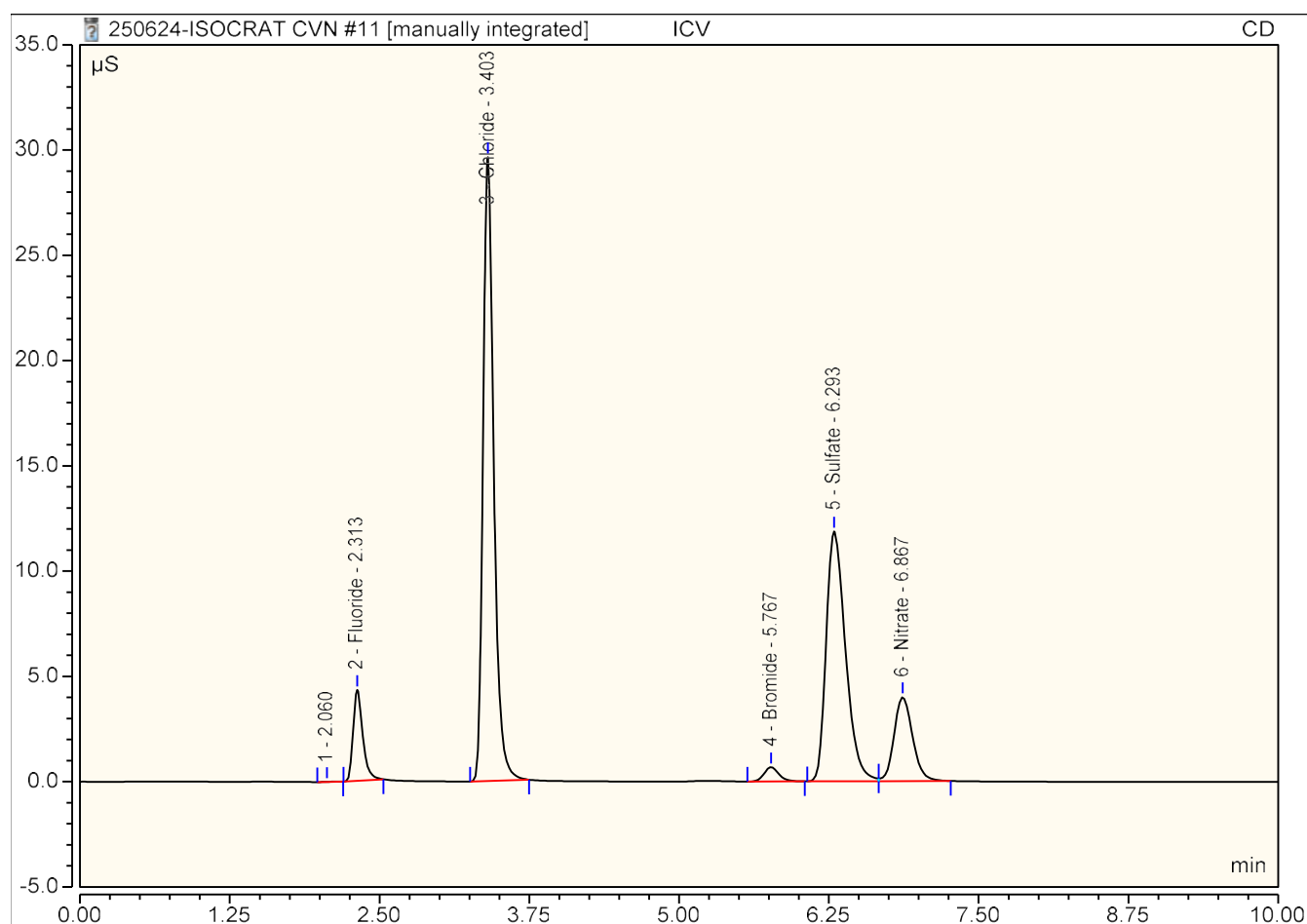
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.002	0.020	0.0313
3	3.40	Chloride	BMB	0.003	0.029	0.1039
4	6.35	Sulfate	BMB	0.007	0.035	0.7210
5	6.92	Nitrate	BMB	0.000	0.002	0.0273
TOTAL:				0.01	0.09	0.88



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:	24-Jun-2025 / 13:15	Run Time:	10.00

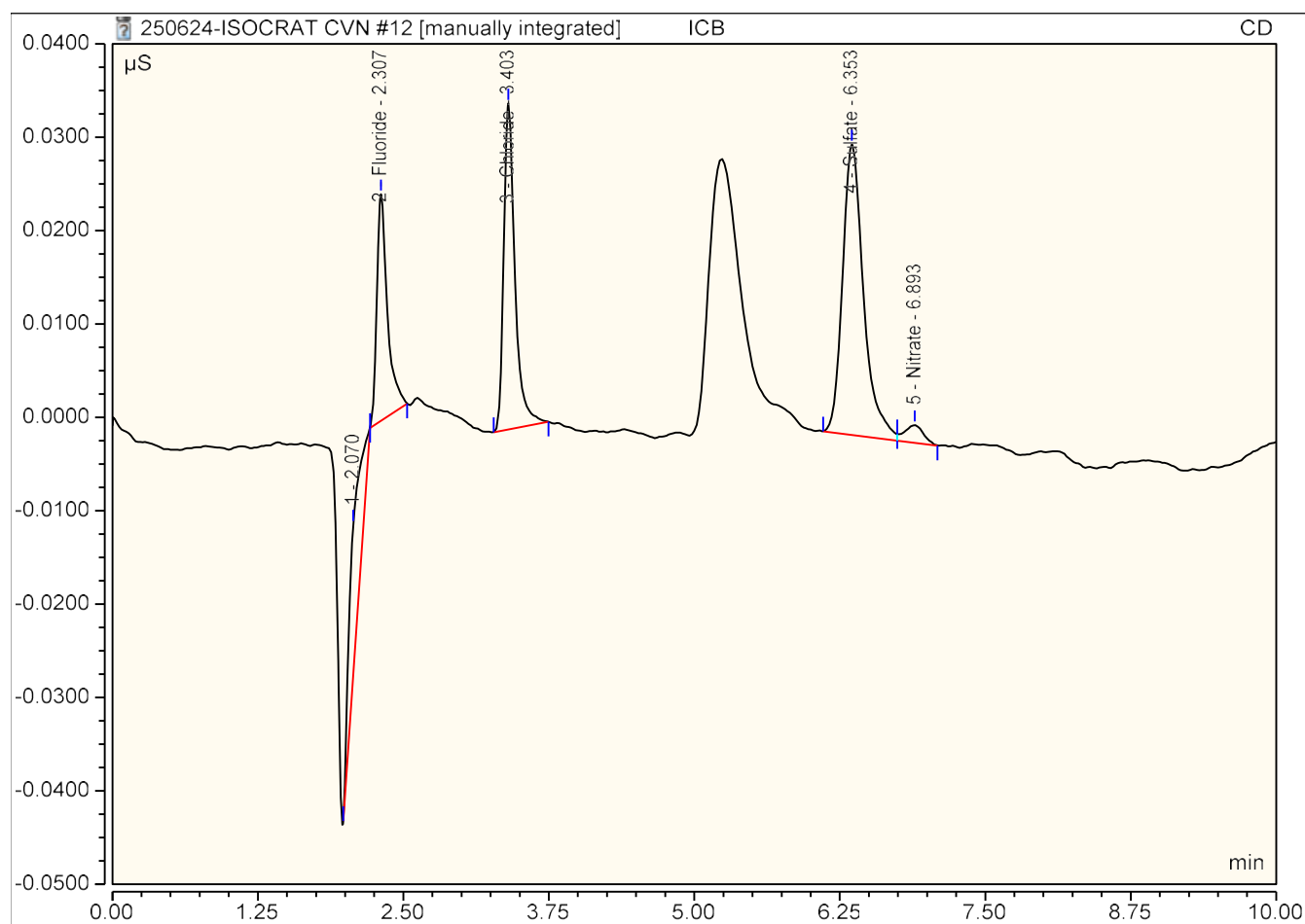
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.400	4.315	0.7477
3	3.40	Chloride	BMB	3.076	29.624	8.0606
4	5.77	Bromide	BMB	0.097	0.680	0.7569
5	6.29	Sulfate	BM *	2.215	11.871	8.0013
6	6.87	Nitrate	MB*	0.717	3.988	0.7797
TOTAL:				6.50	50.48	18.35



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:	24-Jun-2025 / 13:27	Run Time:	10.00

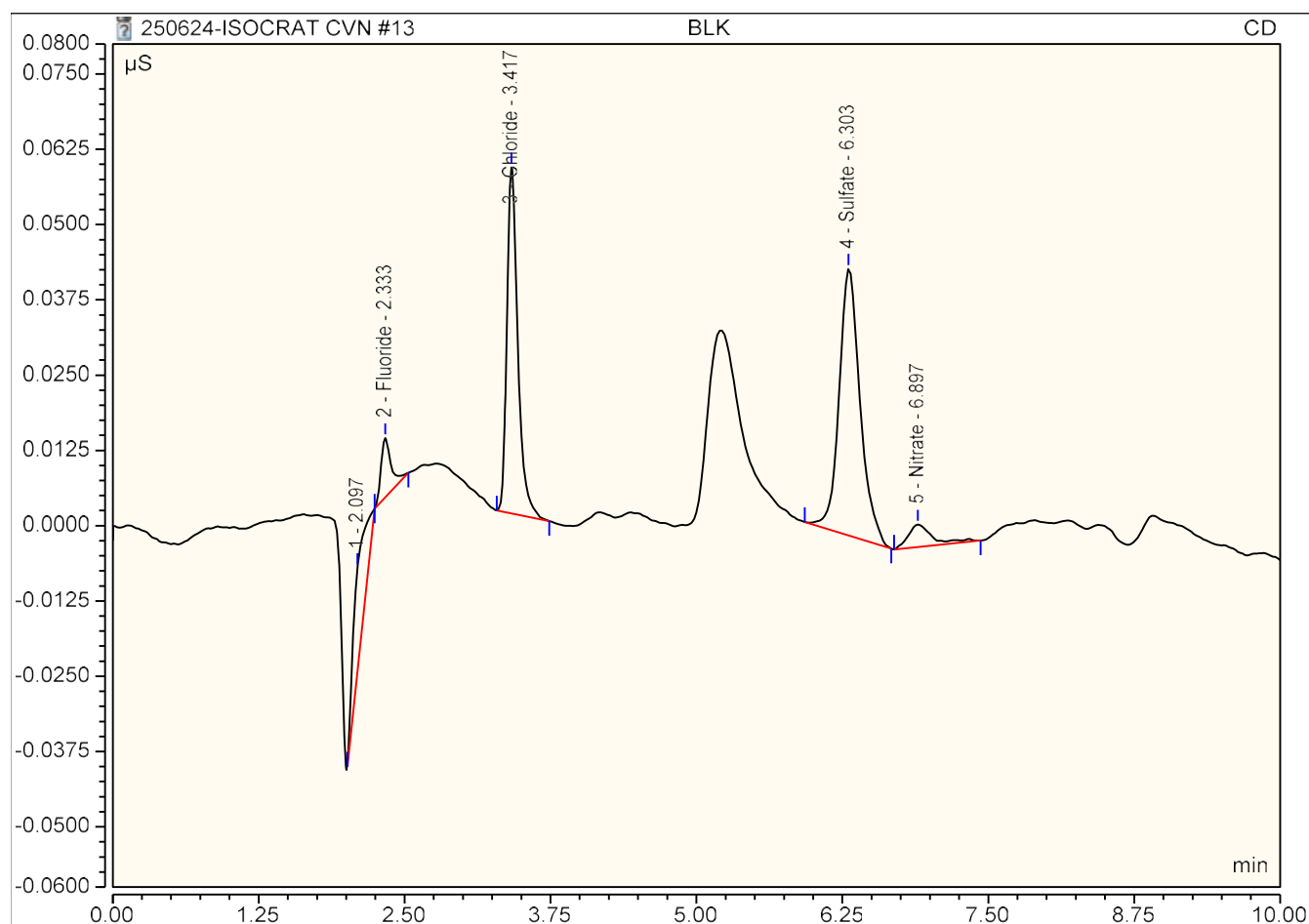
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.003	0.024	0.0319
3	3.40	Chloride	BMB	0.004	0.035	0.1054
4	6.35	Sulfate	BM *	0.007	0.031	0.7193
5	6.89	Nitrate	MB*	0.000	0.002	0.0272
TOTAL:				0.01	0.09	0.88



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:	24-Jun-2025 / 13:39	Run Time:	10.00

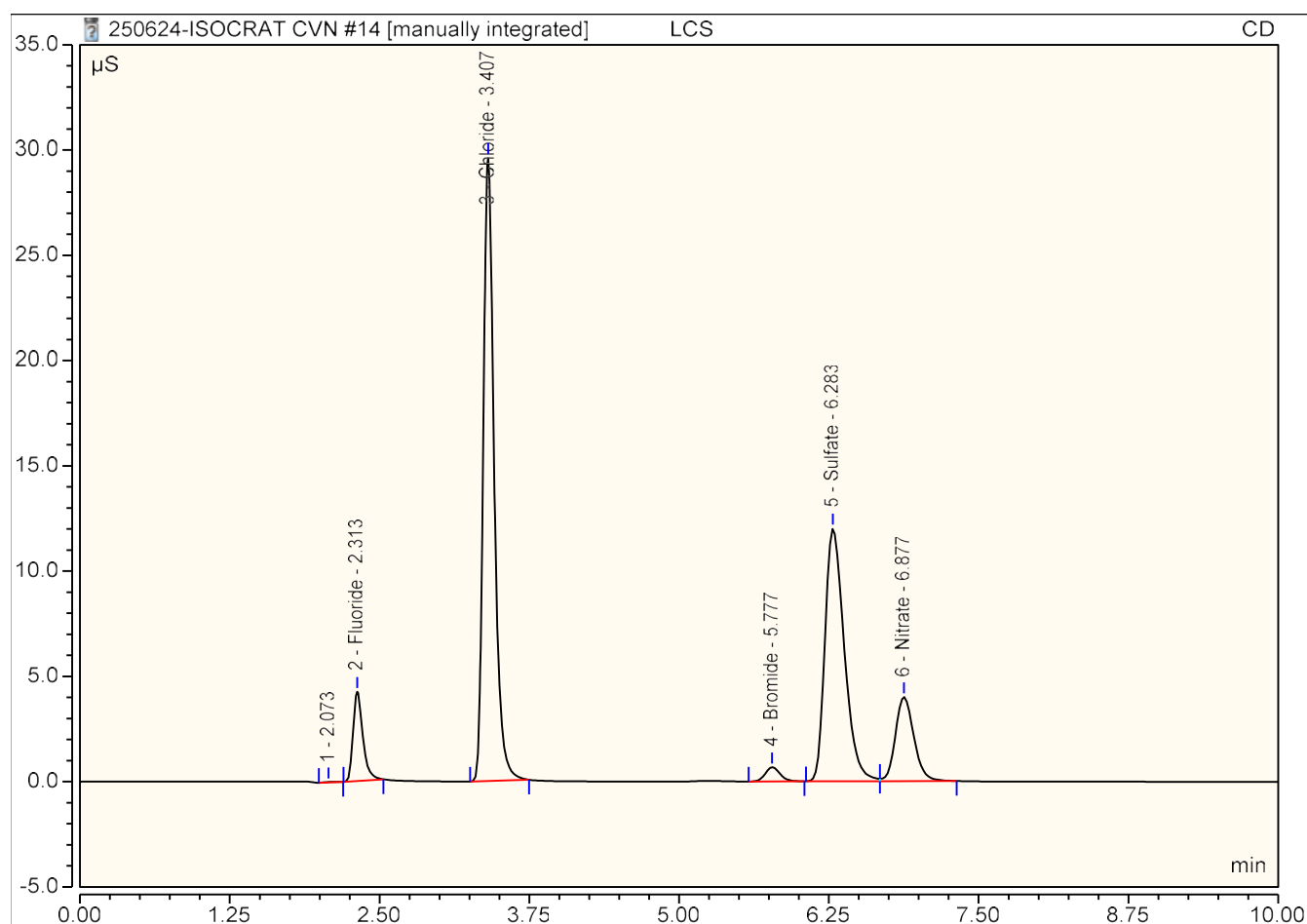
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.001	0.010	0.0290
3	3.42	Chloride	BMB	0.006	0.057	0.1115
4	6.30	Sulfate	BMB	0.009	0.044	0.7283
5	6.90	Nitrate	BMB	0.001	0.004	0.0278
TOTAL:				0.02	0.12	0.90



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:	24-Jun-2025 / 13:51	Run Time:	10.00

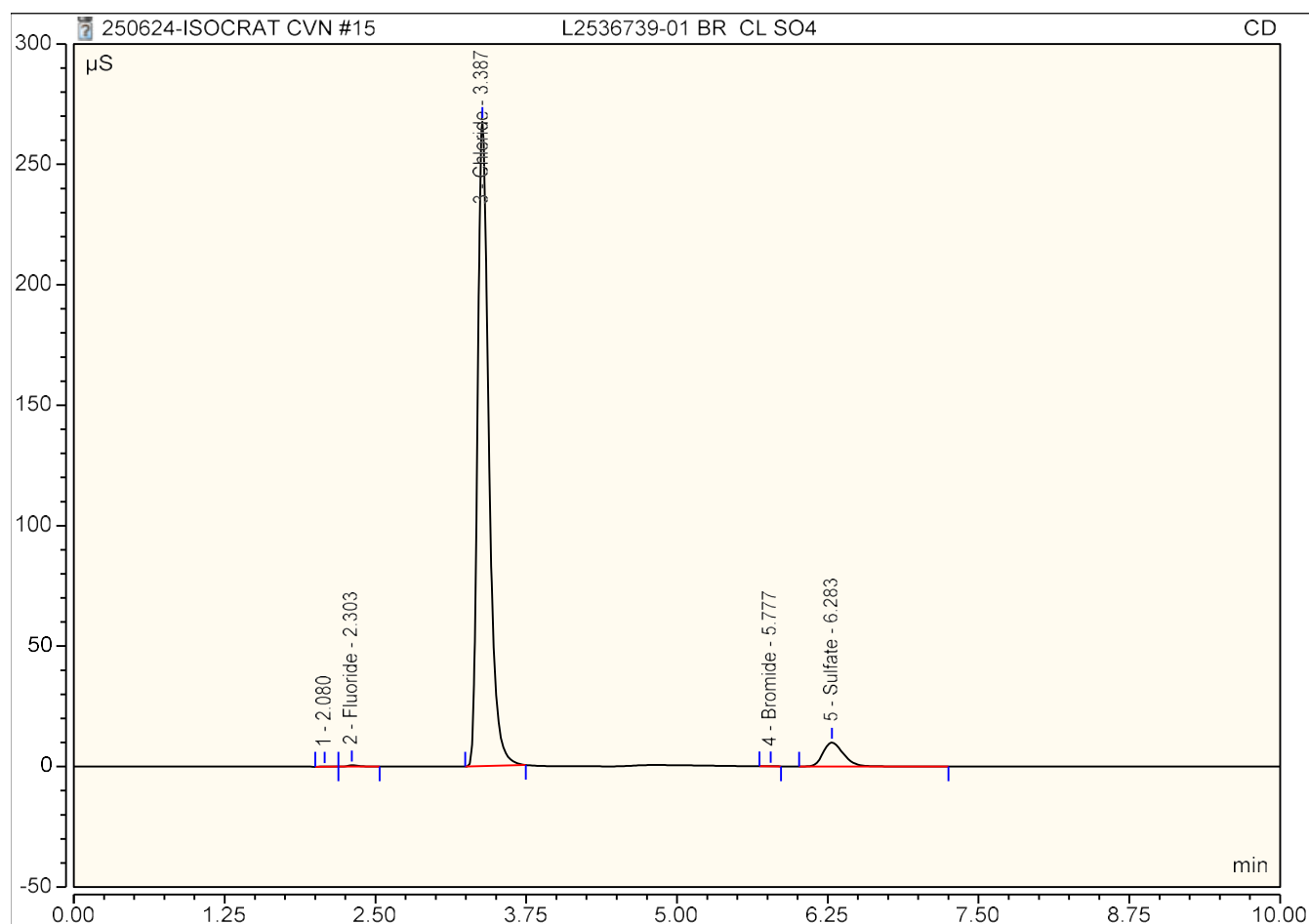
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.397	4.240	0.7433
3	3.41	Chloride	BMB	3.101	29.601	8.1267
4	5.78	Bromide	BMB	0.097	0.678	0.7560
5	6.28	Sulfate	BM *	2.244	12.009	8.0962
6	6.88	Nitrate	MB*	0.716	3.997	0.7793
TOTAL:				6.56	50.52	18.50



Peak Integration Report

Sample Name:	L2536739-01 BR CL SO4	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 14:03	Run Time:	10.00

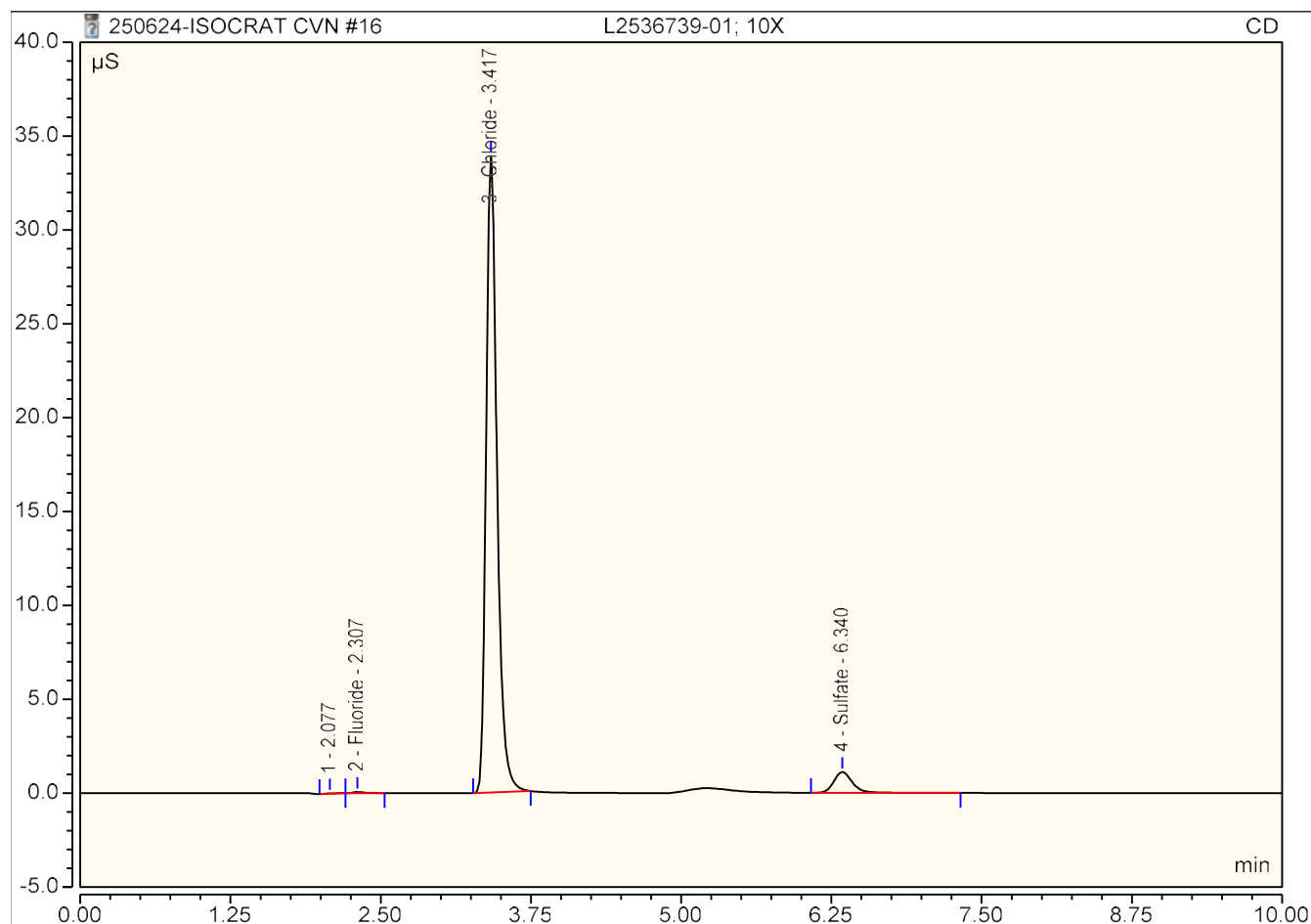
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.30	Fluoride	BMB	0.056	0.564	0.1282
3	3.39	Chloride	BMB	28.890	267.543	74.9119
4	5.78	Bromide	BMB	0.000	0.003	0.0392
5	6.28	Sulfate	BMB	1.958	9.937	7.1552
TOTAL:				30.90	278.05	82.23



Peak Integration Report

Sample Name:	L2536739-01; 10X	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	10.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 14:15	Run Time:	10.00

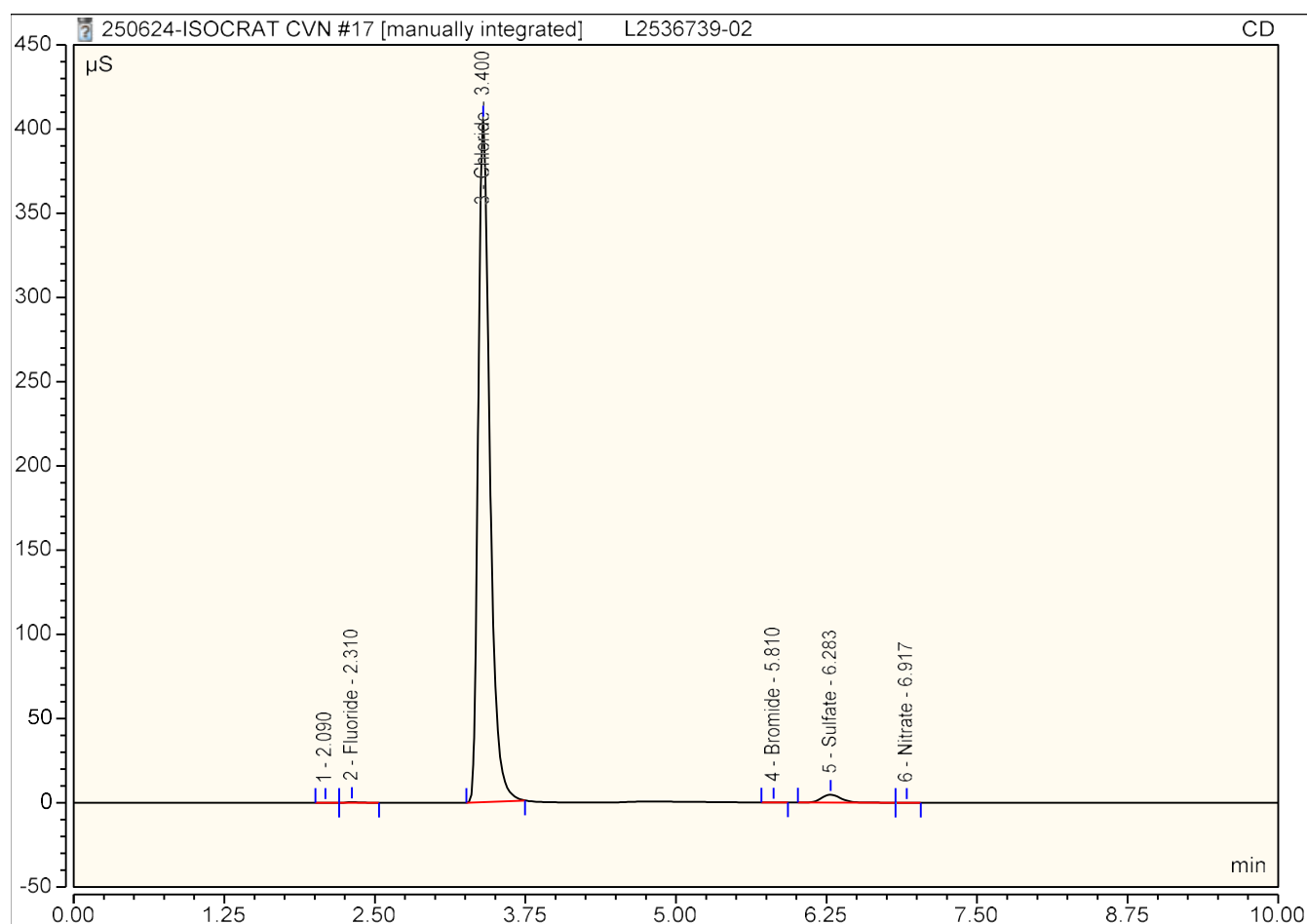
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.007	0.063	0.3928
3	3.42	Chloride	BMB	3.563	33.915	93.2158
4	6.34	Sulfate	BMB	0.201	1.112	13.6133
TOTAL:				3.77	35.09	107.22



Peak Integration Report

Sample Name:	L2536739-02	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 14:27	Run Time:	10.00

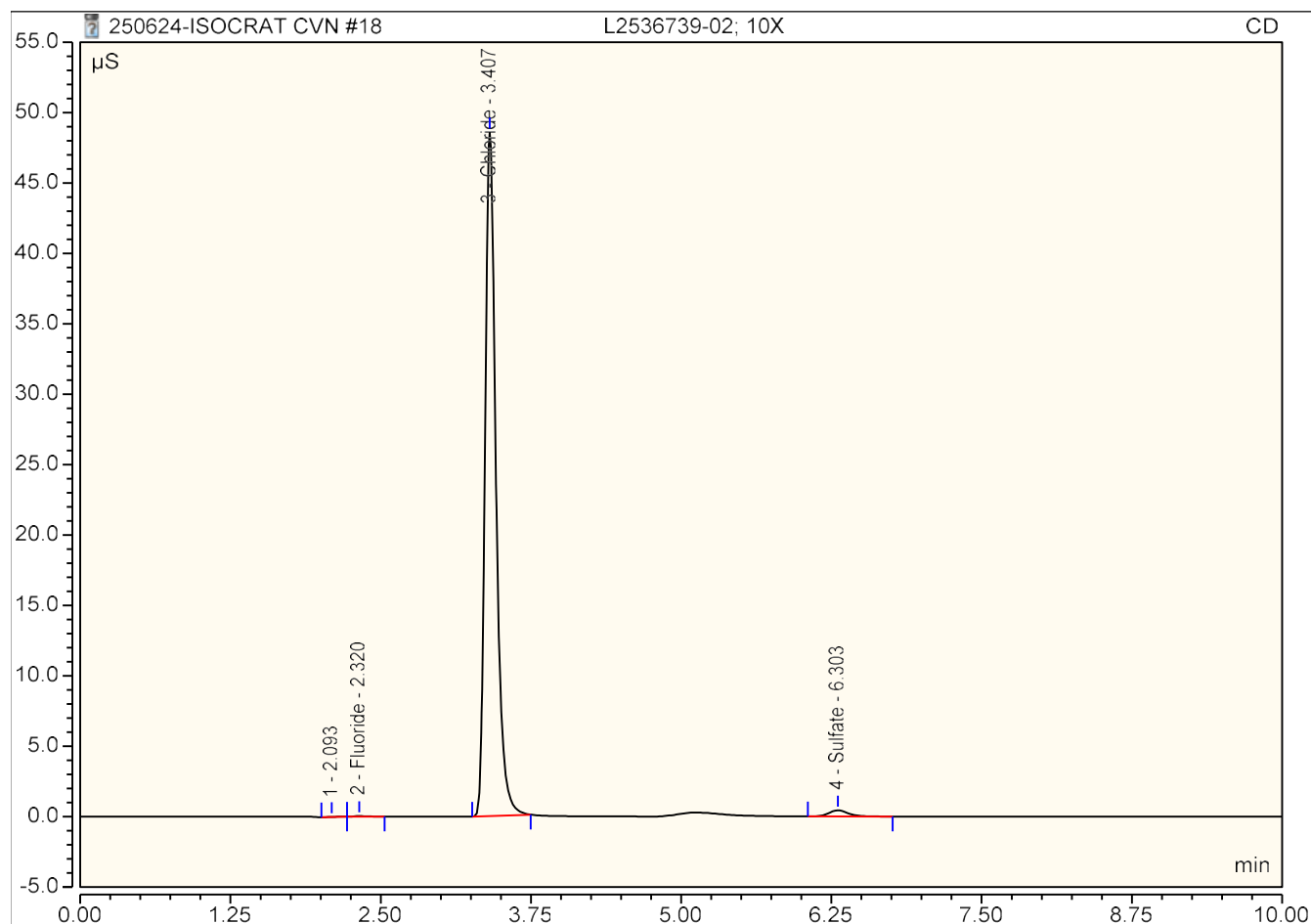
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.046	0.444	0.1102
3	3.40	Chloride	BMB	45.404	404.704	117.6801
4	5.81	Bromide	BMB	0.001	0.006	0.0421
5	6.28	Sulfate	BM *	0.894	4.748	3.6449
6	6.92	Nitrate	MB*	0.001	0.006	0.0278
TOTAL:				46.35	409.91	121.51



Peak Integration Report

Sample Name:	L2536739-02; 10X	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	10.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 14:39	Run Time:	10.00

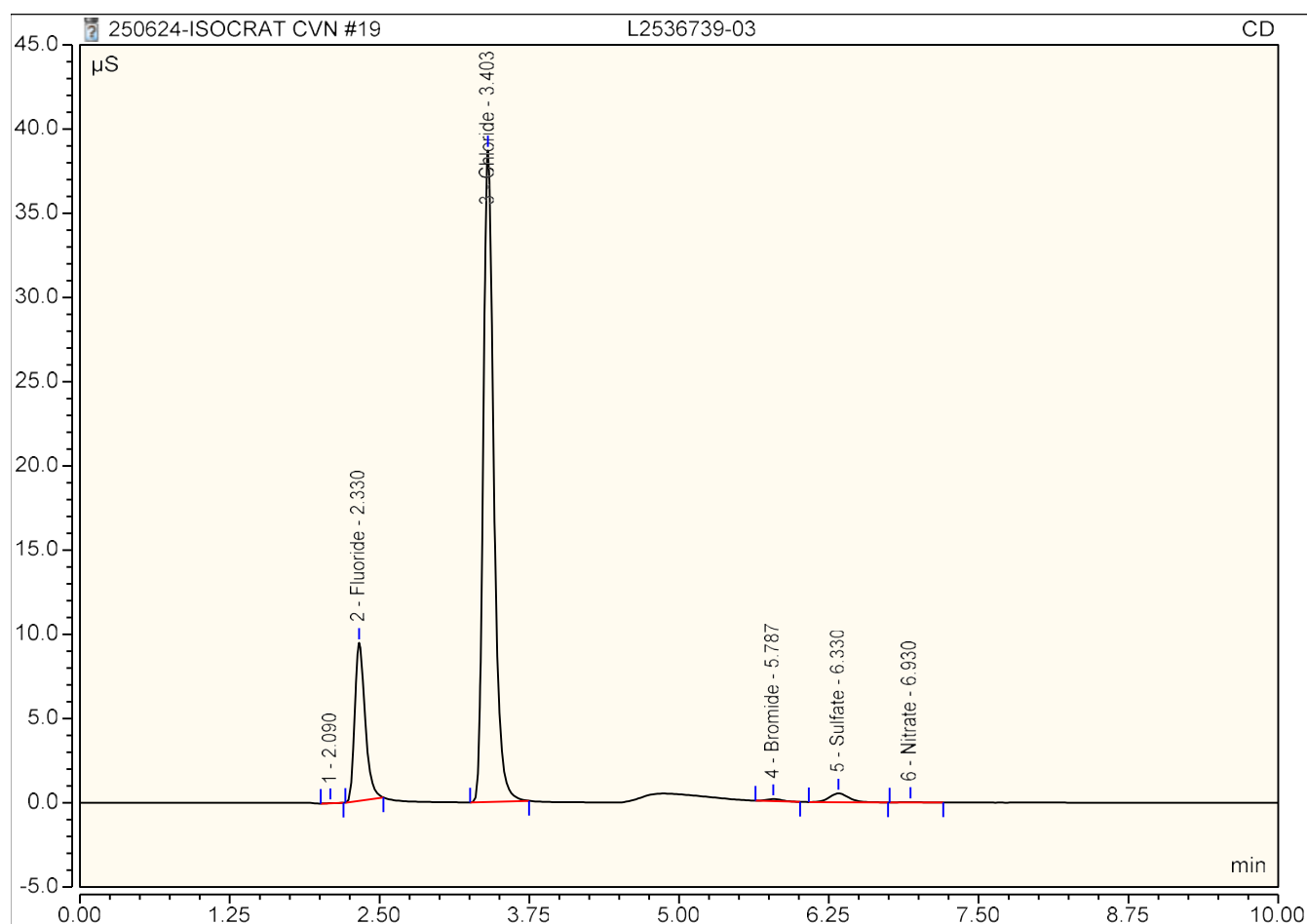
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.005	0.048	0.3658
3	3.41	Chloride	BMB	5.085	48.558	132.6477
4	6.30	Sulfate	BMB	0.080	0.433	9.6267
TOTAL:				5.17	49.04	142.64



Peak Integration Report

Sample Name:	L2536739-03	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 14:51	Run Time:	10.00

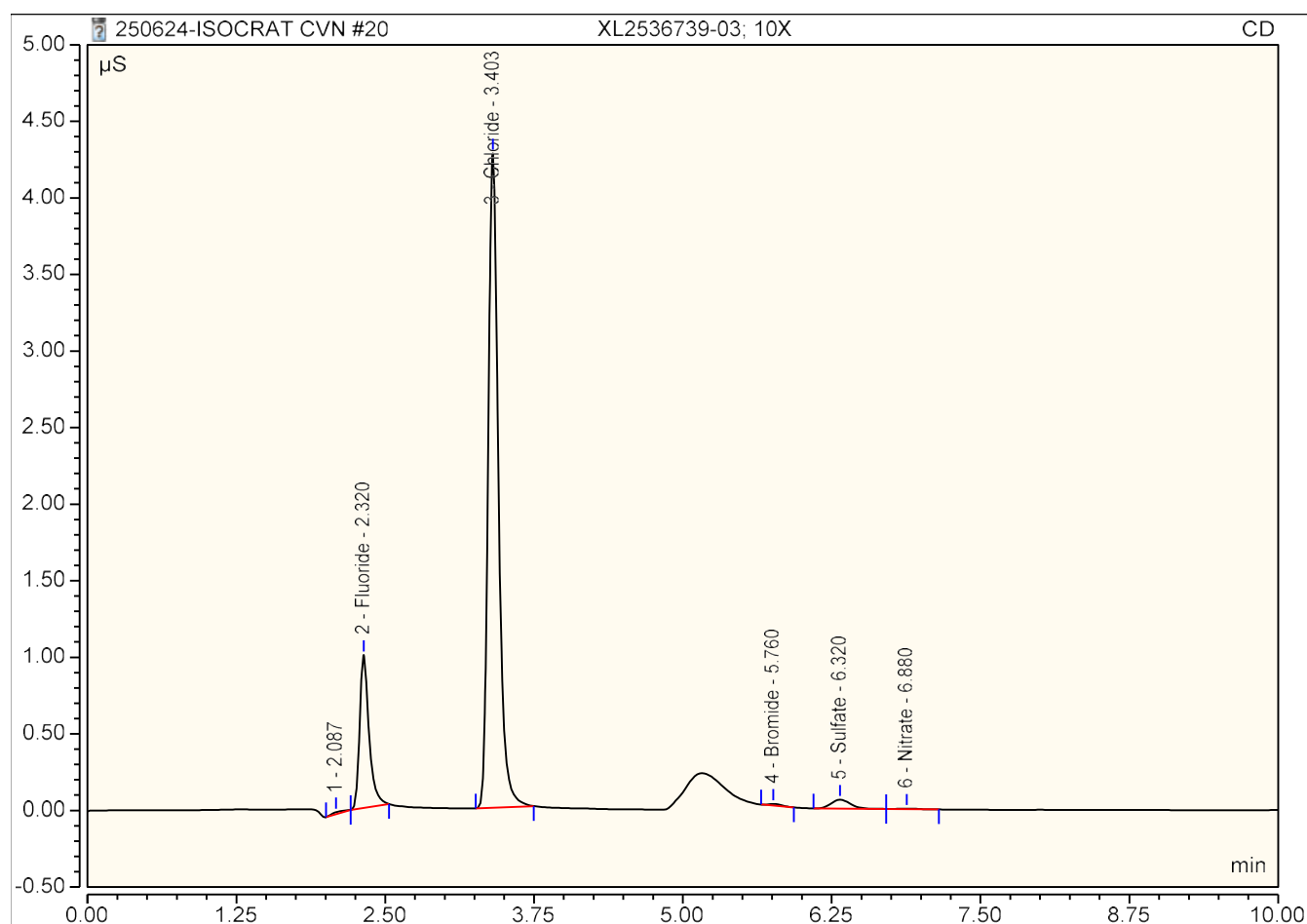
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.942	9.378	1.7253
3	3.40	Chloride	BMB	3.956	38.676	10.3390
4	5.79	Bromide	BMB	0.018	0.128	0.1719
5	6.33	Sulfate	BMB	0.098	0.515	1.0226
6	6.93	Nitrate	BMB	0.005	0.028	0.0317
TOTAL:				5.02	48.72	13.29



Peak Integration Report

Sample Name:	XL2536739-03; 10X	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	10.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 15:03	Run Time:	10.00

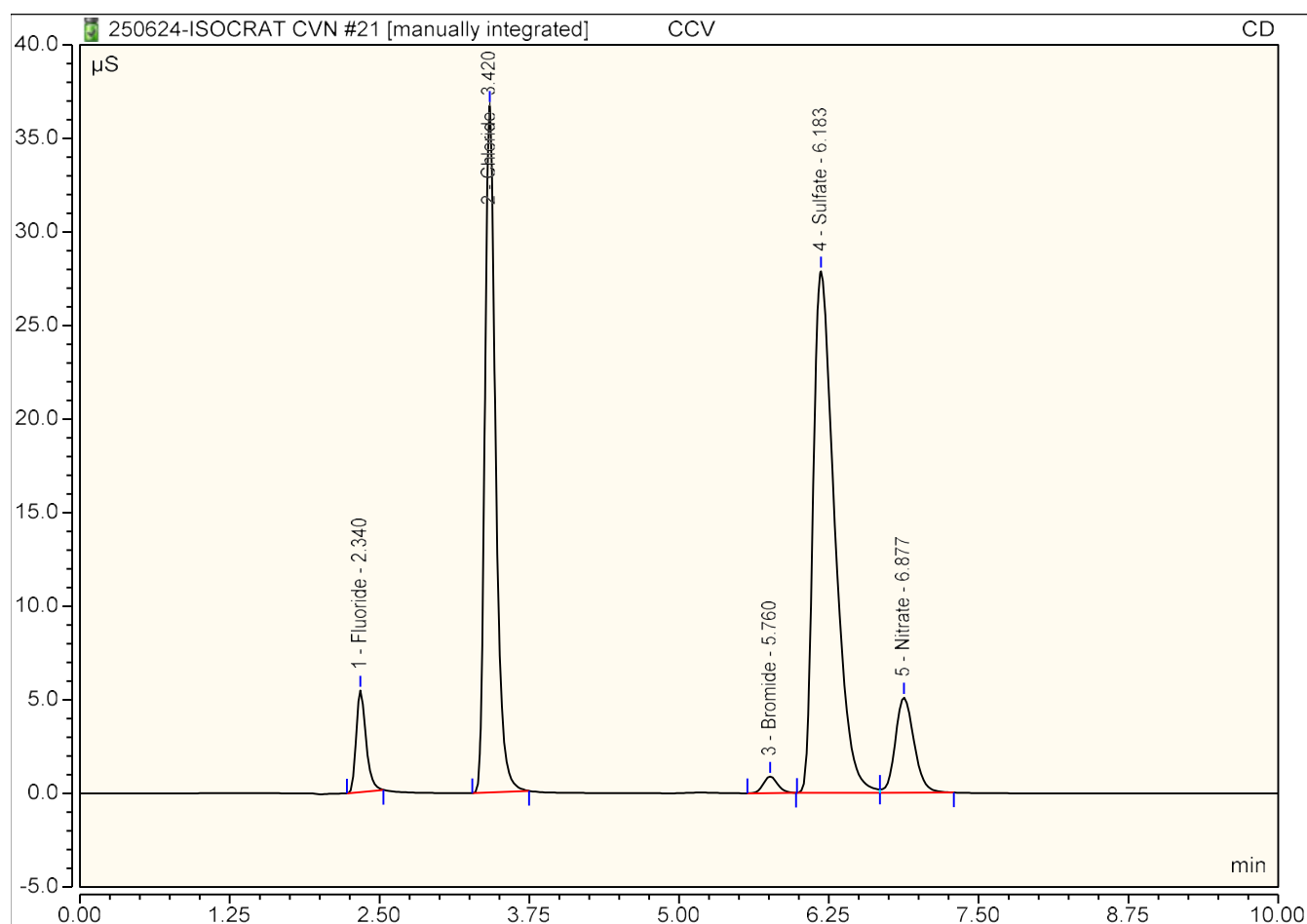
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.091	0.998	1.9130
3	3.40	Chloride	BMB	0.426	4.274	11.9903
4	5.76	Bromide	BMB	0.001	0.011	0.4823
5	6.32	Sulfate	BMB	0.011	0.058	7.3354
6	6.88	Nitrate	BMB	0.001	0.003	0.2751
TOTAL:				0.53	5.35	22.00



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:	24-Jun-2025 / 15:16	Run Time:	10.00

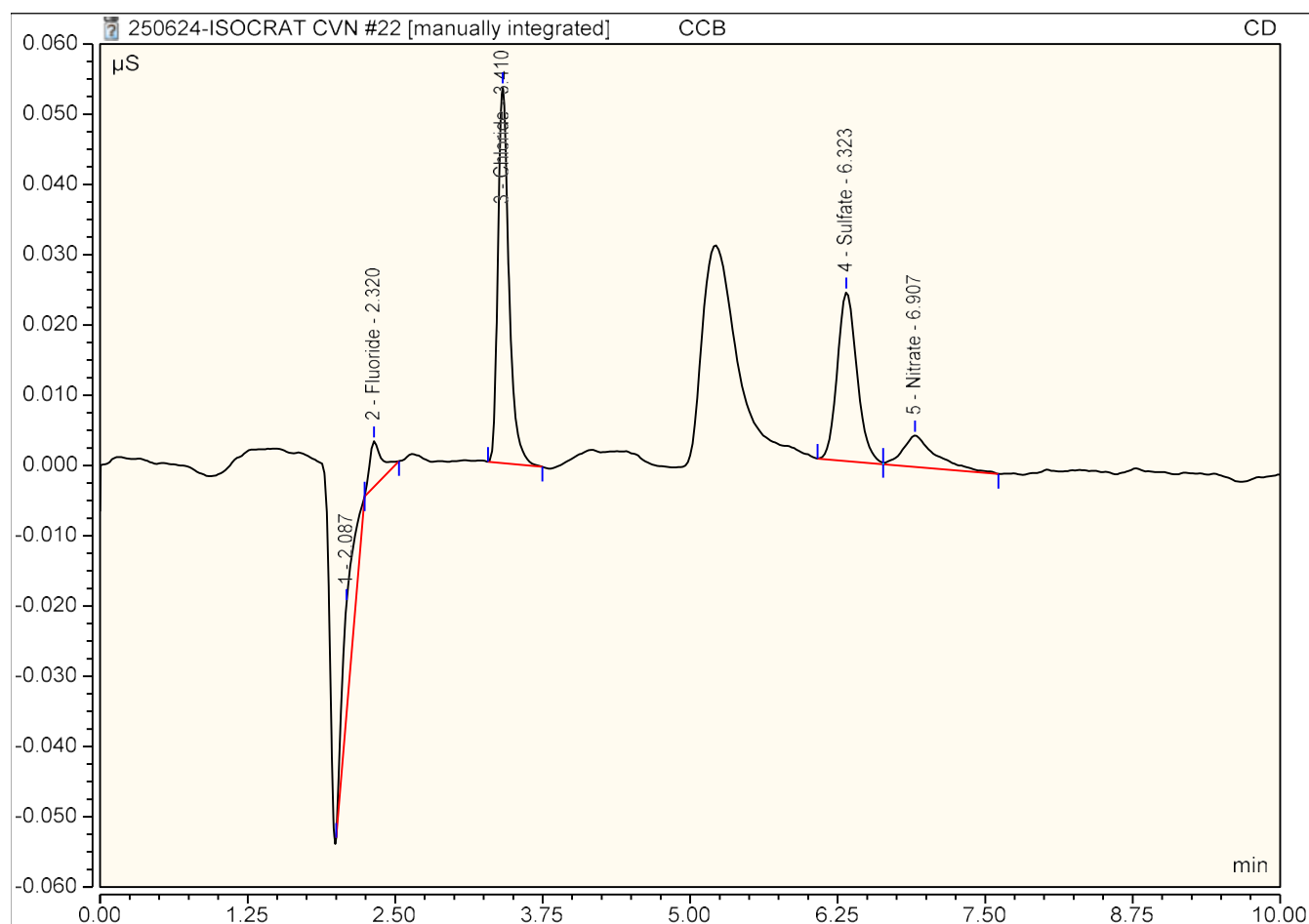
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
1	2.34	Fluoride	BMB	0.519	5.430	0.9630
2	3.42	Chloride	BMB	3.819	36.698	9.9846
3	5.76	Bromide	BMB	0.123	0.883	0.9461
4	6.18	Sulfate	BM *	5.775	27.860	19.7429
5	6.88	Nitrate	MB*	0.923	5.080	0.9970
TOTAL:				11.16	75.95	32.63



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:	24-Jun-2025 / 15:28	Run Time:	10.00

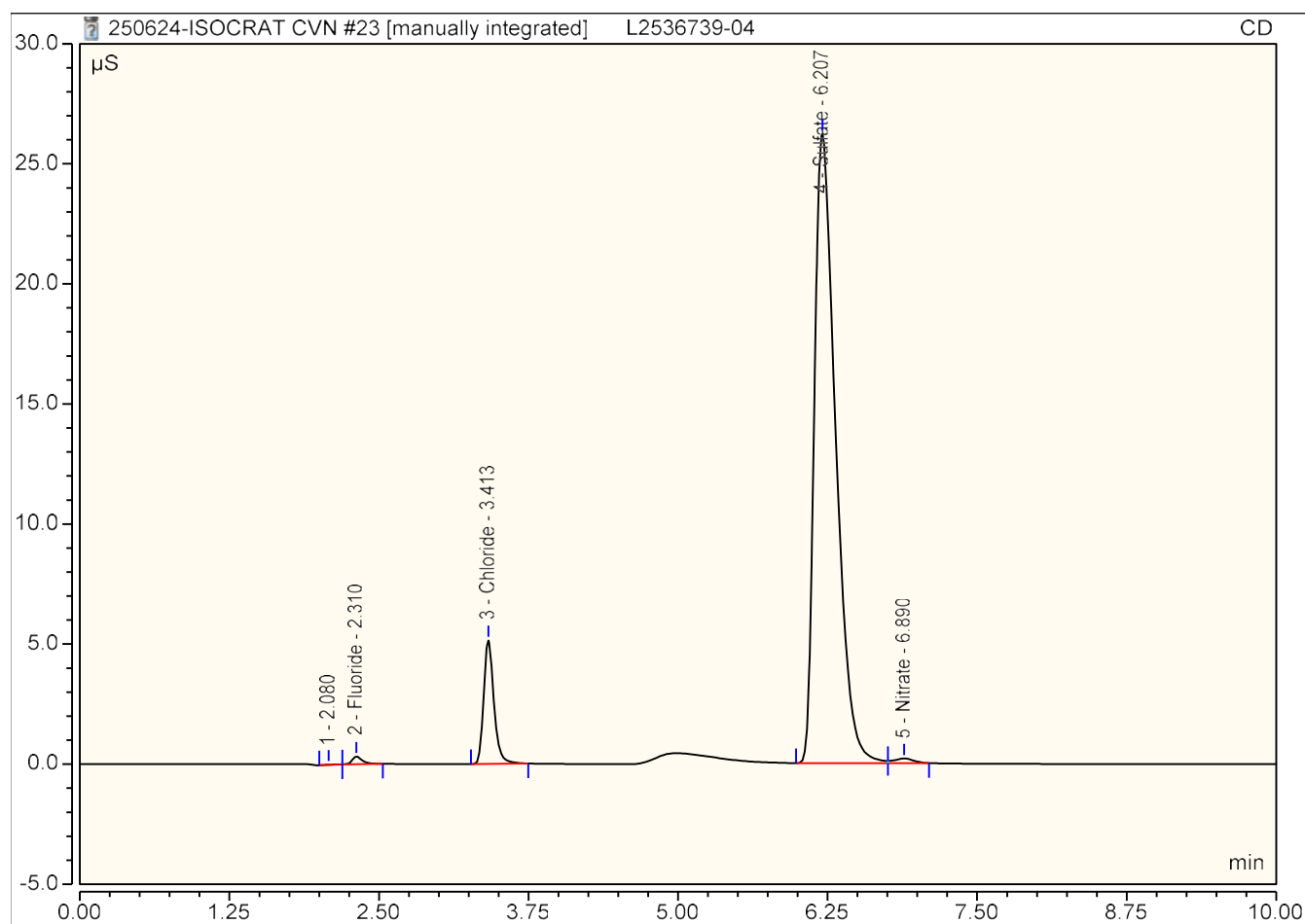
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.001	0.006	0.0287
3	3.41	Chloride	BMB	0.006	0.054	0.1102
4	6.32	Sulfate	BM *	0.005	0.024	0.7131
5	6.91	Nitrate	MB*	0.001	0.004	0.0284
TOTAL:				0.01	0.09	0.88



Peak Integration Report

Sample Name:	L2536739-04	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 15:40	Run Time:	10.00

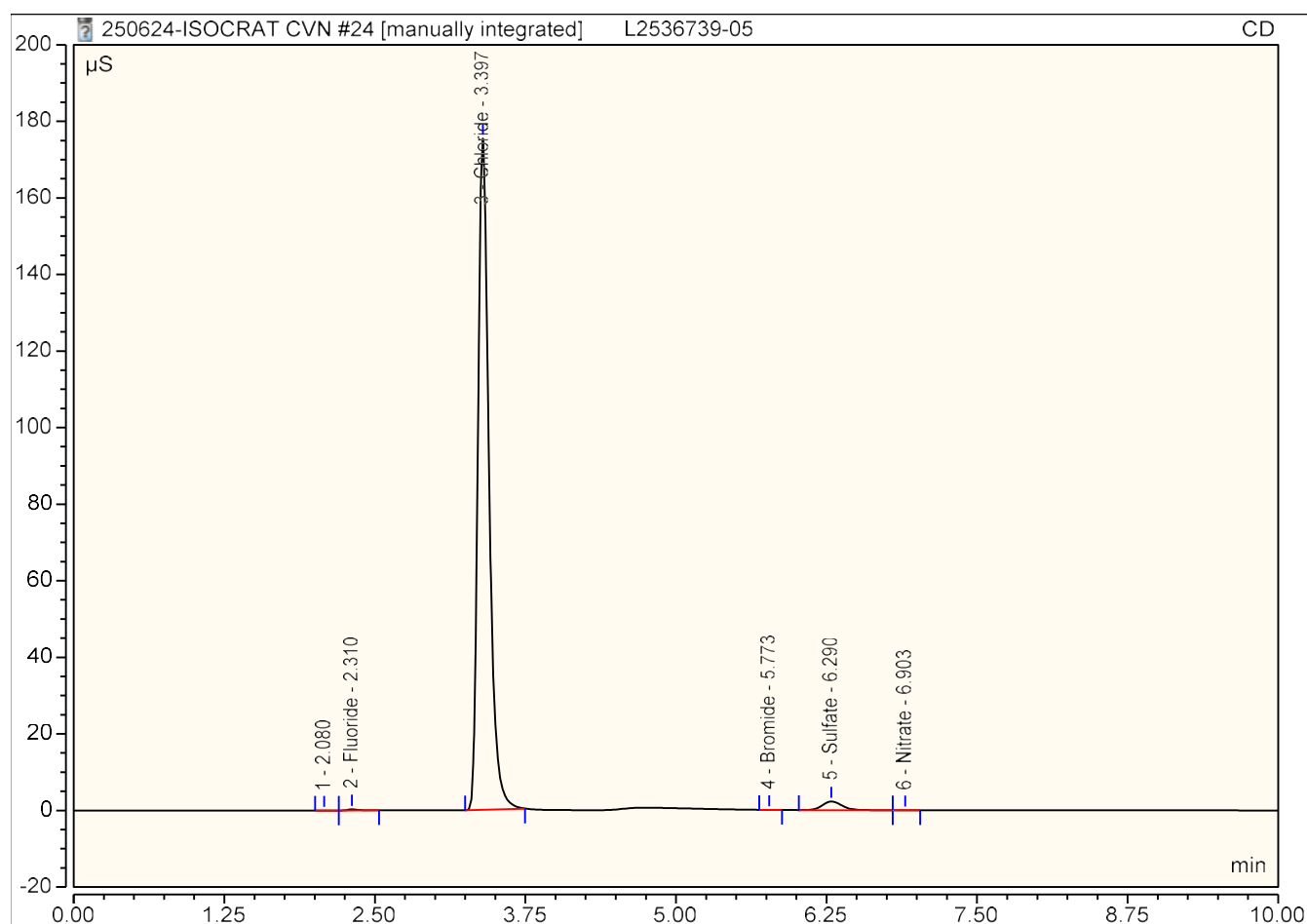
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.031	0.318	0.0830
3	3.41	Chloride	BMB	0.511	5.144	1.4195
4	6.21	Sulfate	BM *	5.382	26.206	18.4463
5	6.89	Nitrate	MB*	0.035	0.186	0.0639
TOTAL:				5.96	31.85	20.01



Peak Integration Report

Sample Name:	L2536739-05	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 15:52	Run Time:	10.00

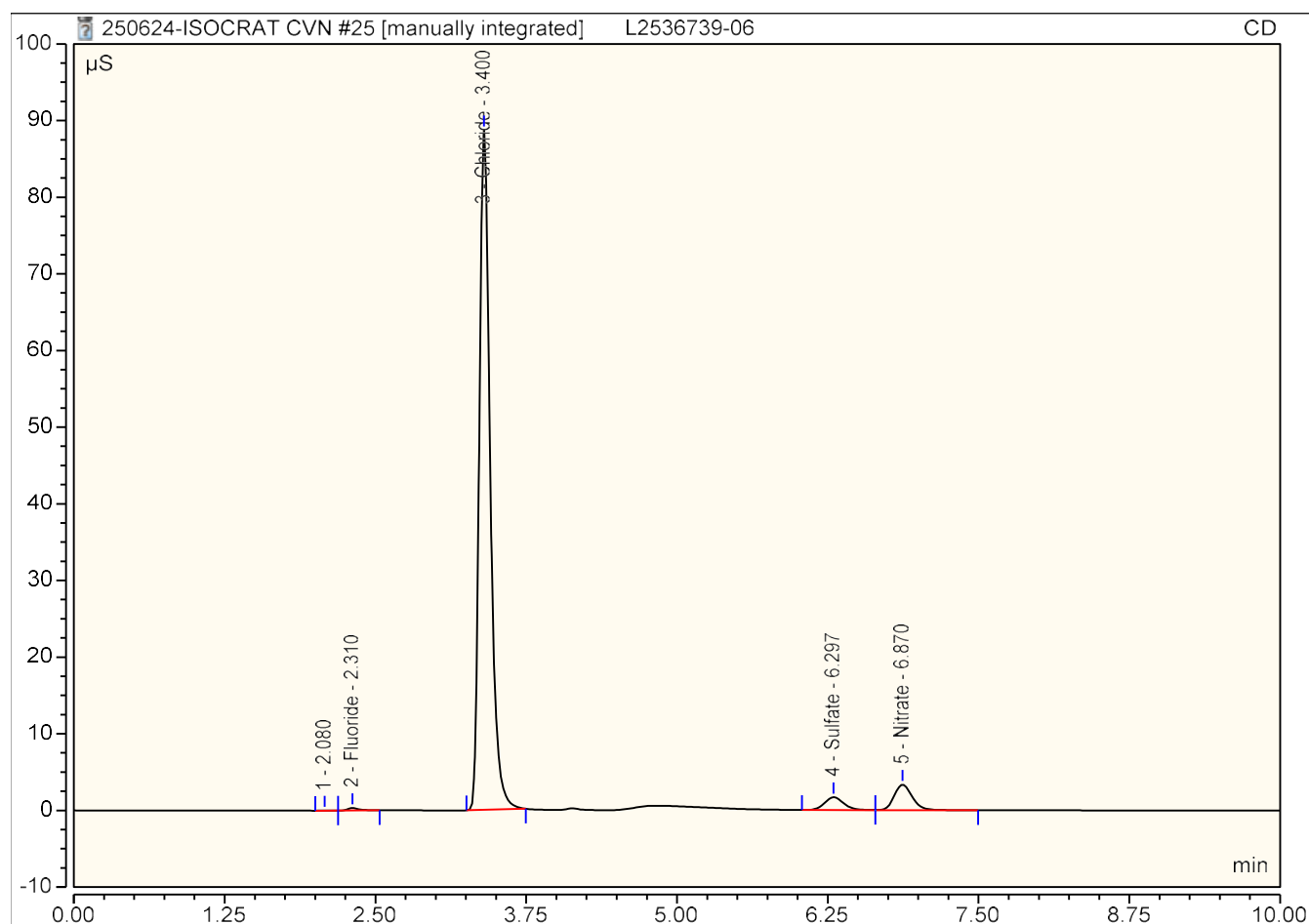
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.027	0.254	0.0759
3	3.40	Chloride	BMB	18.700	175.395	48.5234
4	5.77	Bromide	BMB	0.000	0.003	0.0397
5	6.29	Sulfate	BM *	0.430	2.276	2.1173
6	6.90	Nitrate	MB*	0.001	0.004	0.0276
TOTAL:				19.16	177.93	50.78



Peak Integration Report

Sample Name:	L2536739-06	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 16:04	Run Time:	10.00

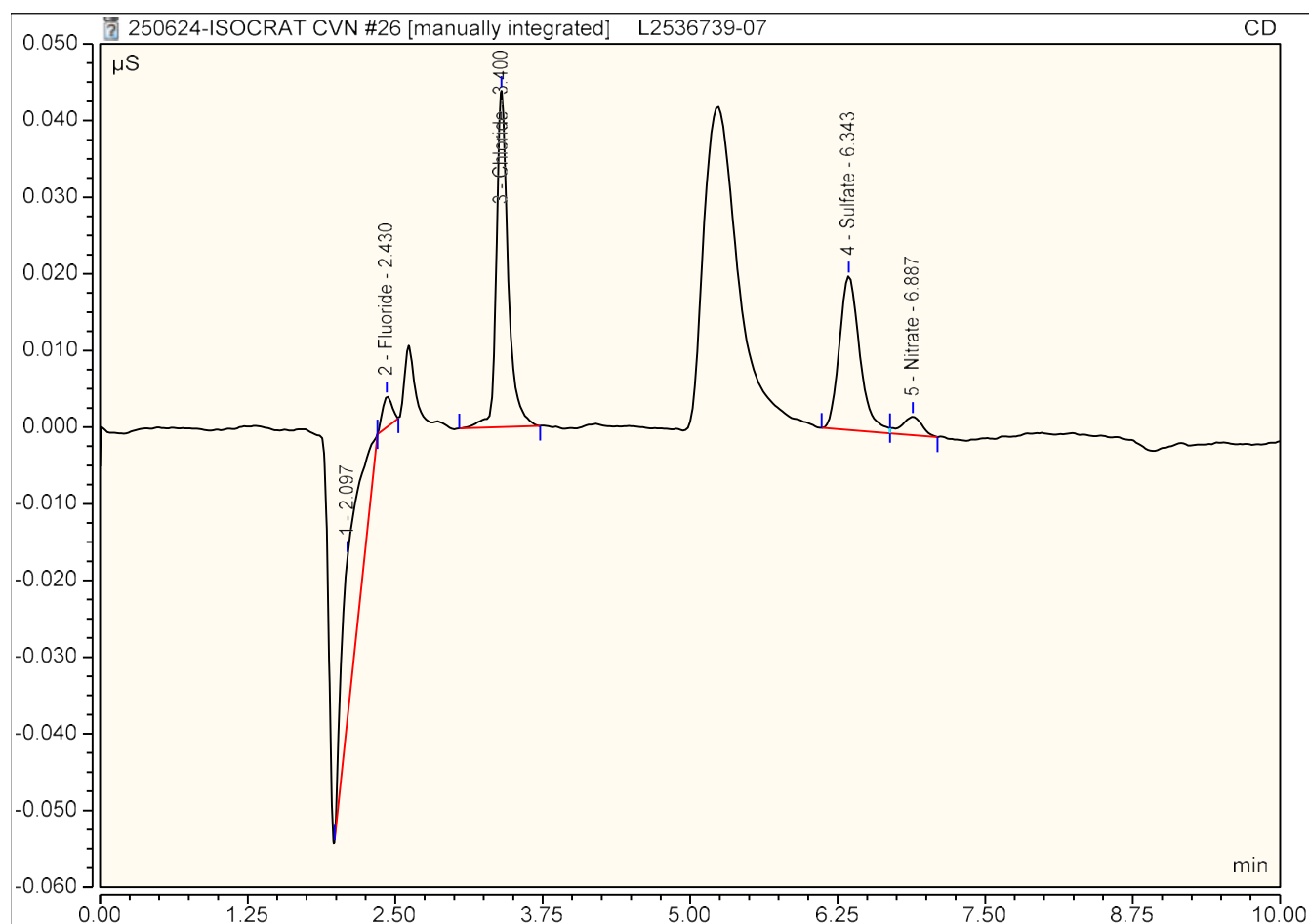
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.032	0.324	0.0852
3	3.40	Chloride	BMB	9.267	88.680	24.0950
4	6.30	Sulfate	BM *	0.308	1.668	1.7143
5	6.87	Nitrate	MB*	0.577	3.319	0.6327
TOTAL:				10.18	93.99	26.53



Peak Integration Report

Sample Name:	L2536739-07	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 16:16	Run Time:	10.00

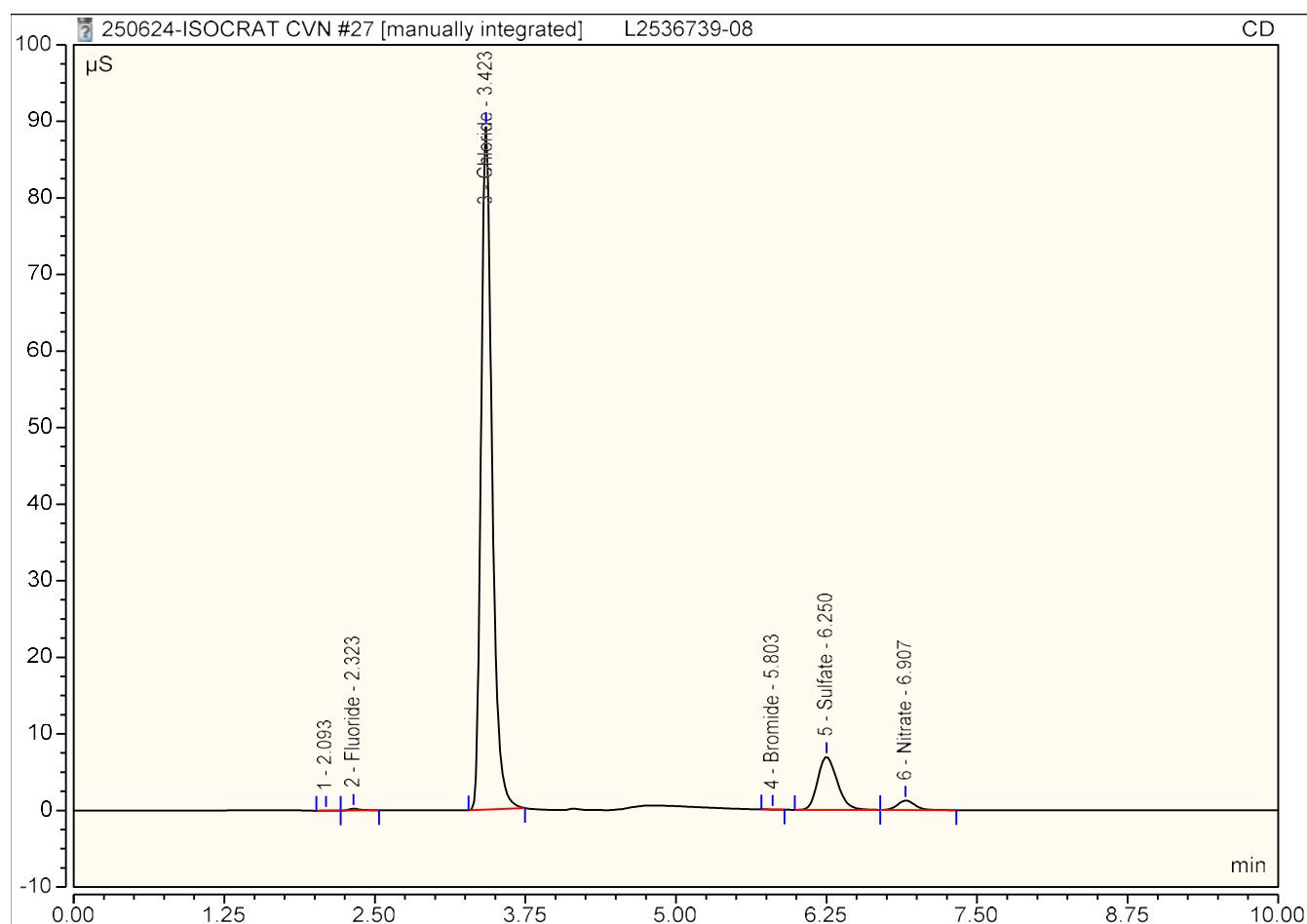
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.43	Fluoride	BMB	0.000	0.004	0.0279
3	3.40	Chloride	BMB	0.005	0.044	0.1084
4	6.34	Sulfate	BM *	0.004	0.020	0.7111
5	6.89	Nitrate	MB*	0.000	0.002	0.0274
TOTAL:				0.01	0.07	0.87



Peak Integration Report

Sample Name:	L2536739-08	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 16:28	Run Time:	10.00

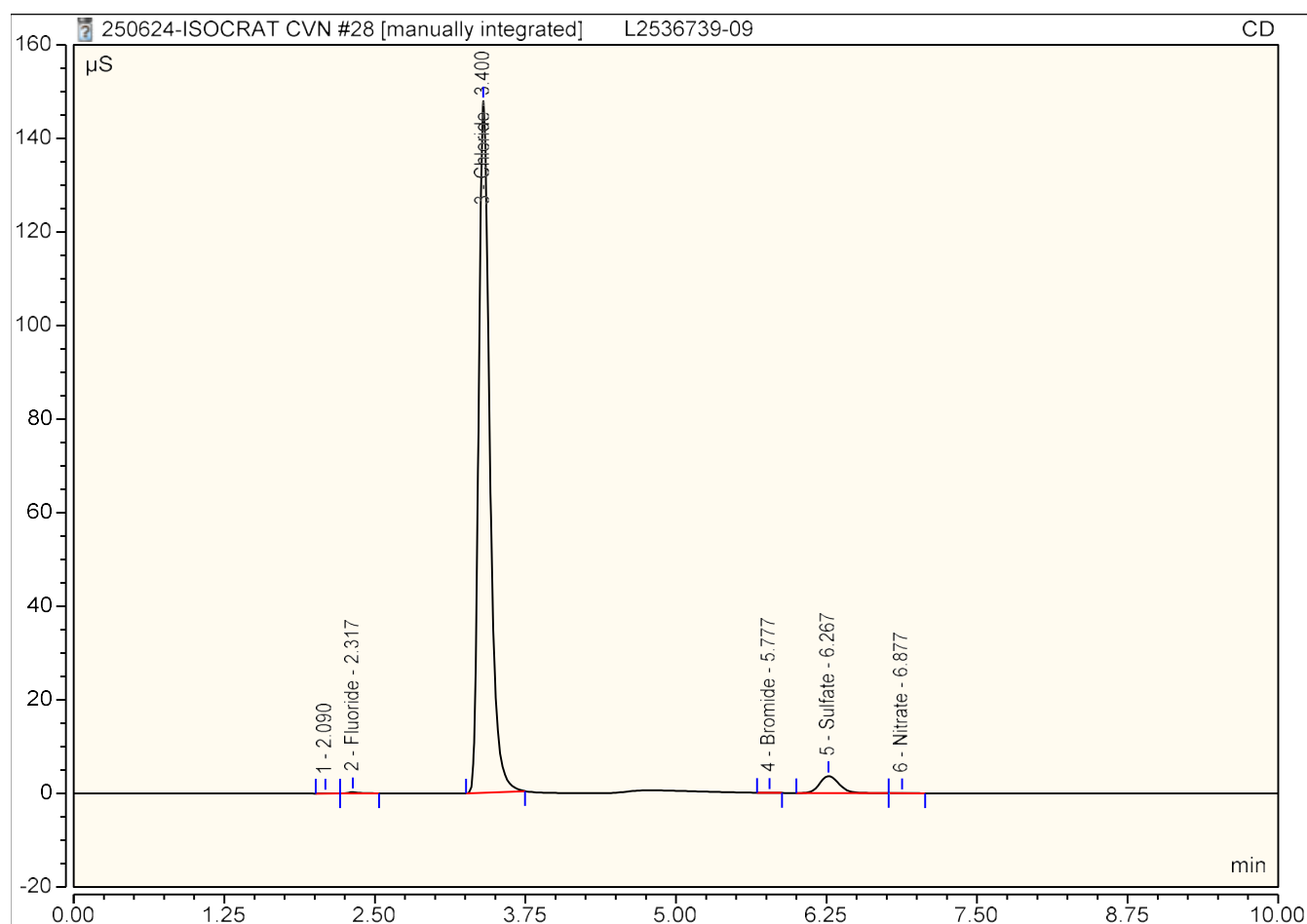
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.023	0.224	0.0694
3	3.42	Chloride	BMB	9.436	89.155	24.5317
4	5.80	Bromide	BMB	0.000	0.003	0.0397
5	6.25	Sulfate	BM *	1.307	6.916	5.0073
6	6.91	Nitrate	MB*	0.213	1.246	0.2505
TOTAL:				10.98	97.55	29.90



Peak Integration Report

Sample Name:	L2536739-09	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 16:40	Run Time:	10.00

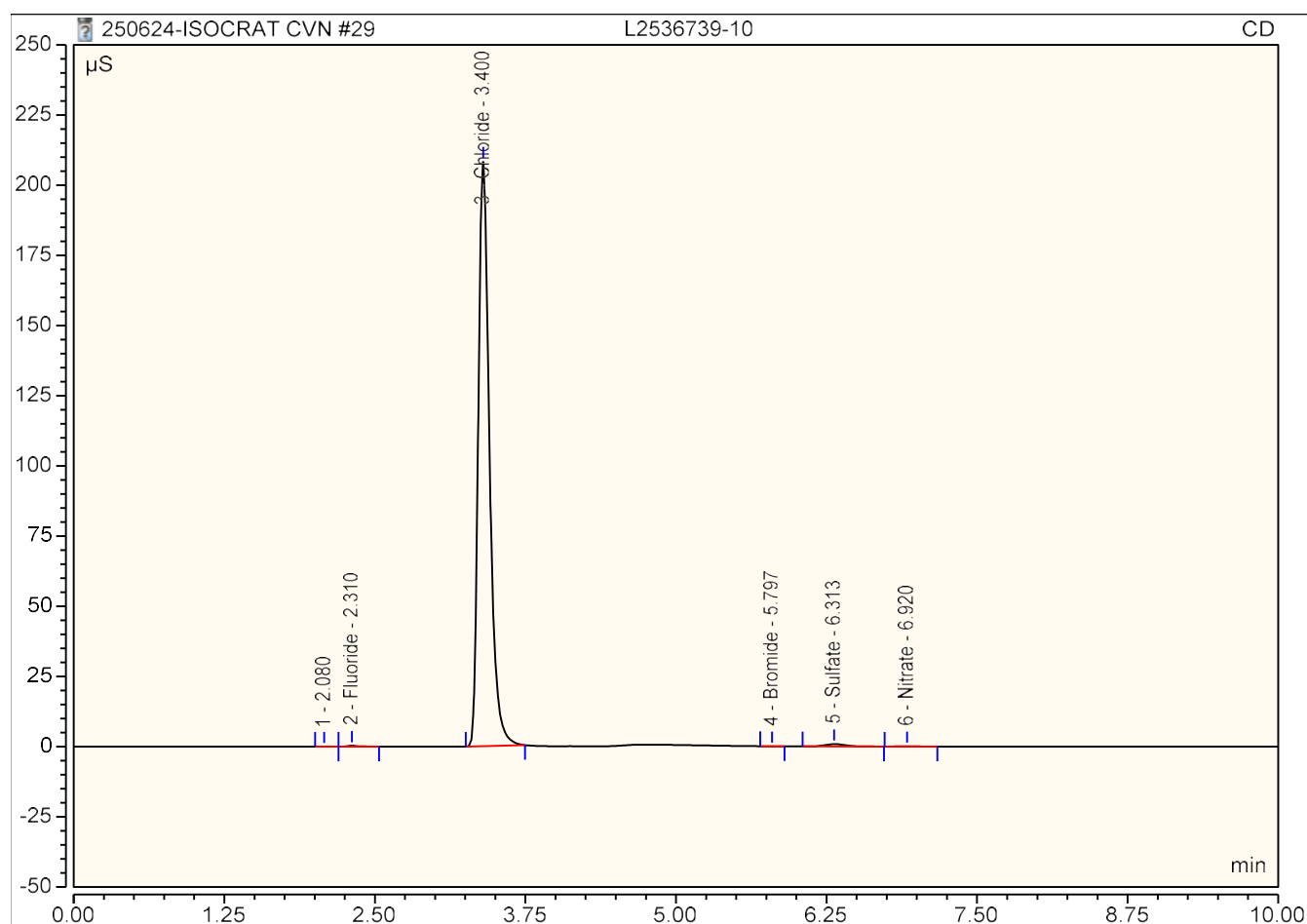
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.028	0.270	0.0775
3	3.40	Chloride	BMB	15.761	147.765	40.9112
4	5.78	Bromide	BMB	0.001	0.005	0.0413
5	6.27	Sulfate	BM *	0.687	3.644	2.9647
6	6.88	Nitrate	MB*	0.003	0.018	0.0303
TOTAL:				16.48	151.70	44.03



Peak Integration Report

Sample Name:	L2536739-10	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 16:52	Run Time:	10.00

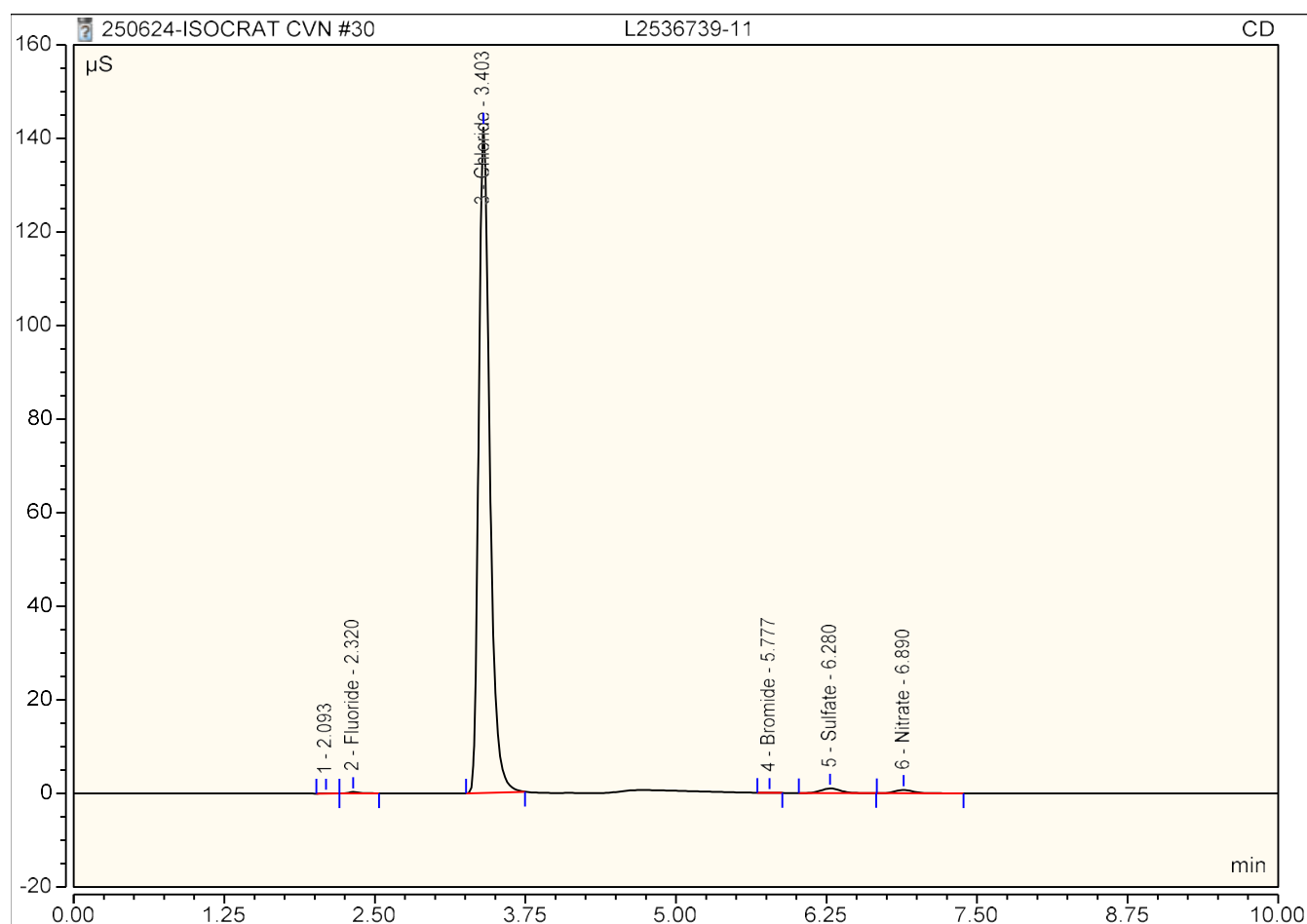
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.030	0.285	0.0808
3	3.40	Chloride	BMB	22.428	208.192	58.1787
4	5.80	Bromide	BMB	0.000	0.003	0.0396
5	6.31	Sulfate	BMB	0.163	0.857	1.2354
6	6.92	Nitrate	BMB	0.009	0.052	0.0360
TOTAL:				22.63	209.39	59.57



Peak Integration Report

Sample Name:	L2536739-11	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 17:04	Run Time:	10.00

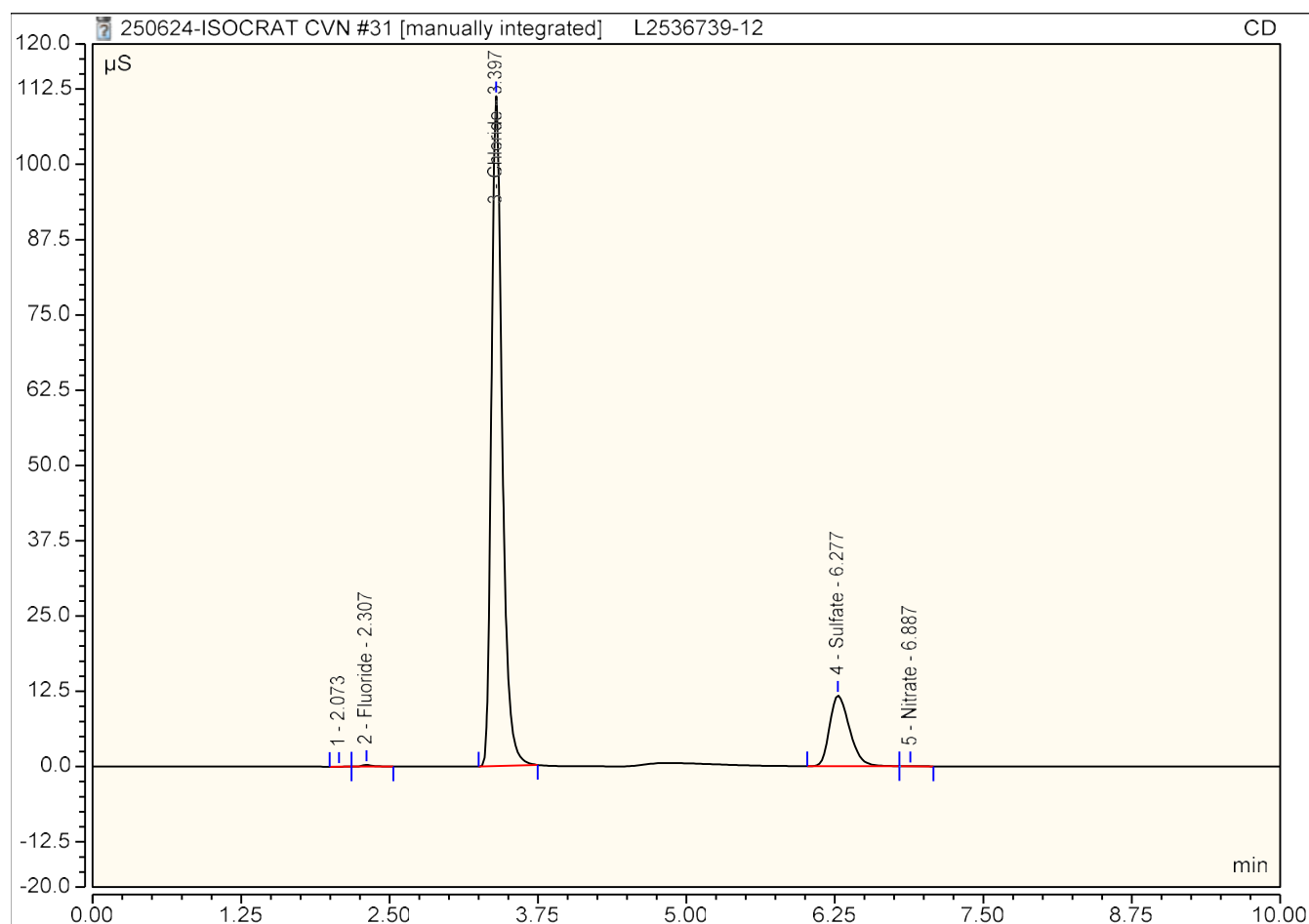
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.031	0.300	0.0831
3	3.40	Chloride	BMB	15.103	142.195	39.2067
4	5.78	Bromide	BMB	0.001	0.005	0.0414
5	6.28	Sulfate	BMB	0.190	1.007	1.3253
6	6.89	Nitrate	BMB	0.123	0.722	0.1561
TOTAL:				15.45	144.23	40.81



Peak Integration Report

Sample Name:	L2536739-12	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 17:16	Run Time:	10.00

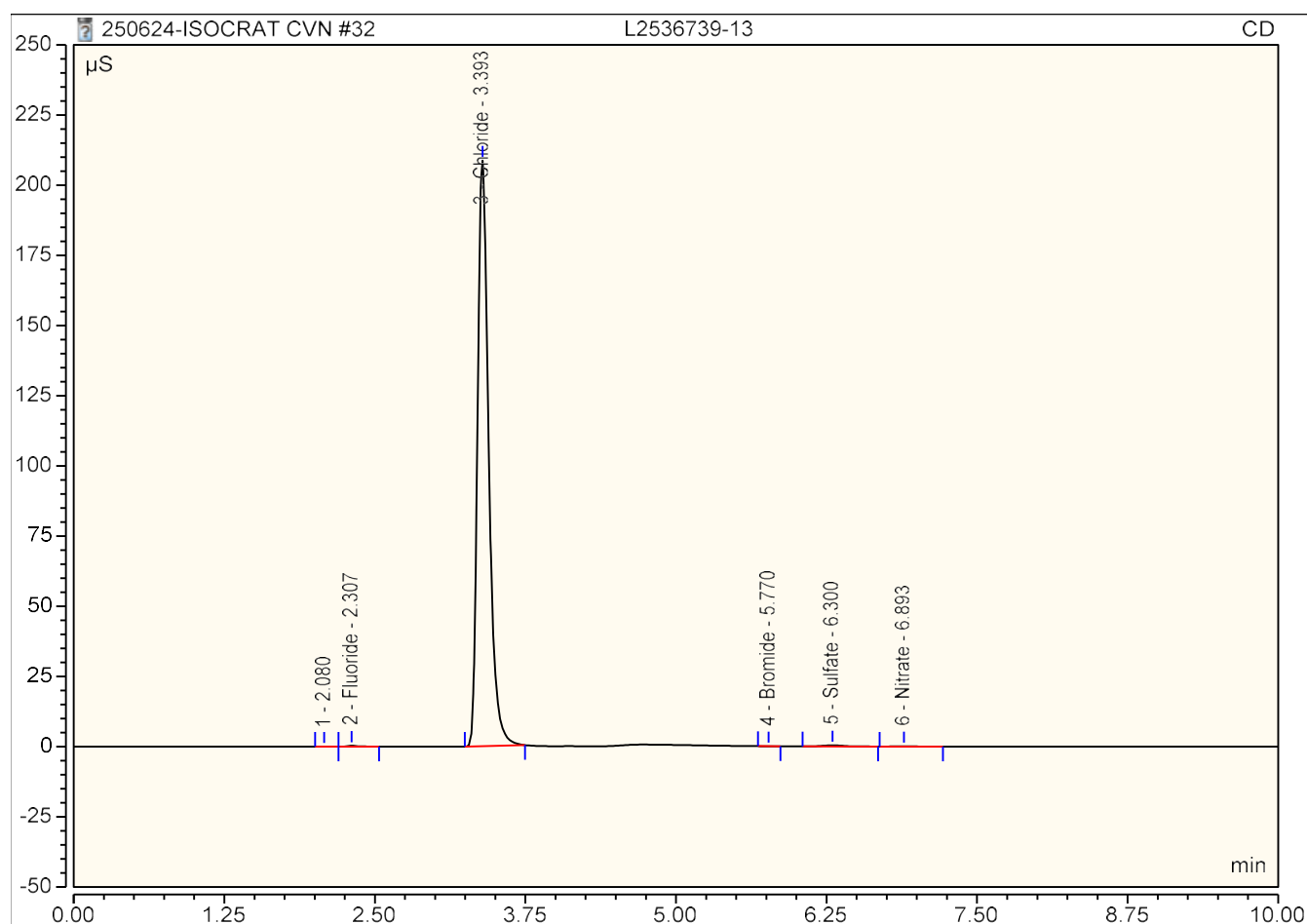
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.028	0.280	0.0784
3	3.40	Chloride	BMB	11.724	111.260	30.4570
4	6.28	Sulfate	BM *	2.289	11.716	8.2476
5	6.89	Nitrate	MB*	0.008	0.043	0.0350
TOTAL:				14.05	123.30	38.82



Peak Integration Report

Sample Name:	L2536739-13	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 17:29	Run Time:	10.00

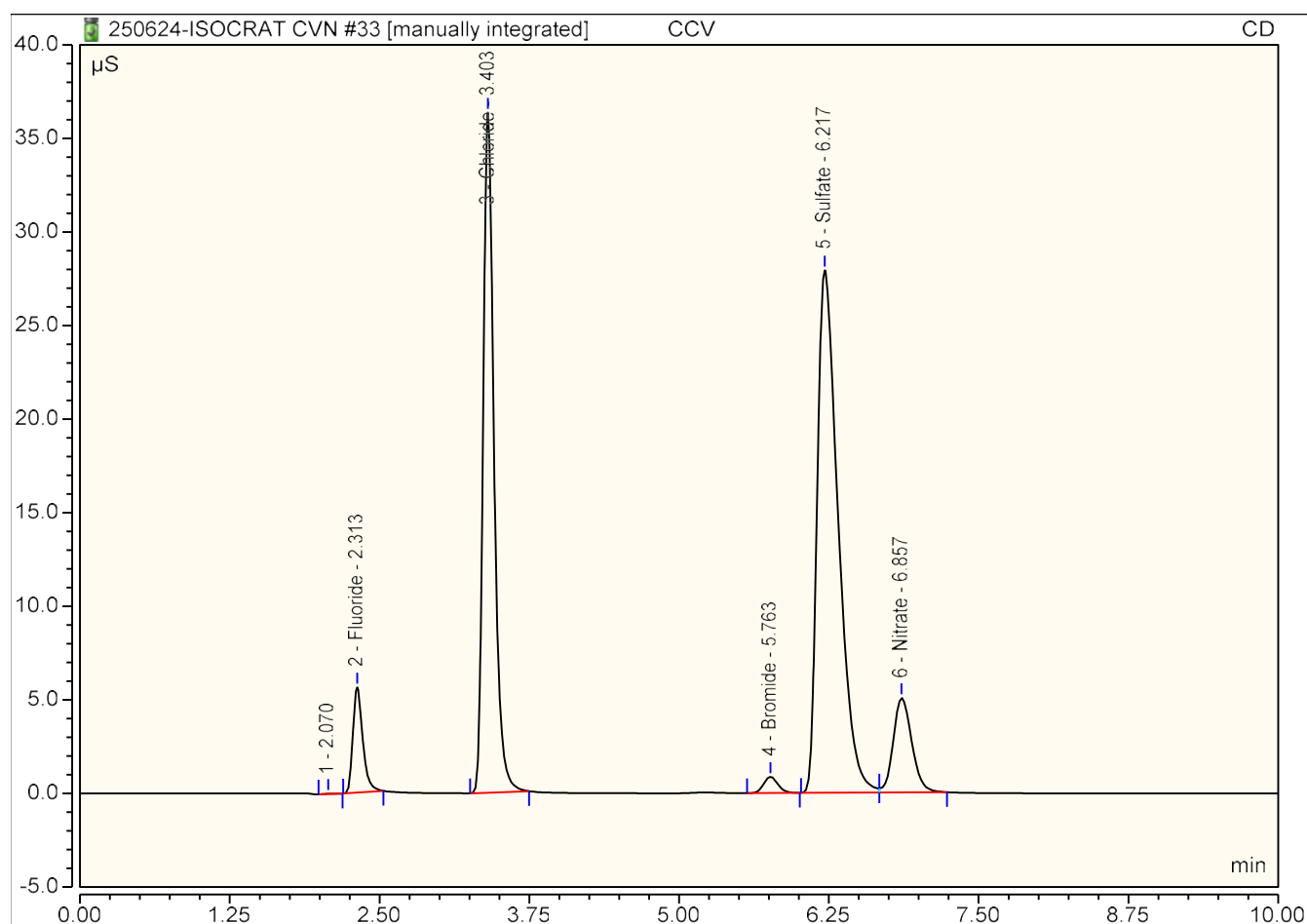
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.030	0.287	0.0812
3	3.39	Chloride	BMB	22.452	208.609	58.2389
4	5.77	Bromide	BMB	0.000	0.003	0.0398
5	6.30	Sulfate	BMB	0.079	0.412	0.9592
6	6.89	Nitrate	BMB	0.014	0.083	0.0419
TOTAL:				22.58	209.39	59.36



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:	24-Jun-2025 / 17:41	Run Time:	10.00

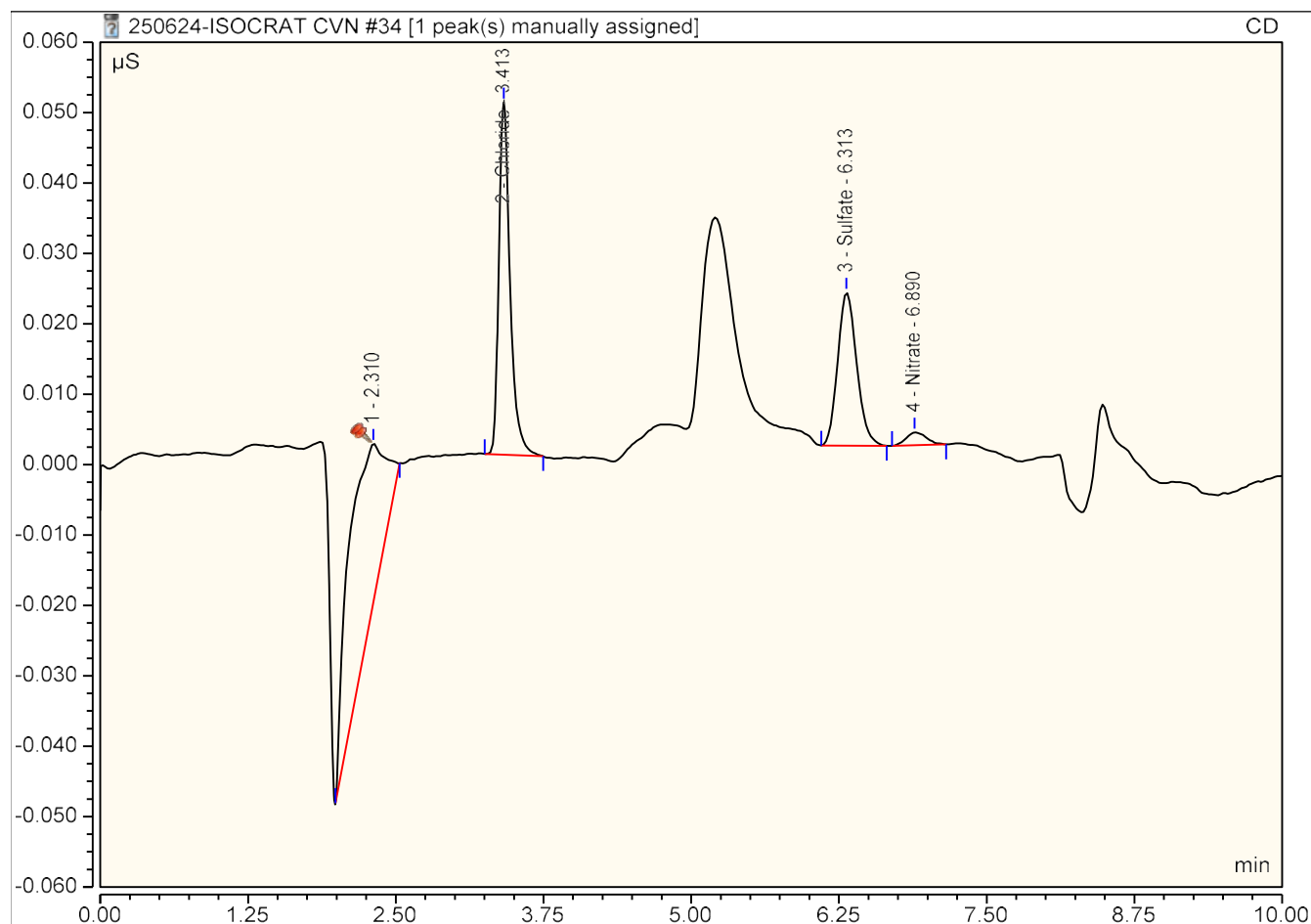
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.533	5.621	0.9878
3	3.40	Chloride	BMB	3.813	36.344	9.9689
4	5.76	Bromide	BMB	0.121	0.872	0.9370
5	6.22	Sulfate	BM *	5.672	27.917	19.4032
6	6.86	Nitrate	MB*	0.910	5.050	0.9823
TOTAL:				11.05	75.80	32.28



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:	24-Jun-2025 / 17:53	Run Time:	10.00

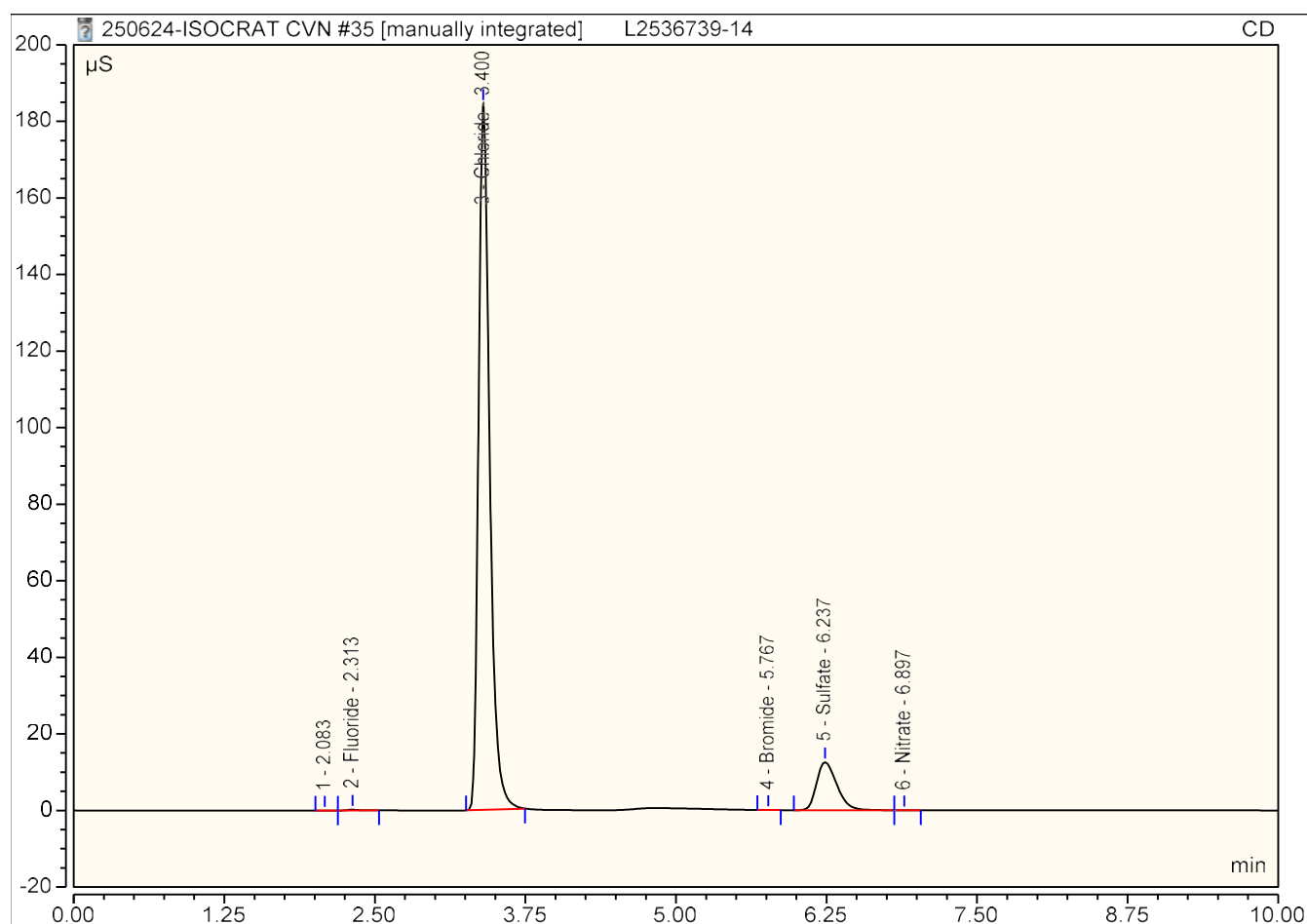
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	3.41	Chloride	BMB	0.005	0.050	0.1095
3	6.31	Sulfate	BMB	0.004	0.022	0.7112
4	6.89	Nitrate	BMB	0.000	0.002	0.0273
TOTAL:				0.01	0.07	0.85



Peak Integration Report

Sample Name:	L2536739-14	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 18:05	Run Time:	10.00

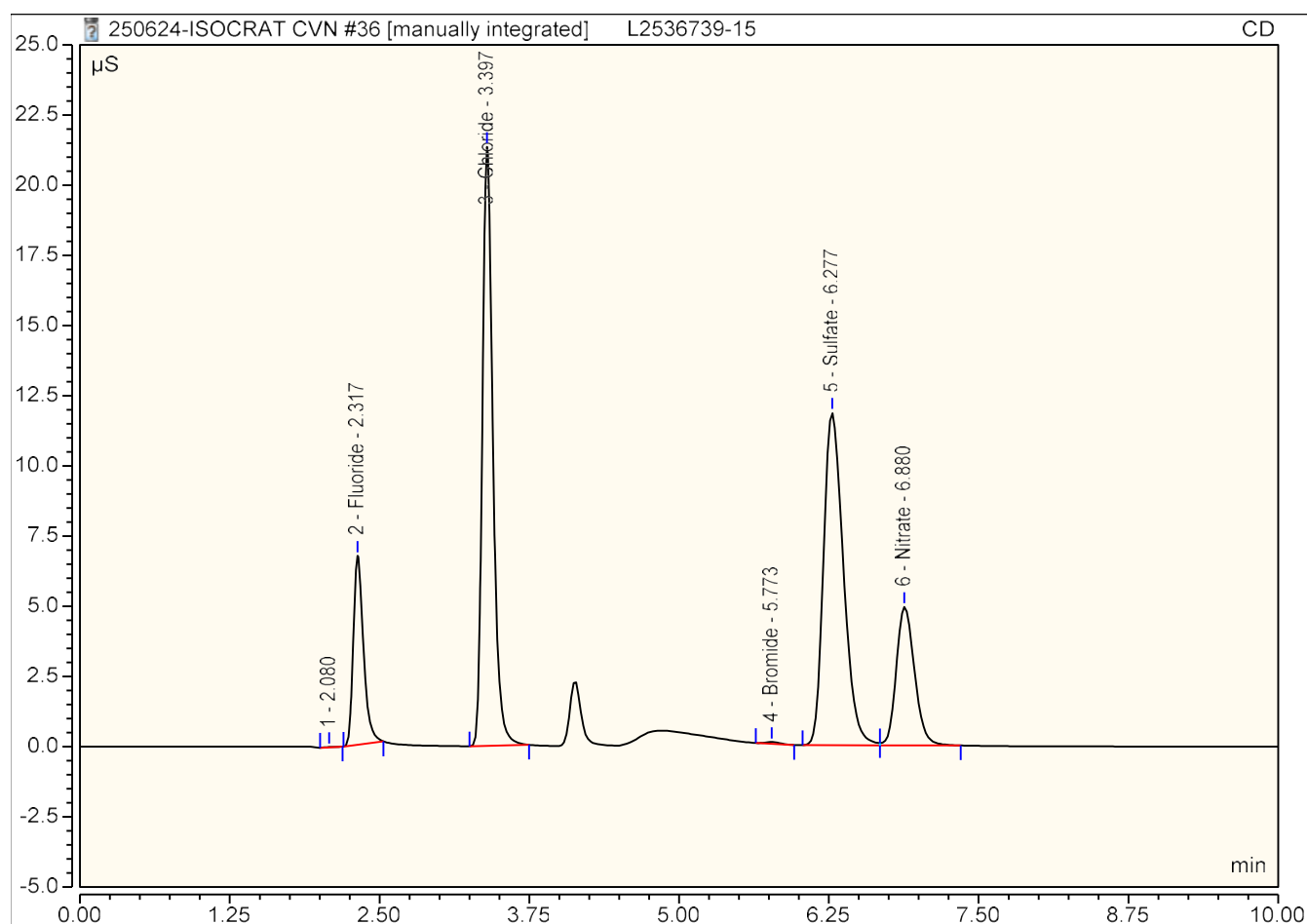
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.022	0.211	0.0664
3	3.40	Chloride	BMB	19.703	184.410	51.1200
4	5.77	Bromide	BMB	0.000	0.004	0.0399
5	6.24	Sulfate	BM *	2.442	12.550	8.7499
6	6.90	Nitrate	MB*	0.003	0.021	0.0302
TOTAL:				22.17	197.19	60.01



Peak Integration Report

Sample Name:	L2536739-15	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 18:17	Run Time:	10.00

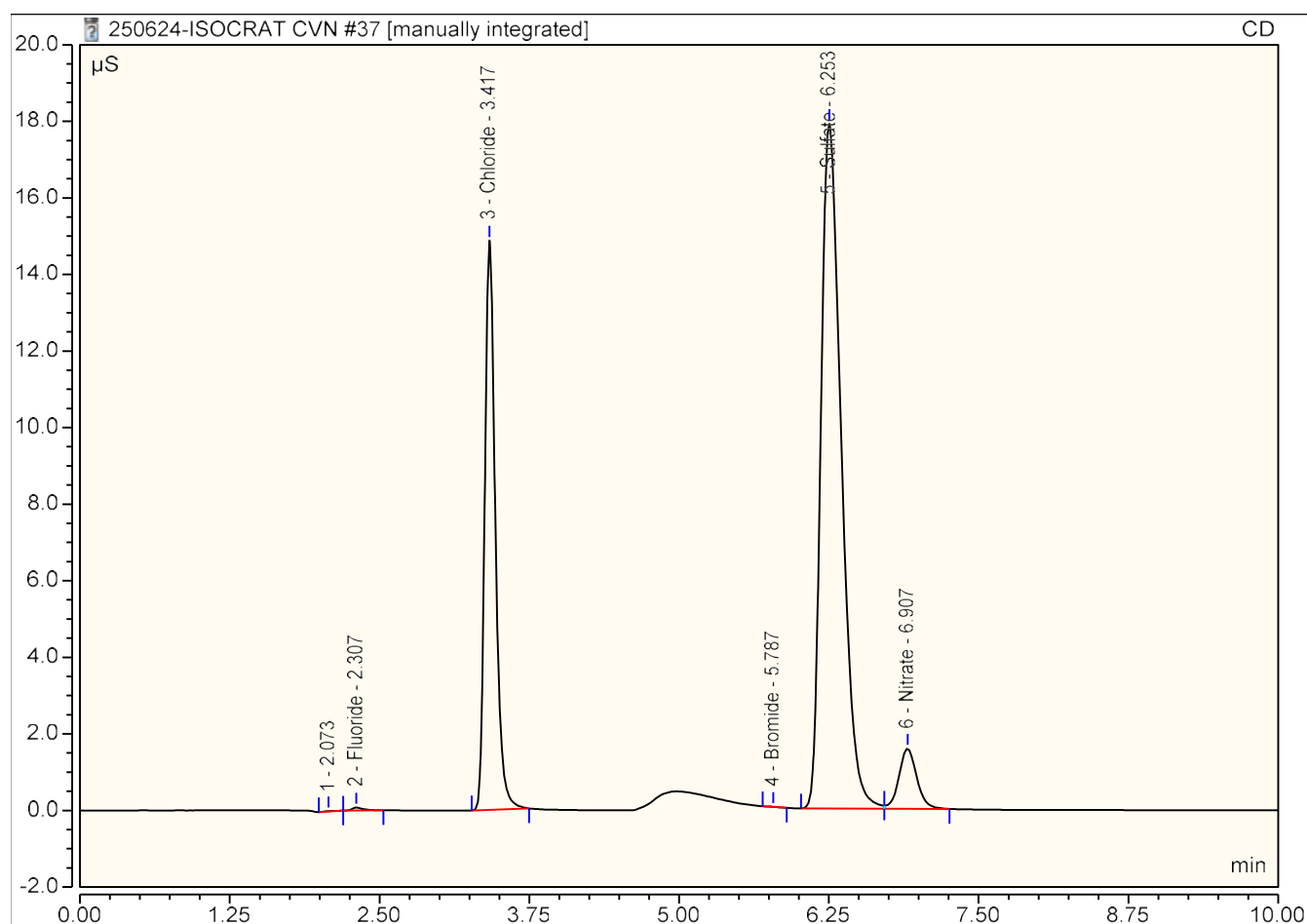
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.662	6.731	1.2199
3	3.40	Chloride	BMB	2.175	21.334	5.7275
4	5.77	Bromide	BMB	0.008	0.062	0.0996
5	6.28	Sulfate	BM *	2.278	11.845	8.2083
6	6.88	Nitrate	MB*	0.875	4.935	0.9461
TOTAL:				6.00	44.91	16.20



Peak Integration Report

Sample Name:	L2537655-01 BR	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 18:29	Run Time:	10.00

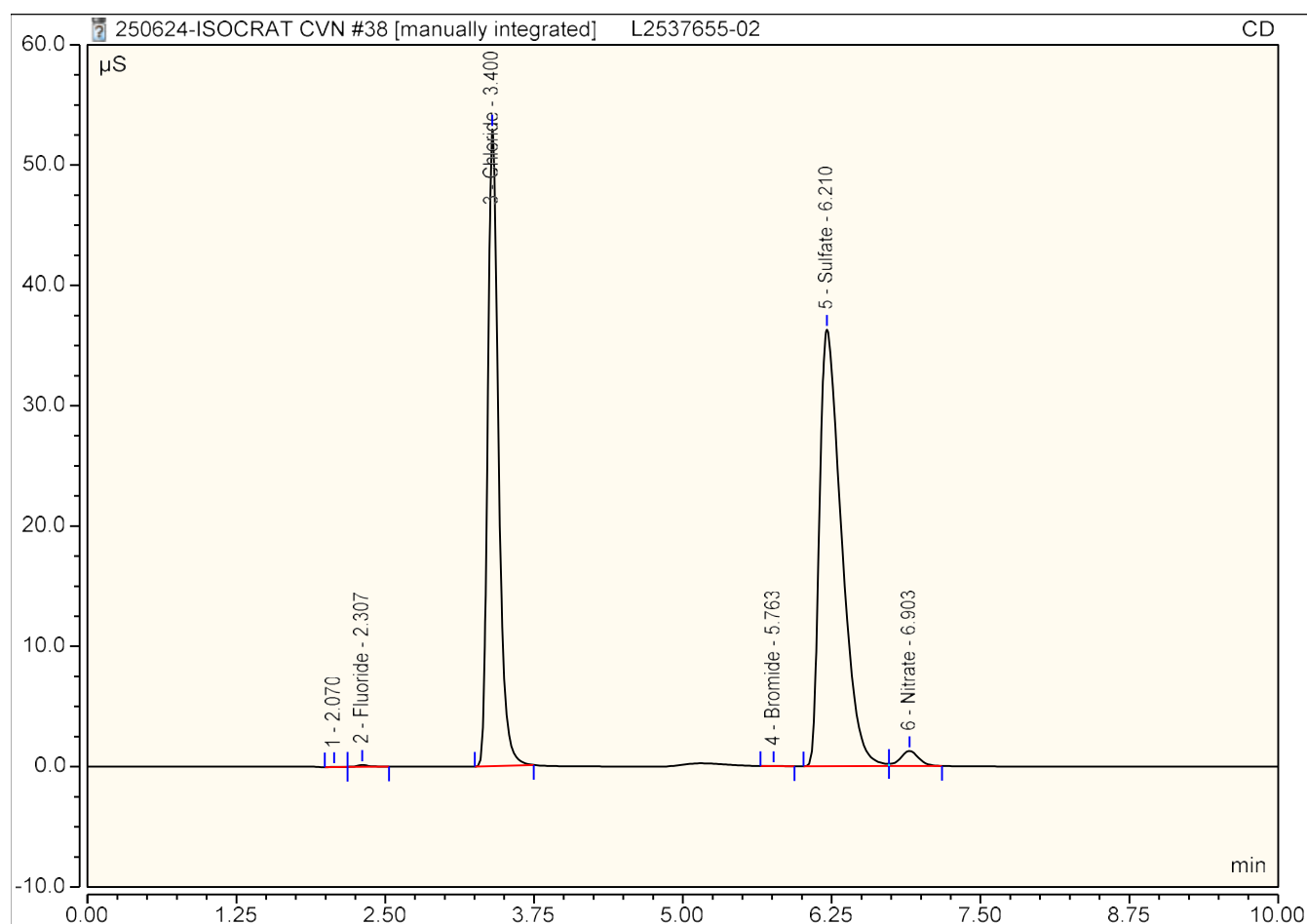
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.009	0.081	0.0428
3	3.42	Chloride	BMB	1.513	14.869	4.0131
4	5.79	Bromide	BMB	0.001	0.005	0.0410
5	6.25	Sulfate	BM *	3.511	17.883	12.2760
6	6.91	Nitrate	MB*	0.272	1.572	0.3122
TOTAL:				5.30	34.41	16.69



Peak Integration Report

Sample Name:	L2537655-02	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 18:41	Run Time:	10.00

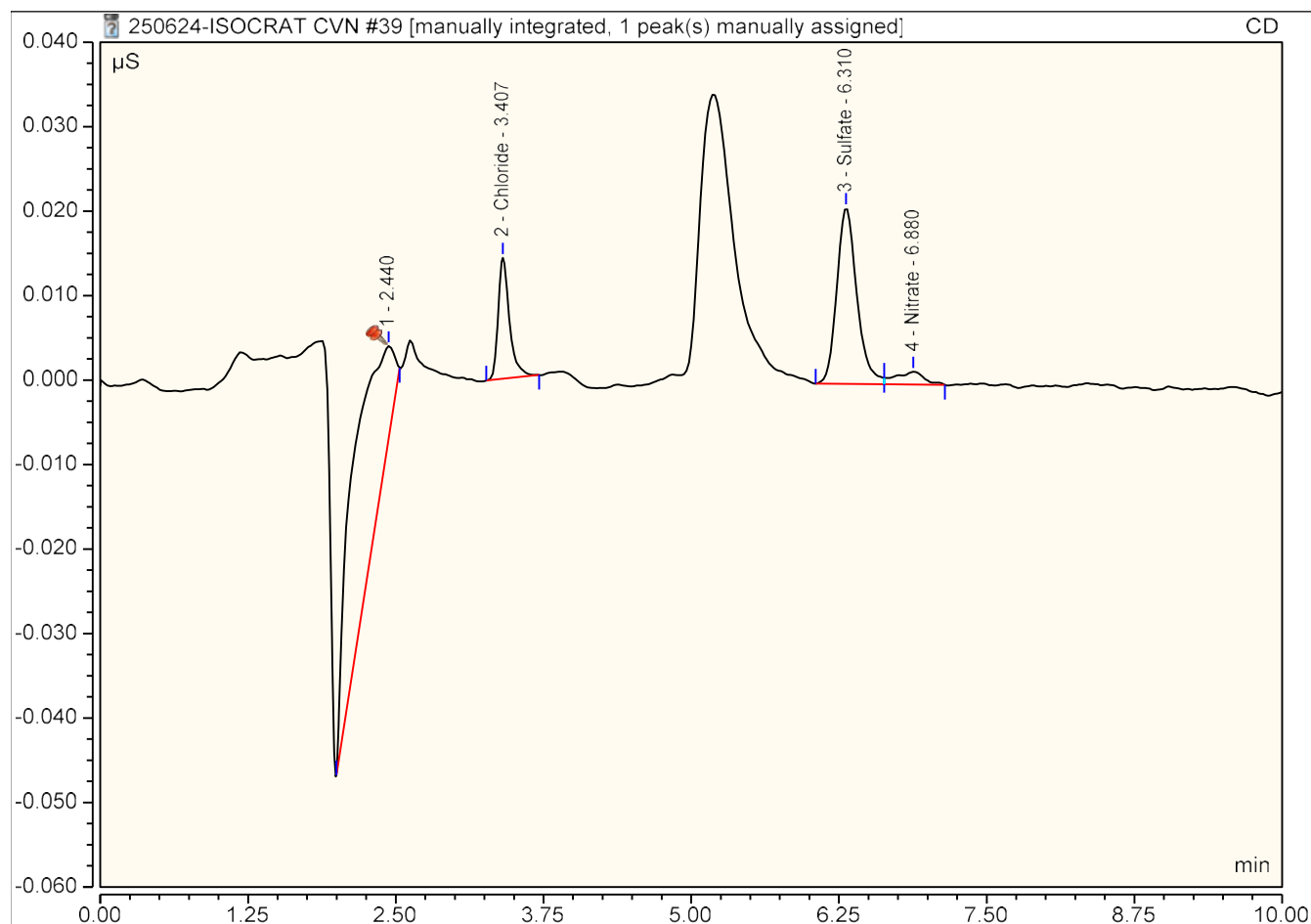
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.016	0.153	0.0553
3	3.40	Chloride	BMB	5.548	52.908	14.4622
4	5.76	Bromide	BMB	0.002	0.017	0.0546
5	6.21	Sulfate	BM *	7.774	36.291	26.3331
6	6.90	Nitrate	MB*	0.223	1.259	0.2615
TOTAL:				13.56	90.63	41.17



Peak Integration Report

Sample Name:	L2537655-03	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 18:53	Run Time:	10.00

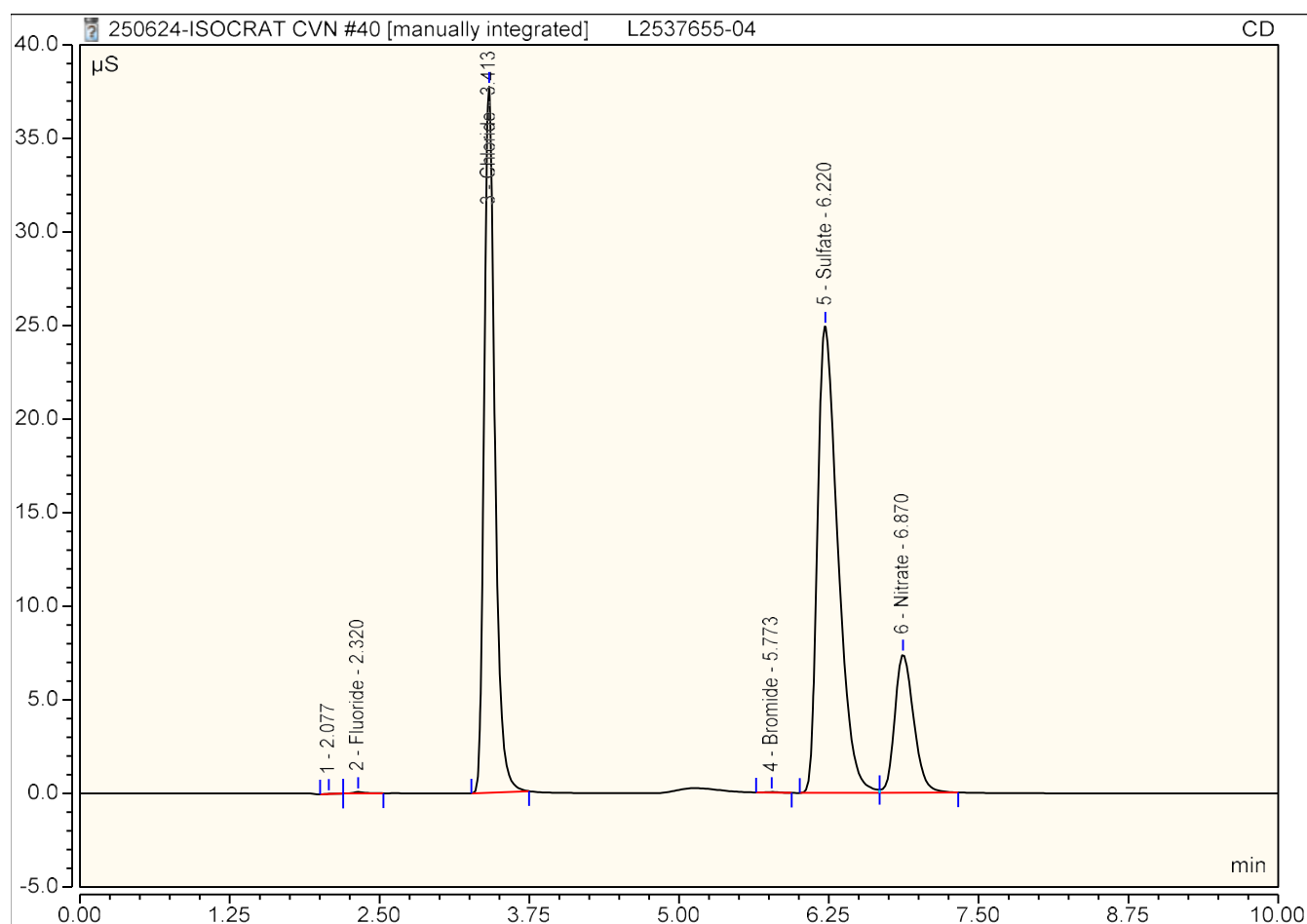
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	3.41	Chloride	BMB	0.002	0.014	0.0994
3	6.31	Sulfate	BM *	0.004	0.021	0.7113
4	6.88	Nitrate	MB*	0.000	0.002	0.0273
TOTAL:				0.01	0.04	0.84



Peak Integration Report

Sample Name:	L2537655-04	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 19:05	Run Time:	10.00

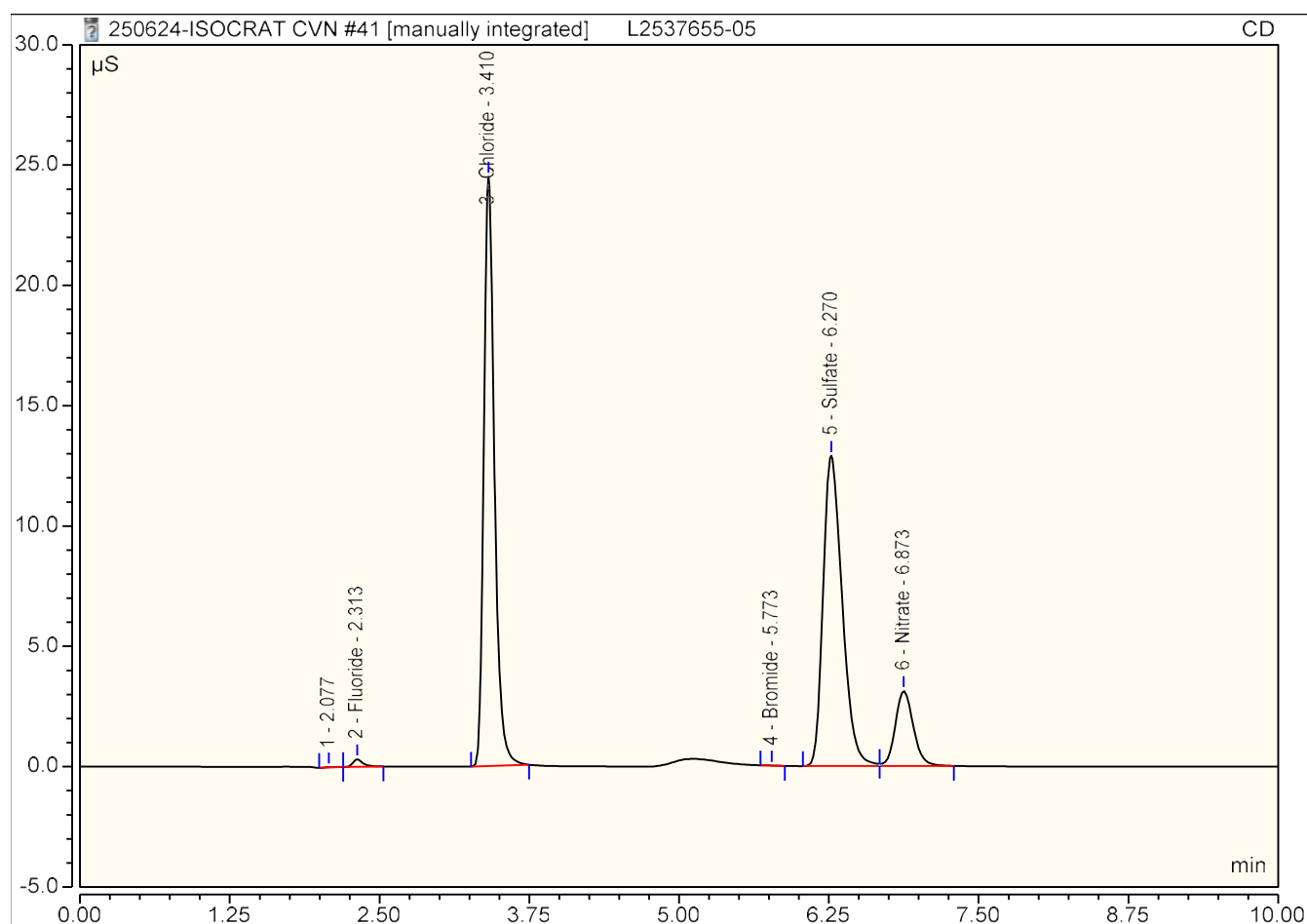
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.009	0.081	0.0430
3	3.41	Chloride	BMB	3.930	37.721	10.2725
4	5.77	Bromide	BMB	0.005	0.034	0.0709
5	6.22	Sulfate	BM *	4.933	24.923	16.9641
6	6.87	Nitrate	MB*	1.354	7.397	1.4493
TOTAL:				10.23	70.16	28.80



Peak Integration Report

Sample Name:	L2537655-05	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 19:17	Run Time:	10.00

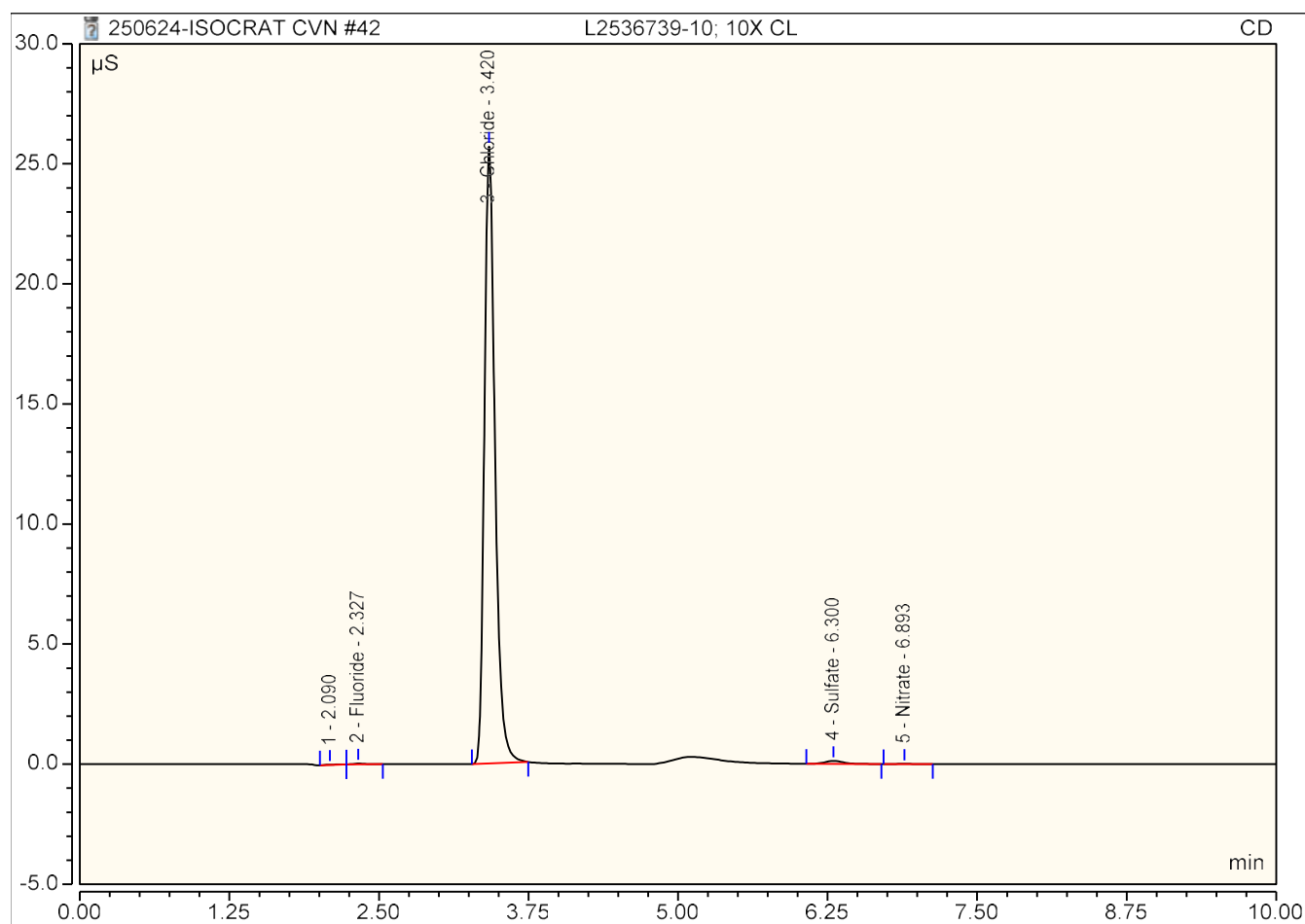
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.030	0.315	0.0812
3	3.41	Chloride	BMB	2.522	24.501	6.6262
4	5.77	Bromide	BMB	0.000	0.003	0.0398
5	6.27	Sulfate	BM *	2.380	12.896	8.5462
6	6.87	Nitrate	MB*	0.546	3.123	0.6003
TOTAL:				5.48	40.84	15.89



Peak Integration Report

Sample Name:	L2536739-10; 10X CL	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	10.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 19:29	Run Time:	10.00

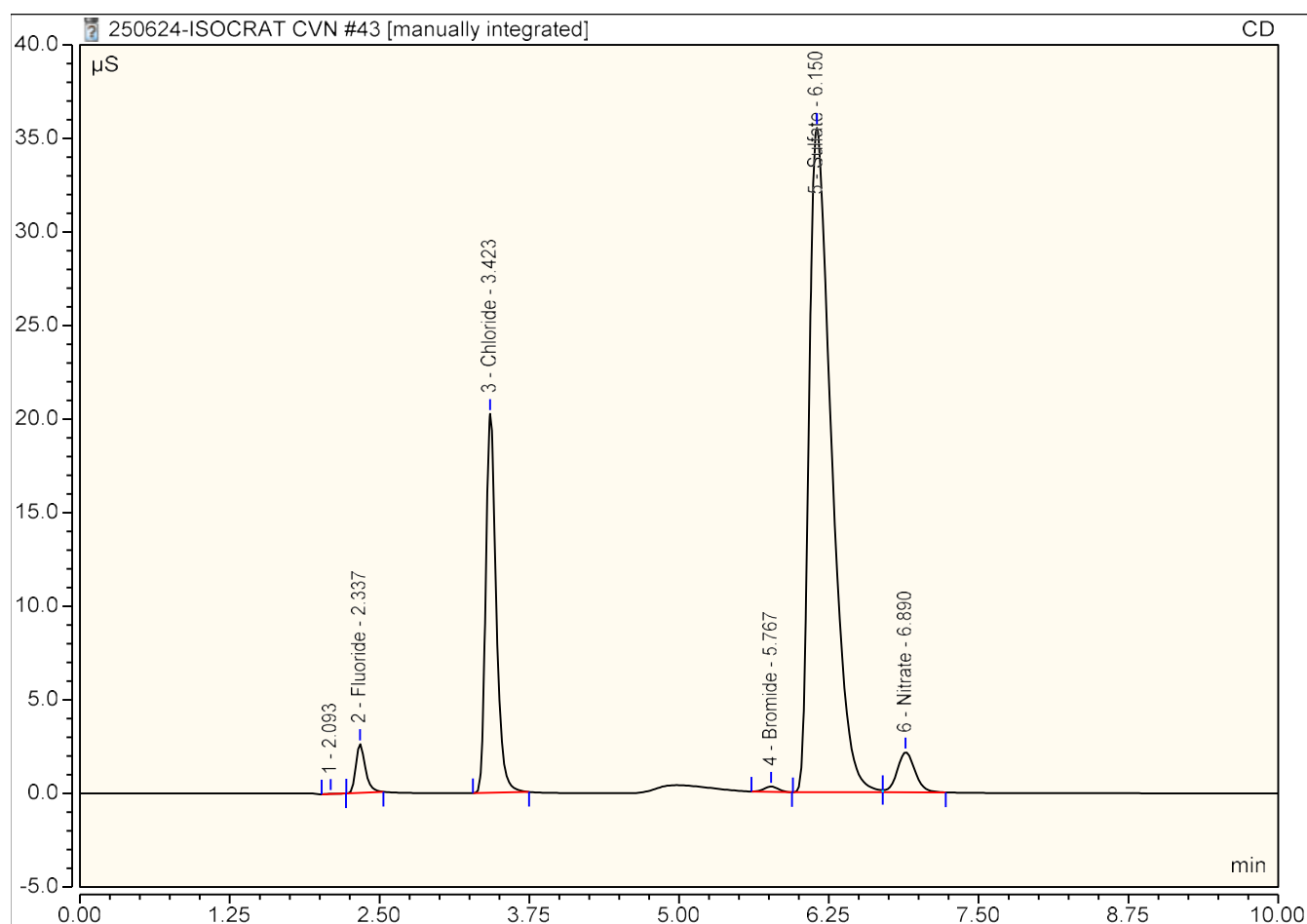
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.004	0.035	0.3413
3	3.42	Chloride	BMB	2.639	25.690	69.2879
4	6.30	Sulfate	BMB	0.022	0.122	7.7111
5	6.89	Nitrate	BMB	0.001	0.008	0.2823
TOTAL:				2.67	25.86	77.62



Peak Integration Report

Sample Name:	L2536739-04 MS	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 19:41	Run Time:	10.00

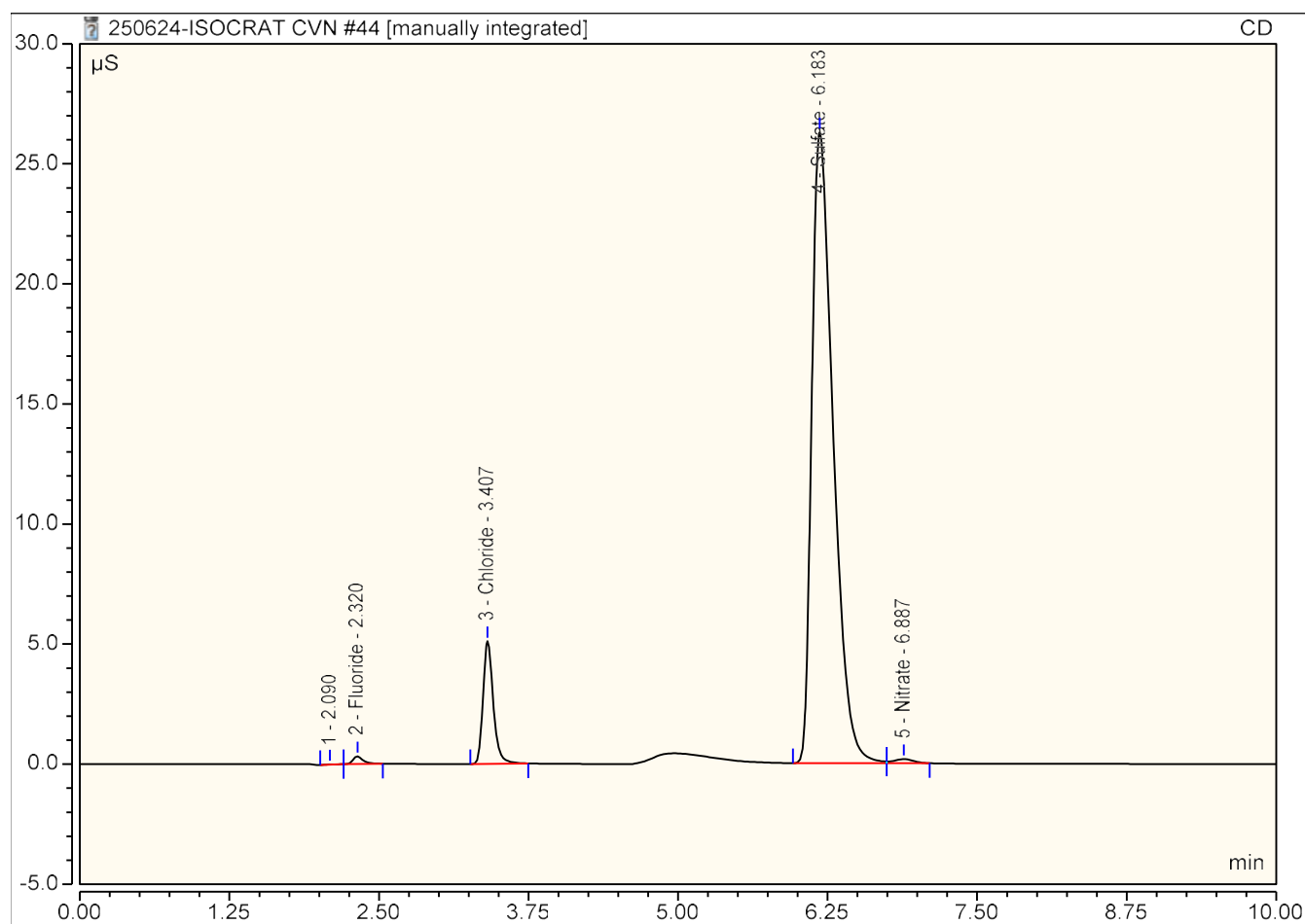
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.34	Fluoride	BMB	0.241	2.616	0.4621
3	3.42	Chloride	BMB	2.051	20.247	5.4063
4	5.77	Bromide	BMB	0.039	0.289	0.3268
5	6.15	Sulfate	BM *	7.650	35.505	25.9241
6	6.89	Nitrate	MB*	0.372	2.139	0.4178
TOTAL:				10.35	60.80	32.54



Peak Integration Report

Sample Name:	L2536739-04 DUP	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 19:54	Run Time:	10.00

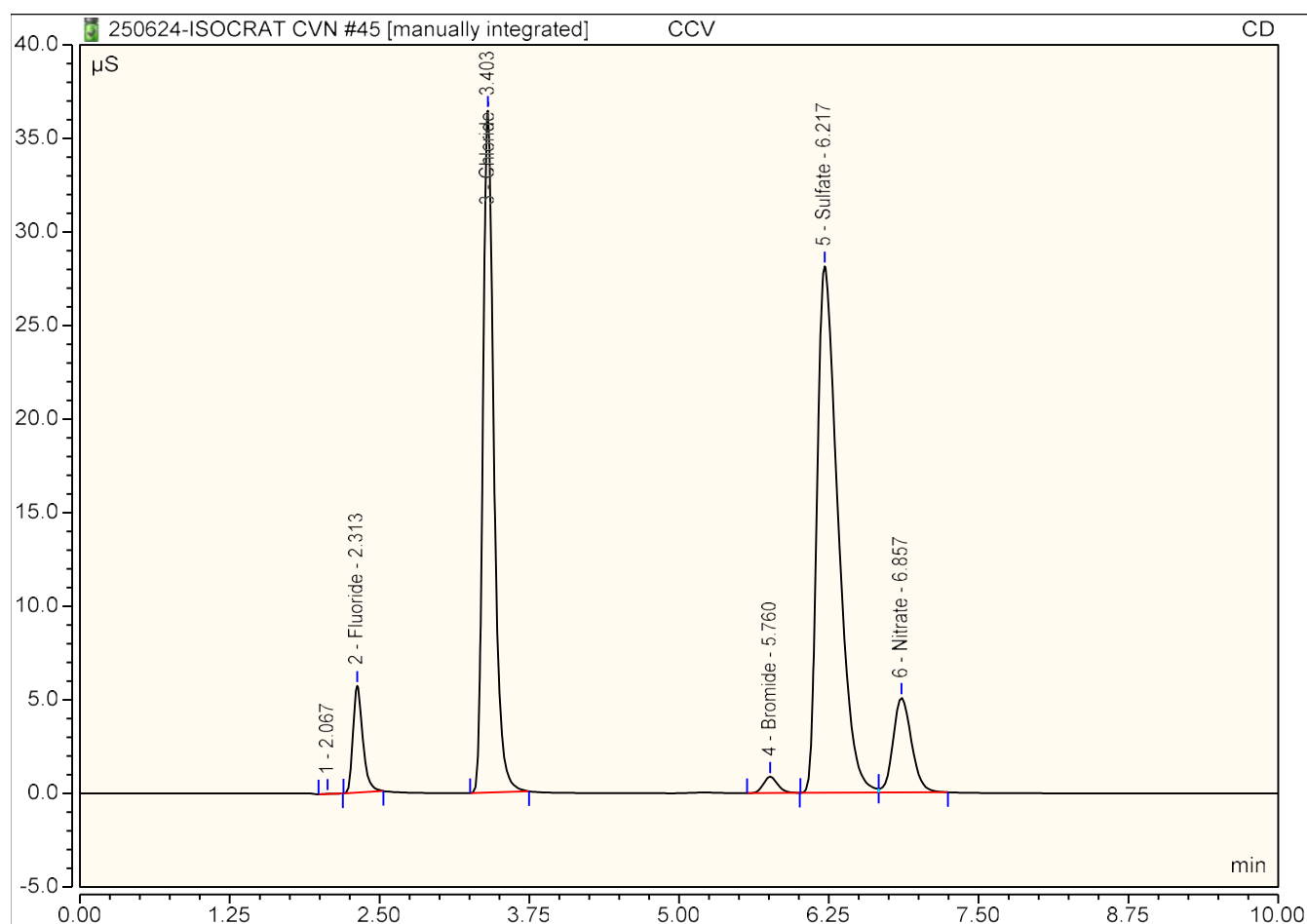
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.031	0.327	0.0834
3	3.41	Chloride	BMB	0.507	5.105	1.4090
4	6.18	Sulfate	BM *	5.437	26.279	18.6283
5	6.89	Nitrate	MB*	0.033	0.173	0.0612
TOTAL:				6.01	31.88	20.18



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:	24-Jun-2025 / 20:06	Run Time:	10.00

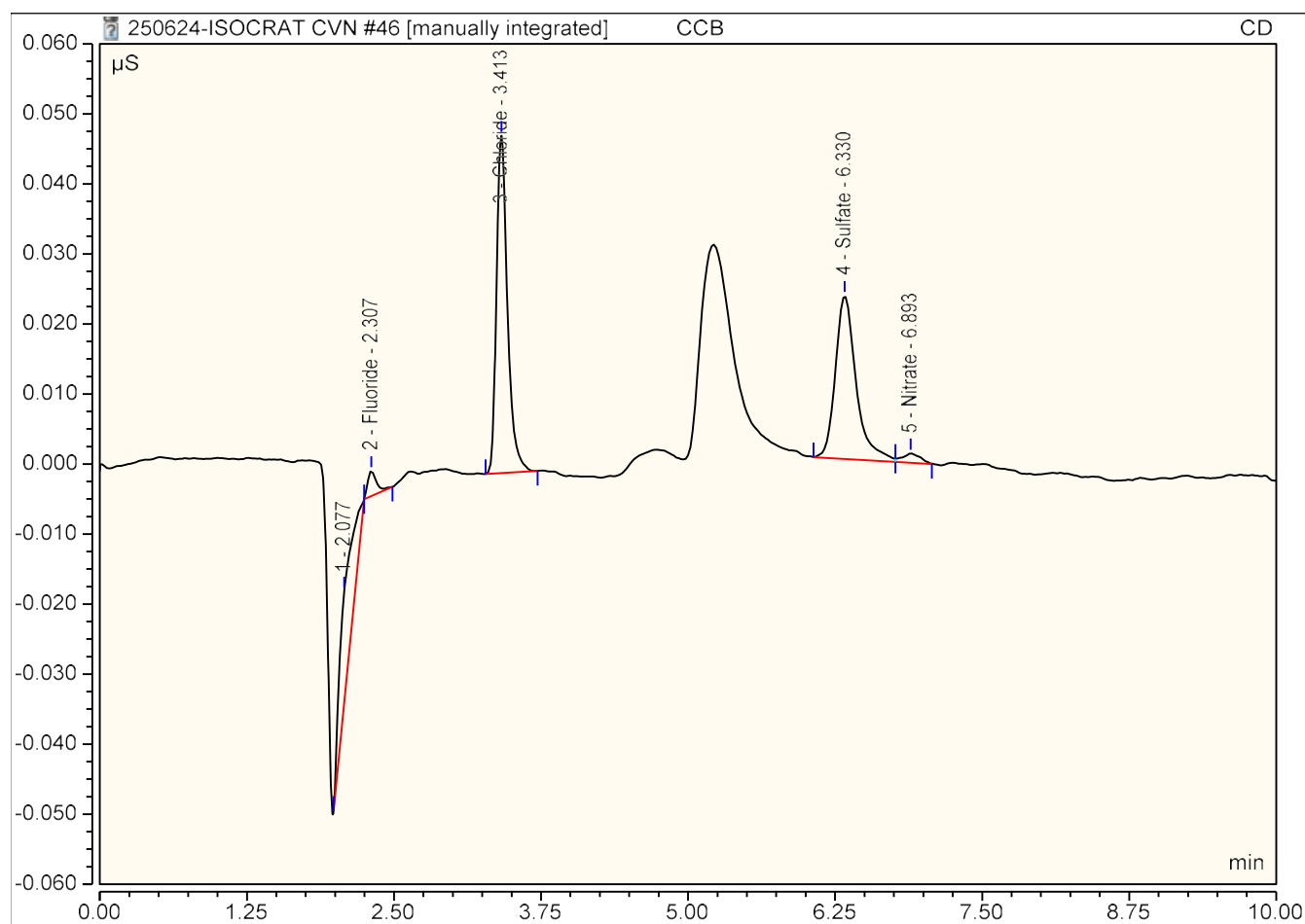
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.537	5.704	0.9949
3	3.40	Chloride	BMB	3.845	36.433	10.0519
4	5.76	Bromide	BMB	0.122	0.875	0.9394
5	6.22	Sulfate	BM *	5.689	28.126	19.4592
6	6.86	Nitrate	MB*	0.907	5.059	0.9801
TOTAL:				11.10	76.20	32.43



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:	24-Jun-2025 / 20:18	Run Time:	10.00

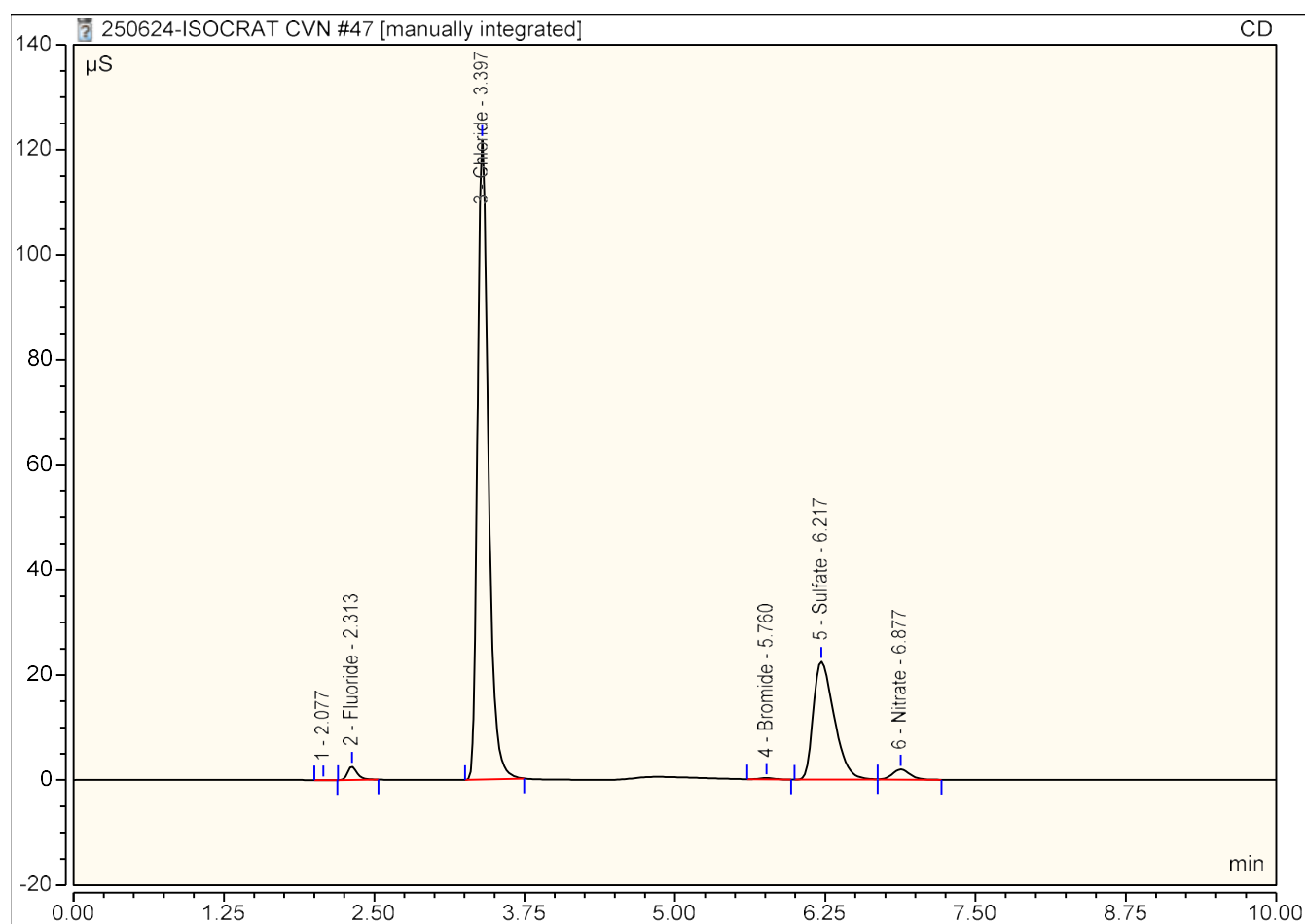
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.000	0.004	0.0278
3	3.41	Chloride	BMB	0.005	0.048	0.1087
4	6.33	Sulfate	BM *	0.005	0.023	0.7135
5	6.89	Nitrate	MB*	0.000	0.001	0.0271
TOTAL:				0.01	0.08	0.88



Peak Integration Report

Sample Name:	L2536739-12 MS	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 20:30	Run Time:	10.00

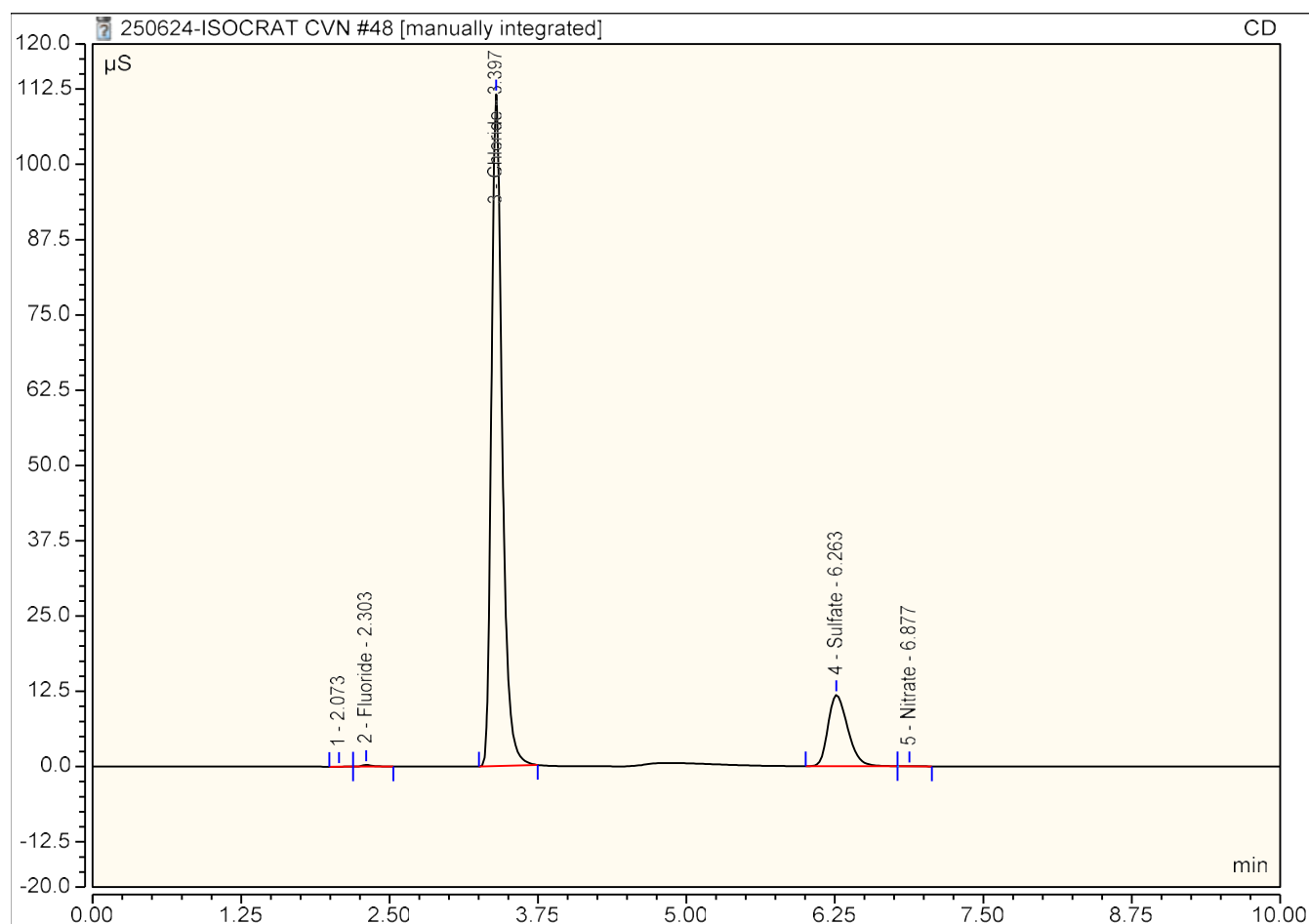
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.239	2.538	0.4584
3	3.40	Chloride	BMB	12.807	121.824	33.2610
4	5.76	Bromide	BMB	0.040	0.290	0.3371
5	6.22	Sulfate	BM *	4.540	22.482	15.6682
6	6.88	Nitrate	MB*	0.339	1.958	0.3834
TOTAL:				17.97	149.09	50.11



Peak Integration Report

Sample Name:	L2536739-12 DUP	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 20:42	Run Time:	10.00

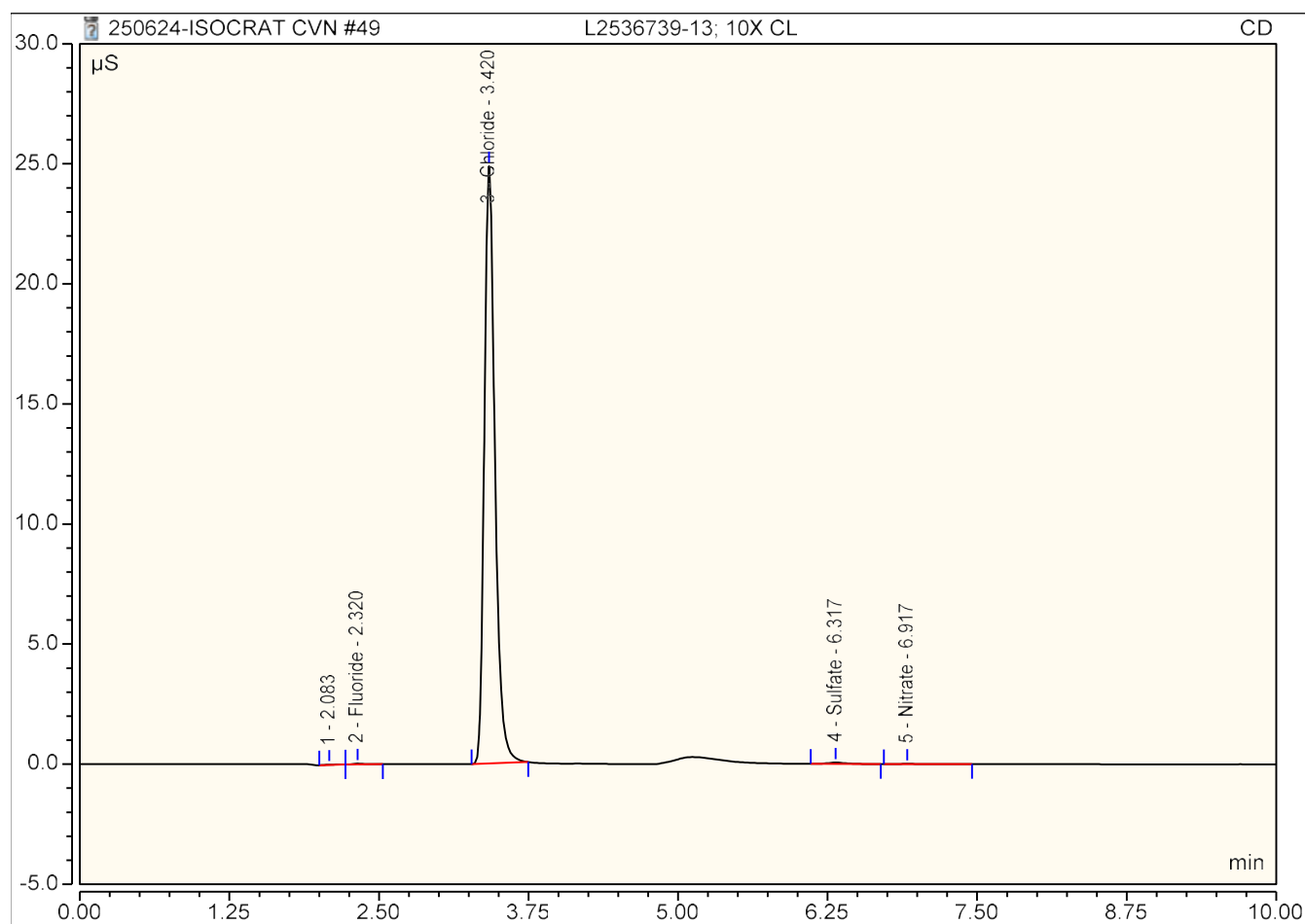
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount
2	2.30	Fluoride	BMB	0.028	0.287	0.0786
3	3.40	Chloride	BMB	11.723	111.539	30.4546
4	6.26	Sulfate	BM *	2.282	11.819	8.2236
5	6.88	Nitrate	MB*	0.008	0.042	0.0349
TOTAL:				14.04	123.69	38.79



Peak Integration Report

Sample Name:	L2536739-13; 10X CL	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	10.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 20:54	Run Time:	10.00

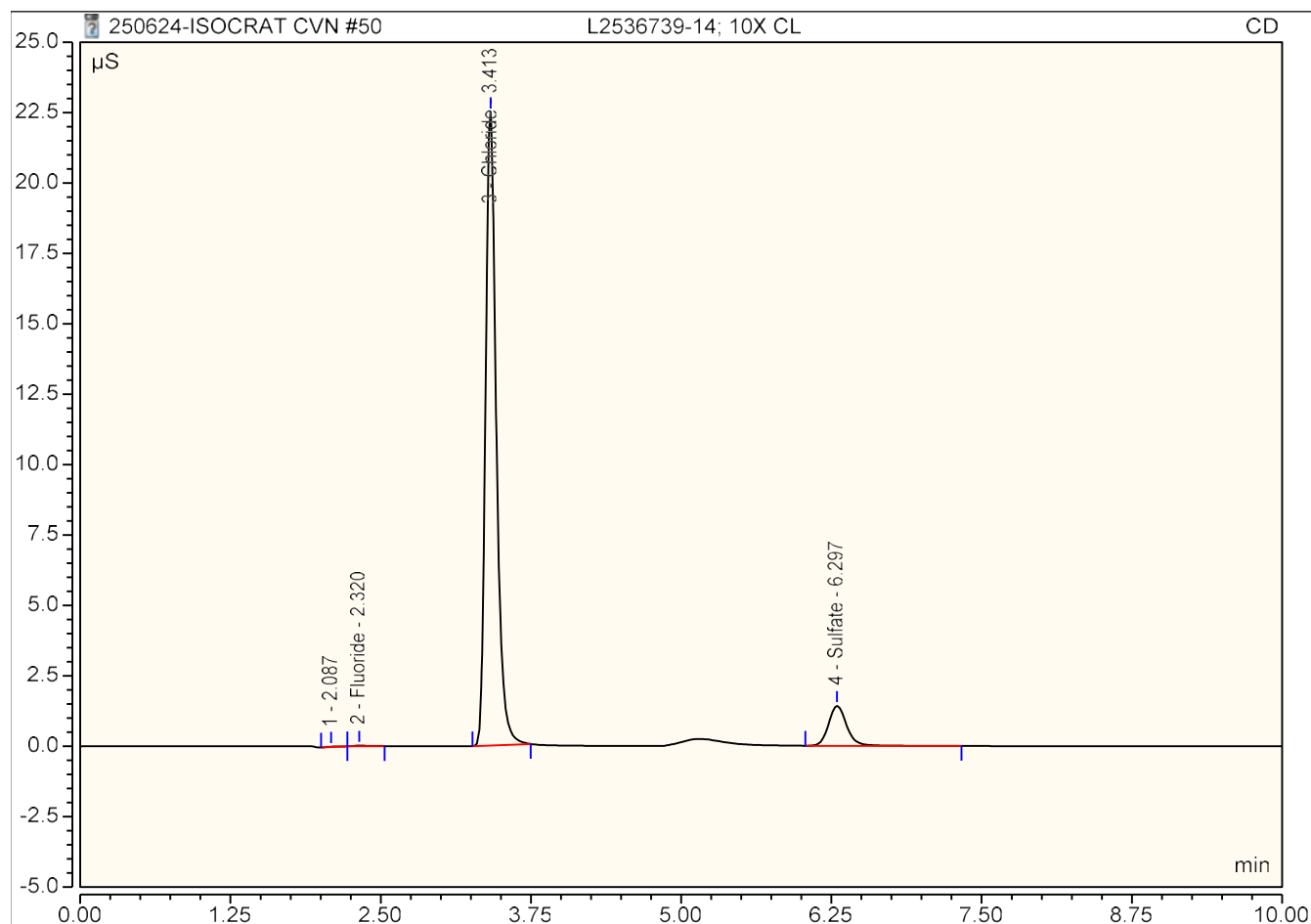
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.004	0.033	0.3388
3	3.42	Chloride	BMB	2.563	24.877	67.3230
4	6.32	Sulfate	BMB	0.010	0.056	7.3171
5	6.92	Nitrate	BMB	0.002	0.011	0.2920
TOTAL:				2.58	24.98	75.27



Peak Integration Report

Sample Name:	L2536739-14; 10X CL	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	10.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	24-Jun-2025 / 21:06	Run Time:	10.00

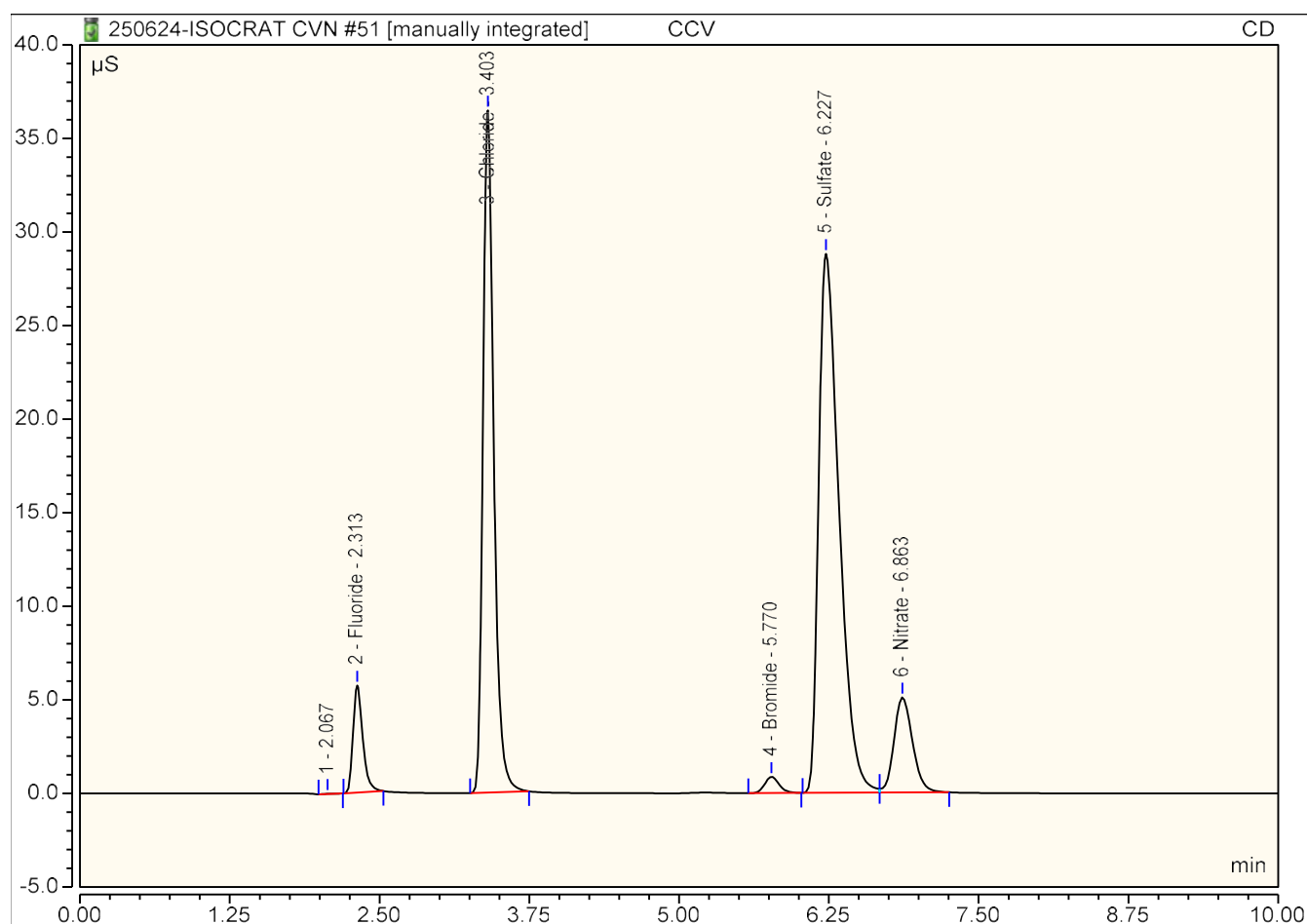
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.003	0.027	0.3297
3	3.41	Chloride	BMB	2.325	22.486	61.1702
4	6.30	Sulfate	BMB	0.249	1.421	15.2049
TOTAL:				2.58	23.93	76.70



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:	24-Jun-2025 / 21:18	Run Time:	10.00

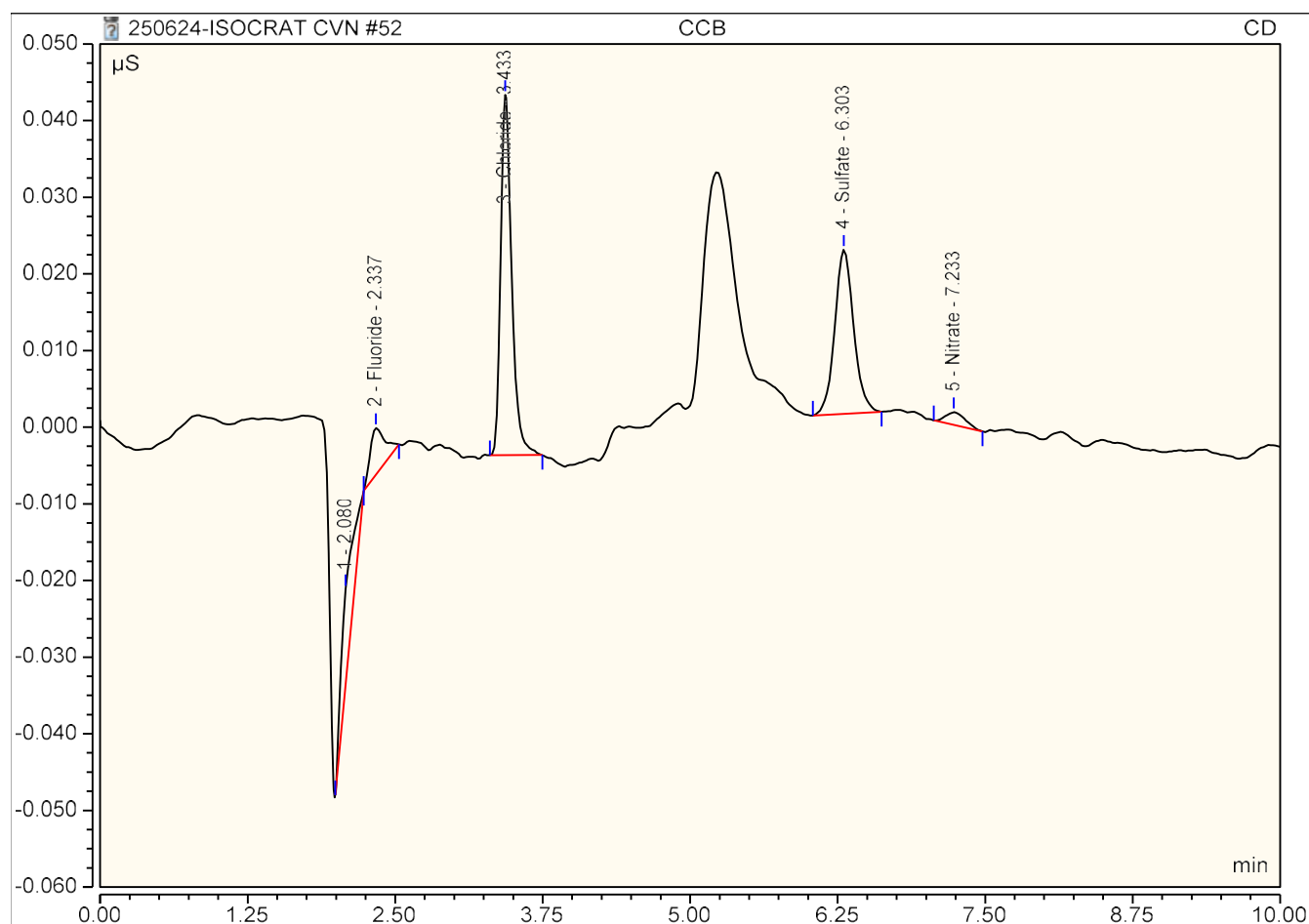
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.535	5.721	0.9926
3	3.40	Chloride	BMB	3.810	36.455	9.9627
4	5.77	Bromide	BMB	0.122	0.870	0.9384
5	6.23	Sulfate	BM *	5.691	28.797	19.4630
6	6.86	Nitrate	MB*	0.916	5.085	0.9886
TOTAL:				11.07	76.93	32.35



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:	24-Jun-2025 / 21:30	Run Time:	10.00

No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.34	Fluoride	BMB	0.001	0.006	0.0288
3	3.43	Chloride	BMB	0.005	0.047	0.1085
4	6.30	Sulfate	BMB	0.004	0.021	0.7109
5	7.23	Nitrate	BMB	0.000	0.002	0.0272
TOTAL:				0.01	0.08	0.88



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	0.0440	0.1000	n.a.	n.a.	n.a.
2	STD 0.5	1.0	0.0418	0.2829	0.0429	1.0180	0.0511
3	STD 1.0	1.0	0.0555	0.5048	0.0622	1.4554	0.0744
4	STD 2.0	1.0	0.1773	1.9278	0.1949	4.1152	0.1845
5	STD 3.0	1.0	0.4593	4.8782	0.4665	9.9062	0.4524
6	STD 4.0	1.0	2.0605	20.2356	2.0083	38.3461	2.0125
7	STD 5.0	1.0	4.9806	49.9206	5.0460	100.6592	4.8837
8	RINSE	1.0	0.0291	0.1165	0.0277	0.7212	n.a.
9	CCV	1.0	0.9688	9.9652	0.9881	19.5130	0.9582
10	CCB	1.0	0.0313	0.1039	0.0273	0.7210	n.a.
11	ICV	1.0	0.7477	8.0606	0.7797	8.0013	0.7569
12	ICB	1.0	0.0319	0.1054	0.0272	0.7193	n.a.
13	BLK	1.0	0.0290	0.1115	0.0278	0.7283	n.a.
14	LCS	1.0	0.7433	8.1267	0.7793	8.0962	0.7560
15	L2536739-01 BR CL SO4	1.0	0.1282	74.9119	n.a.	7.1552	0.0392
16	L2536739-01; 10X	10.0	0.3928	93.2158	n.a.	13.6133	n.a.
17	L2536739-02	1.0	0.1102	117.6801	0.0278	3.6449	0.0421
18	L2536739-02; 10X	10.0	0.3658	132.6477	n.a.	9.6267	n.a.
19	L2536739-03	1.0	1.7253	10.3390	0.0317	1.0226	0.1719
20	XL2536739-03; 10X	10.0	1.9130	11.9903	0.2751	7.3354	0.4823
21	CCV	1.0	0.9630	9.9846	0.9970	19.7429	0.9461
22	CCB	1.0	0.0287	0.1102	0.0284	0.7131	n.a.
23	L2536739-04	1.0	0.0830	1.4195	0.0639	18.4463	n.a.
24	L2536739-05	1.0	0.0759	48.5234	0.0276	2.1173	0.0397
25	L2536739-06	1.0	0.0852	24.0950	0.6327	1.7143	n.a.
26	L2536739-07	1.0	0.0279	0.1084	0.0274	0.7111	n.a.
27	L2536739-08	1.0	0.0694	24.5317	0.2505	5.0073	0.0397
28	L2536739-09	1.0	0.0775	40.9112	0.0303	2.9647	0.0413
29	L2536739-10	1.0	0.0808	58.1787	0.0360	1.2354	0.0396
30	L2536739-11	1.0	0.0831	39.2067	0.1561	1.3253	0.0414
31	L2536739-12	1.0	0.0784	30.4570	0.0350	8.2476	n.a.
32	L2536739-13	1.0	0.0812	58.2389	0.0419	0.9592	0.0398
33	CCV	1.0	0.9878	9.9689	0.9823	19.4032	0.9370
34	CCB	1.0	n.a.	0.1095	0.0273	0.7112	n.a.
35	L2536739-14	1.0	0.0664	51.1200	0.0302	8.7499	0.0399
36	L2536739-15	1.0	1.2199	5.7275	0.9461	8.2083	0.0996
37	L2537655-01 BR	1.0	0.0428	4.0131	0.3122	12.2760	0.0410
38	L2537655-02	1.0	0.0553	14.4622	0.2615	26.3331	0.0546
39	L2537655-03	1.0	n.a.	0.0994	0.0273	0.7113	n.a.
40	L2537655-04	1.0	0.0430	10.2725	1.4493	16.9641	0.0709
41	L2537655-05	1.0	0.0812	6.6262	0.6003	8.5462	0.0398
42	L2536739-10; 10X CL	10.0	0.3413	69.2879	0.2823	7.7111	n.a.

43	L2536739-04 MS	1.0	0.4621	5.4063	0.4178	25.9241	0.3268
44	L2536739-04 DUP	1.0	0.0834	1.4090	0.0612	18.6283	n.a.
45	CCV	1.0	0.9949	10.0519	0.9801	19.4592	0.9394
46	CCB	1.0	0.0278	0.1087	0.0271	0.7135	n.a.
47	L2536739-12 MS	1.0	0.4584	33.2610	0.3834	15.6682	0.3371
48	L2536739-12 DUP	1.0	0.0786	30.4546	0.0349	8.2236	n.a.
49	L2536739-13; 10X CL	10.0	0.3388	67.3230	0.2920	7.3171	n.a.
50	L2536739-14; 10X CL	10.0	0.3297	61.1702	n.a.	15.2049	n.a.
51	CCV	1.0	0.9926	9.9627	0.9886	19.4630	0.9384
52	CCB	1.0	0.0288	0.1085	0.0272	0.7109	n.a.
	Sum:	106.000	23.4023		21.2705	540.5103	15.8774
	Average:	2.038	0.4680		0.4526	10.5982	0.5122
	Rel.Std.Dev:	142.432 %	1.7686		1.8085	1.4561	1.8223

Inject Time	Comment
21/May/2025 19:51	AU
21/May/2025 20:04	LOT#250516-0.5
21/May/2025 20:16	LOT#250516-1.0
21/May/2025 20:28	LOT#250516-2.0
21/May/2025 20:40	LOT#250516-3.0
21/May/2025 20:52	LOT#250516-4.0
21/May/2025 21:04	LOT#250516-5.0
24/Jun/2025 12:38	WG2082916-18
24/Jun/2025 12:51	LOT#250620-C
24/Jun/2025 13:03	CVN
24/Jun/2025 13:15	LOT#250620-I
24/Jun/2025 13:27	CVN
24/Jun/2025 13:39	CVN
24/Jun/2025 13:51	LOT#250620-I
24/Jun/2025 14:03	CVN
24/Jun/2025 14:15	CVN
24/Jun/2025 14:27	CVN
24/Jun/2025 14:39	CVN
24/Jun/2025 14:51	CVN
24/Jun/2025 15:03	CVN
24/Jun/2025 15:16	LOT#250620-C
24/Jun/2025 15:28	CVN
24/Jun/2025 15:40	CVN
24/Jun/2025 15:52	CVN
24/Jun/2025 16:04	CVN
24/Jun/2025 16:16	CVN
24/Jun/2025 16:28	CVN
24/Jun/2025 16:40	CVN
24/Jun/2025 16:52	CVN
24/Jun/2025 17:04	CVN
24/Jun/2025 17:16	CVN
24/Jun/2025 17:29	CVN
24/Jun/2025 17:41	LOT#250620-C
24/Jun/2025 17:53	CVN
24/Jun/2025 18:05	CVN
24/Jun/2025 18:17	CVN
24/Jun/2025 18:29	CVN
24/Jun/2025 18:41	CVN
24/Jun/2025 18:53	CVN
24/Jun/2025 19:05	CVN
24/Jun/2025 19:17	CVN
24/Jun/2025 19:29	CVN

24/Jun/2025 19:41	CVN
24/Jun/2025 19:54	CVN
24/Jun/2025 20:06	LOT#250620-C
24/Jun/2025 20:18	CVN
24/Jun/2025 20:30	CVN
24/Jun/2025 20:42	CVN
24/Jun/2025 20:54	CVN
24/Jun/2025 21:06	CVN
24/Jun/2025 21:18	LOT#250620-C
24/Jun/2025 21:30	CVN
	0.000
	#DIV/0!
	#DIV/0!

Quality Control

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2536739-12
 Matrix Spike : WG2082916-3
 Matrix Spike Dup :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER

MS Analysis Date : 06/24/25 20:30
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Bromide	ND	0.4	0.337	84 Q					90-110	20



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2537655
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/24/25 17:16
Dup Sample ID	: WG2082916-4	DUP Analysis Date	: 06/24/25 20:42

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
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2082916-2
 Dup Sample ID :

Lab Number : L2537655
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/24/25 13:51
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Bromide	0.800	0.756	94.					90-110	20



Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

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.

$$\text{Result, mg/L} = \frac{\text{area} - \text{y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Subcontracted Data



June 24, 2025

Jennifer Byrnes

,

RE: Project: L2537655
Pace Project No.: 70361854

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 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, Pace - West Borough



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2537655

Pace Project No.: 70361854

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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SAMPLE SUMMARY

Project: L2537655

Pace Project No.: 70361854

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70361854001	MW-11S	Water	06/16/25 12:05	06/18/25 06:00
70361854002	MW-11D	Water	06/16/25 12:08	06/18/25 06:00
70361854003	EQUIPMENT BLANK	Water	06/16/25 12:30	06/18/25 06:00
70361854004	MW-1DRZ	Water	06/16/25 13:45	06/18/25 06:00
70361854005	MW-1SR	Water	06/16/25 13:50	06/18/25 06:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: L2537655

Pace Project No.: 70361854

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70361854001	MW-11S	SM22 4500-S2 F	JWM	1
70361854002	MW-11D	SM22 4500-S2 F	JWM	1
70361854003	EQUIPMENT BLANK	SM22 4500-S2 F	JWM	1
70361854004	MW-1DRZ	SM22 4500-S2 F	JWM	1
70361854005	MW-1SR	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: L2537655
Pace Project No.: 70361854

Method: SM22 4500-S2 F
Description: 4500S2F W Sulfide Iodometric
Client: Pace Westborough
Date: June 24, 2025

General Information:

5 samples were 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 70361854

Sample: MW-11S Lab ID: 70361854001 Collected: 06/16/25 12:05 Received: 06/18/25 06:00 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		06/23/25 14:43		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 70361854

Sample: MW-11D Lab ID: 70361854002 Collected: 06/16/25 12:08 Received: 06/18/25 06:00 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		06/23/25 14:46		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 70361854

Sample: EQUIPMENT BLANK Lab ID: 70361854003 Collected: 06/16/25 12:30 Received: 06/18/25 06:00 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		06/23/25 14:49		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 70361854

Sample: MW-1DRZ Lab ID: 70361854004 Collected: 06/16/25 13:45 Received: 06/18/25 06:00 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		06/23/25 14:52		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 70361854

Sample: MW-1SR Lab ID: 70361854005 Collected: 06/16/25 13:50 Received: 06/18/25 06:00 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		06/23/25 14:55		

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QUALITY CONTROL DATA

Project: L2537655

Pace Project No.: 70361854

QC Batch: 405782

Analysis Method: SM22 4500-S2 F

QC Batch Method: SM22 4500-S2 F

Analysis Description: 4500S2F W Sulfide Iodometric

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70361854001, 70361854002, 70361854003, 70361854004, 70361854005

METHOD BLANK: 2147588

Matrix: Water

Associated Lab Samples: 70361854001, 70361854002, 70361854003, 70361854004, 70361854005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	06/23/25 14:34	

LABORATORY CONTROL SAMPLE & LCSD: 2147589

2147590

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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QUALIFIERS

Project: L2537655
Pace Project No.: 70361854

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2537655
Pace Project No.: 70361854

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70361854001	MW-11S	SM22 4500-S2 F	405782		
70361854002	MW-11D	SM22 4500-S2 F	405782		
70361854003	EQUIPMENT BLANK	SM22 4500-S2 F	405782		
70361854004	MW-1DRZ	SM22 4500-S2 F	405782		
70361854005	MW-1SR	SM22 4500-S2 F	405782		

REPORT OF LABORATORY ANALYSIS

WO#: 70361854



70361854

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747Pace Job Number
L2537655

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 (Level 4)		State/Federal Program: Regulatory Criteria: Report to MDL				
Project Specific Requirements and/or Report Requirements								
Reference following Pace Job Number on final report/deliverables: L2537655 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
	L2537655-01 L2537655-02 L2537655-03 L2537655-04 L2537655-05	MW-11S MW-11D EQUIPMENT BLANK MW-1DRZ MW-1SR	06-16-25 12:05 06-16-25 12:08 06-16-25 12:30 06-16-25 13:45 06-16-25 13:50	WATER WATER WATER WATER WATER	Sulfide Sulfide Sulfide Sulfide Sulfide			2 2 2 2 2
Relinquished By:			Date/Time:		Received By:		Date/Time:	
			6/17/25 1738				6/17 1738	
			6/17					
Form No: AL_subcoc								

WO#: 70361854

Client Name:

Project

PM: BDR

Due Date: 06/25/25

CLIENT: ALPHA

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: TH211 Correction Factor: 50.2 ☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 2.3 Cooler Temperature Corrected(°C): 2.5 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 originate 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:

	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	10.
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: ☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix: SL ☒ WT ☐ OIL ☐ OTHER	

Date and Initials of person checking preservation:

All containers needing preservation have been ☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot # <u>231224</u>	Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☒ Yes ☐ No ☐ N/A	
NAOH>12 Cyanide)	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).	
Per Method, VOA pH is checked after analysis	
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 # <u>14-862</u>	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.



June 26, 2025

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2537655
Pace Project No.: 50405097

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 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@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2537655
Pace Project No.: 50405097

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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SAMPLE SUMMARY

Project: L2537655

Pace Project No.: 50405097

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50405097001	MW-11S	Water	06/16/25 12:05	06/19/25 08:45
50405097002	MW-11D	Water	06/16/25 12:08	06/19/25 08:45
50405097003	EQUIPMENT BLANK	Water	06/16/25 12:30	06/19/25 08:45
50405097004	MW-1DRZ	Water	06/16/25 13:45	06/19/25 08:45
50405097005	MW-1SR	Water	06/16/25 13:50	06/19/25 08:45

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SAMPLE ANALYTE COUNT

Project: L2537655

Pace Project No.: 50405097

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50405097001	MW-11S	EPA 9056	GLT	1
50405097002	MW-11D	EPA 9056	GLT	1
50405097003	EQUIPMENT BLANK	EPA 9056	GLT	1
50405097004	MW-1DRZ	EPA 9056	GLT	1
50405097005	MW-1SR	EPA 9056	GLT	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 50405097

Sample: MW-11S		Lab ID: 50405097001		Collected: 06/16/25 12:05		Received: 06/19/25 08:45		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		06/21/25 13:27		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 50405097

Sample: MW-11D		Lab ID: 50405097002		Collected: 06/16/25 12:08		Received: 06/19/25 08:45		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		06/21/25 14:25		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 50405097

Sample: EQUIPMENT BLANK		Lab ID: 50405097003		Collected: 06/16/25 12:30		Received: 06/19/25 08:45		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		06/21/25 14:45		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 50405097

Sample: MW-1DRZ		Lab ID: 50405097004		Collected: 06/16/25 13:45		Received: 06/19/25 08:45		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		06/21/25 15:04		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 50405097

Sample: MW-1SR		Lab ID: 50405097005		Collected: 06/16/25 13:50		Received: 06/19/25 08:45		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		06/21/25 15:23		

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QUALITY CONTROL DATA

Project: L2537655

Pace Project No.: 50405097

QC Batch: 850165

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 Iodide by IC

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50405097001, 50405097002, 50405097003, 50405097004, 50405097005

METHOD BLANK: 3894277

Matrix: Water

Associated Lab Samples: 50405097001, 50405097002, 50405097003, 50405097004, 50405097005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	06/21/25 10:34	

LABORATORY CONTROL SAMPLE: 3894278

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3894279 3894280

Parameter	Units	50405090001 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	4.5	4.5	90	90	80-120	0	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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QUALIFIERS

Project: L2537655

Pace Project No.: 50405097

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2537655

Pace Project No.: 50405097

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50405097001	MW-11S	EPA 9056	850165		
50405097002	MW-11D	EPA 9056	850165		
50405097003	EQUIPMENT BLANK	EPA 9056	850165		
50405097004	MW-1DRZ	EPA 9056	850165		
50405097005	MW-1SR	EPA 9056	850165		

REPORT OF LABORATORY ANALYSIS

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WO# : 50405097



50405097

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Pace Job Number

L2537655

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.couphost.com

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Turnaround & Deliverables Information

Due Date:
Deliverables: ASP Category B Deliverables (Level 4)

Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2537655 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
	L2537655-01 L2537655-02 L2537655-03 L2537655-04 L2537655-05	MW-11S MW-11D EQUIPMENT BLANK MW-1DRZ MW-1SR	06-16-25 12:05 06-16-25 12:08 06-16-25 12:30 06-16-25 13:45 06-16-25 13:50	WATER WATER WATER WATER WATER	Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056			1 1 1 1 1
Form No: AL_subcoc			Relinquished By:	Date/Time:	Received By:	Date/Time:		
			<i>C. Selean</i>		<i>Fedex</i>			
			<i>Fedex</i>	<i>6/19/25 845</i>	<i>in in Pace</i>	<i>6/19/25 845</i>		

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 6/19/25 1905 cc

1. Thermometer: 1 2 3 4 5 6 7 8 9 A B C D E F G H I	3. Packing Material: Bubble Wrap ☒ Bubble Bags ☐ Other _____
2. Cooler Temperature(s): 4.0/4.0 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)	4. Ice Type: ☒ Wet ☐ Blue ☐ None
3. Was the PM notified of out of temp cooler?: (leave blank if samples are in temp) Yes ☐ No ☐	5. Courier: ☒ Fed Ex ☐ UPS ☐ Client ☐ Pace ☐ Now/Jett ☐ Other
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	6. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No (If yes)Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	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			☒
Short Hold Time Analysis (48 hours or less)? Analysis:		☒				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Containers Intact?:	☒		Trip Blank Present?		☒	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Custody Seals?:			☒
Comments:			Extra labels on Terracore Vials? (soils only)			☒

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU	BG1U	MeOH (only)	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS						PLASTIC						OTHER				Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
				SBS							AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z		CG3H	CG3F	Syringe Kit	Red	Yellow	Green	Black																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

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
2323 Sycamore Dr
Knoxville, TN 37921
(865) 546-1335
debbierobertson@galbraith.com

Sample: MW-11S					
Lab ID: 2025-W-1634		Received: 2025-06-18			
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	212.08 mg	2025-06-27

Sample: MW-11D					
Lab ID: 2025-W-1635		Received: 2025-06-18			
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	212.21 mg	2025-06-27

Sample: EQUIPMENT BLANK					
Lab ID: 2025-W-1636		Received: 2025-06-18			
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	212.14 mg	2025-06-27

Sample: MW-1DRZ					
Lab ID: 2025-W-1637		Received: 2025-06-18			
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	212.18 mg	2025-06-27

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Reported results are only applicable to the item tested.

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Sample: MW-1SR		Received: 2025-06-18			
Lab ID: 2025-W-1638					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	211.65 mg	2025-06-27

Signatures:

Created By: Debbie.S.Robertson
Published By: Debbie.S.Robertson

2025-06-30T19:27:01.55-04:00
2025-06-30T19:27:19.21-04:00

- Physical signatures are on file.
- "Published By" signature indicates authorized release of data.



Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 70361854

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InOrganic

Wet Chemistry

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June 24, 2025

Jennifer Byrnes

,

RE: Project: L2537655
Pace Project No.: 70361854

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 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, Pace - West Borough



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2537655

Pace Project No.: 70361854

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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SAMPLE SUMMARY

Project: L2537655

Pace Project No.: 70361854

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70361854001	MW-11S	Water	06/16/25 12:05	06/18/25 06:00
70361854002	MW-11D	Water	06/16/25 12:08	06/18/25 06:00
70361854003	EQUIPMENT BLANK	Water	06/16/25 12:30	06/18/25 06:00
70361854004	MW-1DRZ	Water	06/16/25 13:45	06/18/25 06:00
70361854005	MW-1SR	Water	06/16/25 13:50	06/18/25 06:00

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SAMPLE ANALYTE COUNT

Project: L2537655

Pace Project No.: 70361854

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70361854001	MW-11S	SM22 4500-S2 F	JWM	1
70361854002	MW-11D	SM22 4500-S2 F	JWM	1
70361854003	EQUIPMENT BLANK	SM22 4500-S2 F	JWM	1
70361854004	MW-1DRZ	SM22 4500-S2 F	JWM	1
70361854005	MW-1SR	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

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PROJECT NARRATIVE

Project: L2537655
Pace Project No.: 70361854

Method: SM22 4500-S2 F
Description: 4500S2F W Sulfide Iodometric
Client: Pace Westborough
Date: June 24, 2025

General Information:

5 samples were 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 70361854

Sample: MW-11S		Lab ID: 70361854001		Collected: 06/16/25 12:05		Received: 06/18/25 06:00		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		06/23/25 14:43		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 70361854

Sample: MW-11D		Lab ID: 70361854002		Collected: 06/16/25 12:08		Received: 06/18/25 06:00		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		06/23/25 14:46		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 70361854

Sample: EQUIPMENT BLANK Lab ID: 70361854003 Collected: 06/16/25 12:30 Received: 06/18/25 06:00 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		06/23/25 14:49		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 70361854

Sample: MW-1DRZ		Lab ID: 70361854004		Collected: 06/16/25 13:45		Received: 06/18/25 06:00		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		06/23/25 14:52		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 70361854

Sample: MW-1SR		Lab ID: 70361854005		Collected: 06/16/25 13:50		Received: 06/18/25 06:00		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		06/23/25 14:55		

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QUALITY CONTROL DATA

Project: L2537655

Pace Project No.: 70361854

QC Batch: 405782

Analysis Method: SM22 4500-S2 F

QC Batch Method: SM22 4500-S2 F

Analysis Description: 4500S2F W Sulfide Iodometric

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70361854001, 70361854002, 70361854003, 70361854004, 70361854005

METHOD BLANK: 2147588

Matrix: Water

Associated Lab Samples: 70361854001, 70361854002, 70361854003, 70361854004, 70361854005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	06/23/25 14:34	

LABORATORY CONTROL SAMPLE & LCSD: 2147589

2147590

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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QUALIFIERS

Project: L2537655
Pace Project No.: 70361854

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2537655
Pace Project No.: 70361854

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70361854001	MW-11S	SM22 4500-S2 F	405782		
70361854002	MW-11D	SM22 4500-S2 F	405782		
70361854003	EQUIPMENT BLANK	SM22 4500-S2 F	405782		
70361854004	MW-1DRZ	SM22 4500-S2 F	405782		
70361854005	MW-1SR	SM22 4500-S2 F	405782		

REPORT OF LABORATORY ANALYSIS

WO#: 70361854



70361854

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Pace Job Number
L2537655

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 (Level 4) Report to MDL		State/Federal Program: Regulatory Criteria: Report to MDL		
Project Specific Requirements and/or Report Requirements Reference following Pace Job Number on final report/deliverables: L2537655 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
L2537655-01		MW-11S	06-16-25 12:05	WATER	Sulfide			2
L2537655-02		MW-11D	06-16-25 12:08	WATER	Sulfide			2
L2537655-03		EQUIPMENT BLANK	06-16-25 12:30	WATER	Sulfide			2
L2537655-04		MW-1DRZ	06-16-25 13:45	WATER	Sulfide			2
L2537655-05		MW-1SR	06-16-25 13:50	WATER	Sulfide			2
Relinquished By:			Date/Time:		Received By:		Date/Time:	
			6/17/25 1738				6/17 1738	
			6/17					
Form No: AL_subcoc								

WO#: 70361854

Client Name:

Project

PM: BDR

Due Date: 06/25/25

CLIENT: ALPHA

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: TH211 Correction Factor: 50.2 ☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 2.3 Cooler Temperature Corrected(°C): 2.5 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 originate 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:

	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	10.
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: ☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix: SL ☒ WT ☐ OIL ☐ OTHER	

Date and Initials of person checking preservation:

All containers needing preservation have been ☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot # <u>231224</u>	Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☒ Yes ☐ No ☐ N/A	
NAOH>12 Cyanide)	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).	
Per Method, VOA pH is checked after analysis	
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 # <u>14-862</u>	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.

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-11S

Lab Name: Pace Analytical - New York SDG No. : 70361854 Contract: L2537655
Lab Sample ID: 70361854001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/23/2025 14:43

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-11D

Lab Name: Pace Analytical - New York SDG No. : 70361854 Contract: L2537655
Lab Sample ID: 70361854002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/23/2025 14:46

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

EQUIPMENT BLANK

Lab Name: Pace Analytical - New York SDG No. : 70361854 Contract: L2537655
Lab Sample ID: 70361854003 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/23/2025 14:49

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1DRZ

Lab Name: Pace Analytical - New York SDG No. : 70361854 Contract: L2537655
Lab Sample ID: 70361854004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/23/2025 14:52

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1SR

Lab Name: Pace Analytical - New York SDG No. : 70361854 Contract: L2537655
Lab Sample ID: 70361854005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/23/2025 14:55

FORM III INORGANIC-1
BLANKS

Lab Name: Pace Analytical - New York SDG No. : 70361854 Contract : L2537655

Method Blank Matrix: Water Instrument ID: 70WETO

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C		
									2147588	C
Sulfide									<0.20	U

FORM VI INORGANIC-1
DUPLICATES

SAMPLE NO.

2147590LCSD

Lab Name: Pace Analytical - New York SDG No. : 70361854 Contract: L2537655

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Sulfide	20	14.0	14.0	0

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

SAMPLE NO.

2147589LCS

Lab Name: Pace Analytical - New York SDG No. : 70361854 Contract: L2537655

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

FORM VII INORGANIC-2
LABORATORY CONTROL SAMPLE

SAMPLE NO.

2147590LCSD

Lab Name: Pace Analytical - New York SDG No. : 70361854 Contract: L2537655

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. : 70361854 Contract: L2537655

Preparation Method: SM 4500-S2 F-2011 Batch: WET 92166

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2147588	2147588BLANK	06/23/2025	200	200
2147589	2147589LCS	06/23/2025	200	200
2147590	2147590LCSD	06/23/2025	200	200
70361854001	MW-11S	06/23/2025	250	250
70361854002	MW-11D	06/23/2025	250	250
70361854003	EQUIPMENT BLANK	06/23/2025	250	250
70361854004	MW-1DRZ	06/23/2025	250	250
70361854005	MW-1SR	06/23/2025	250	250

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - New York SDG No. : 70361854 Contract: L2537655

Instrument ID: 70WETO Analysis Method: SM 4500-S2 F-2011

Start Date: 06/23/2025 14:34 End Date: 06/23/2025 14:55

Sample Name	Lab Sample ID	D/F	Date	Time	sulf
2147588BLANK	2147588	1	06/23/2025	14:34	X
2147589LCS	2147589	1	06/23/2025	14:35	X
2147590LCSD	2147590	1	06/23/2025	14:37	X
MW-11S	70361854001	1	06/23/2025	14:43	X
MW-11D	70361854002	1	06/23/2025	14:46	X
EQUIPMENT BLANK	70361854003	1	06/23/2025	14:49	X
MW-1DRZ	70361854004	1	06/23/2025	14:52	X
MW-1SR	70361854005	1	06/23/2025	14:55	X



Prep Log Report

Batch Information: WET_SULFIDE_92166_6/23/25

4500S2F | Sulfide

Analysis Method	SM22.4500-S2 F
Starch Indicator Solution	204544

Instrument	70WE10
Reviewed By	SDO

Analyzed By	JWM
Reviewed By Date	06/24/2025 09:21

1:1 HCl	214628
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 (g)	Sulfide	Units	Run Date/Time	Filtered	Glass Fiber Filters ()	Sample Notes
4500S2F W	BLANK	2147588	Y	200	209580 (5)	5.9	10.9	211172 (5.00)	0.00	mg/L	06/23/2025 14:34:56	Yes	188807 ()	
4500S2F W	LCS	2147589	Y	200	209580 (10)	10.9	13.9	211172 (3.00)	14.00	mg/L	06/23/2025 14:35:58	Yes	188807 ()	
4500S2F W	LCSD	2147590	Y	200	209580 (10)	13.9	16.9	211172 (3.00)	14.00	mg/L	06/23/2025 14:37:00	Yes	188807 ()	
4500S2F W	PS	70361852002	Y	250	209580 (5)	16.9	21.9	211172 (5.00)	0.00	mg/L	06/23/2025 14:40:03	Yes	188807 ()	
4500S2F W	PS	70361854001	Y	250	209580 (5)	21.9	26.9	211172 (5.00)	0.00	mg/L	06/23/2025 14:43:05	Yes	188807 ()	
4500S2F W	PS	70361854002	Y	250	209580 (5)	26.9	31.9	211172 (5.00)	0.00	mg/L	06/23/2025 14:46:09	Yes	188807 ()	
4500S2F W	PS	70361854003	Y	250	209580 (5)	31.9	36.9	211172 (5.00)	0.00	mg/L	06/23/2025 14:49:11	Yes	188807 ()	
4500S2F W	PS	70361854004	Y	250	209580 (5)	36.9	41.9	211172 (5.00)	0.00	mg/L	06/23/2025 14:52:16	Yes	188807 ()	
4500S2F W	PS	70361854005	Y	250	209580 (5)	41.9	46.9	211172 (5.00)	0.00	mg/L	06/23/2025 14:55:19	Yes	188807 ()	

QC Rule	Sample Type	Lab Sample ID	S-SPK (mL)
4500S2F W	BLANK	2147588	
4500S2F W	LCS	2147589	211939 (1)
4500S2F W	LCSD	2147590	211939 (1)
4500S2F W	PS	70361852002	
4500S2F W	PS	70361854001	
4500S2F W	PS	70361854002	



QC Rule	Sample Type	Lab Sample ID	S-SPK (mL)
4500S2F W	PS	70361854003	
4500S2F W	PS	70361854004	
4500S2F W	PS	70361854005	

Standard Notes:

211939: Wet Sulfide LCS/ Second Source 5mL



Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50405097

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InOrganic

Ion Chromatography

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June 26, 2025

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2537655
Pace Project No.: 50405097

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 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@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2537655
Pace Project No.: 50405097

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

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SAMPLE SUMMARY

Project: L2537655

Pace Project No.: 50405097

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50405097001	MW-11S	Water	06/16/25 12:05	06/19/25 08:45
50405097002	MW-11D	Water	06/16/25 12:08	06/19/25 08:45
50405097003	EQUIPMENT BLANK	Water	06/16/25 12:30	06/19/25 08:45
50405097004	MW-1DRZ	Water	06/16/25 13:45	06/19/25 08:45
50405097005	MW-1SR	Water	06/16/25 13:50	06/19/25 08:45

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SAMPLE ANALYTE COUNT

Project: L2537655

Pace Project No.: 50405097

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50405097001	MW-11S	EPA 9056	GLT	1
50405097002	MW-11D	EPA 9056	GLT	1
50405097003	EQUIPMENT BLANK	EPA 9056	GLT	1
50405097004	MW-1DRZ	EPA 9056	GLT	1
50405097005	MW-1SR	EPA 9056	GLT	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 50405097

Sample: MW-11S		Lab ID: 50405097001		Collected: 06/16/25 12:05		Received: 06/19/25 08:45		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		06/21/25 13:27		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 50405097

Sample: MW-11D		Lab ID: 50405097002		Collected: 06/16/25 12:08		Received: 06/19/25 08:45		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		06/21/25 14:25		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 50405097

Sample: EQUIPMENT BLANK		Lab ID: 50405097003		Collected: 06/16/25 12:30		Received: 06/19/25 08:45		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		06/21/25 14:45		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 50405097

Sample: MW-1DRZ		Lab ID: 50405097004		Collected: 06/16/25 13:45		Received: 06/19/25 08:45		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		06/21/25 15:04		

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ANALYTICAL RESULTS

Project: L2537655

Pace Project No.: 50405097

Sample: MW-1SR		Lab ID: 50405097005		Collected: 06/16/25 13:50		Received: 06/19/25 08:45		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		06/21/25 15:23		

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QUALITY CONTROL DATA

Project: L2537655

Pace Project No.: 50405097

QC Batch: 850165

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 Iodide by IC

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50405097001, 50405097002, 50405097003, 50405097004, 50405097005

METHOD BLANK: 3894277

Matrix: Water

Associated Lab Samples: 50405097001, 50405097002, 50405097003, 50405097004, 50405097005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	06/21/25 10:34	

LABORATORY CONTROL SAMPLE: 3894278

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3894279 3894280

Parameter	Units	50405090001 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	4.5	4.5	90	90	80-120	0	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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QUALIFIERS

Project: L2537655

Pace Project No.: 50405097

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2537655

Pace Project No.: 50405097

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50405097001	MW-11S	EPA 9056	850165		
50405097002	MW-11D	EPA 9056	850165		
50405097003	EQUIPMENT BLANK	EPA 9056	850165		
50405097004	MW-1DRZ	EPA 9056	850165		
50405097005	MW-1SR	EPA 9056	850165		

REPORT OF LABORATORY ANALYSIS

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WO# : 50405097



50405097

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Pace Job Number

L2537655

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.couphost.com

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Turnaround & Deliverables Information

Due Date:
Deliverables: ASP Category B Deliverables (Level 4)

Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2537655 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
	L2537655-01 L2537655-02 L2537655-03 L2537655-04 L2537655-05	MW-11S MW-11D EQUIPMENT BLANK MW-1DRZ MW-1SR	06-16-25 12:05 06-16-25 12:08 06-16-25 12:30 06-16-25 13:45 06-16-25 13:50	WATER WATER WATER WATER WATER	Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056			1 1 1 1 1
Form No: AL_subcoc			Relinquished By:	Date/Time:	Received By:	Date/Time:		
			<i>C. Selean</i>		<i>Fedex</i>			
			<i>Fedex</i>	<i>6/19/25 845</i>	<i>in in Pace</i>	<i>6/19/25 845</i>		



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 6/19/25 1905 cc

1. Thermometer: 1 2 3 4 5 6 7 8 9 A B C D E F G H I		3. Packing Material: Bubble Wrap <u>None</u> Bubble Bags Other _____	
2. Cooler Temperature(s): <u>4.0/4.0</u> (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)		4. Ice Type: <u>Wet</u> Blue None	
3. Was the PM notified of out of temp cooler?: (leave blank if samples are in temp) Yes No		5. Courier: <u>Fed Ex</u> UPS Client Pace Now/Jett Other	
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		6. Custody Seal on Cooler/Box Present: <u>Yes</u> No (If yes)Seals Intact: <u>Yes</u> No (leave blank if no seals were present)	

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X	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			X
Short Hold Time Analysis (48 hours or less)? Analysis:		X				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		X	Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Custody Signatures Present?	X		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Containers Intact?:	X		Trip Blank Present?		X	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X		Trip Blank Custody Seals?:			X
Comments:			Extra labels on Terracore Vials? (soils only)			X

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WG <u>F</u> U	WG <u>K</u> U	BG <u>1</u> U	MeOH (only)	DG <u>9</u> H	VG <u>9</u> H	VOA VIAL HS (>6mm)	VG <u>9</u> U	DG <u>9</u> U	VG <u>9</u> T	AMBER GLASS						PLASTIC						OTHER				Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide ZnAc					
				SBS							AG <u>0</u> U	AG <u>1</u> H	AG <u>1</u> U	AG <u>3</u> U	AG <u>3</u> S	AG <u>3</u> SF	AG <u>3</u> B	BP <u>1</u> U	BP <u>1</u> N	BP <u>2</u> U	BP <u>3</u> U	BP <u>3</u> N	BP <u>3</u> F	BP <u>3</u> S	BP <u>3</u> B	BP <u>3</u> Z		CG <u>3</u> H	CG <u>3</u> F	Syringe Kit	Red	Yellow	Green	Black		
				DI																											R	HNO3 Δ2	H2SO4 Δ2	NaOH >10	NaOH/Zr Ac >9	
1																																ST				
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
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

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

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-11S

Lab Name: Pace Analytical - Indiana SDG No. : 50405097 Contract: L2537655
Lab Sample ID: 50405097001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/21/2025 13:27

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-11D

Lab Name: Pace Analytical - Indiana SDG No. : 50405097 Contract: L2537655
Lab Sample ID: 50405097002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/21/2025 14:25

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

EQUIPMENT BLANK

Lab Name: Pace Analytical - Indiana SDG No. : 50405097 Contract: L2537655
Lab Sample ID: 50405097003 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/21/2025 14:45

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1DRZ

Lab Name: Pace Analytical - Indiana SDG No. : 50405097 Contract: L2537655
Lab Sample ID: 50405097004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/21/2025 15:04

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1SR

Lab Name: Pace Analytical - Indiana SDG No. : 50405097 Contract: L2537655
Lab Sample ID: 50405097005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/21/2025 15:23

FORM II INORGANIC-1
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50405097 Contract: L2537655

Initial Calibration Verification Source: 412748

Continuing Calibration Verification Source: 412749

Concentration Units: mg/L Instrument ID: 50IC04

	Initial Calibration Verification				Continuing Calibration Verification						
	04/11/2025 09:03				06/21/2025 09:55			06/21/2025 13:47			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Iodide	5.0	5.1	102.5	90-110	1.0	0.96	96.3	1.0	0.96	95.8	90-110

FORM II INORGANIC-2
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50405097 Contract: L2537655

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: 412749

Concentration Units: mg/L Instrument ID: 50IC04

	Continuing Calibration Verification			
	06/21/2025 16:21			Control Limit
Analyte	True	Found	%R	
Iodide	1.0	0.94	94.2	90-110

FORM III INORGANIC-1
BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50405097 Contract : L2537655

Method Blank Matrix: Water Instrument ID: 50IC04

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank (mg/L)		Continuing Calibration Blank (mg/L)						Method Blank	
	04/11/2025 09:22	C	06/21/2025 10:15	C	06/21/2025 14:06	C	06/21/2025 16:40	C	3894277	C
Iodide	0.034	U	0.034	U	0.034	U	0.034	U	ND	U

FORM V INORGANIC-1
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

3894279MS

Lab Name: Pace Analytical - Indiana SDG No. : 50405097 Contract: L2537655

Matrix: Water Basis: Wet Parent Sample ID: 50405090001

Percent Moisture: _____

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	4.5	ND	5.0	90

FORM V INORGANIC-2
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

3894280MSD

Lab Name: Pace Analytical - Indiana SDG No. : 50405097 Contract: L2537655

Matrix: Water Basis: Wet Parent Sample ID: 50405090001

Percent Moisture: _____

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	4.5	ND	5.0	90

SAMPLE NO.

FORM VI INORGANIC-1
DUPLICATES

3894280MSD

Lab Name: Pace Analytical - Indiana SDG No. : 50405097 Contract: L2537655Matrix: Water Concentration Units: mg/LPercent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Iodide	15	4.5	4.5	0

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

SAMPLE NO.

3894278LCS

Lab Name: Pace Analytical - Indiana SDG No. : 50405097 Contract: L2537655

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Iodide	mg/L	5.0	4.7	94	80	120

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50405097 Contract: L2537655

Preparation Method: EPA 9056 Batch: GCSV 60963

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
3894277	3894277BLANK	06/21/2025	10	10
3894278	3894278LCS	06/21/2025	10	10
3894279	3894279MS	06/21/2025	10	10
3894280	3894280MSD	06/21/2025	10	10
50405097001	MW-11S	06/21/2025	10	10
50405097002	MW-11D	06/21/2025	10	10
50405097003	EQUIPMENT BLANK	06/21/2025	10	10
50405097004	MW-1DRZ	06/21/2025	10	10
50405097005	MW-1SR	06/21/2025	10	10

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50405097 Contract: L2537655

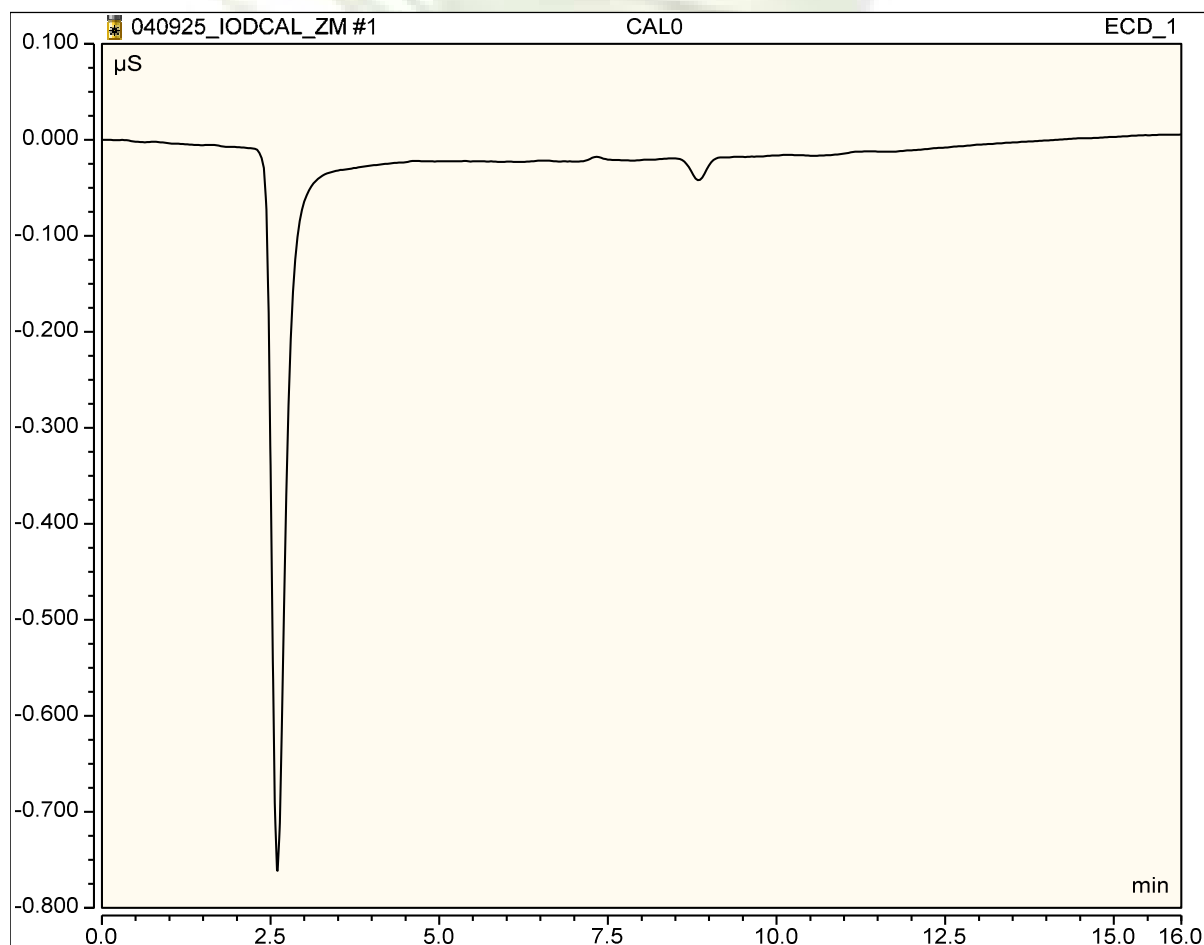
Instrument ID: 50IC04 Analysis Method: EPA 9056

Start Date: 04/09/2025 15:04 End Date: 06/21/2025 16:40

Sample Name	Lab Sample ID	D/F	Date	Time	iodi
26697031CAL0	26697031CAL0	1	04/09/2025	15:04	X
26697032CAL1	26697032CAL1	1	04/09/2025	15:24	X
26697033CAL2	26697033CAL2	1	04/09/2025	15:43	X
26697034CAL3	26697034CAL3	1	04/09/2025	16:02	X
26697035CAL4	26697035CAL4	1	04/09/2025	16:21	X
26697036CAL5	26697036CAL5	1	04/09/2025	16:41	X
26697039ICV	26697039ICV	1	04/11/2025	09:03	X
26697040ICB	26697040ICB	1	04/11/2025	09:22	X
50405090001	50405090001	1	06/21/2025	09:17	X
27141173CCV	27141173CCV	1	06/21/2025	09:55	X
27141174CCB	27141174CCB	1	06/21/2025	10:15	X
3894277BLANK	3894277	1	06/21/2025	10:34	X
3894278LCS	3894278	1	06/21/2025	10:53	X
3894279MS	3894279	1	06/21/2025	11:12	X
3894280MSD	3894280	1	06/21/2025	11:32	X
MW-11S	50405097001	1	06/21/2025	13:27	X
27141175CCV	27141175CCV	1	06/21/2025	13:47	X
27141176CCB	27141176CCB	1	06/21/2025	14:06	X
MW-11D	50405097002	1	06/21/2025	14:25	X
EQUIPMENT BLANK	50405097003	1	06/21/2025	14:45	X
MW-1DRZ	50405097004	1	06/21/2025	15:04	X
MW-1SR	50405097005	1	06/21/2025	15:23	X
27141177CCV	27141177CCV	1	06/21/2025	16:21	X
27141178CCB	27141178CCB	1	06/21/2025	16:40	X

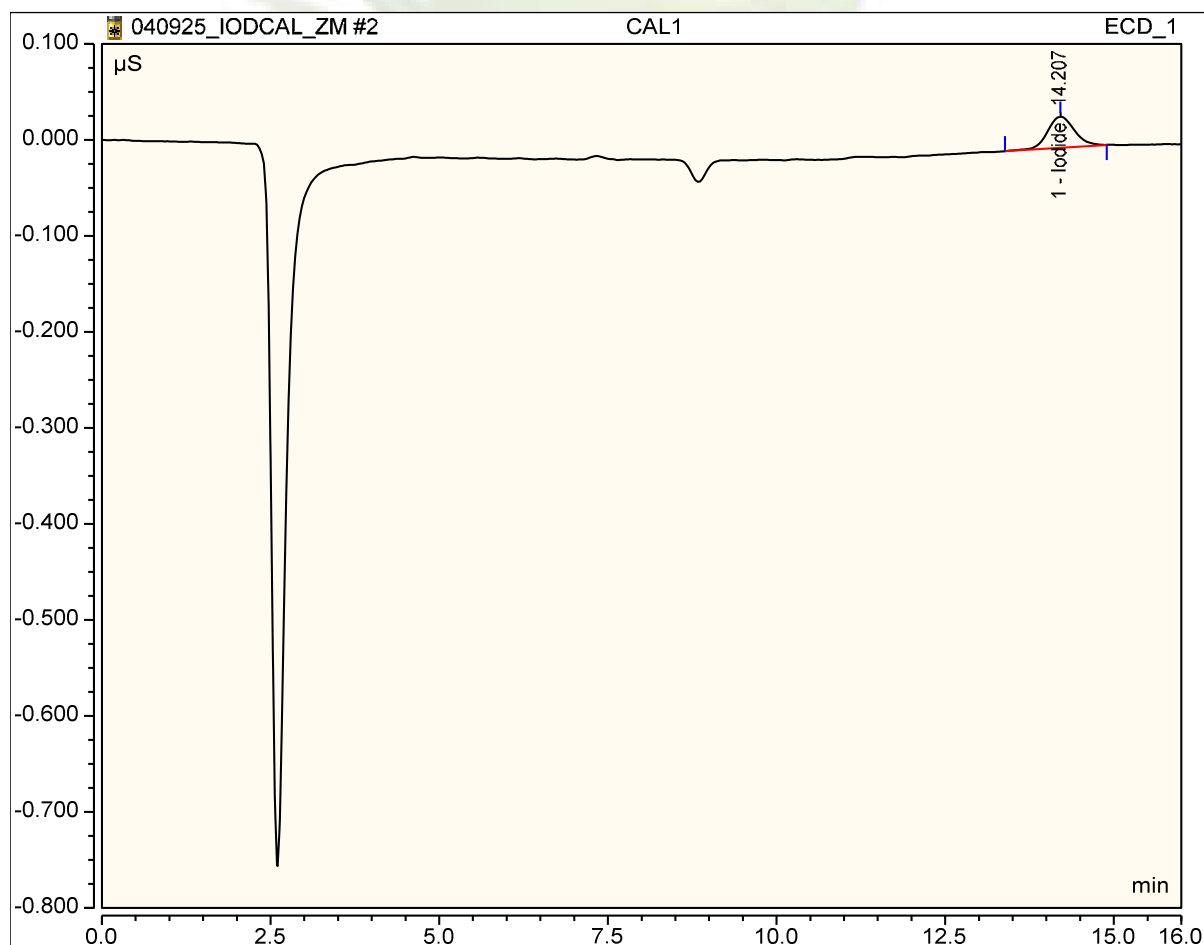
CAL0			
412755			
Sample Name:	CAL0	Injection Volume (uL):	25.00
Vial Number:	RA1	Channel:	ECD_1
Sample Type:	Calibration Standard	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 15:04	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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CAL1			
412754			
Sample Name:	CAL1	Injection Volume (uL):	25.00
Vial Number:	RA2	Channel:	ECD_1
Sample Type:	Calibration Standard	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 15:24	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

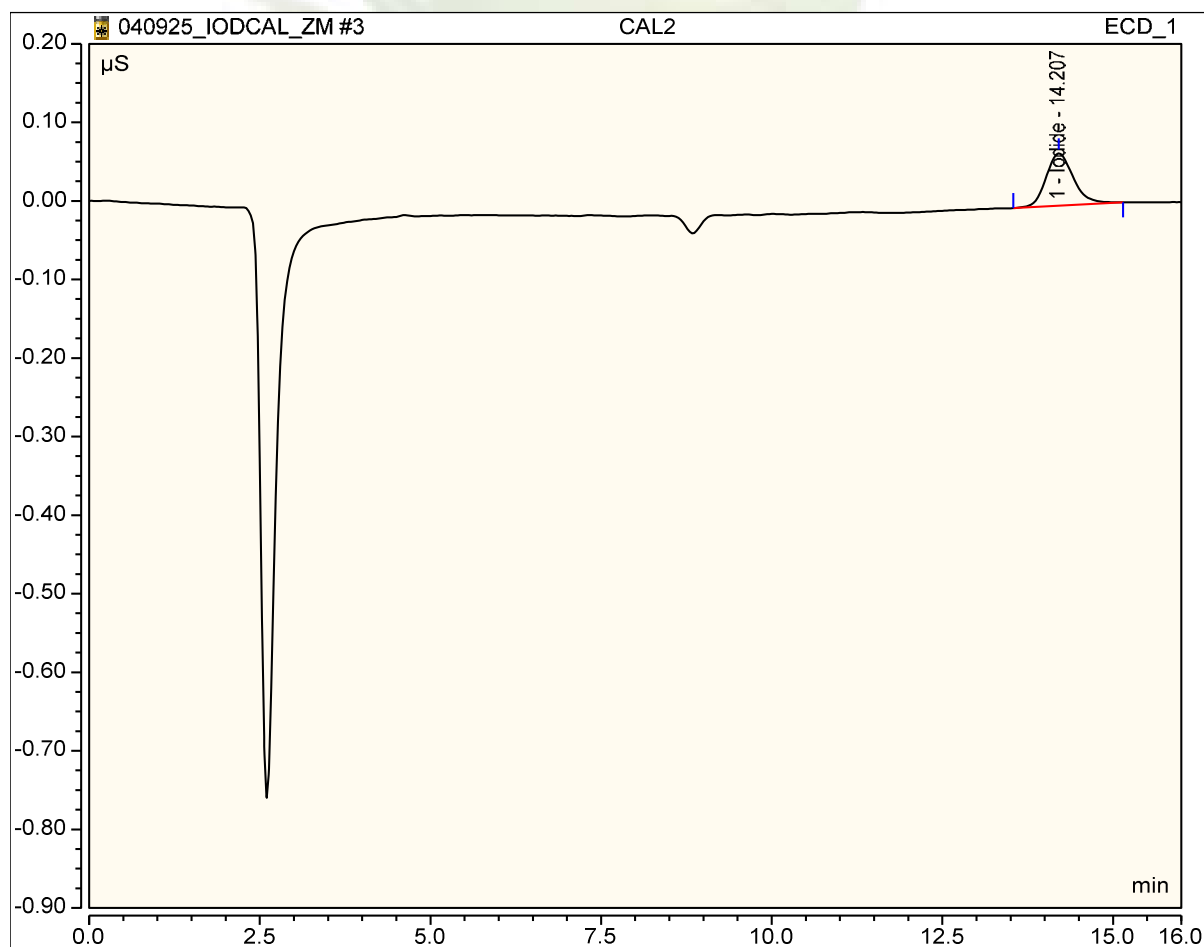
No.	Retention Time min	Name	Amount mg/L	Area μS*min	Height μS	Type
1	14.21	Iodide	0.5012	0.015	0.032	BMB



CAL2 412753

Sample Name:	CAL2	Injection Volume (uL):	25.00
Vial Number:	RA3	Channel:	ECD_1
Sample Type:	Calibration Standard	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 15:43	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

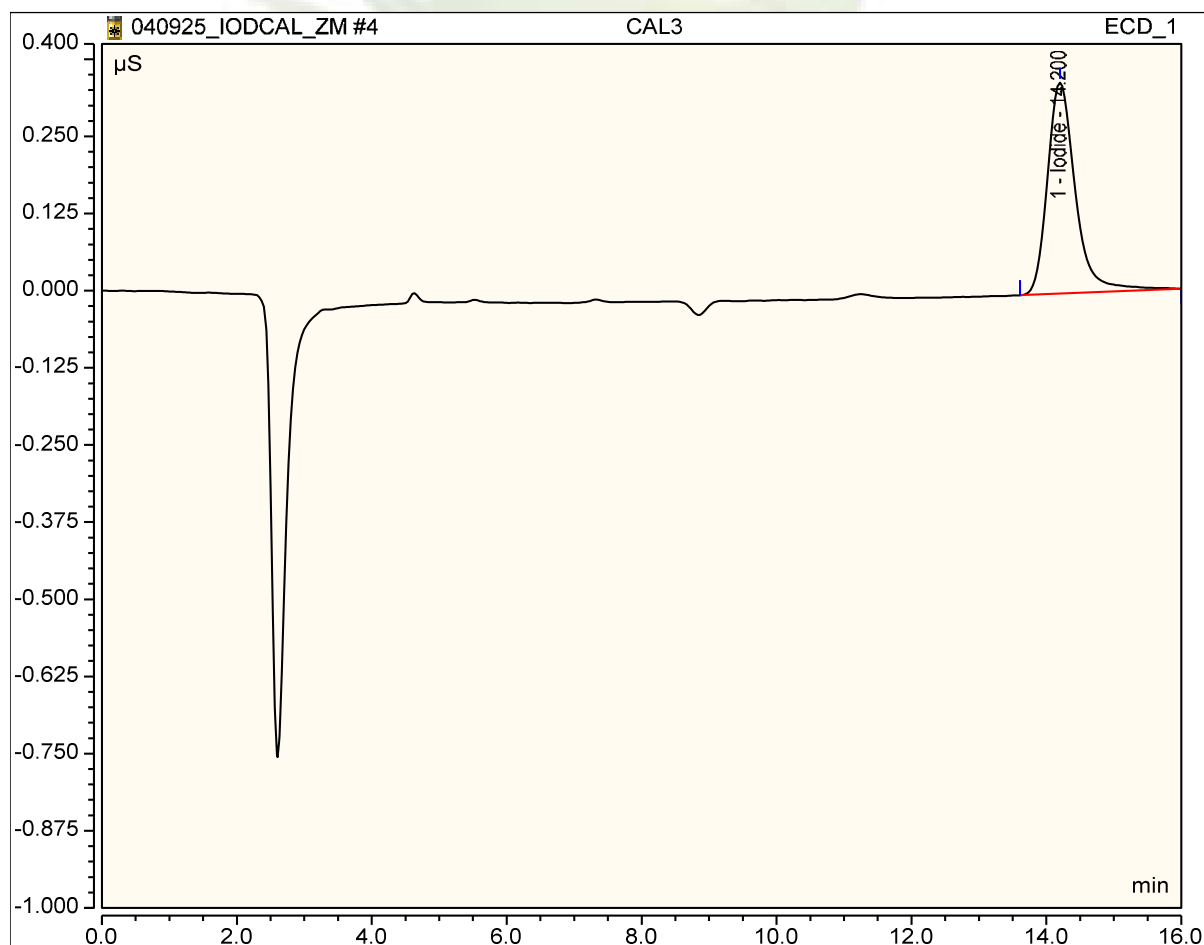
No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.21	Iodide	0.9935	0.031	0.067	BMB



CAL3 412752

Sample Name:	CAL3	Injection Volume (uL):	25.00
Vial Number:	RA4	Channel:	ECD_1
Sample Type:	Calibration Standard	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 16:02	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

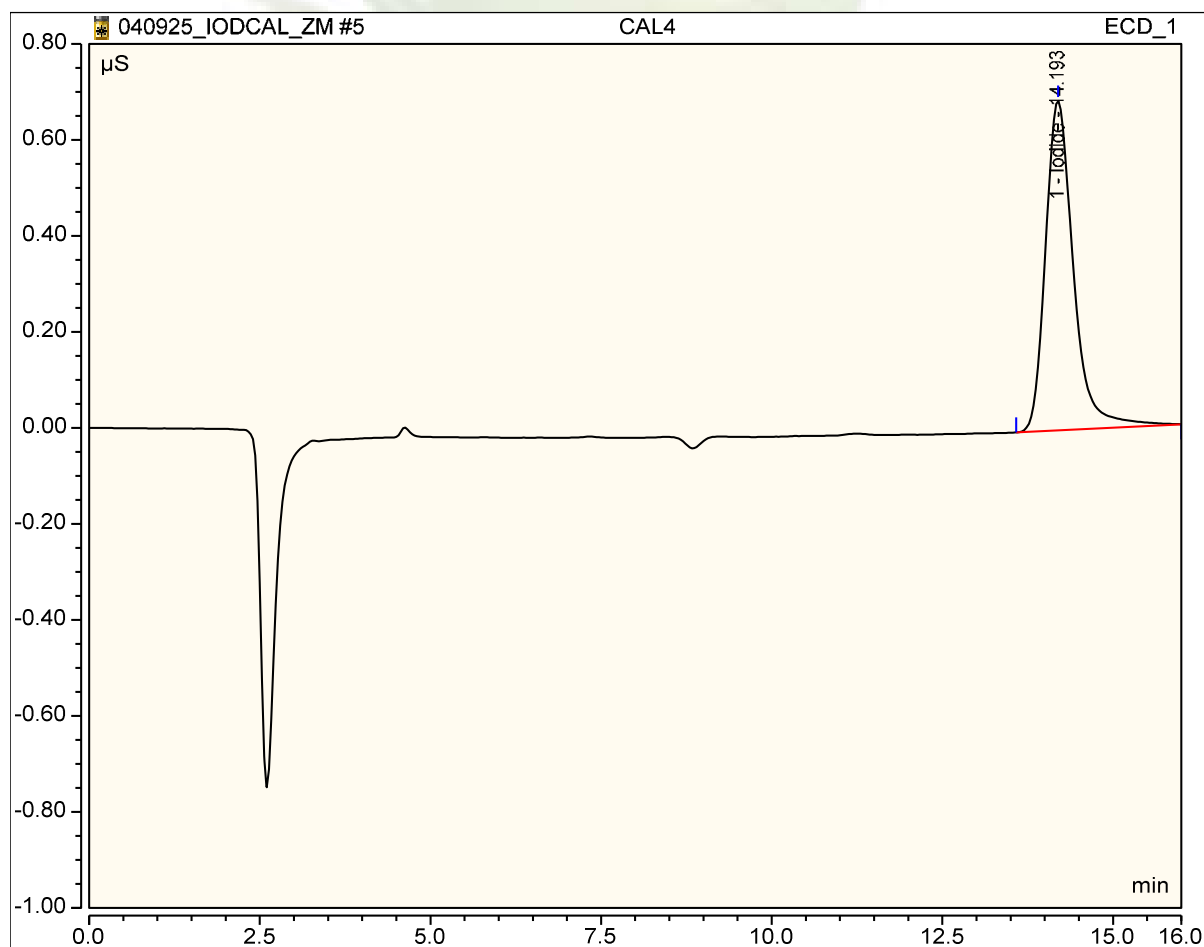
No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.20	Iodide	5.0400	0.163	0.342	BMB



CAL4 412751

Sample Name:	CAL4	Injection Volume (uL):	25.00
Vial Number:	RA5	Channel:	ECD_1
Sample Type:	Calibration Standard	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 16:21	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

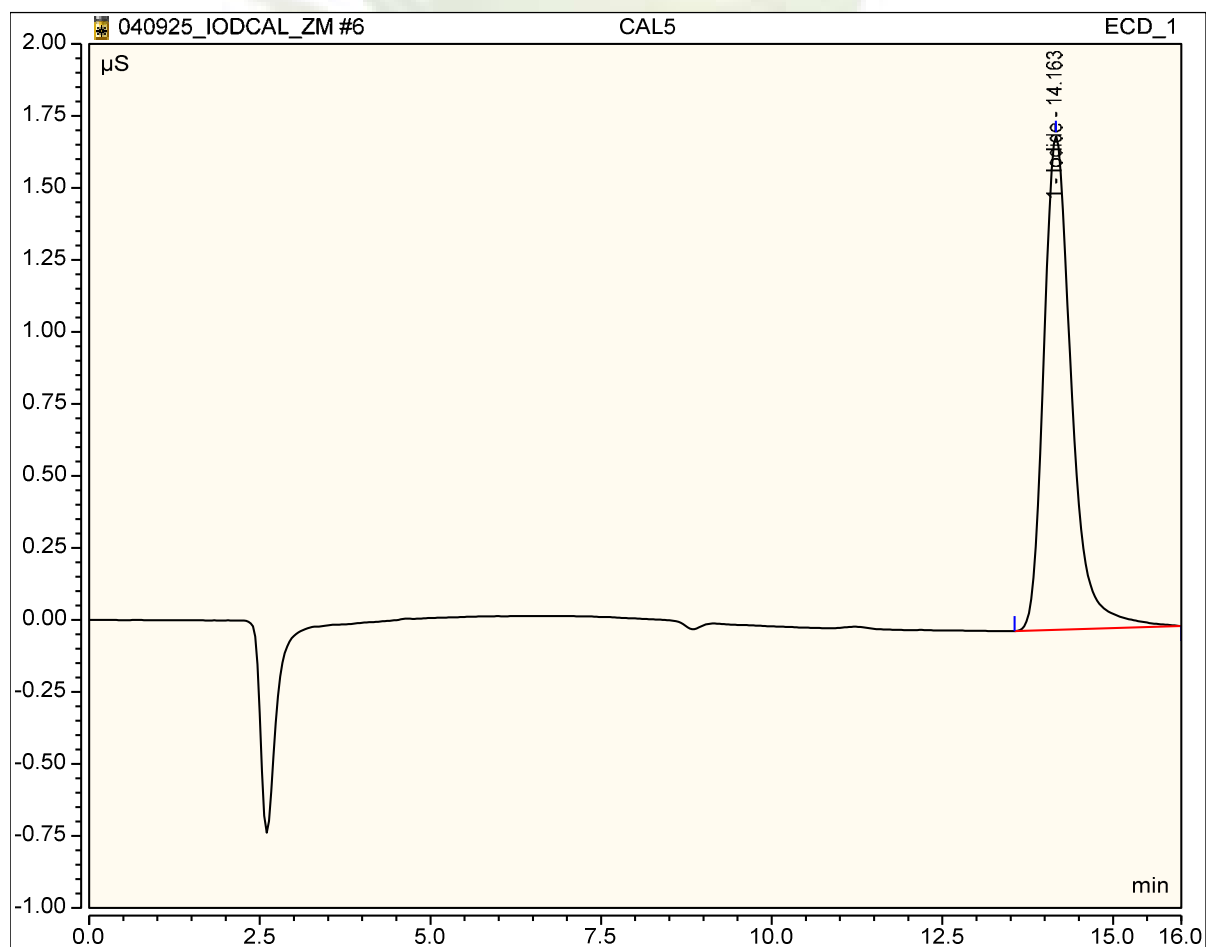
No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.19	Iodide	10.0144	0.326	0.687	BMB



CAL5 412750

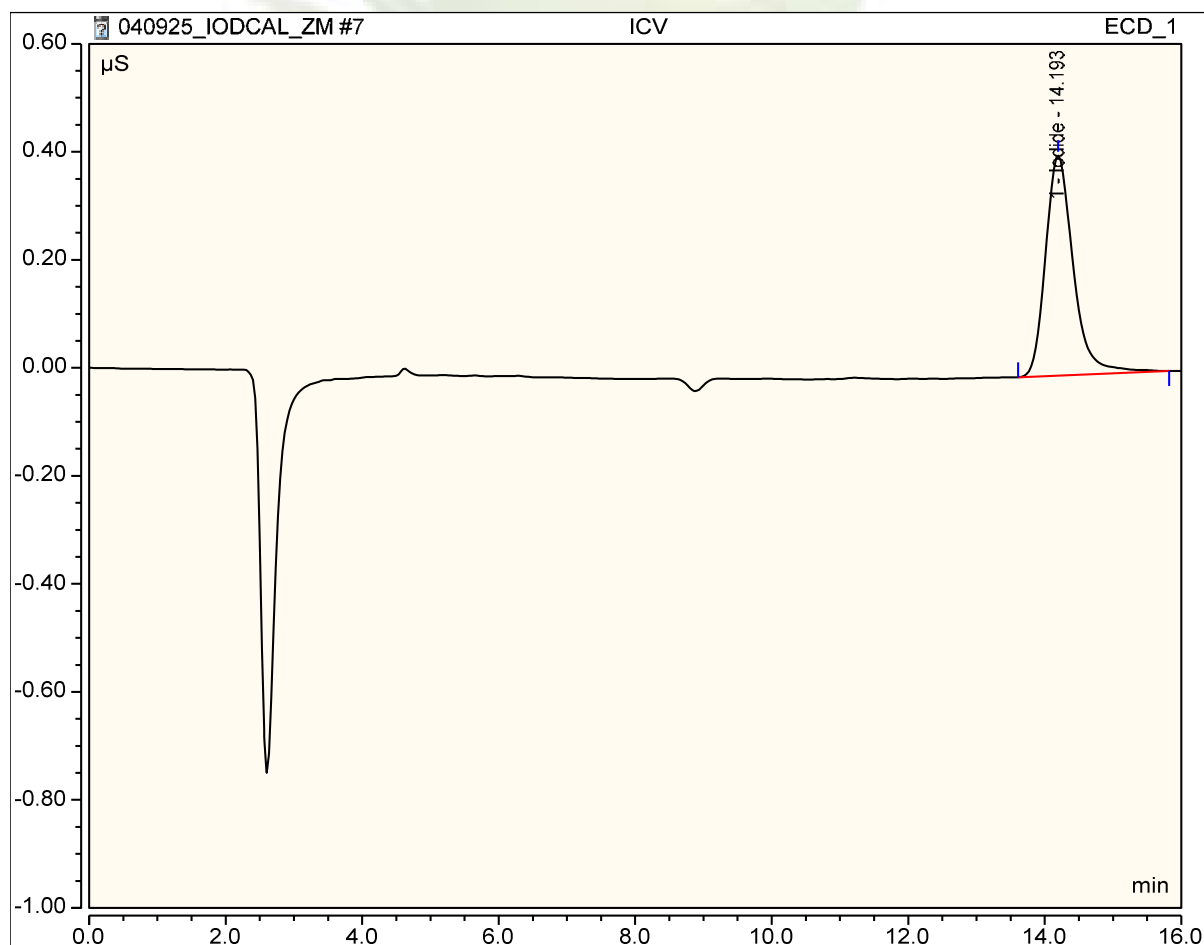
Sample Name:	CAL5	Injection Volume (uL):	25.00
Vial Number:	RA6	Channel:	ECD_1
Sample Type:	Calibration Standard	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 16:41	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.16	Iodide	24.8642	0.811	1.715	BMB



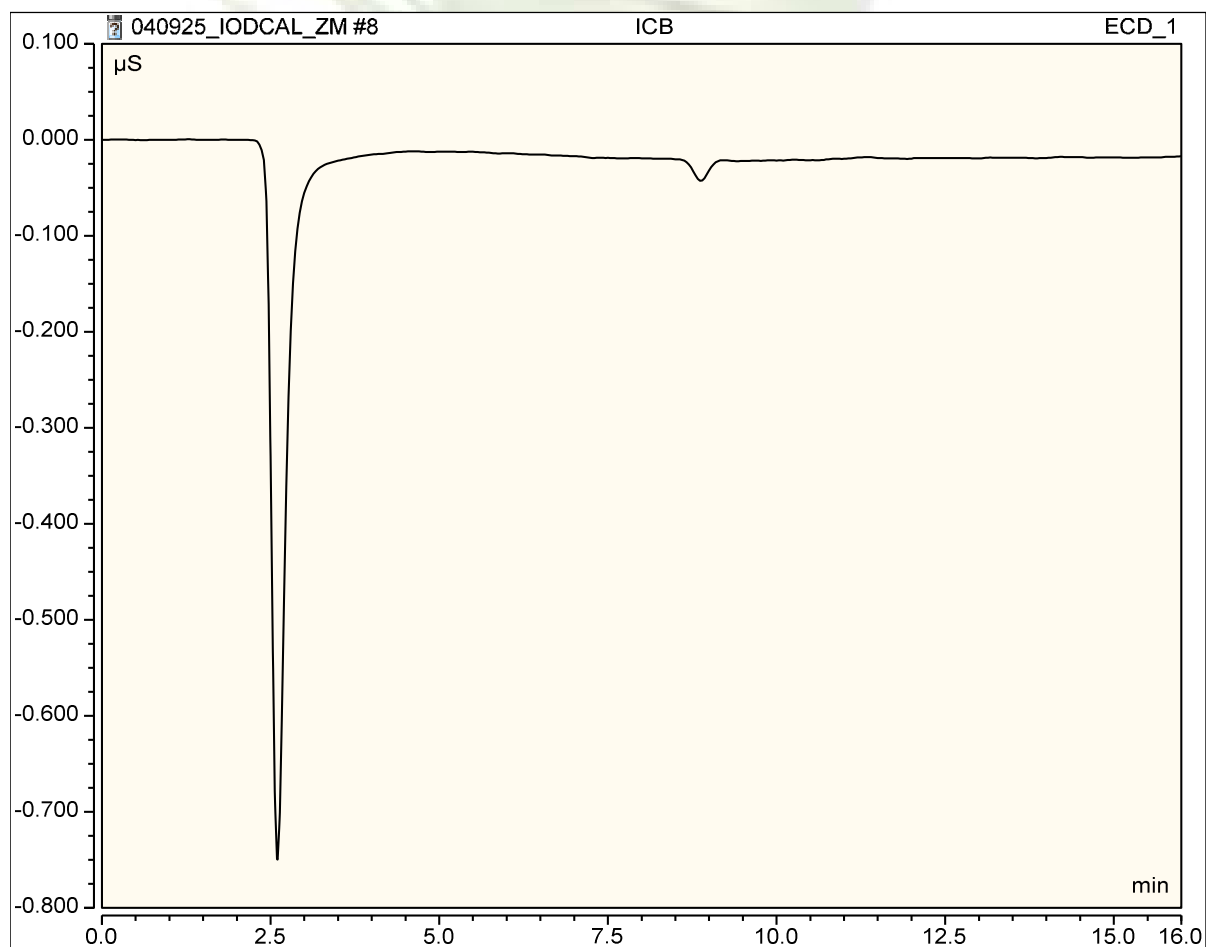
ICV			
412748			
Sample Name:	ICV	Injection Volume (uL):	25.00
Vial Number:	B3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 17:00	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.19	Iodide	5.9063	0.192	0.408	BMB



ICB			
340111			
Sample Name:	ICB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 17:19	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

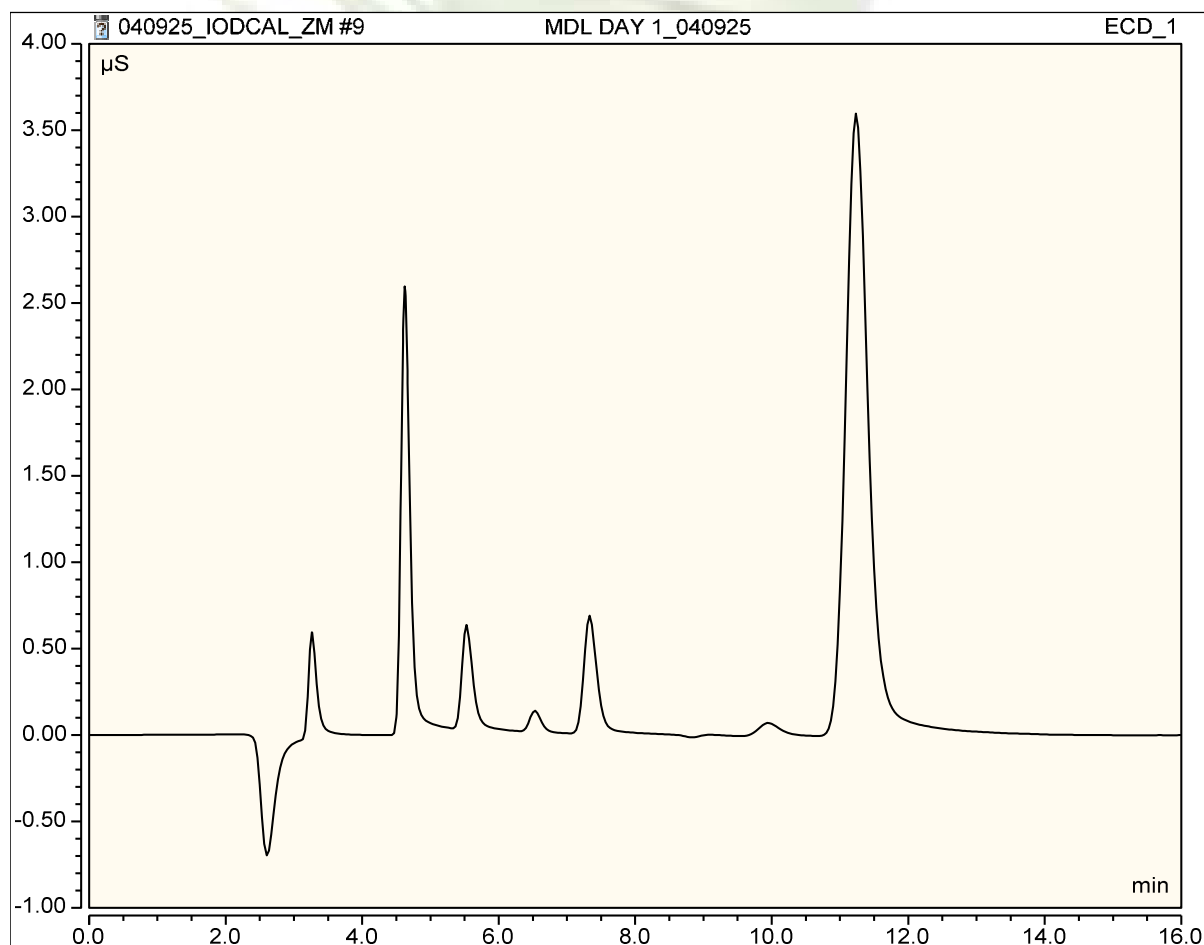
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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MDL DAY 1_040925

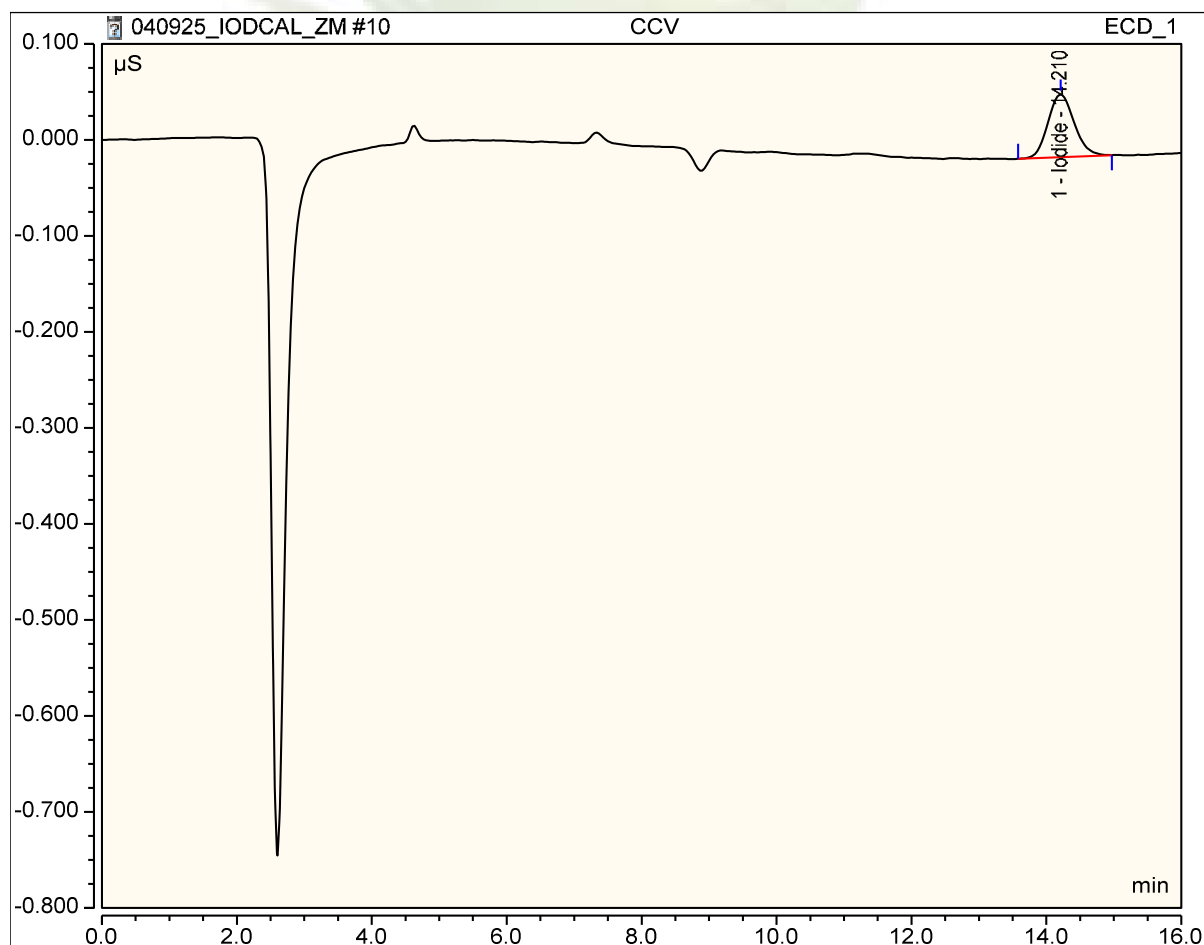
Sample Name:	MDL DAY 1_040925	Injection Volume (uL):	25.00
Vial Number:	BA7	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 17:39	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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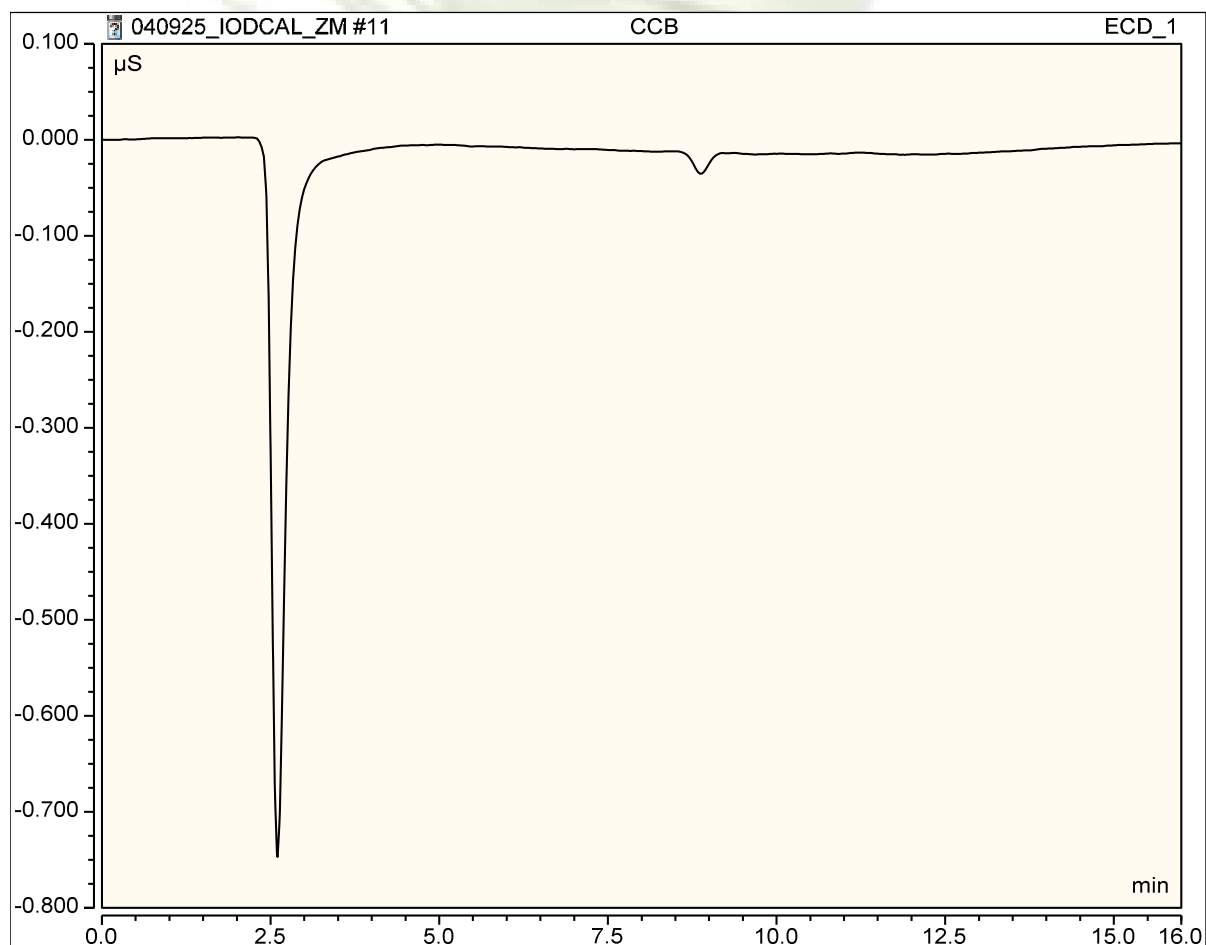
CCV			
412749			
Sample Name:	CCV	Injection Volume (uL):	25.00
Vial Number:	B2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 17:58	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.21	Iodide	0.9407	0.029	0.065	BMB



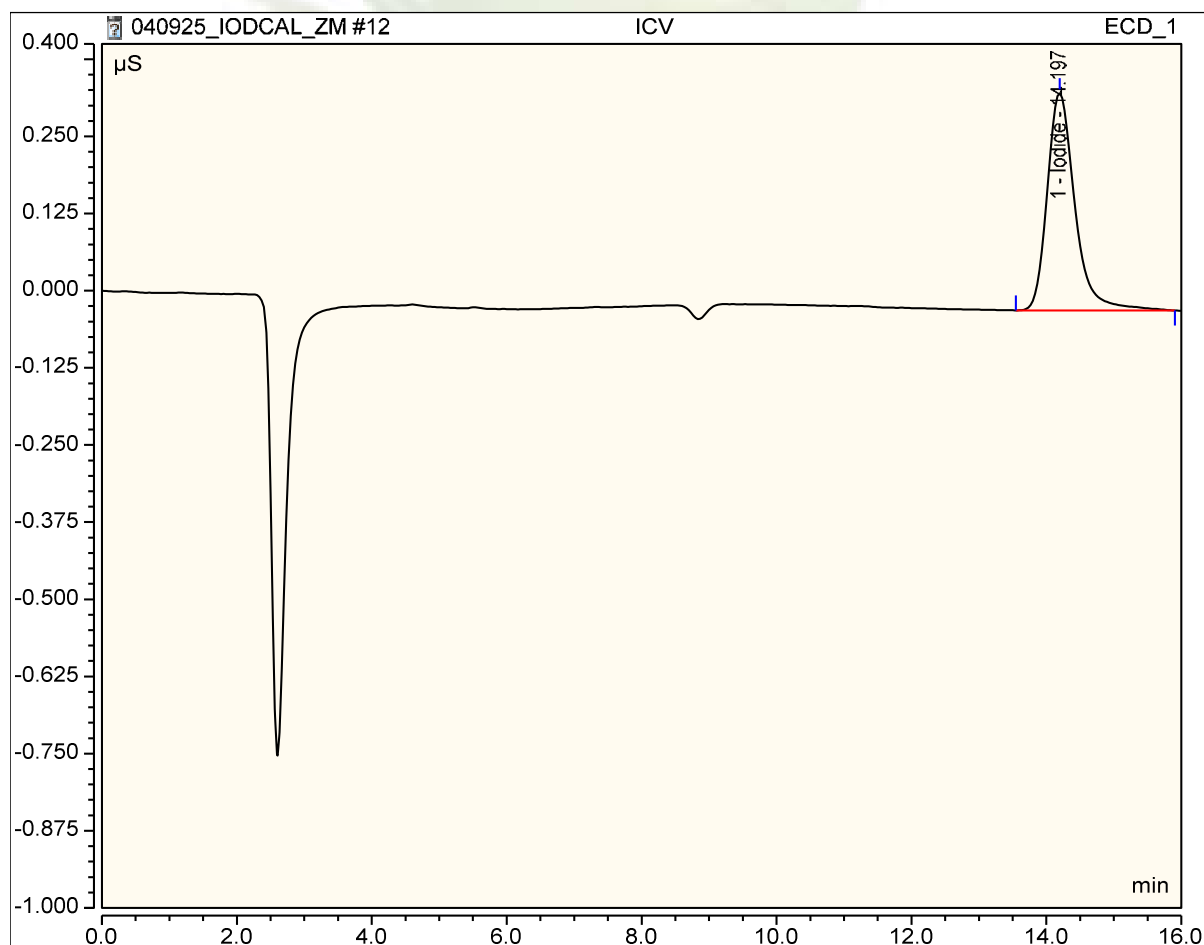
CCB			
340111			
Sample Name:	CCB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 18:17	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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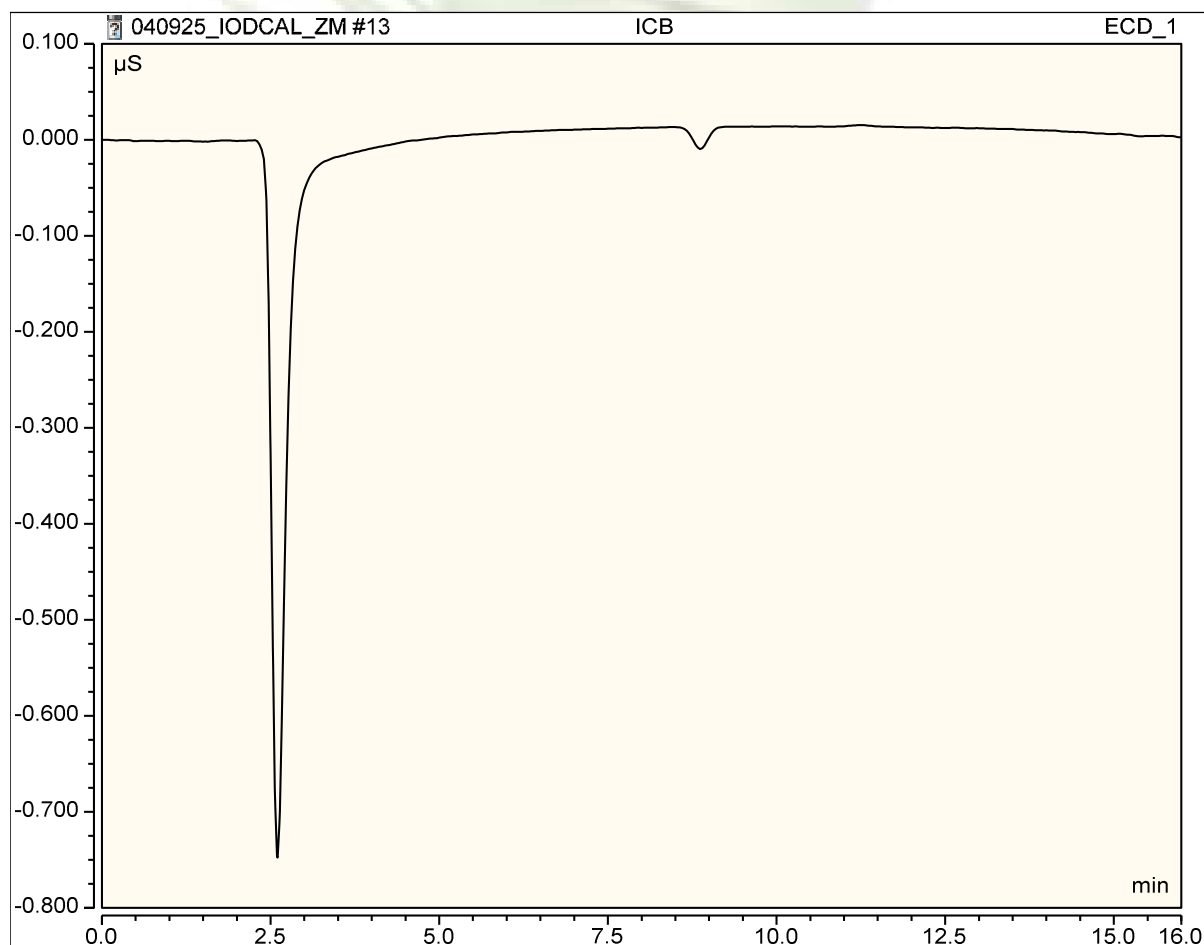
ICV			
412748			
Sample Name:	ICV	Injection Volume (uL):	25.00
Vial Number:	B3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/11/2025 09:03	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.20	Iodide	5.1241	0.166	0.352	BMB



ICB			
340111			
Sample Name:	ICB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/11/2025 09:22	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

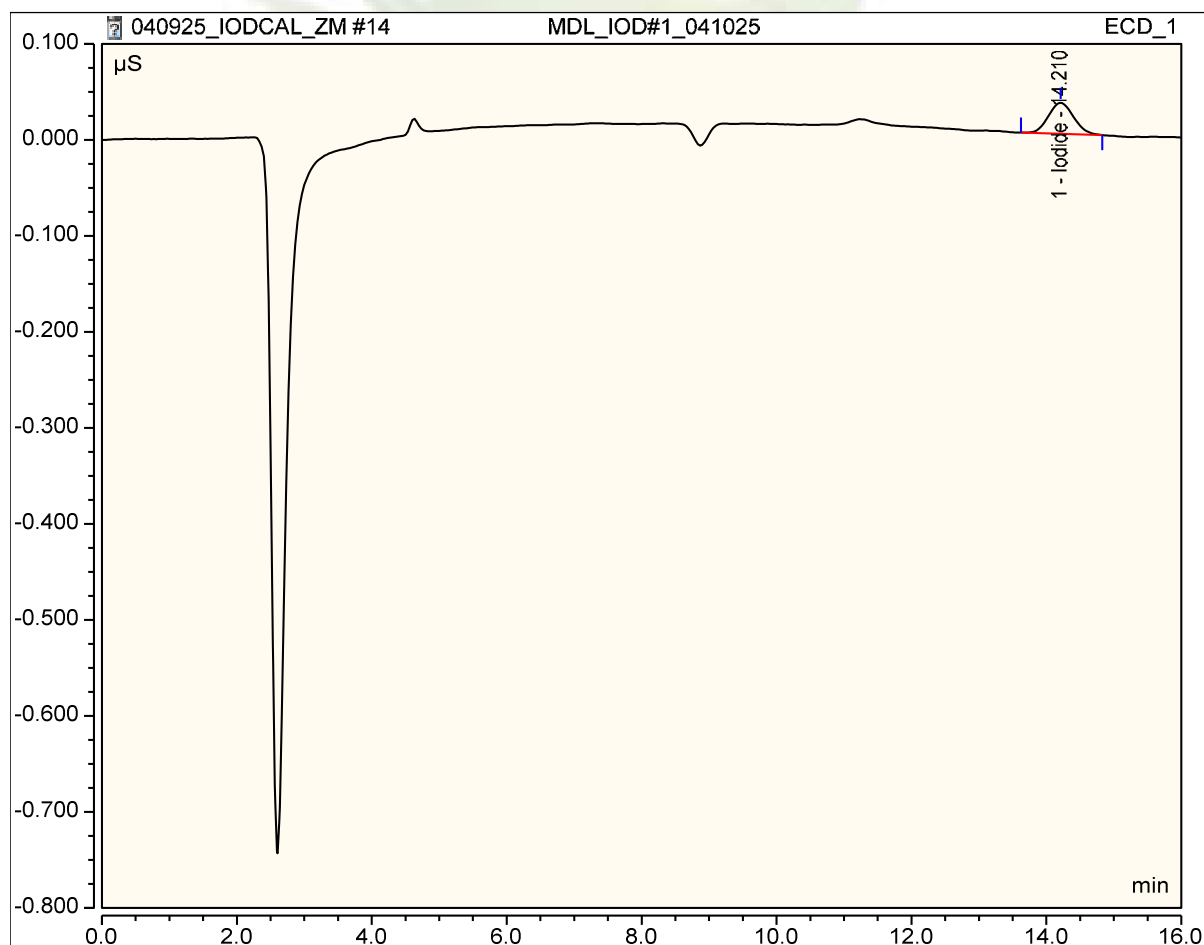
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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MDL_IOD#1_041025

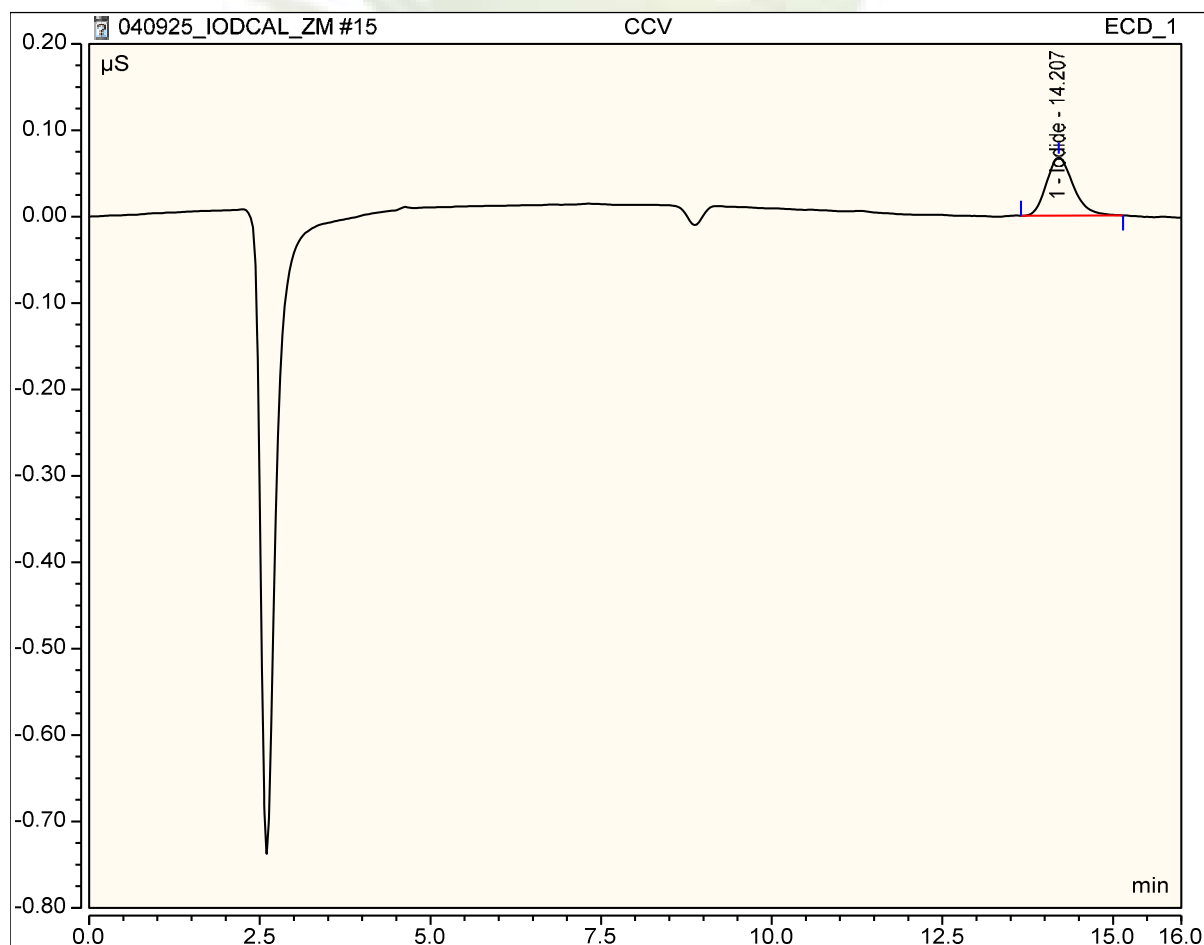
Sample Name:	MDL_IOD#1_041025	Injection Volume (uL):	25.00
Vial Number:	BA1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/11/2025 09:41	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.21	Iodide	0.4739	0.014	0.032	BMB



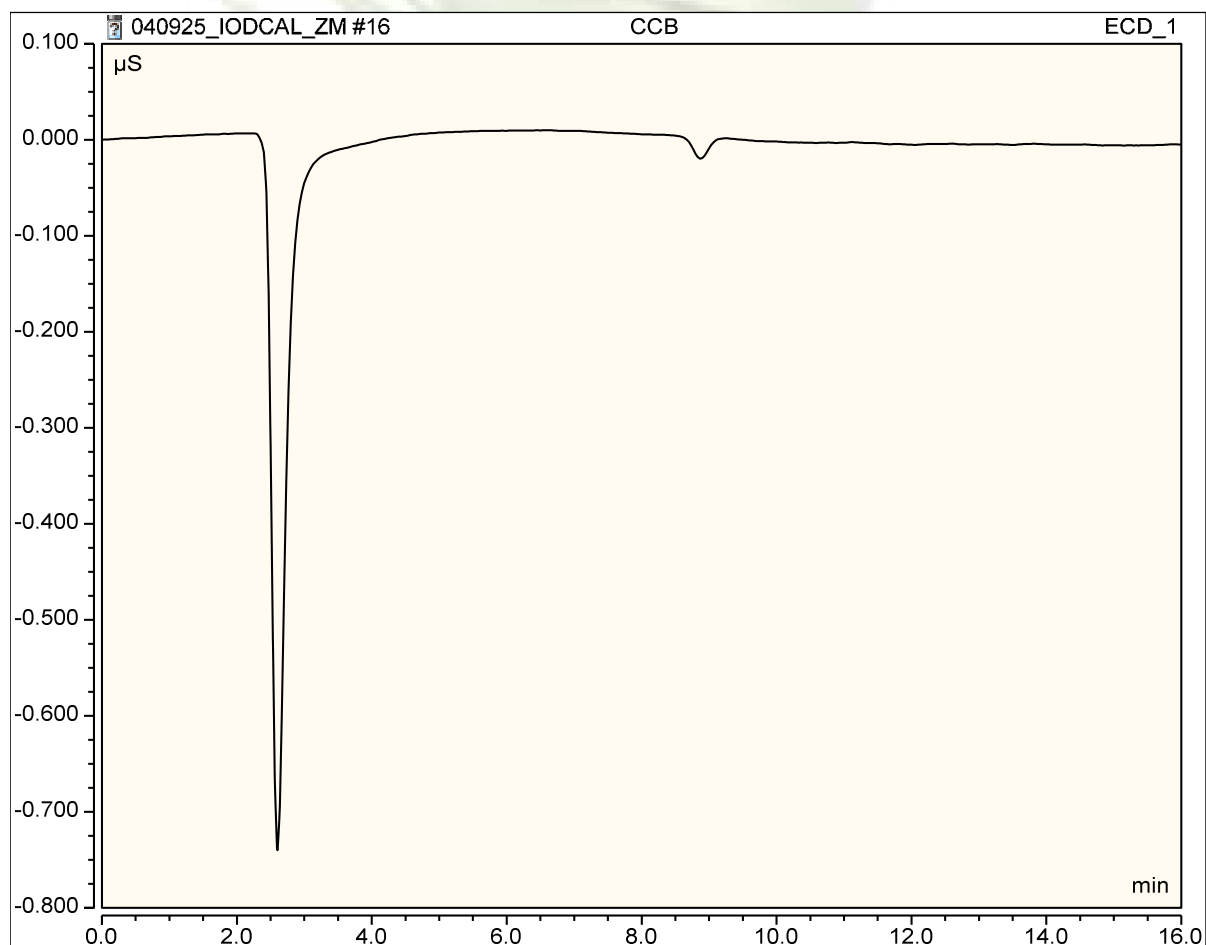
CCV			
412749			
Sample Name:	CCV	Injection Volume (uL):	25.00
Vial Number:	B2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/11/2025 10:01	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.21	Iodide	0.9826	0.031	0.067	BMB



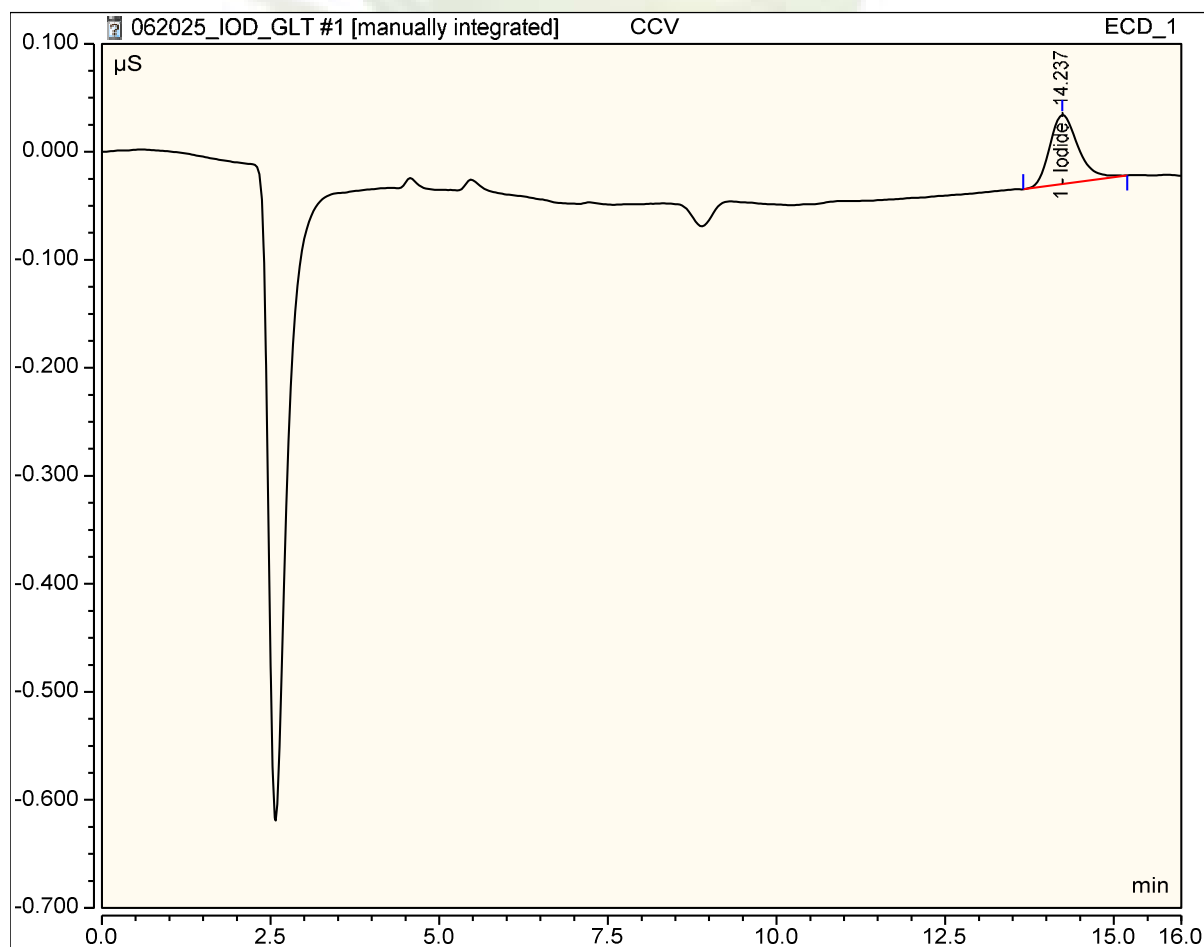
CCB			
340111			
Sample Name:	CCB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/11/2025 10:20	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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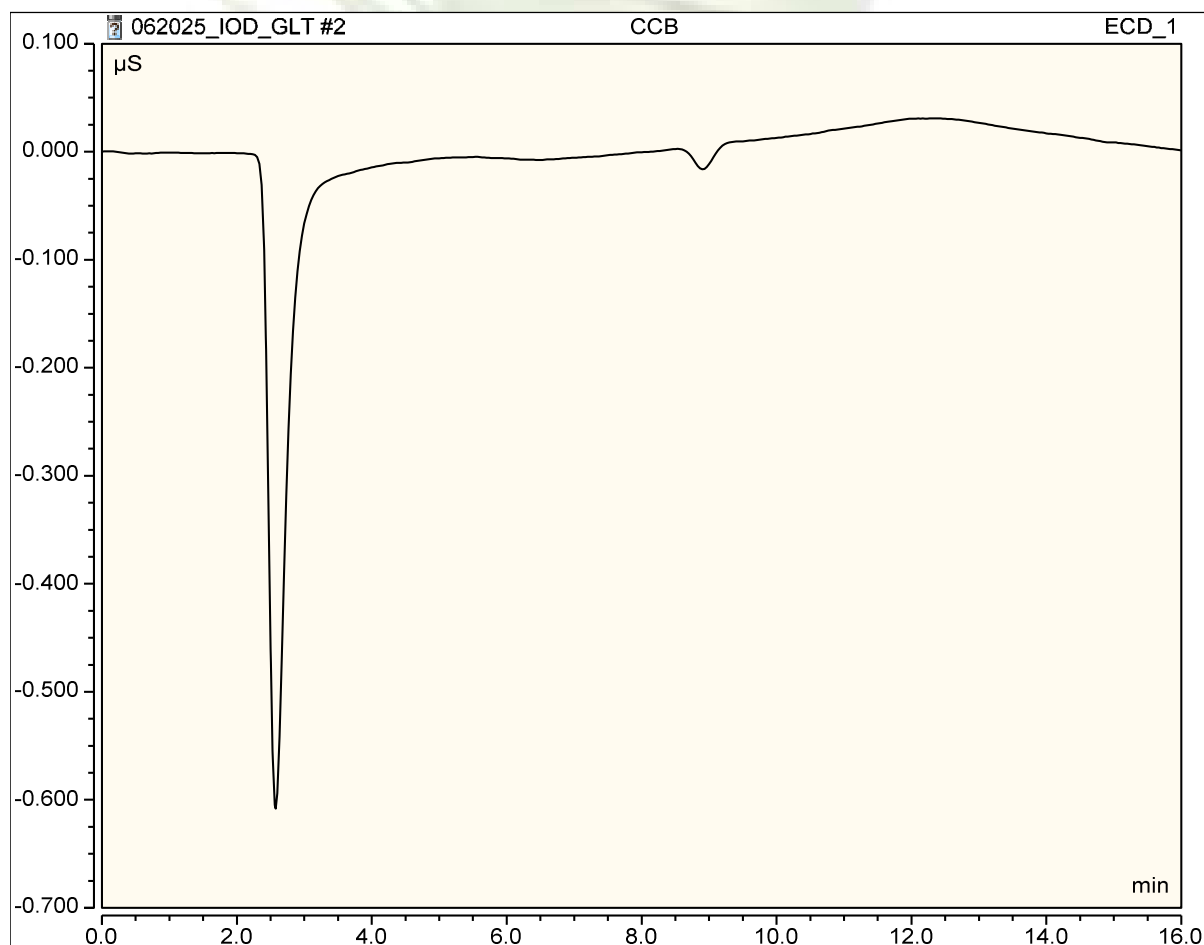
CCV			
412749			
Sample Name:	CCV	Injection Volume (uL):	25.00
Vial Number:	B2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 18:30	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.24	Iodide	0.9960	0.031	0.064	BMB*



CCB			
340111			
Sample Name:	CCB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 18:50	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

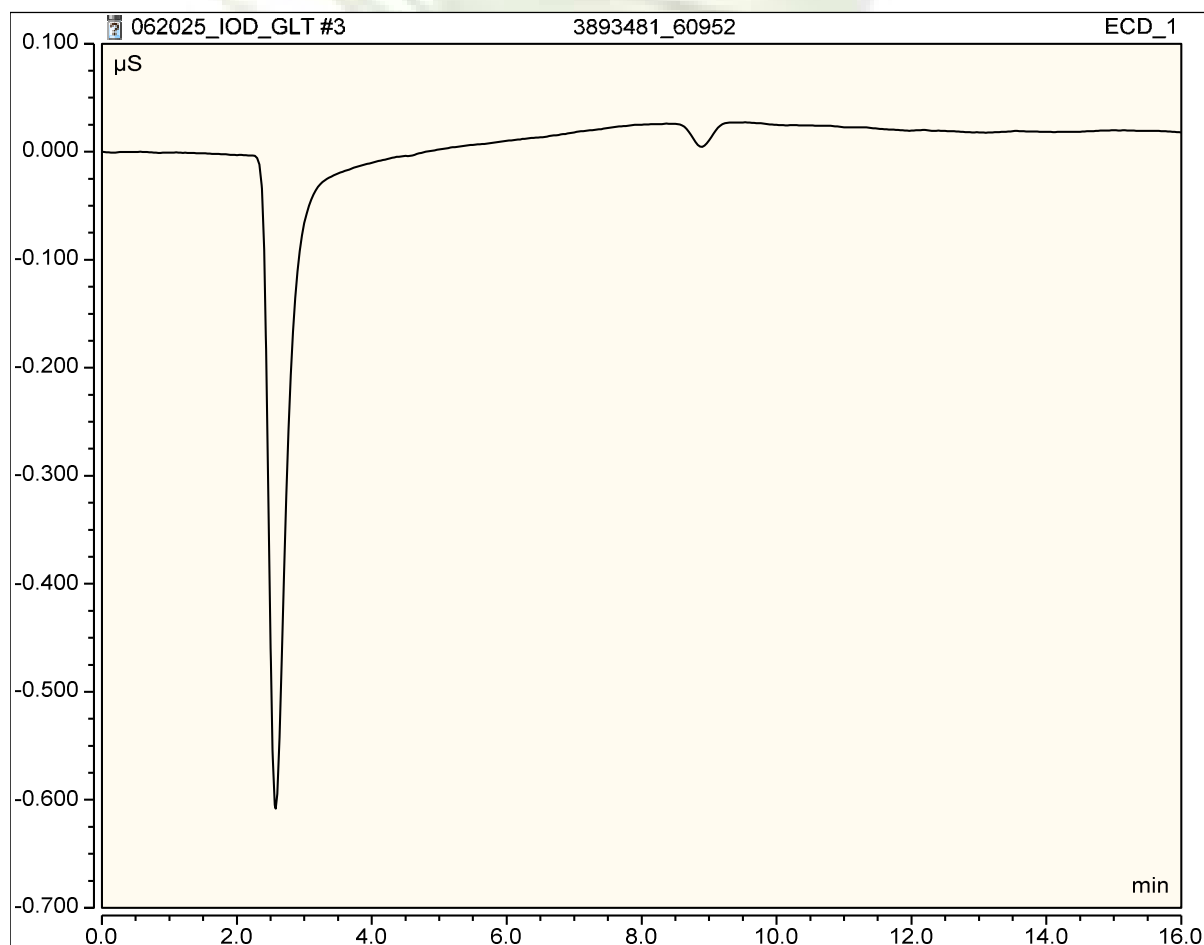
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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3893481_60952 **340111**

Sample Name:	3893481_60952	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 19:09	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

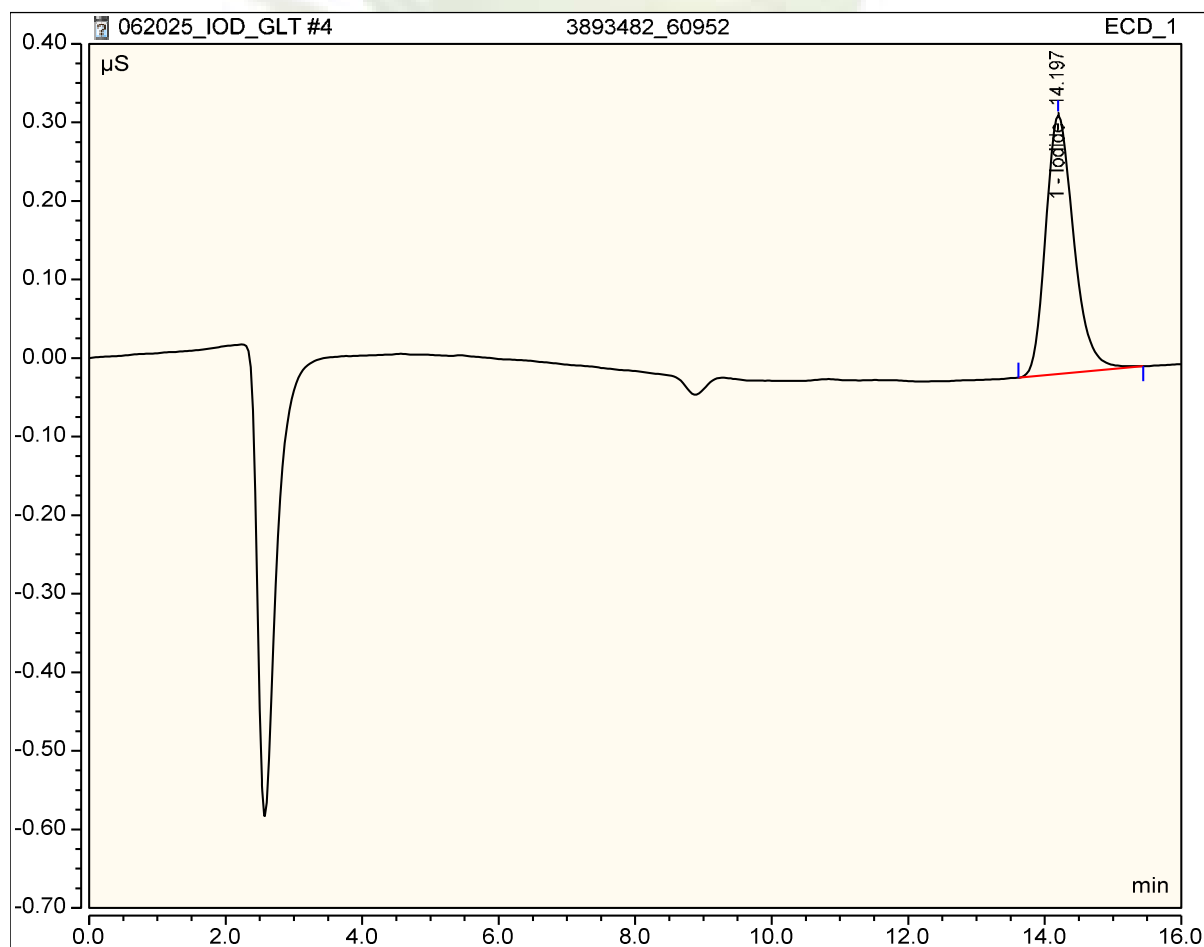
No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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3893482_60952 **377680**

Sample Name:	3893482_60952	Injection Volume (uL):	25.00
Vial Number:	B3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 19:28	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

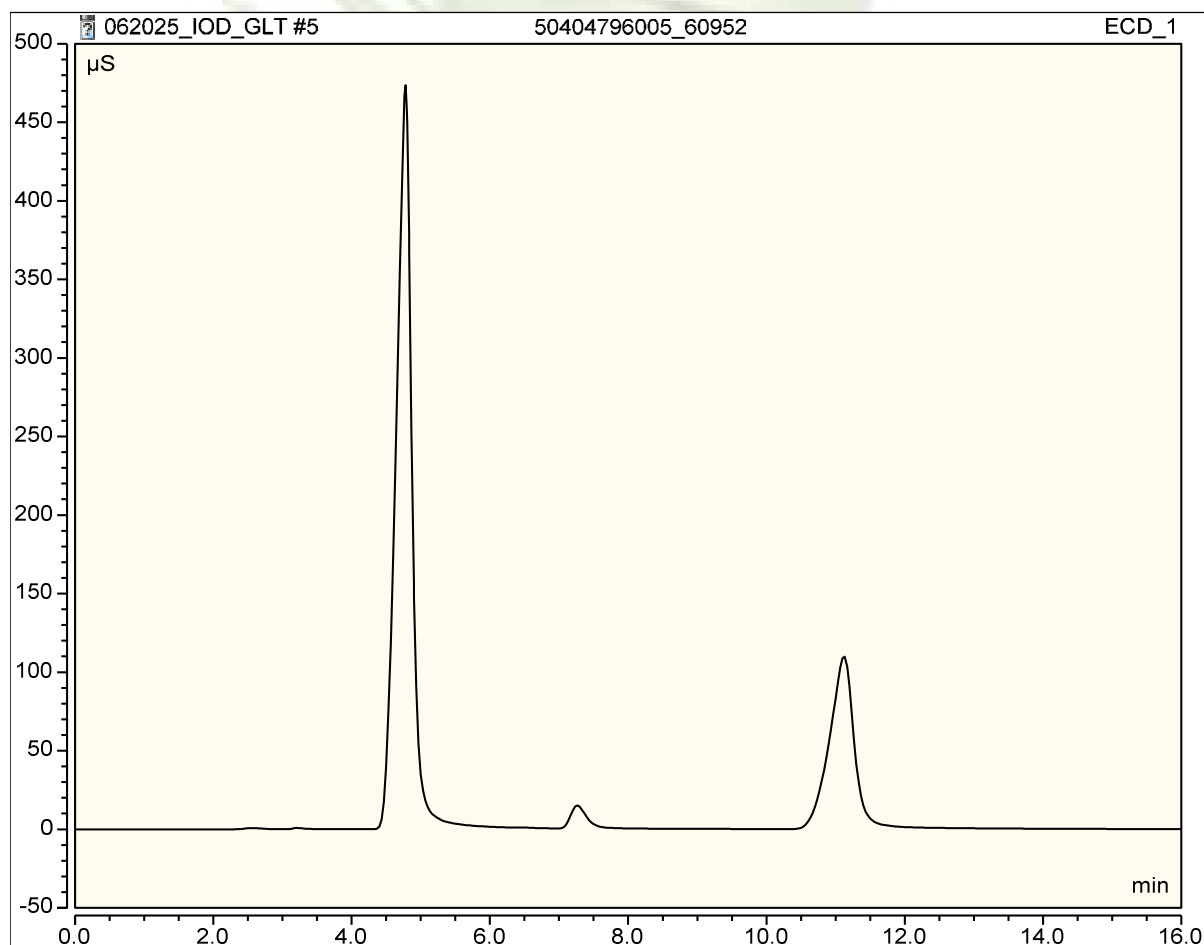
No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.20	Iodide	4.8531	0.157	0.330	BMB



50404796005_60952

Sample Name:	50404796005_60952	Injection Volume (uL):	25.00
Vial Number:	BA1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 19:47	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

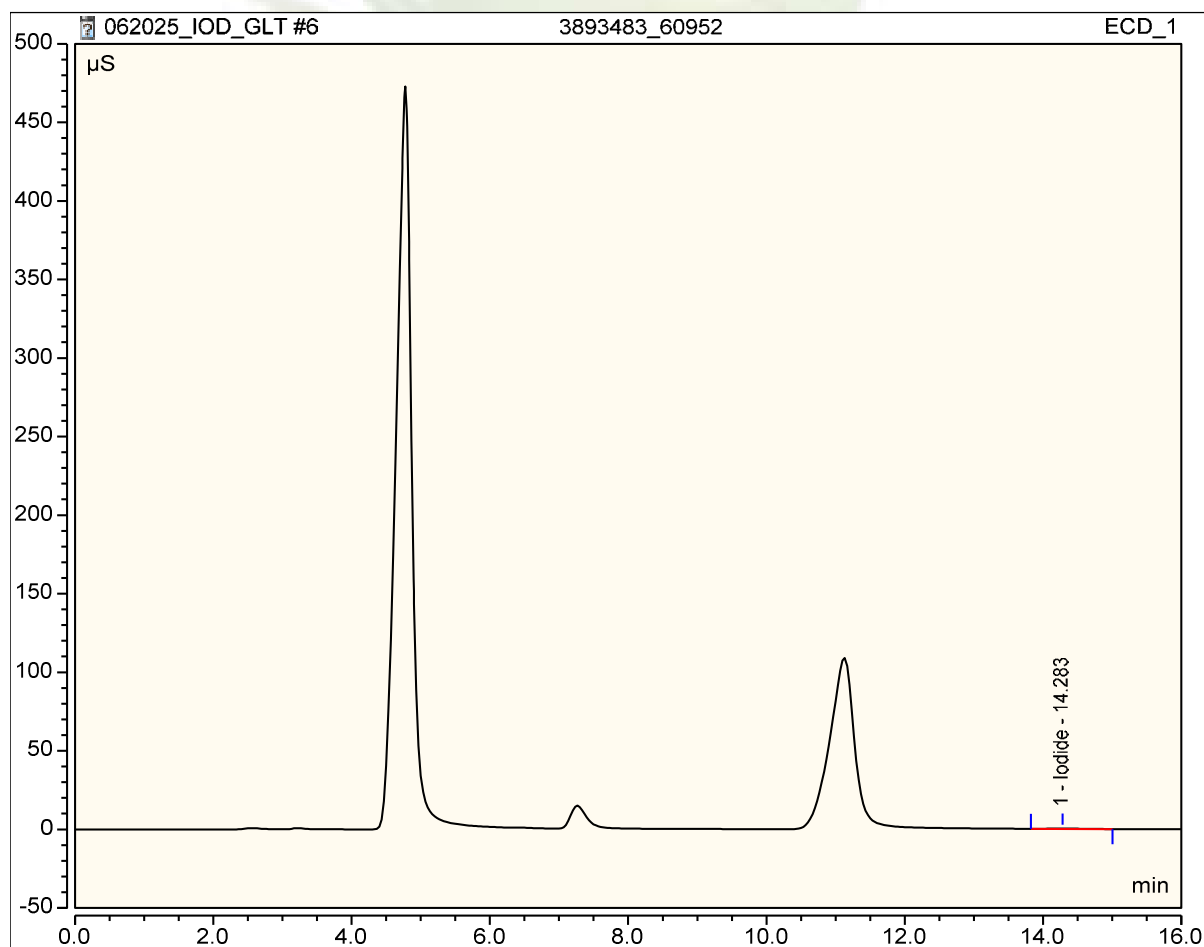
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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3893483_60952 **377680**

Sample Name:	3893483_60952	Injection Volume (uL):	25.00
Vial Number:	BA2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 20:07	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

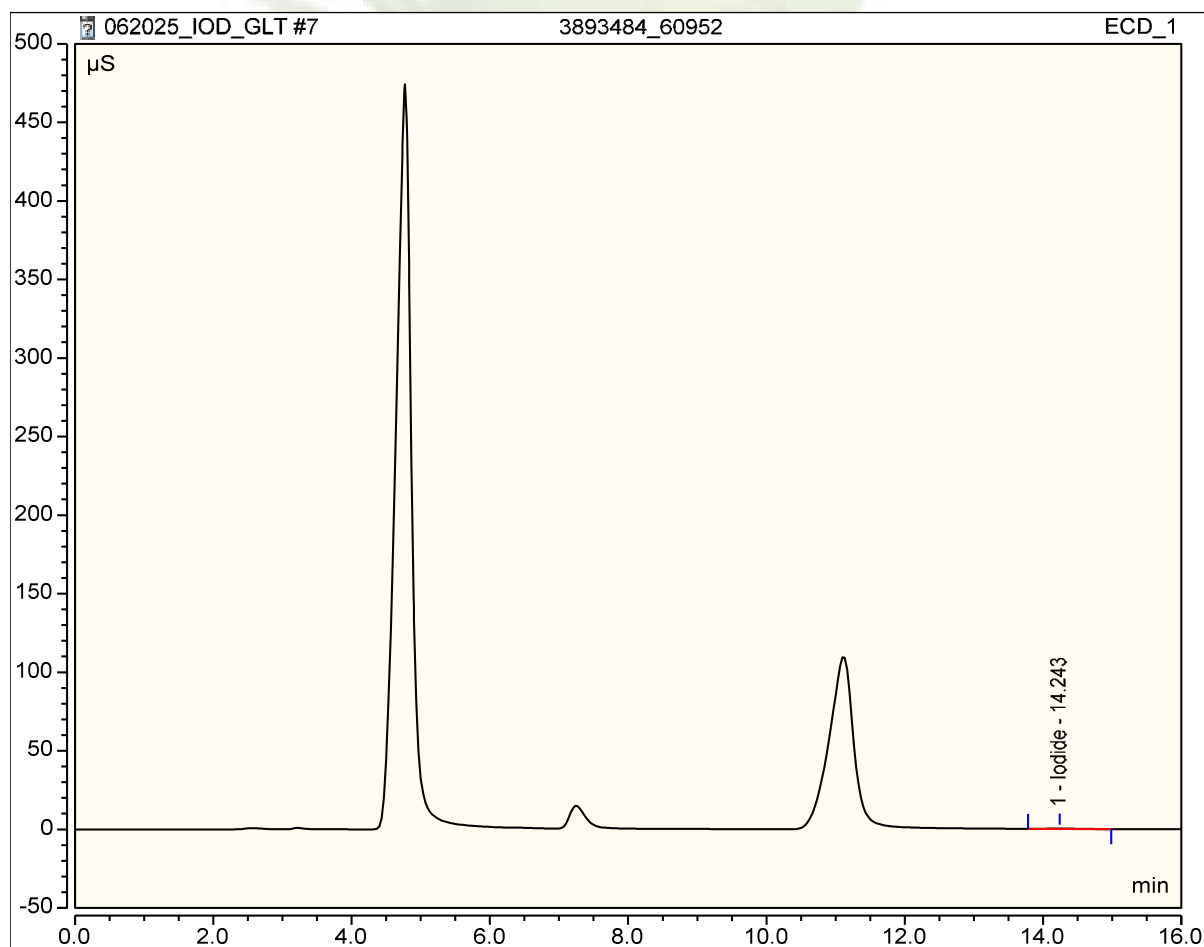
No.	Retention Time min	Name	Amount mg/L	Area μS*min	Height μS	Type
1	14.28	Iodide	3.9499	0.128	0.283	BMB



3893484_60952 377680

Sample Name:	3893484_60952	Injection Volume (uL):	25.00
Vial Number:	BA3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 20:26	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

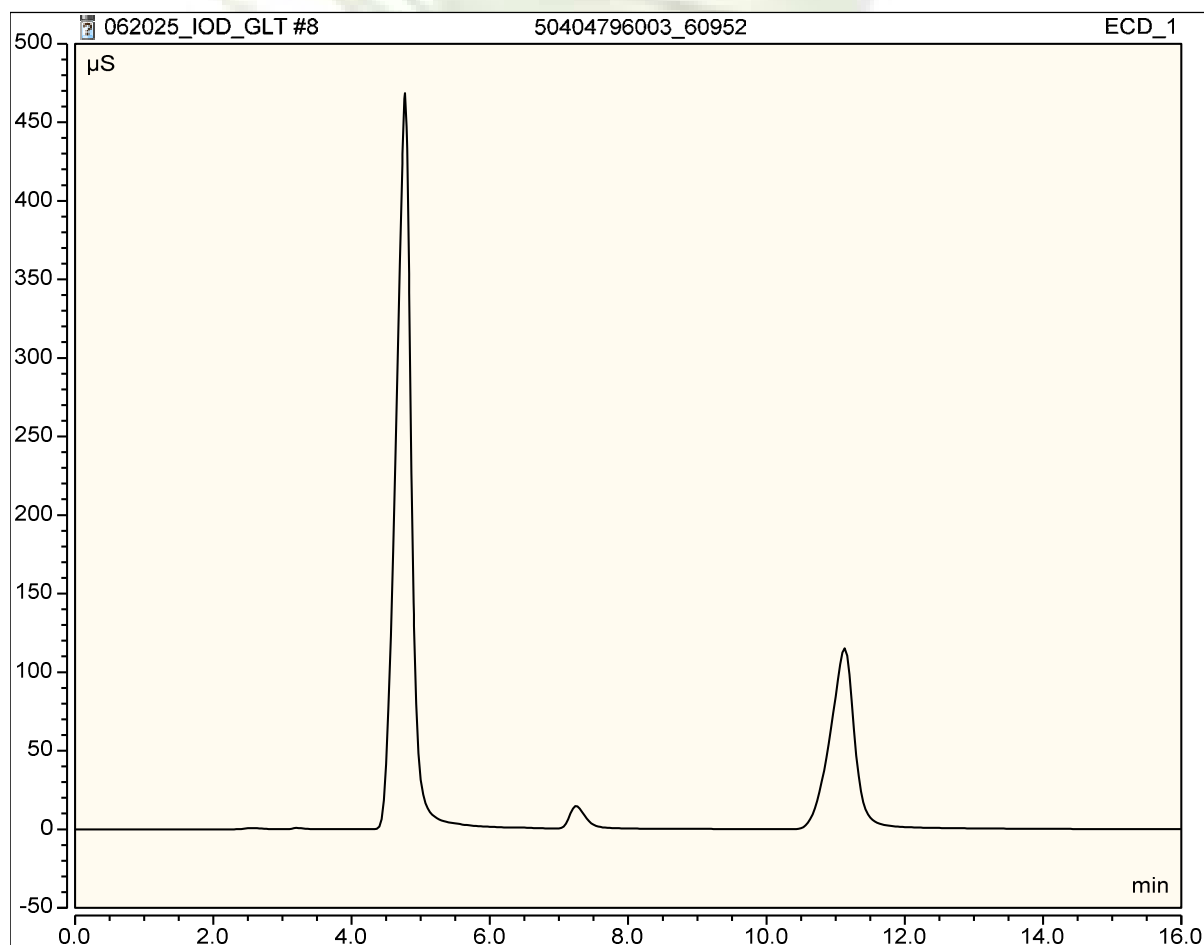
No.	Retention Time min	Name	Amount mg/L	Area μS*min	Height μS	Type
1	14.24	Iodide	3.9792	0.129	0.286	BMB



50404796003_60952

Sample Name:	50404796003_60952	Injection Volume (uL):	25.00
Vial Number:	BA4	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 20:45	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

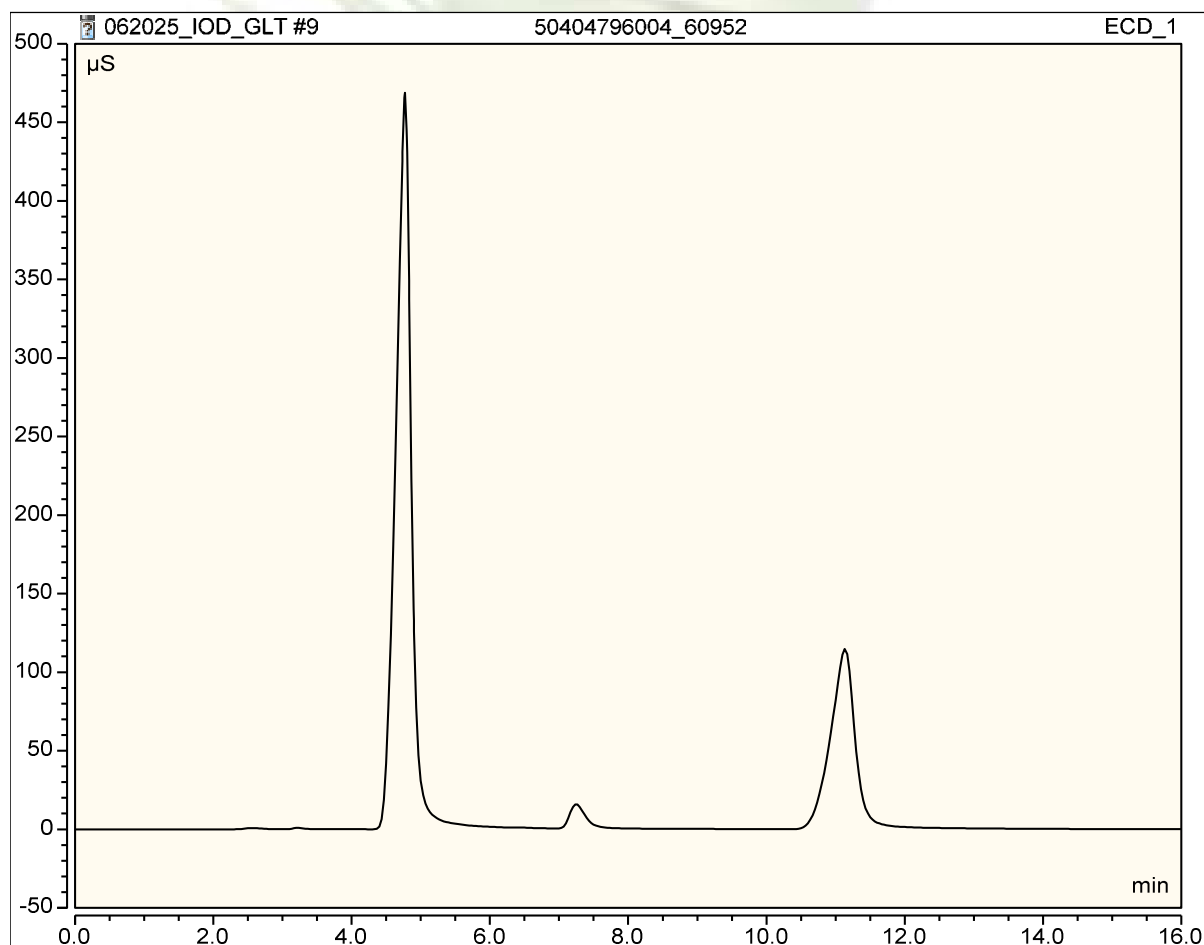
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50404796004_60952

Sample Name:	50404796004_60952	Injection Volume (uL):	25.00
Vial Number:	BA5	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 21:05	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

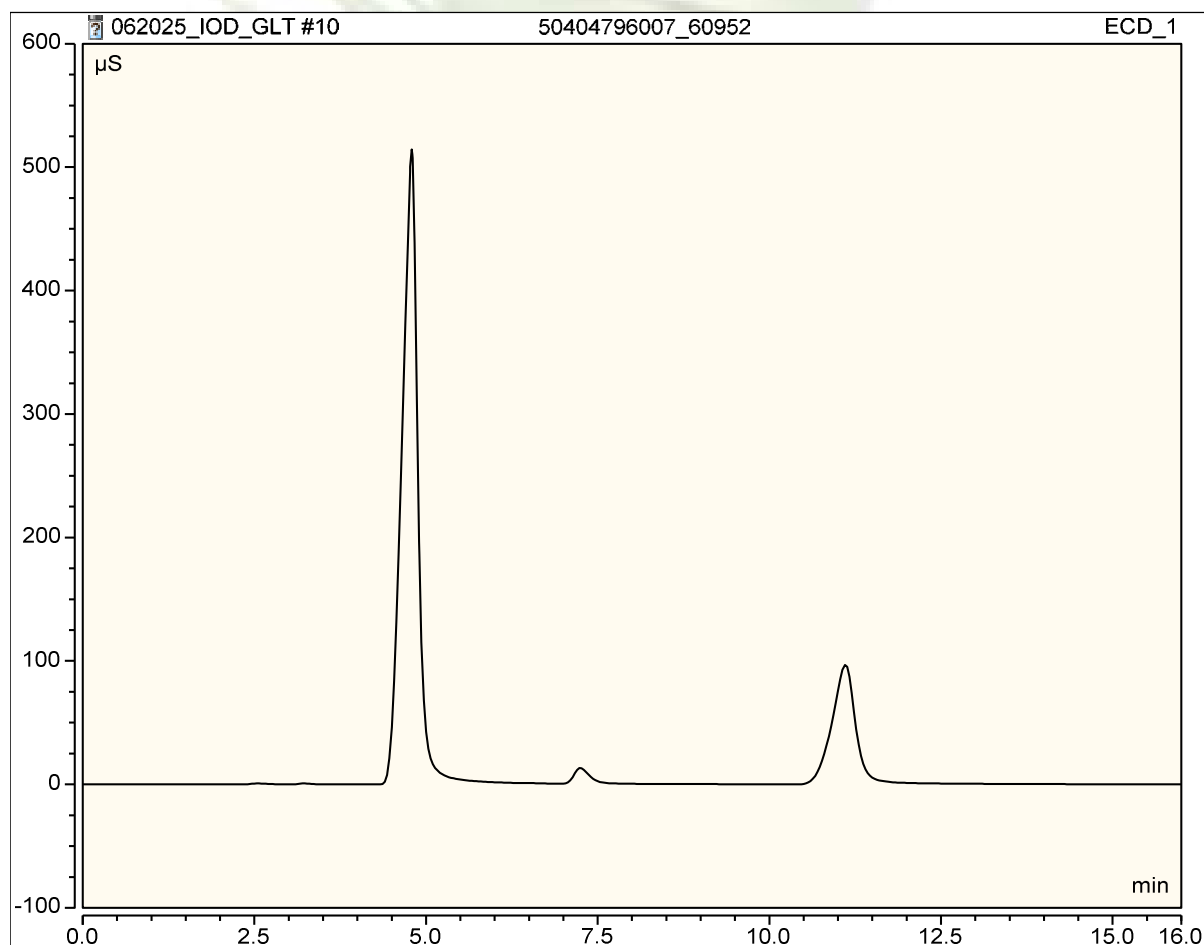
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50404796007_60952

Sample Name:	50404796007_60952	Injection Volume (uL):	25.00
Vial Number:	BA6	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 21:24	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

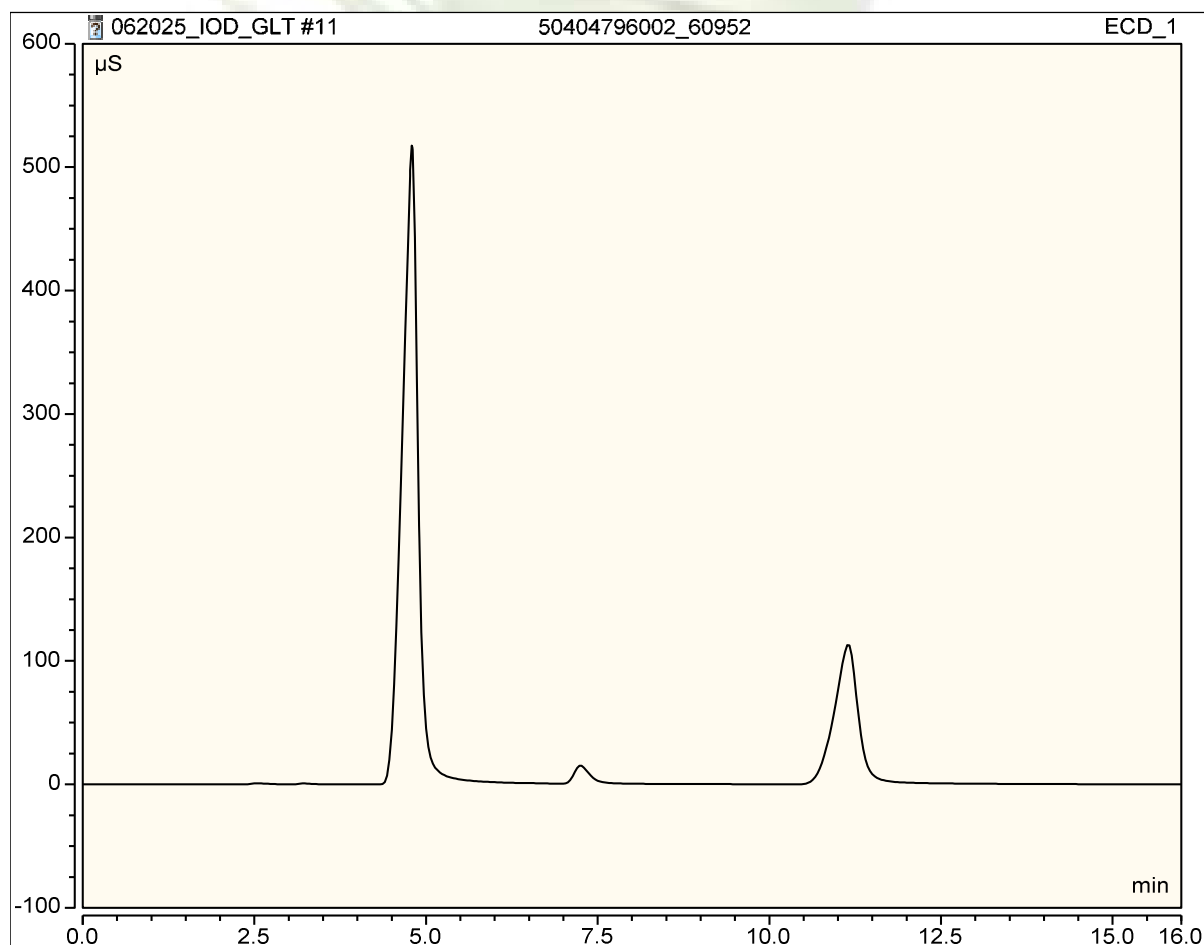
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50404796002_60952

Sample Name:	50404796002_60952	Injection Volume (uL):	25.00
Vial Number:	BA7	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 21:43	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

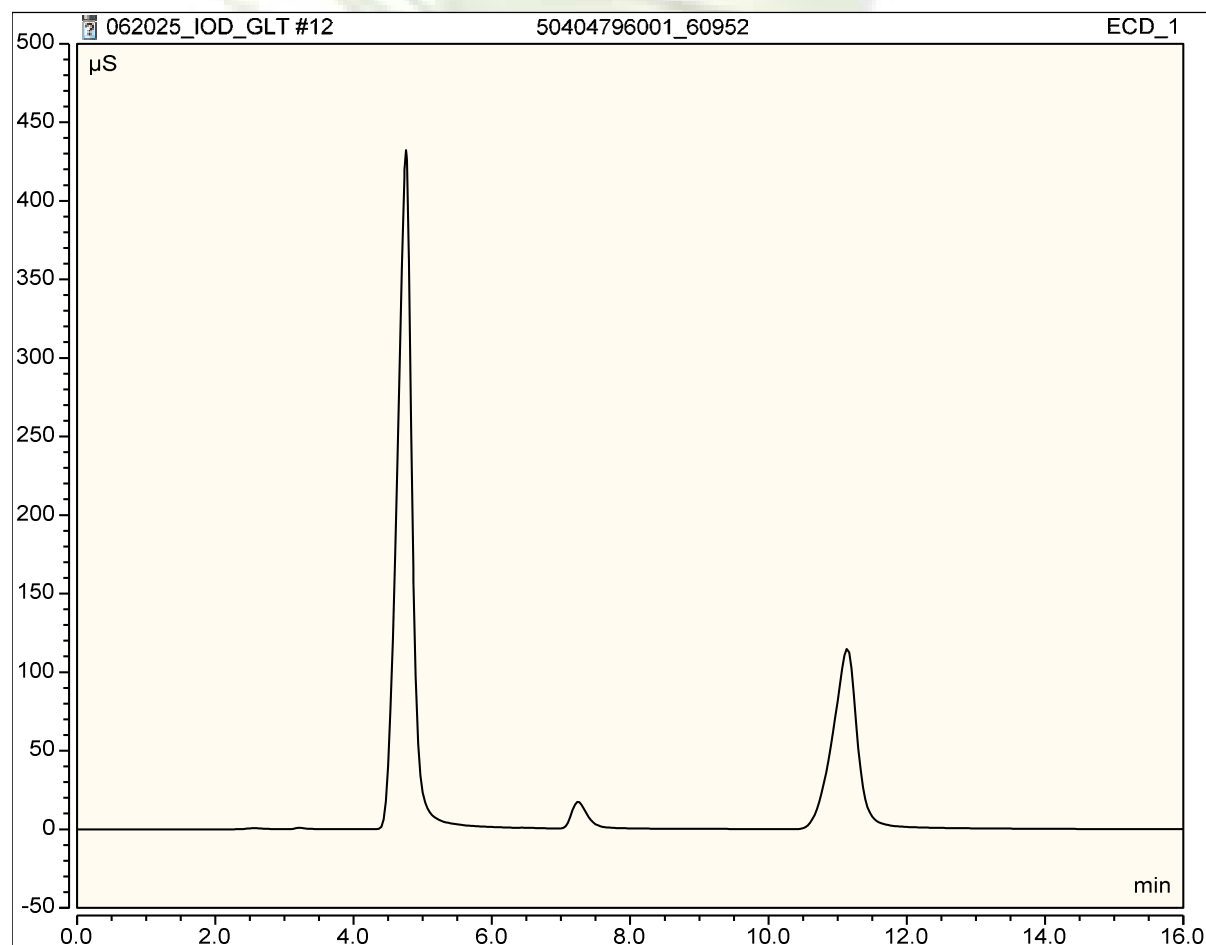
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50404796001_60952

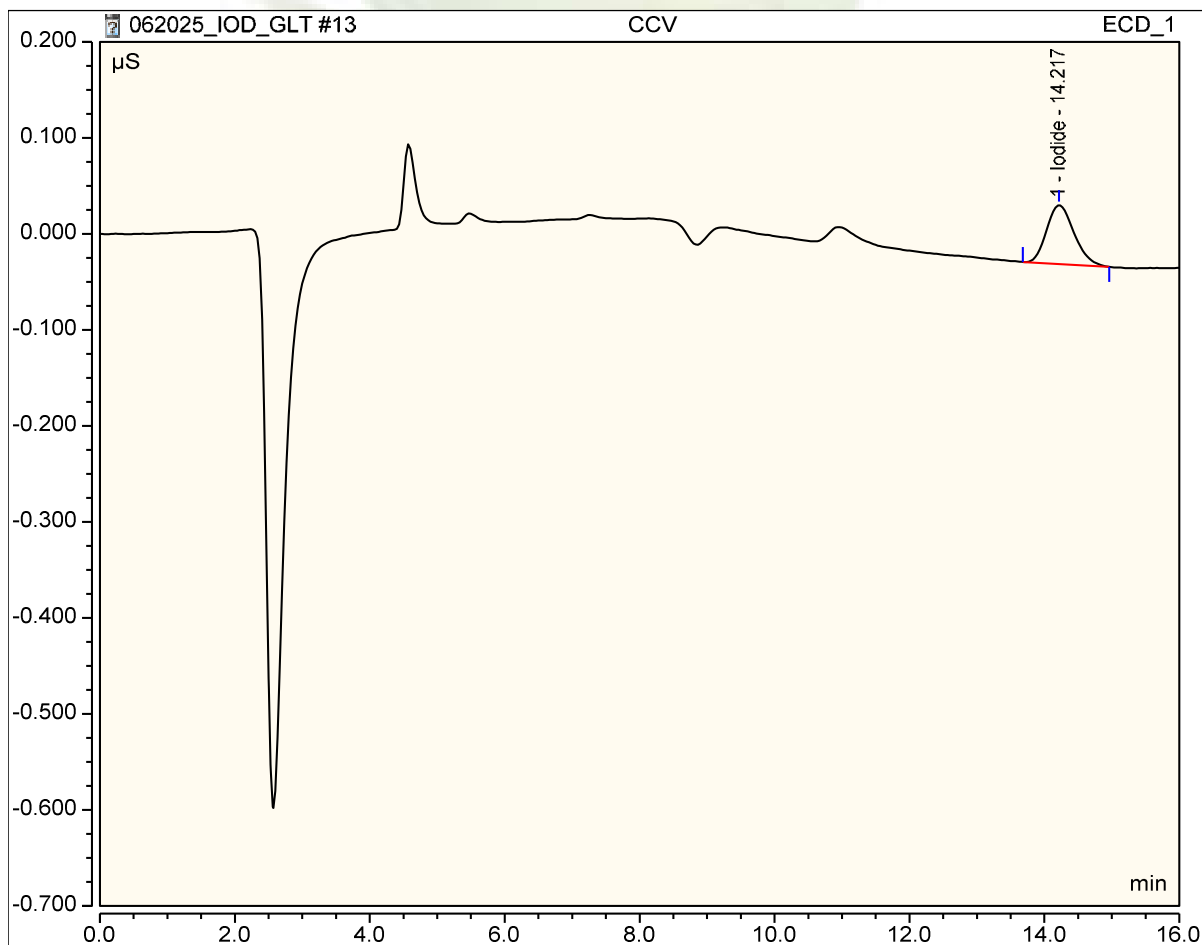
Sample Name:	50404796001_60952	Injection Volume (uL):	25.00
Vial Number:	BA8	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 22:02	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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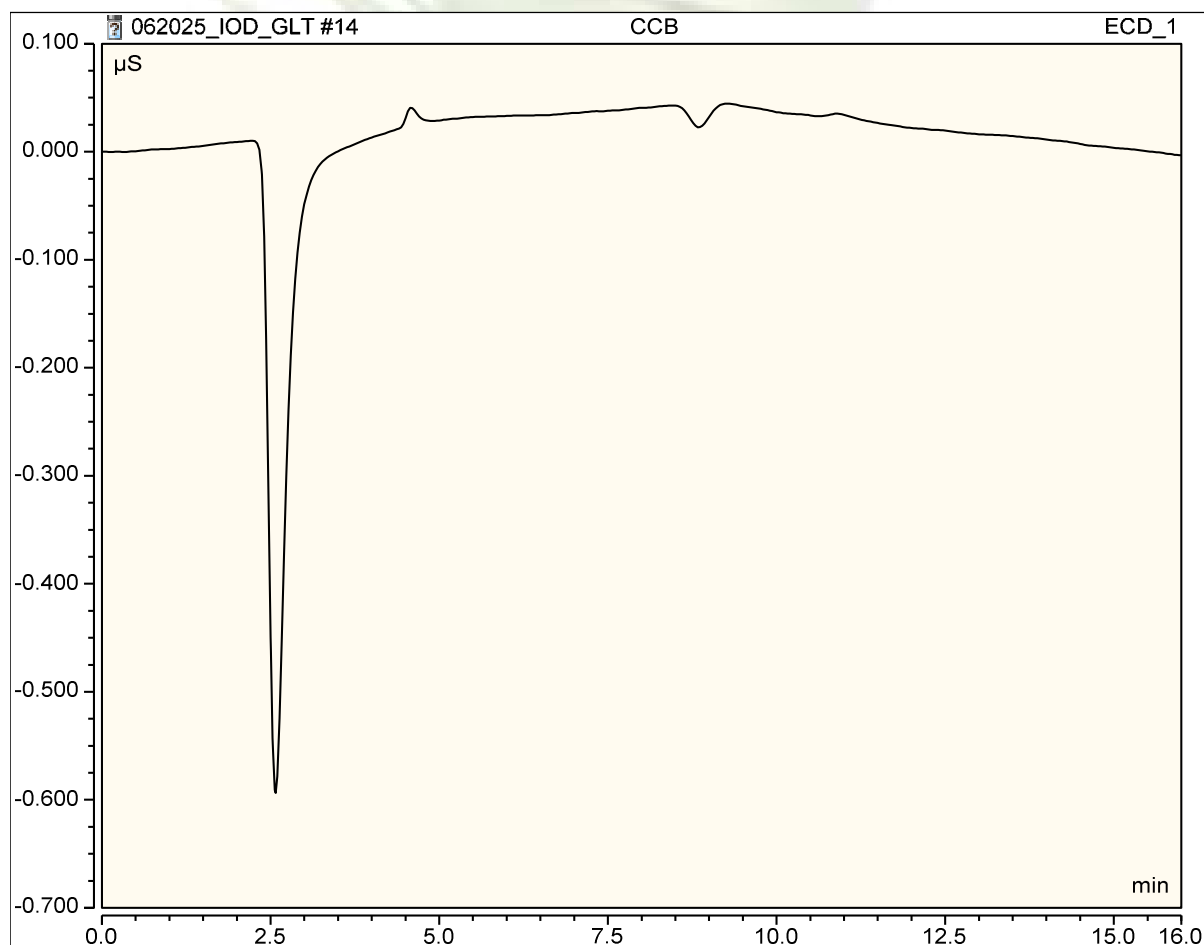
CCV			
412749			
Sample Name:	CCV	Injection Volume (uL):	25.00
Vial Number:	B2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 22:22	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.22	Iodide	0.9264	0.029	0.061	BMB



CCB			
340111			
Sample Name:	CCB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 22:41	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

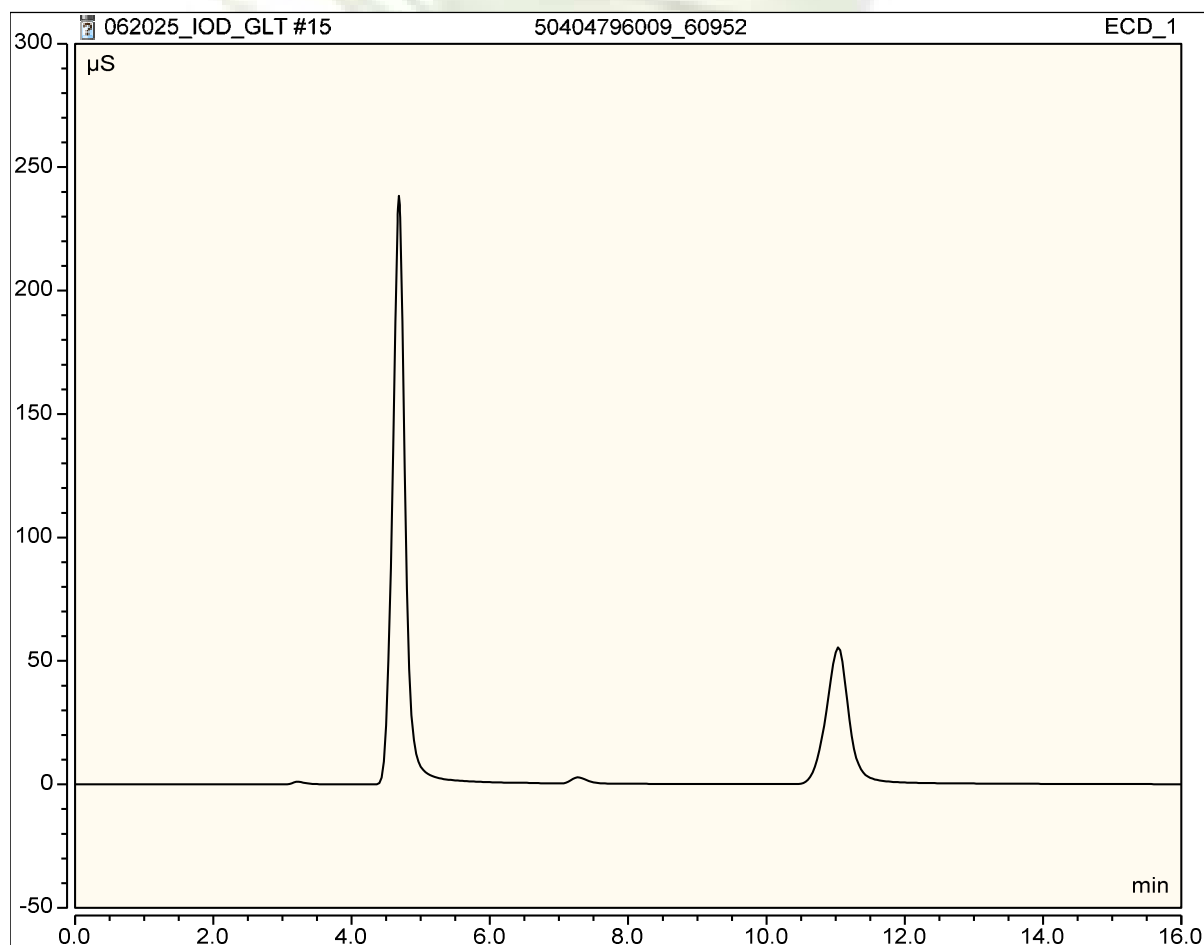
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50404796009_60952

Sample Name:	50404796009_60952	Injection Volume (uL):	25.00
Vial Number:	BB1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 23:00	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

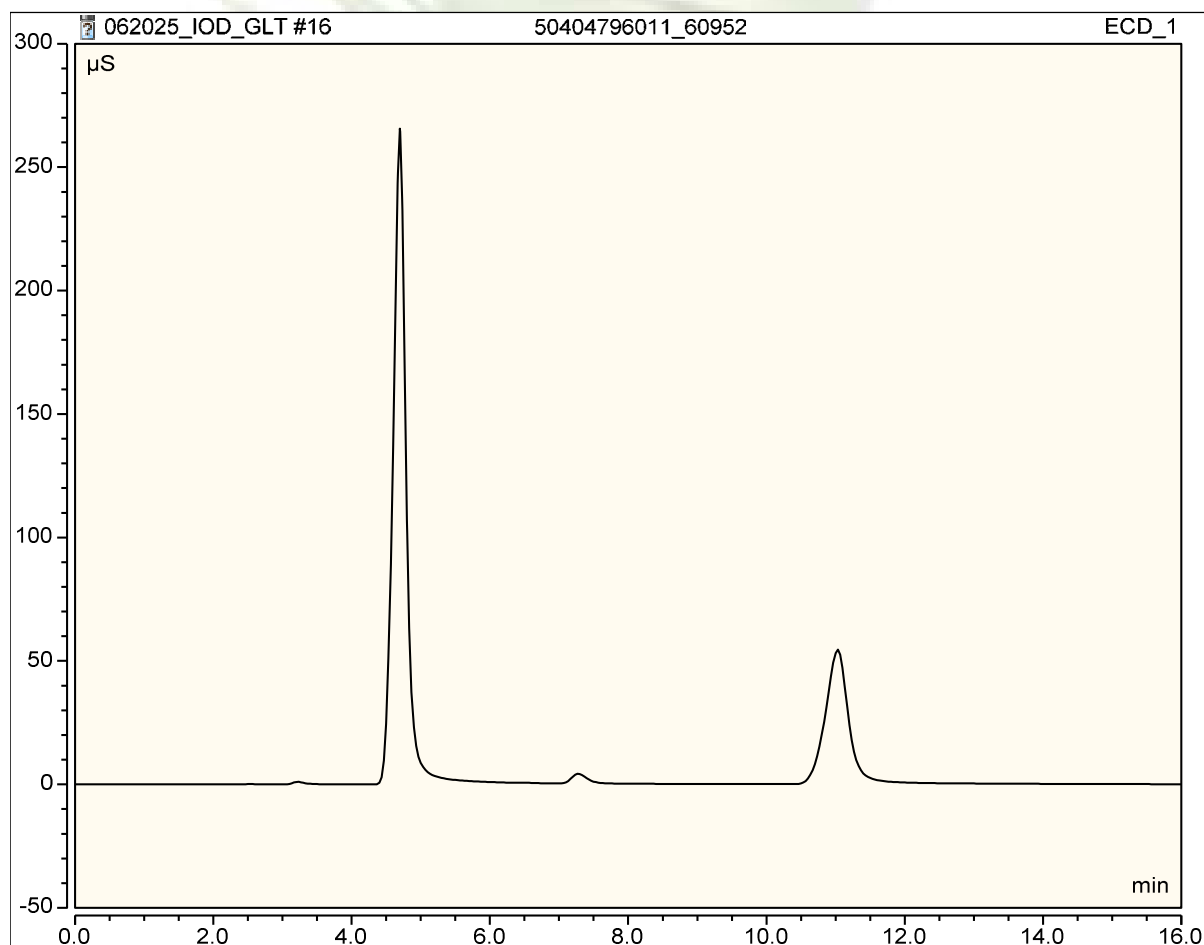
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50404796011_60952

Sample Name:	50404796011_60952	Injection Volume (uL):	25.00
Vial Number:	BB2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 23:19	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

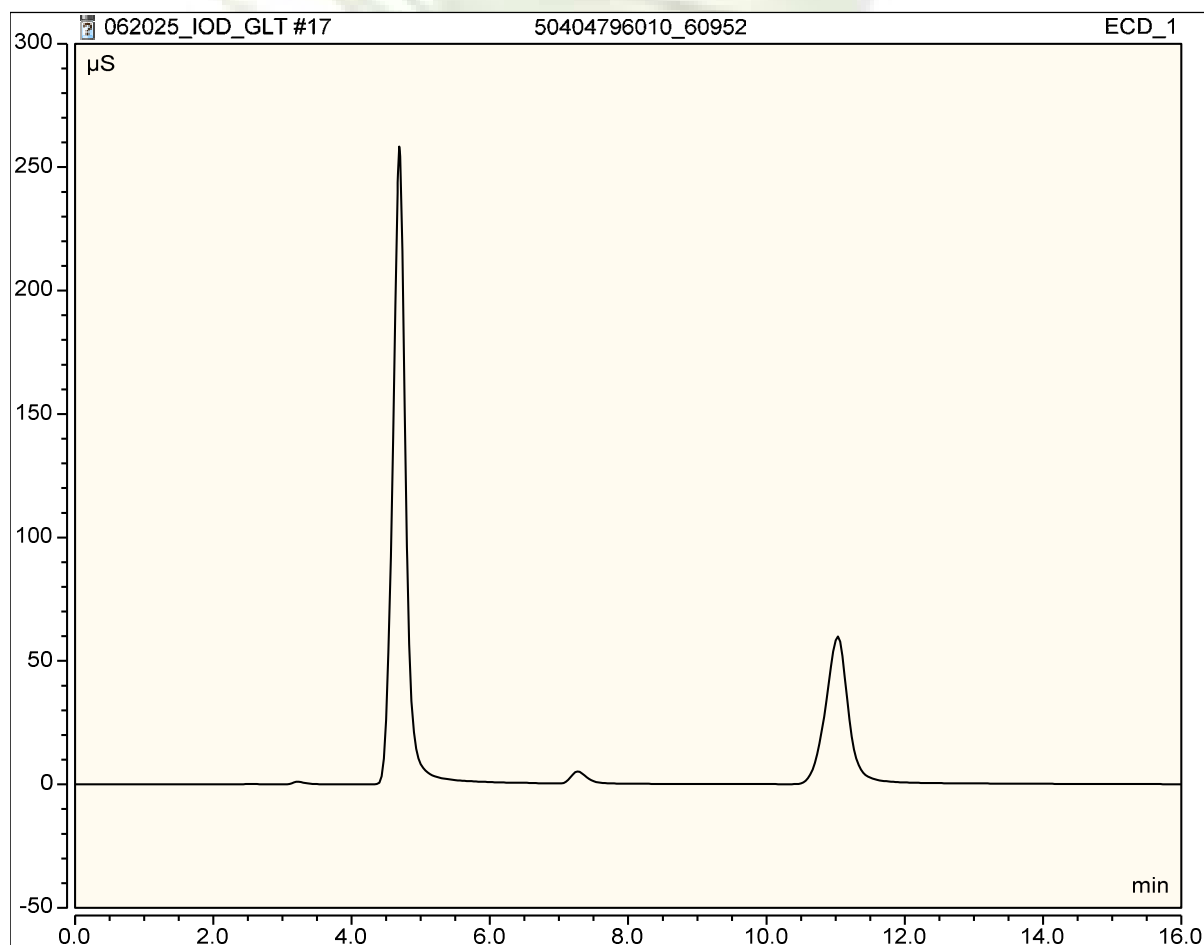
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50404796010_60952

Sample Name:	50404796010_60952	Injection Volume (uL):	25.00
Vial Number:	BB3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 23:39	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

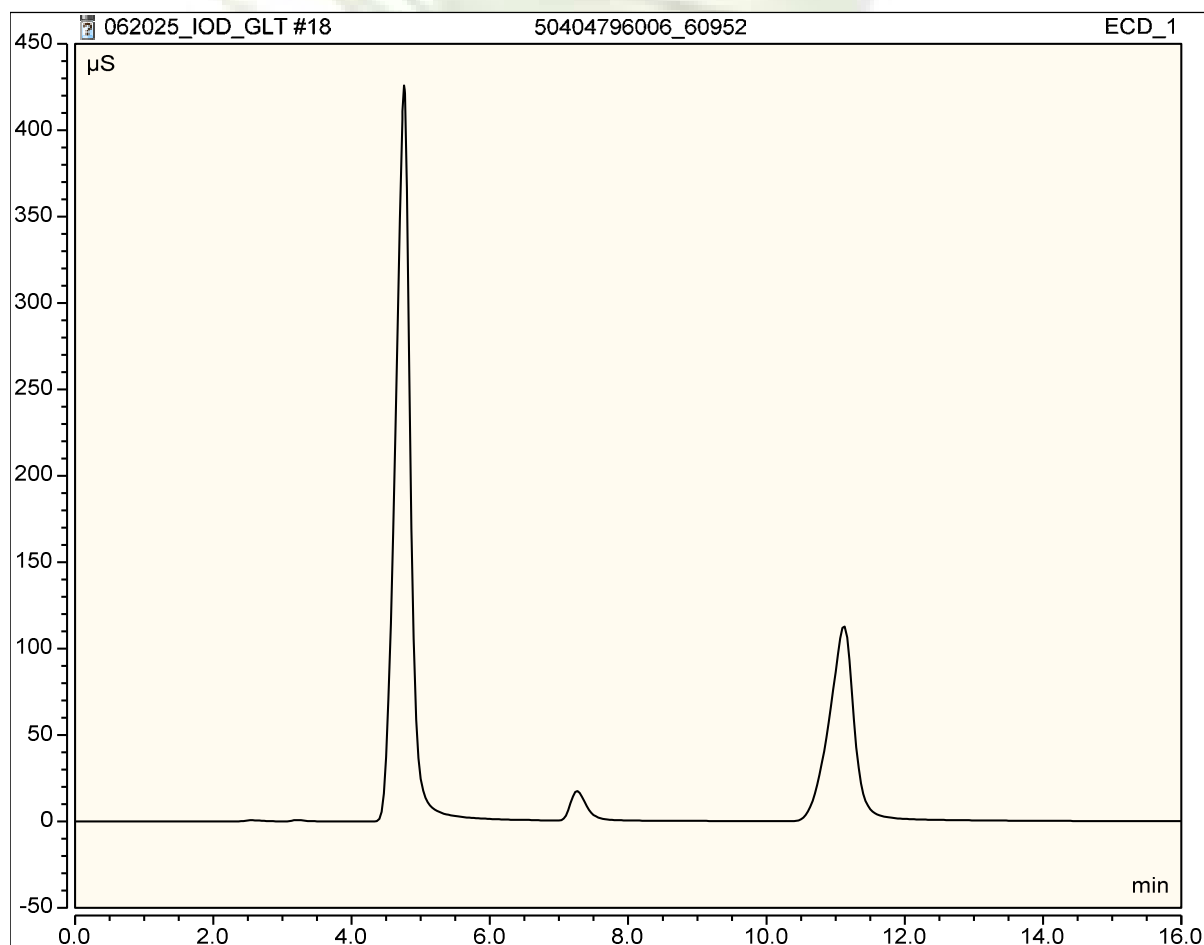
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50404796006_60952

Sample Name:	50404796006_60952	Injection Volume (uL):	25.00
Vial Number:	BB4	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/20/2025 23:58	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

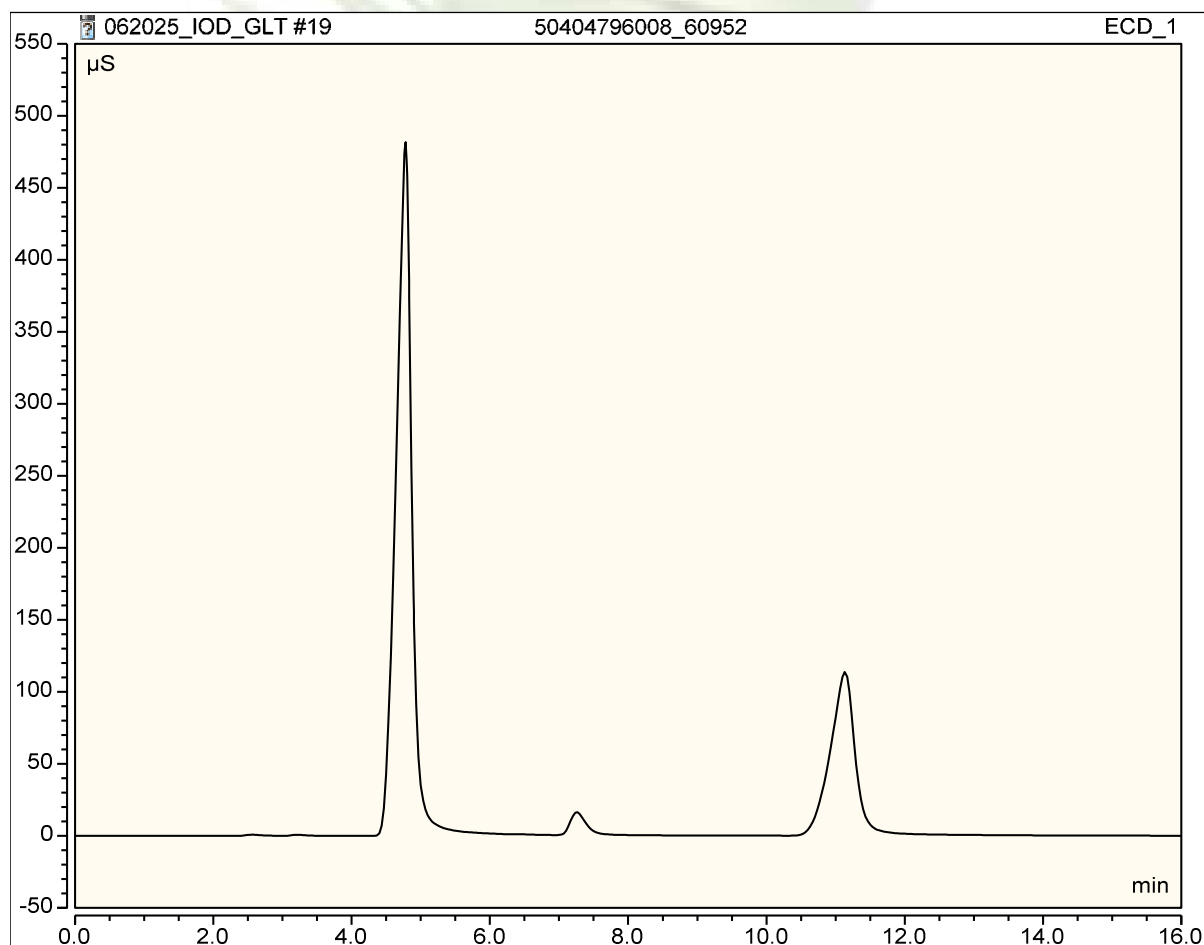
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50404796008_60952

Sample Name:	50404796008_60952	Injection Volume (uL):	25.00
Vial Number:	BB5	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 00:17	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

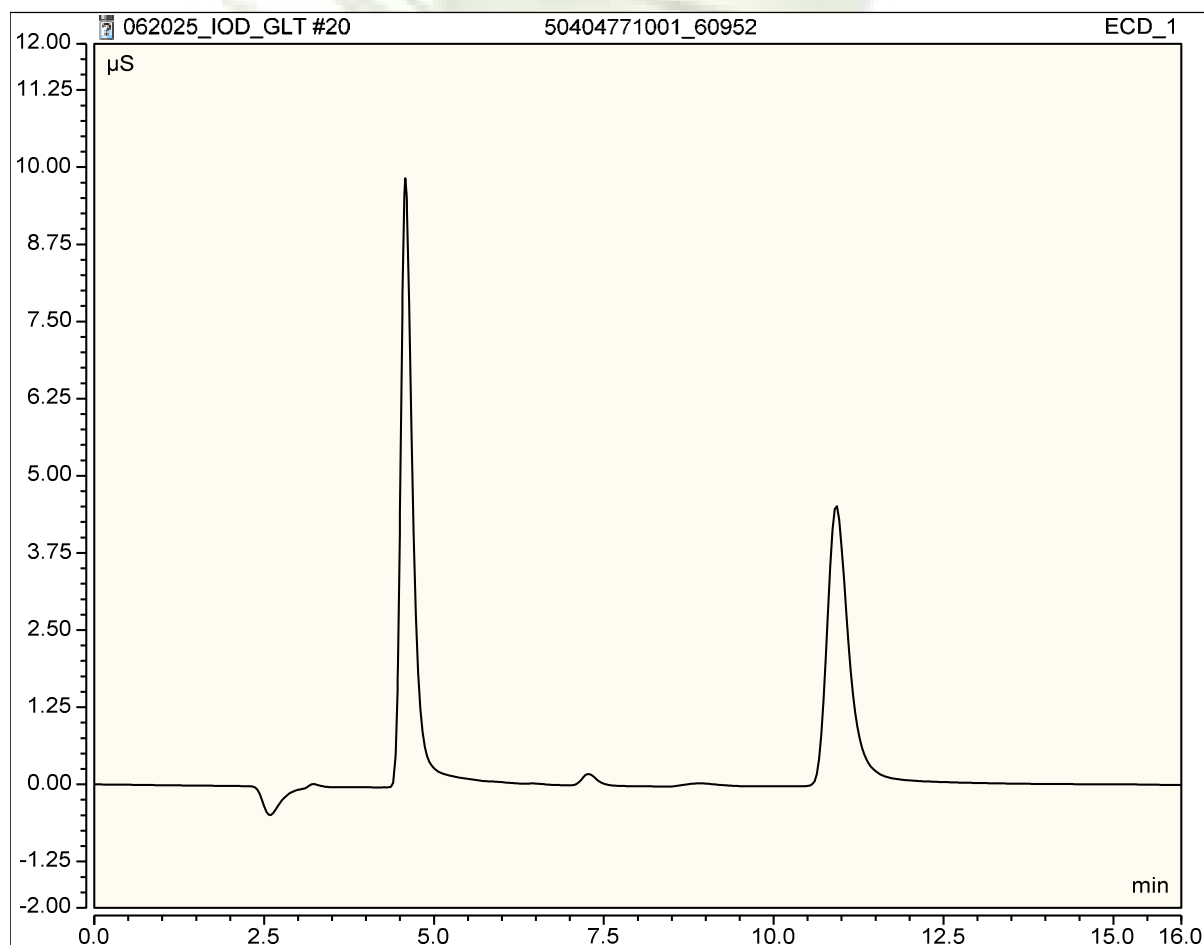
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50404771001_60952

Sample Name:	50404771001_60952	Injection Volume (uL):	25.00
Vial Number:	BB6	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 00:37	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

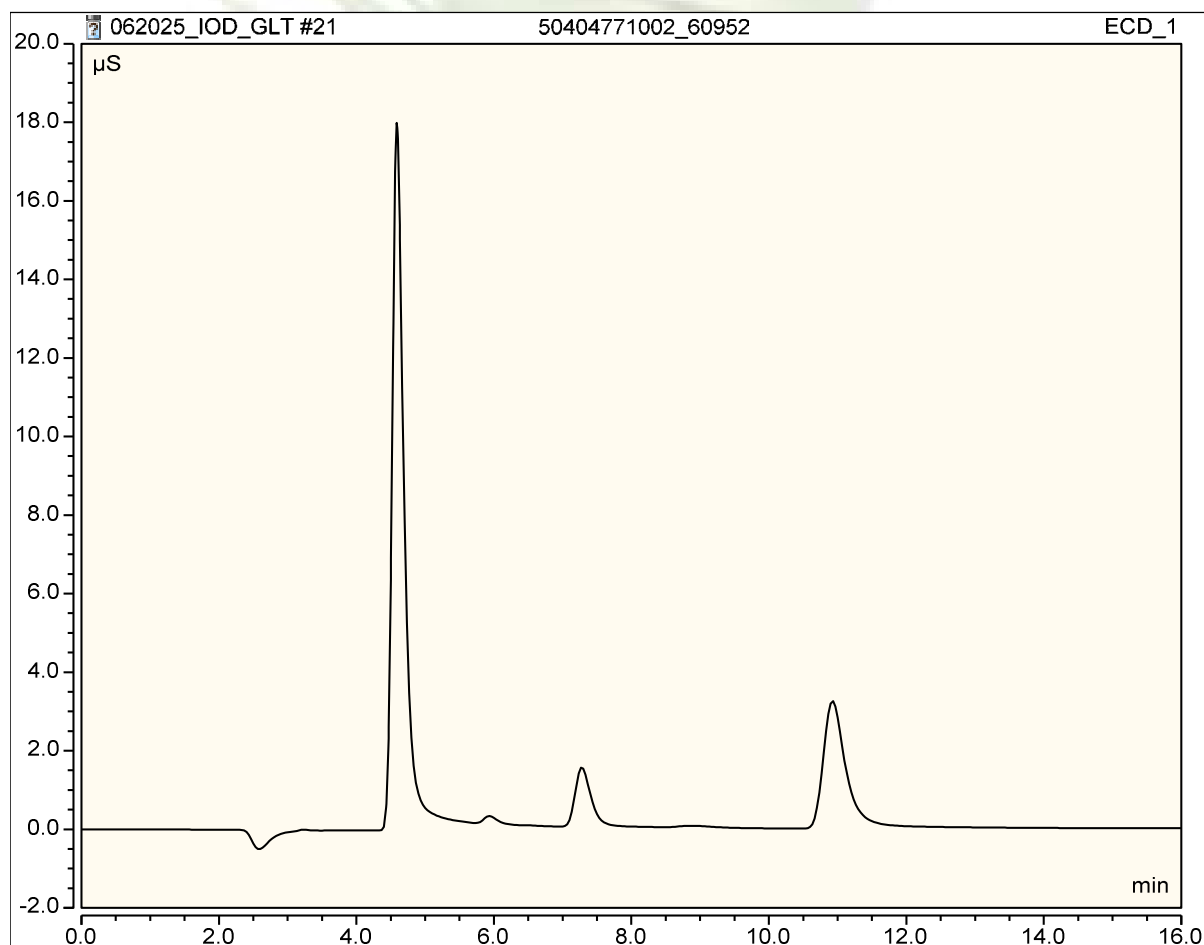
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50404771002_60952

Sample Name:	50404771002_60952	Injection Volume (uL):	25.00
Vial Number:	BB7	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 00:56	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

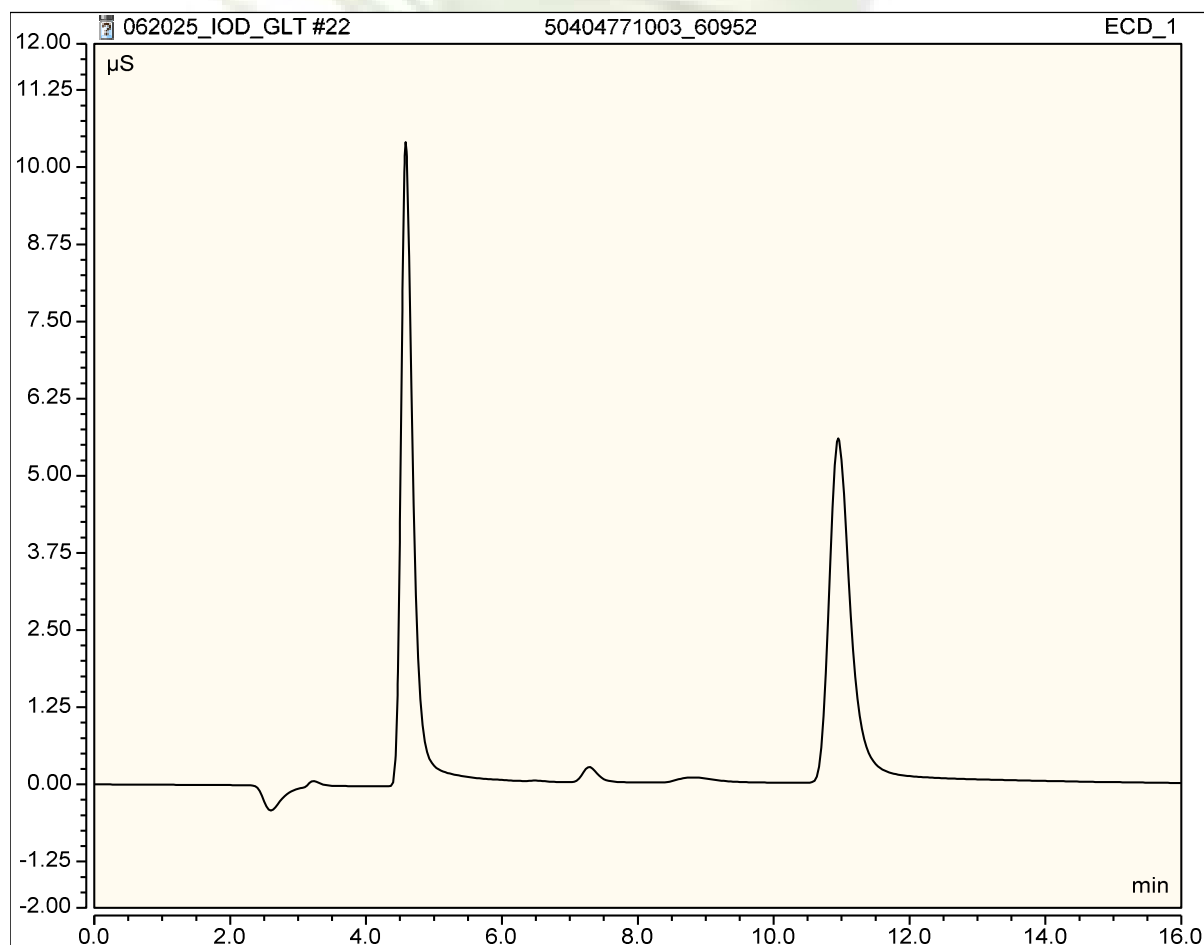
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50404771003_60952

Sample Name:	50404771003_60952	Injection Volume (uL):	25.00
Vial Number:	BB8	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 01:15	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

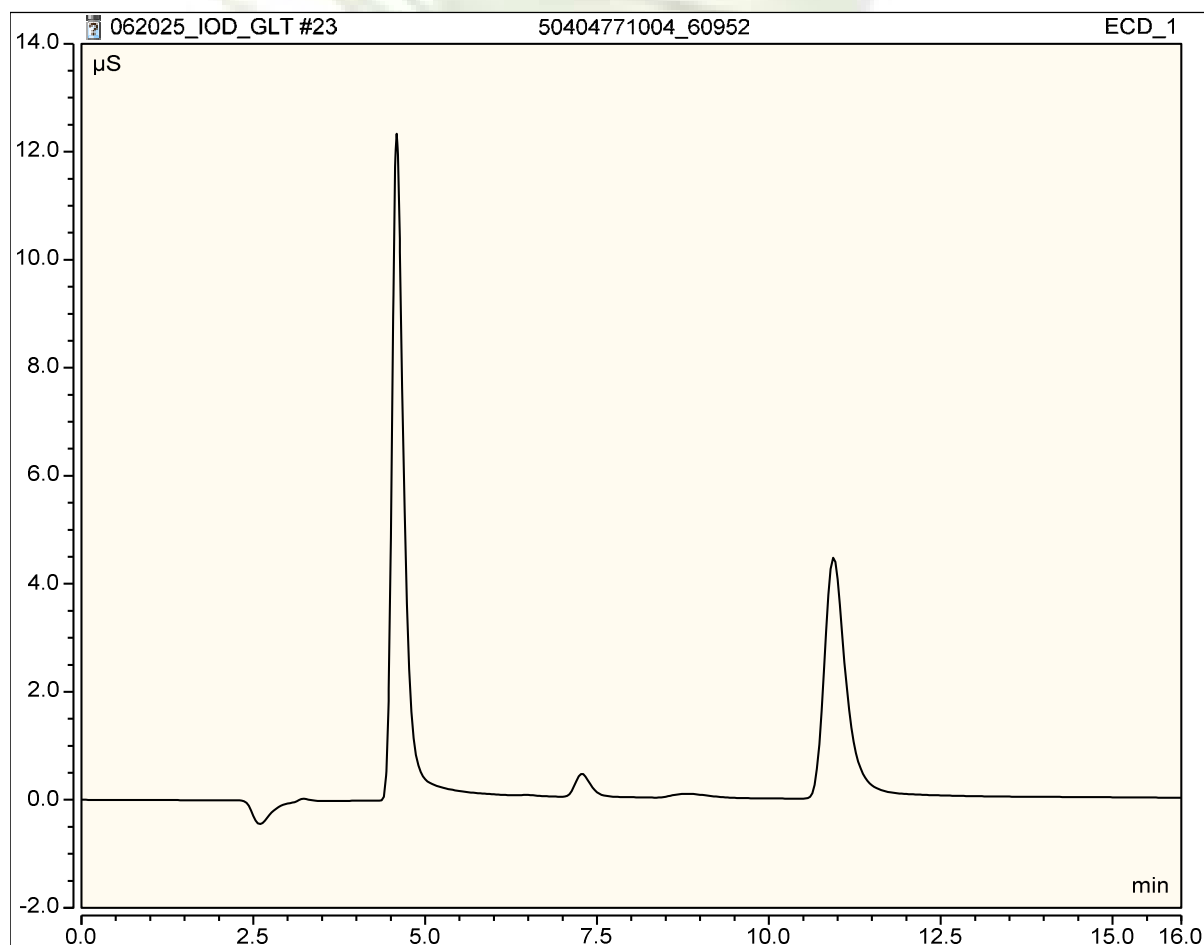
No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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50404771004_60952 412748

Sample Name:	50404771004_60952	Injection Volume (uL):	25.00
Vial Number:	BC1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 01:34	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

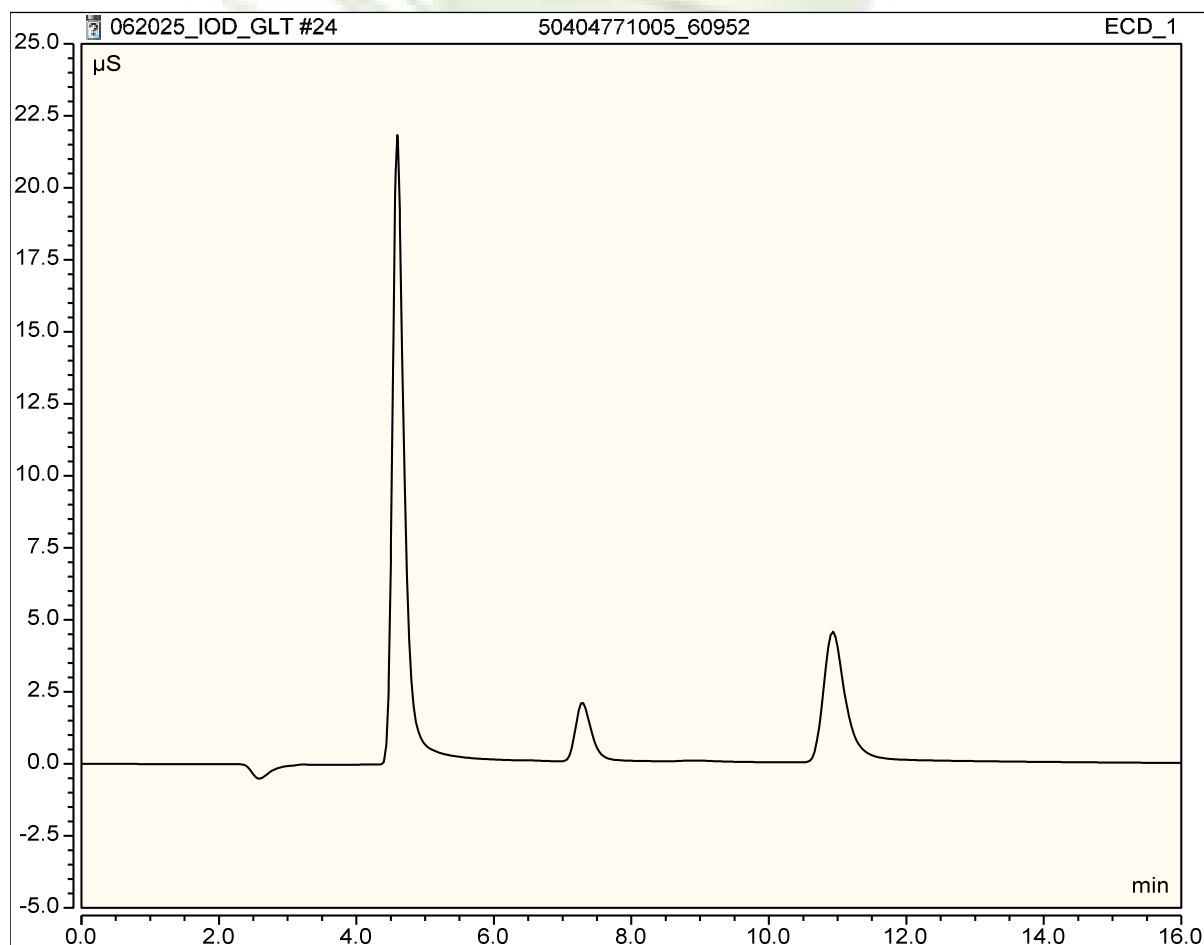
No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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50404771005_60952 412748

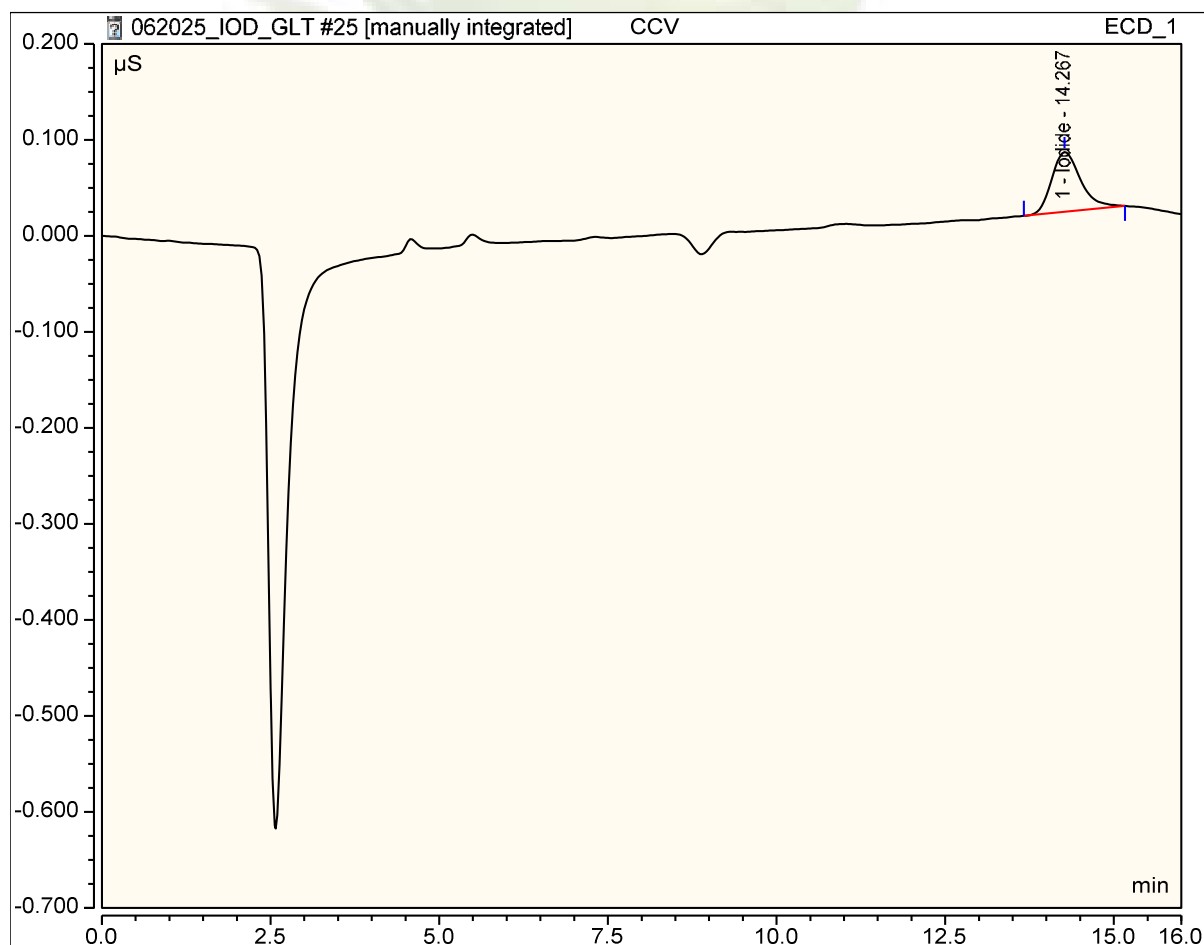
Sample Name:	50404771005_60952	Injection Volume (uL):	25.00
Vial Number:	BC2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 01:54	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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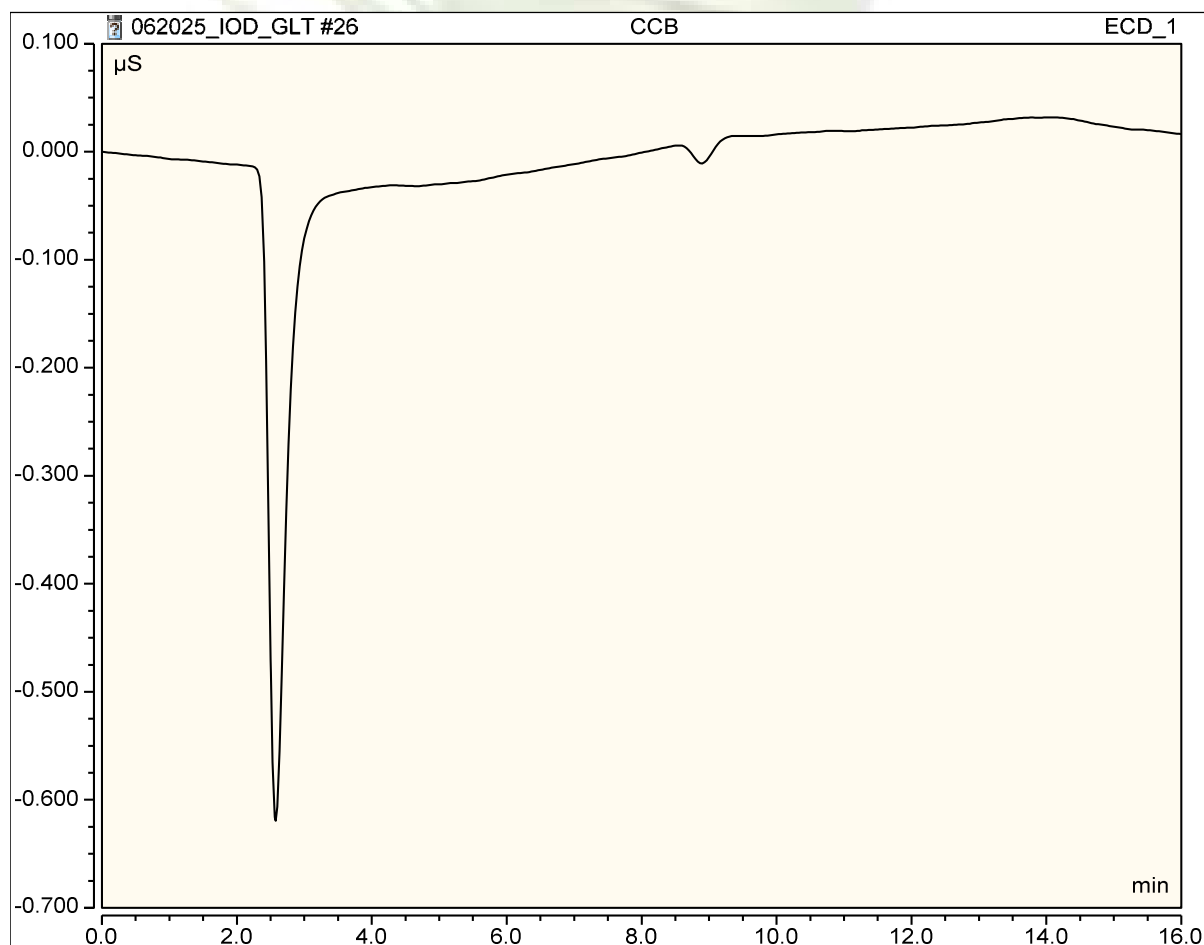
CCV			
412749			
Sample Name:	CCV	Injection Volume (uL):	25.00
Vial Number:	B2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 02:13	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area μS*min	Height μS	Type
1	14.27	Iodide	0.9895	0.031	0.062	BMB*



CCB			
340111			
Sample Name:	CCB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 02:32	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

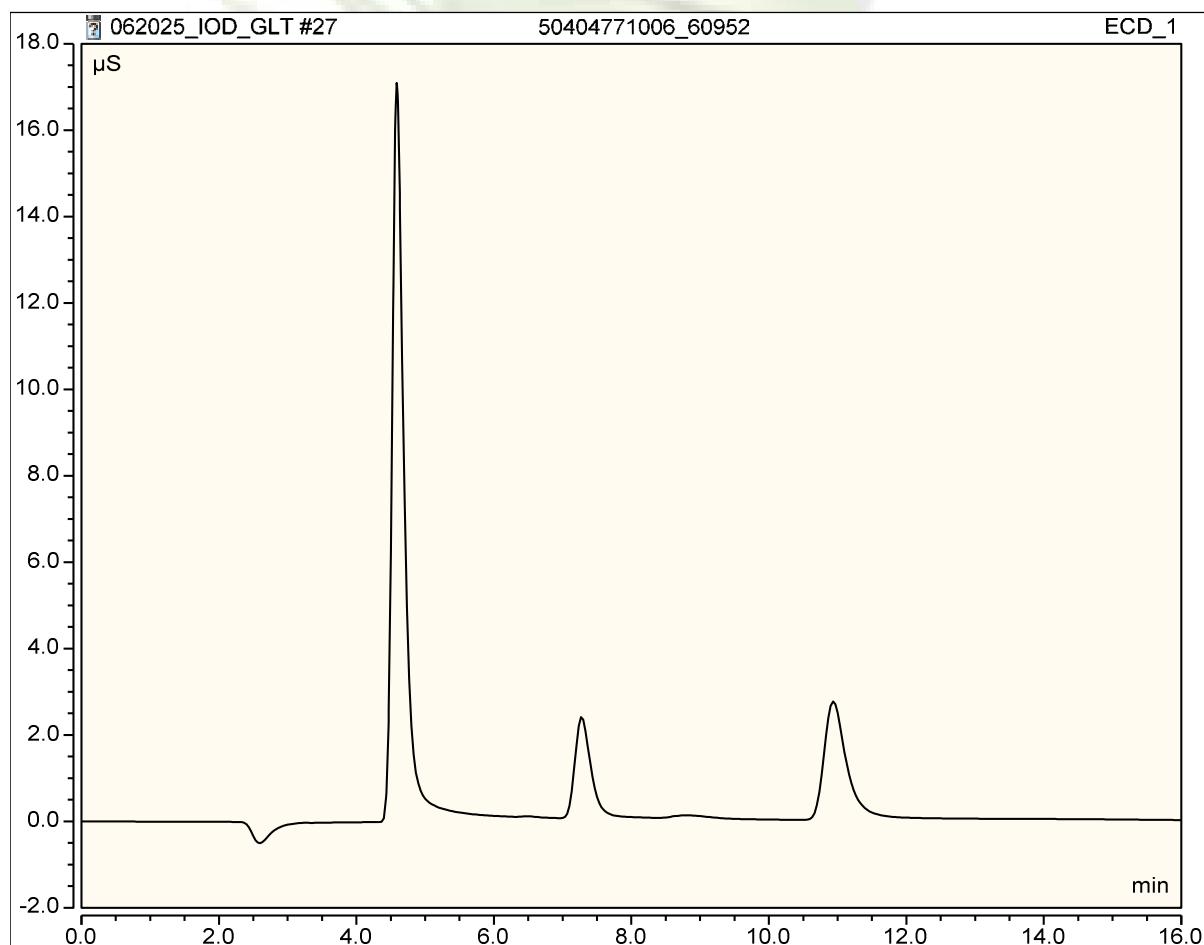
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50404771006_60952

Sample Name:	50404771006_60952	Injection Volume (uL):	25.00
Vial Number:	BC3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 02:51	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

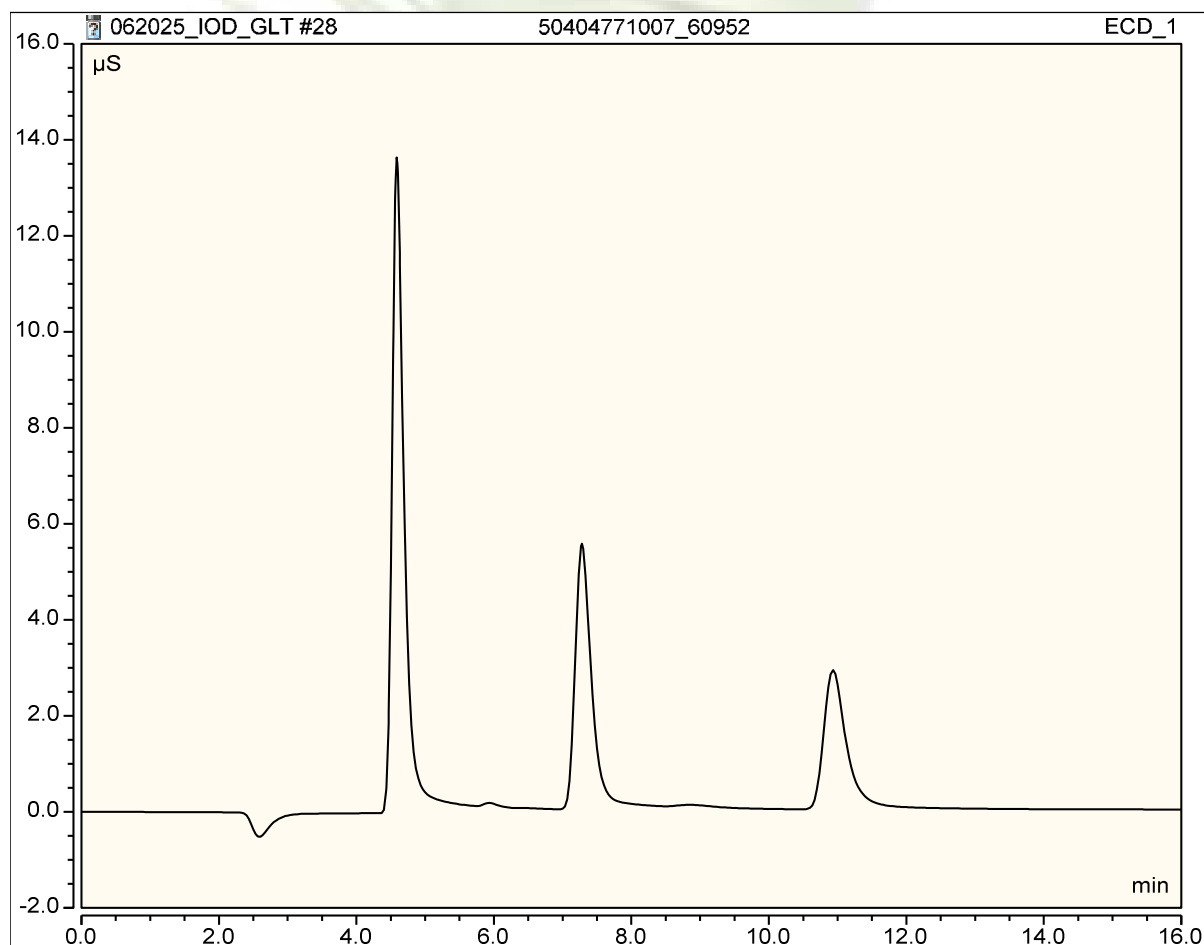
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50404771007_60952

Sample Name:	50404771007_60952	Injection Volume (uL):	25.00
Vial Number:	BC4	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 03:11	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

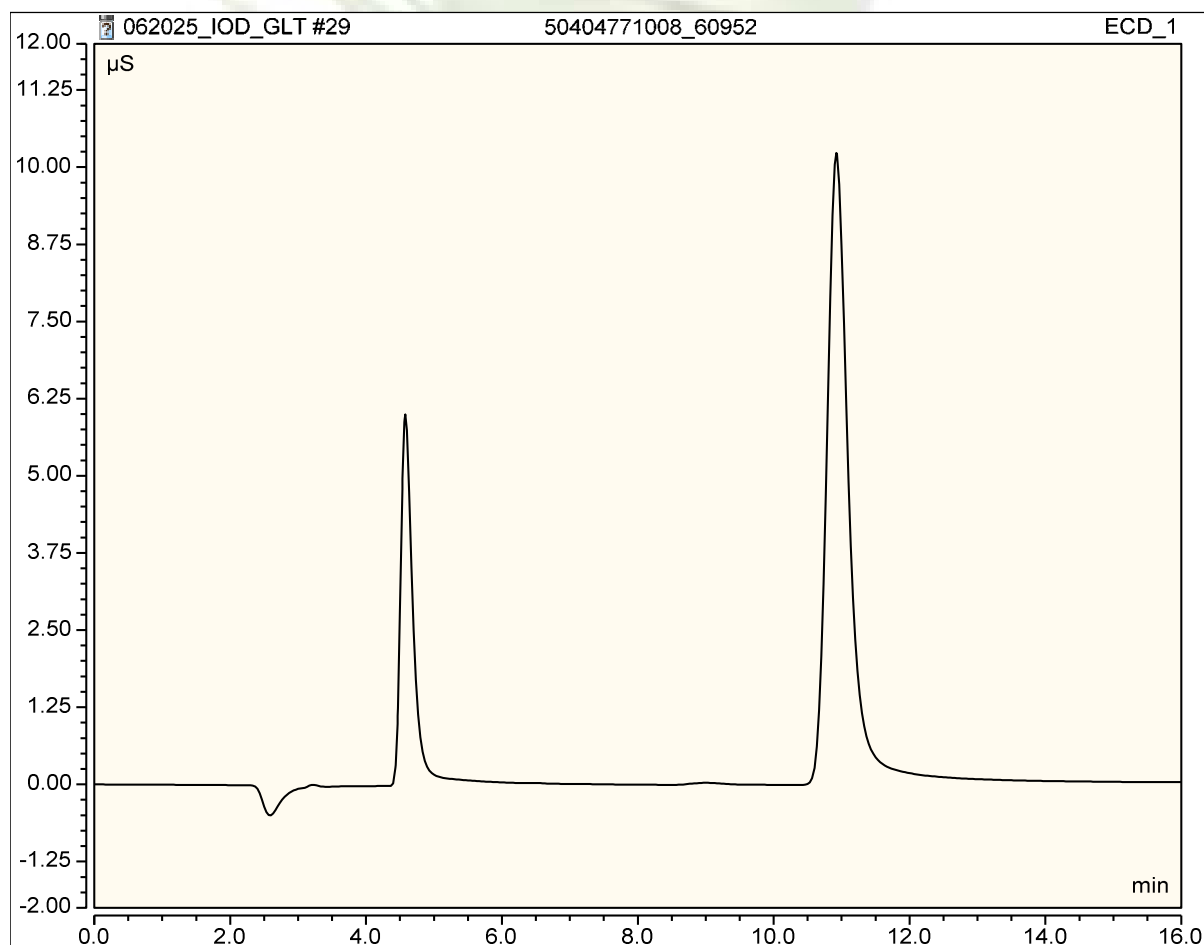
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50404771008_60952

Sample Name:	50404771008_60952	Injection Volume (uL):	25.00
Vial Number:	BC5	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 03:30	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

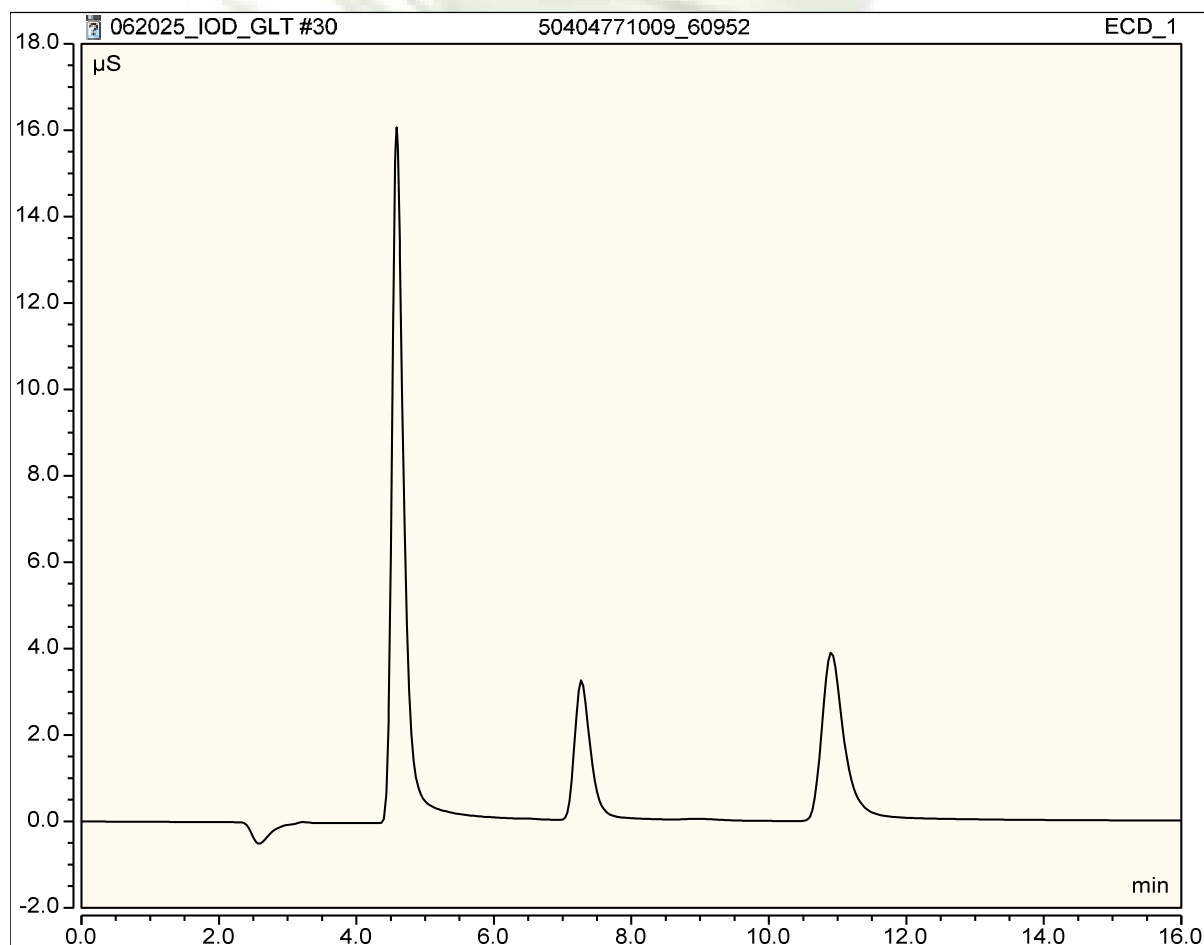
No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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50404771009_60952

Sample Name:	50404771009_60952	Injection Volume (uL):	25.00
Vial Number:	BC6	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 03:49	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

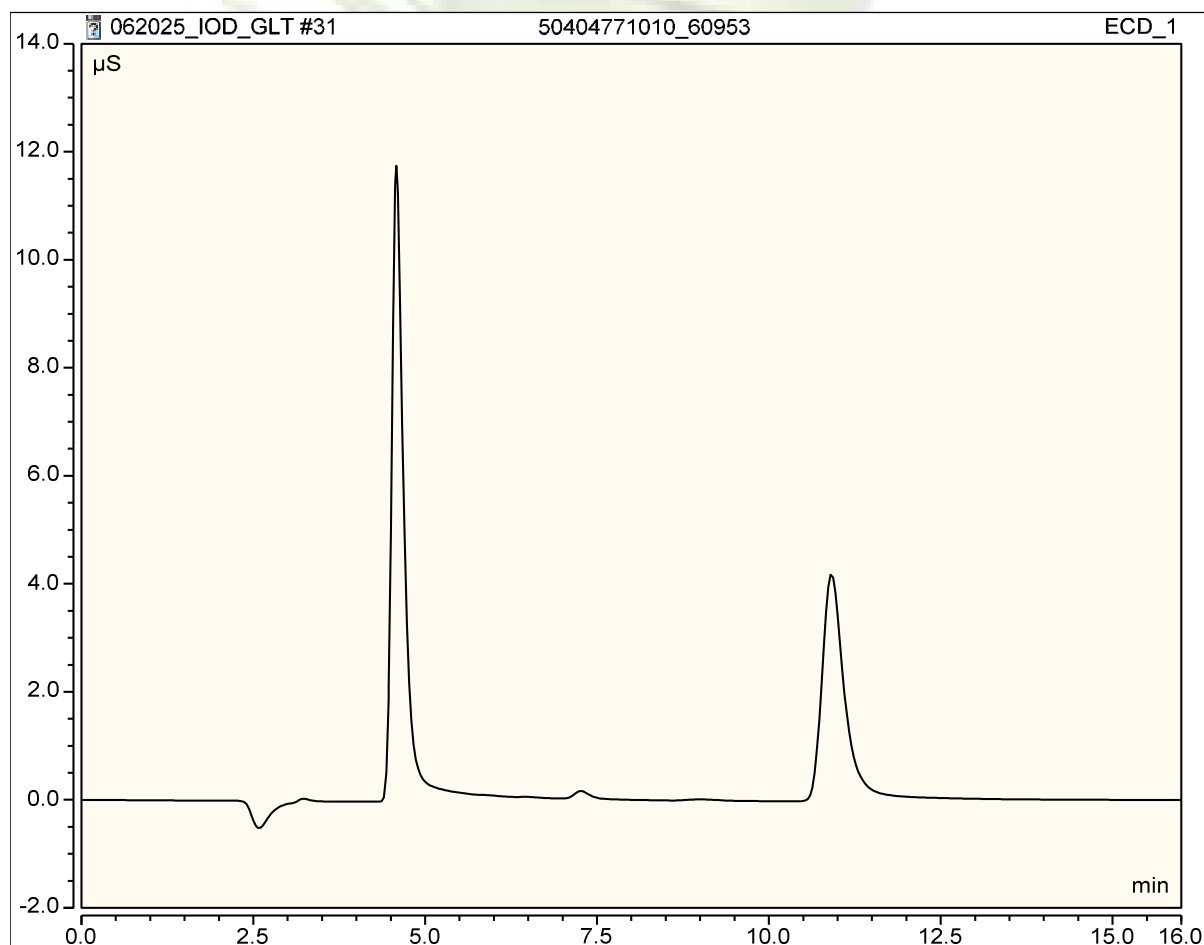
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50404771010_60953

Sample Name:	50404771010_60953	Injection Volume (uL):	25.00
Vial Number:	BC7	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 04:09	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

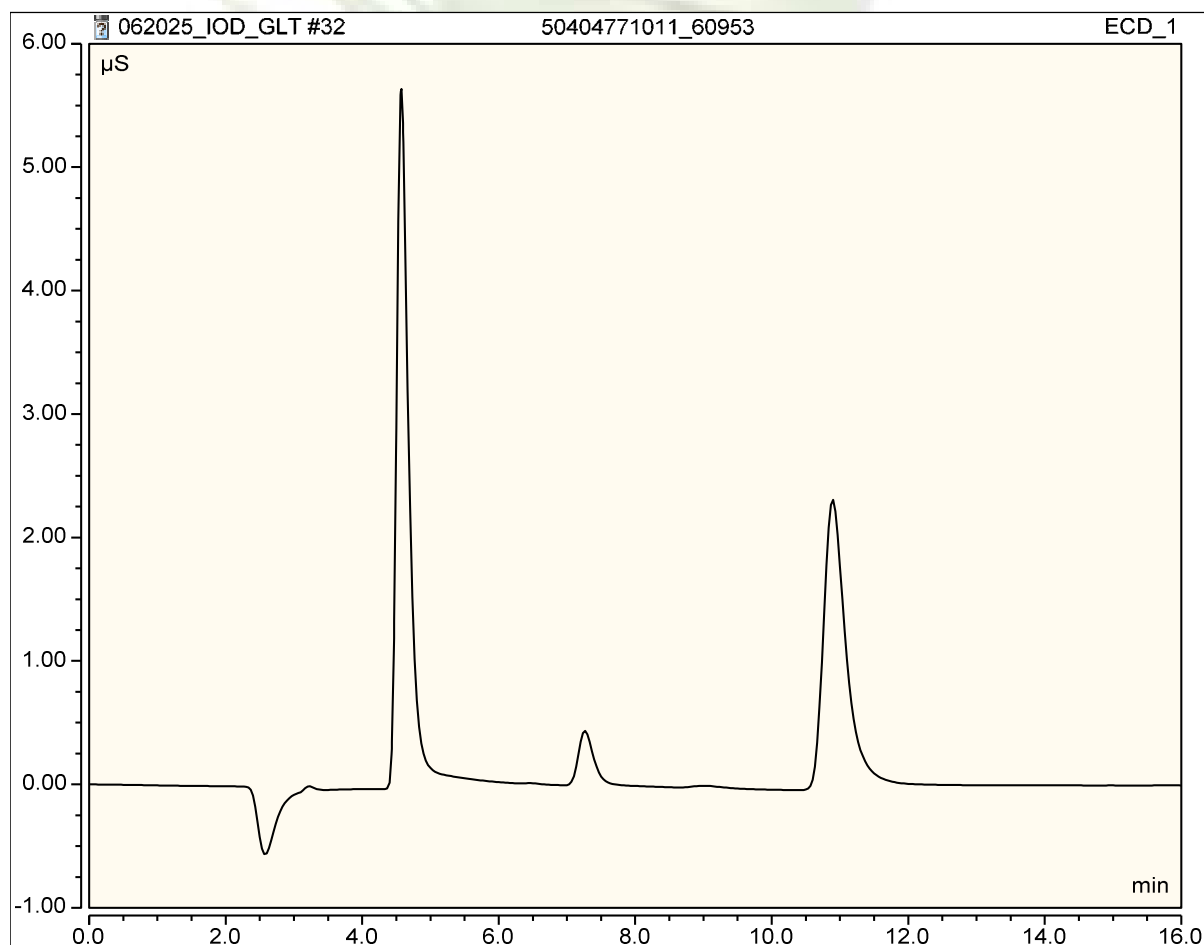
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50404771011_60953

Sample Name:	50404771011_60953	Injection Volume (uL):	25.00
Vial Number:	BC8	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 04:28	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

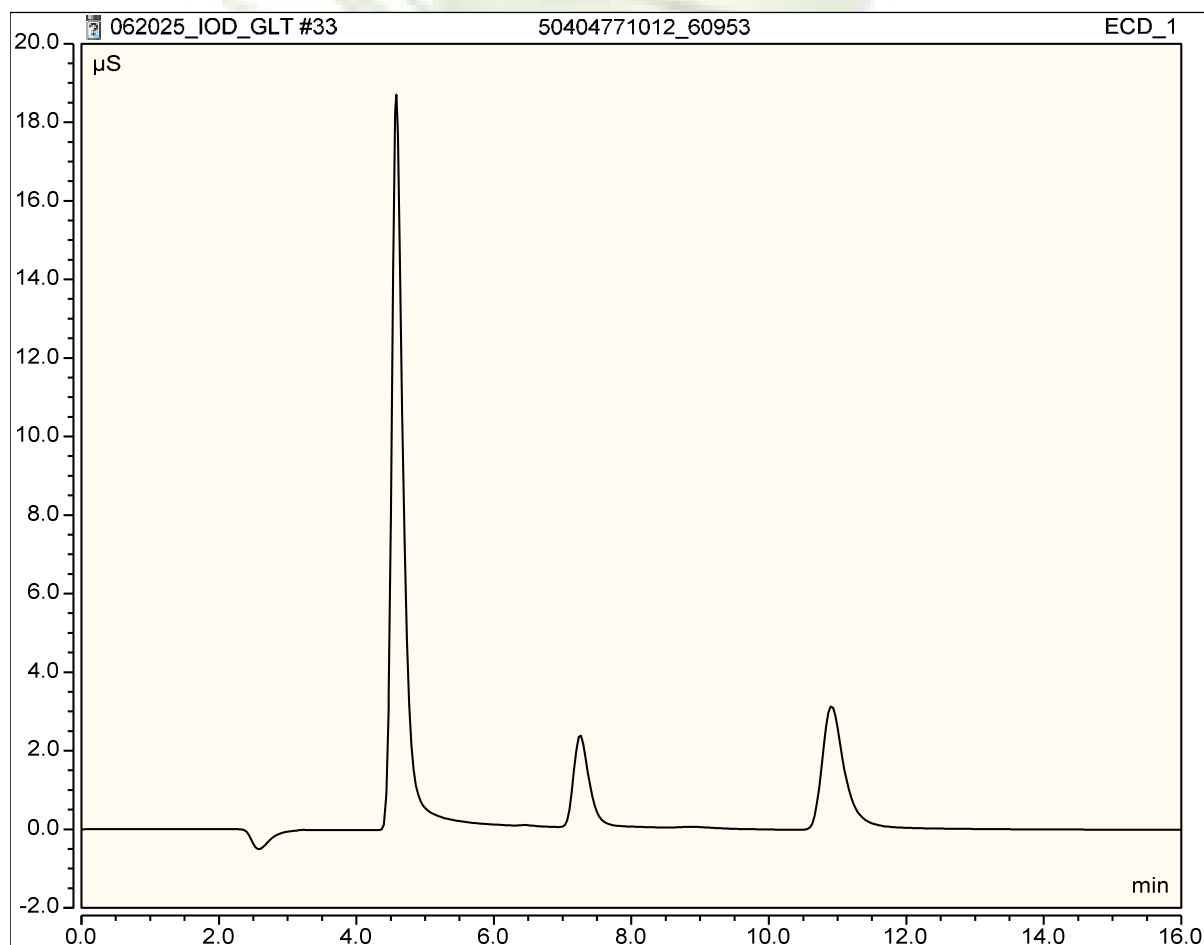
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50404771012_60953

Sample Name:	50404771012_60953	Injection Volume (uL):	25.00
Vial Number:	BD1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 04:47	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

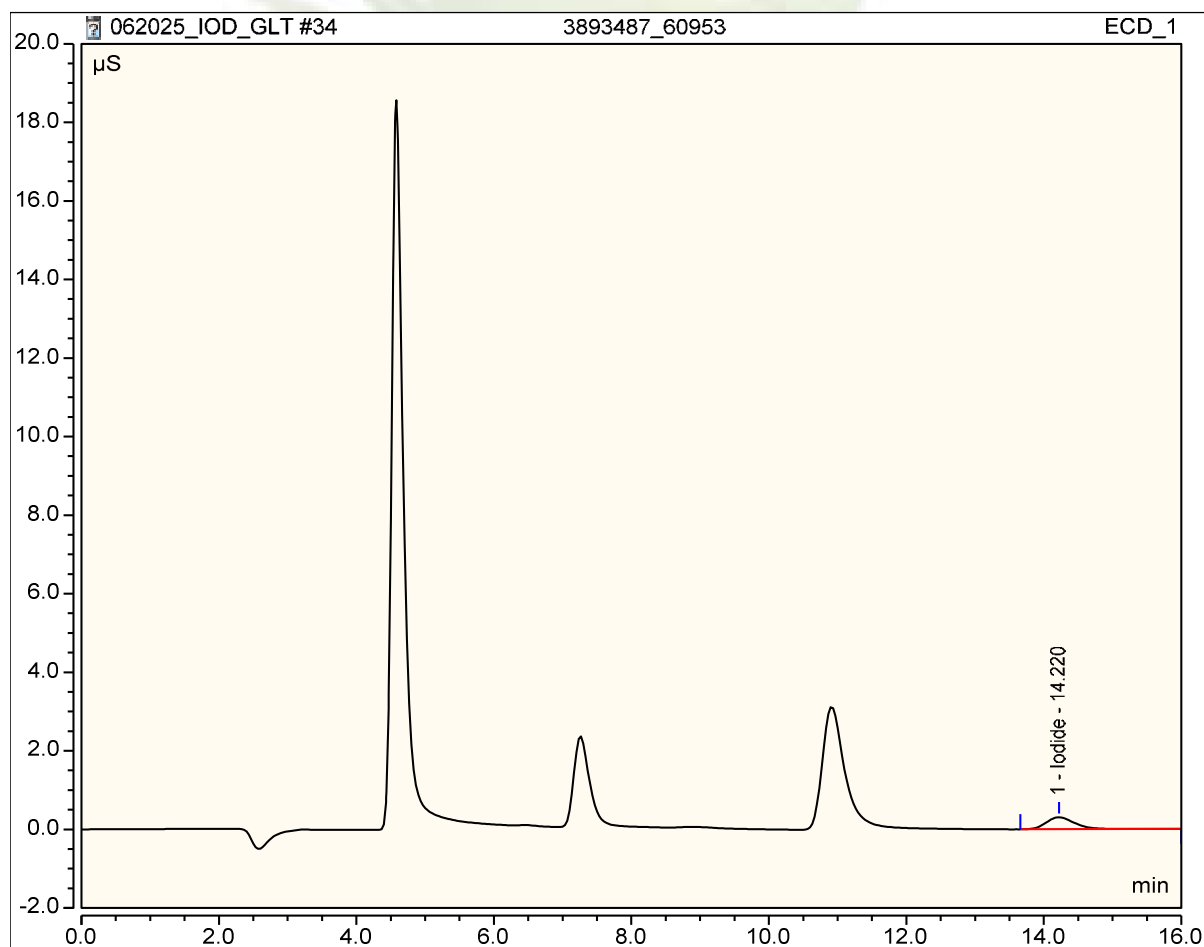
No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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3893487_60953 **377680**

Sample Name:	3893487_60953	Injection Volume (uL):	25.00
Vial Number:	BD2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 05:06	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

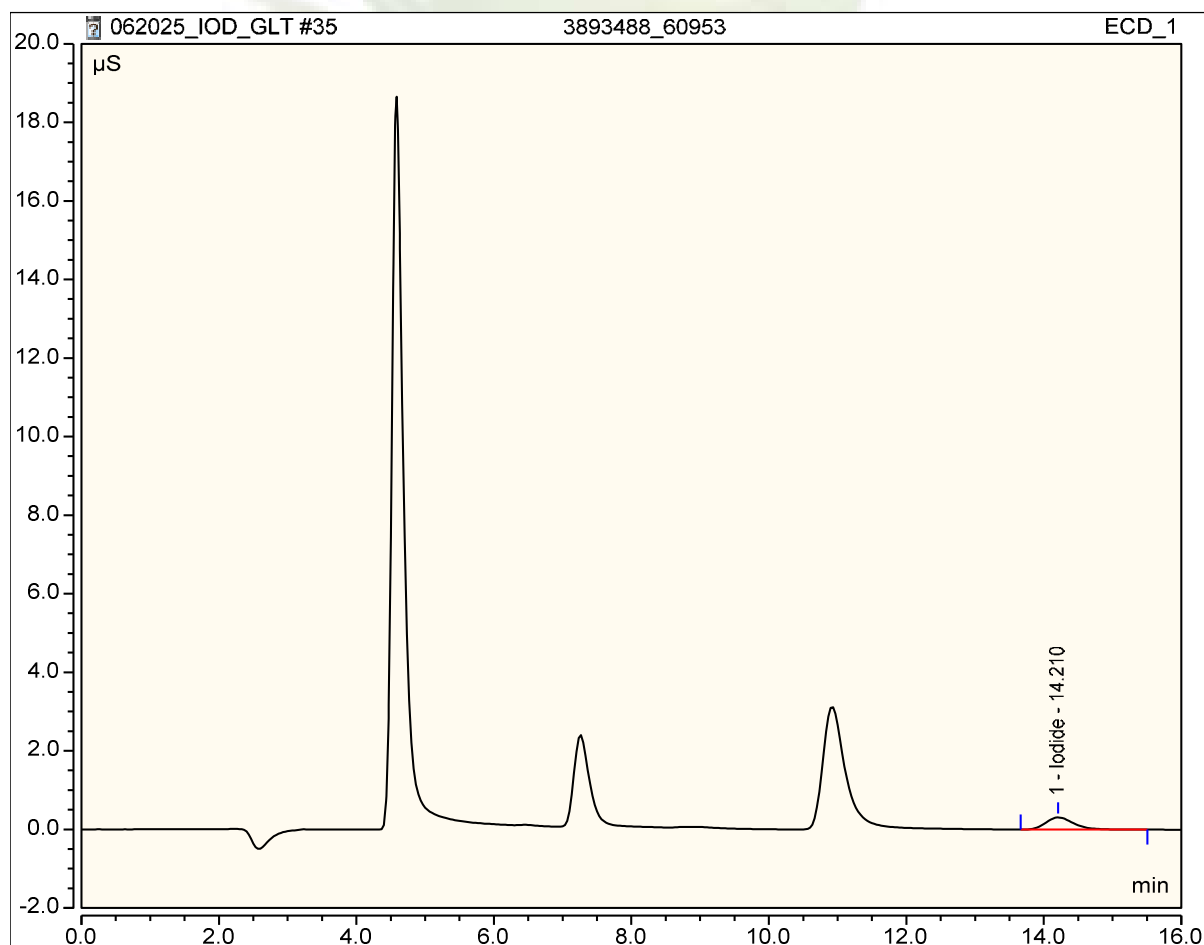
No.	Retention Time min	Name	Amount mg/L	Area μS*min	Height μS	Type
1	14.22	Iodide	4.6543	0.151	0.307	BMB



3893488_60953 377680

Sample Name:	3893488_60953	Injection Volume (uL):	25.00
Vial Number:	BD3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 05:26	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

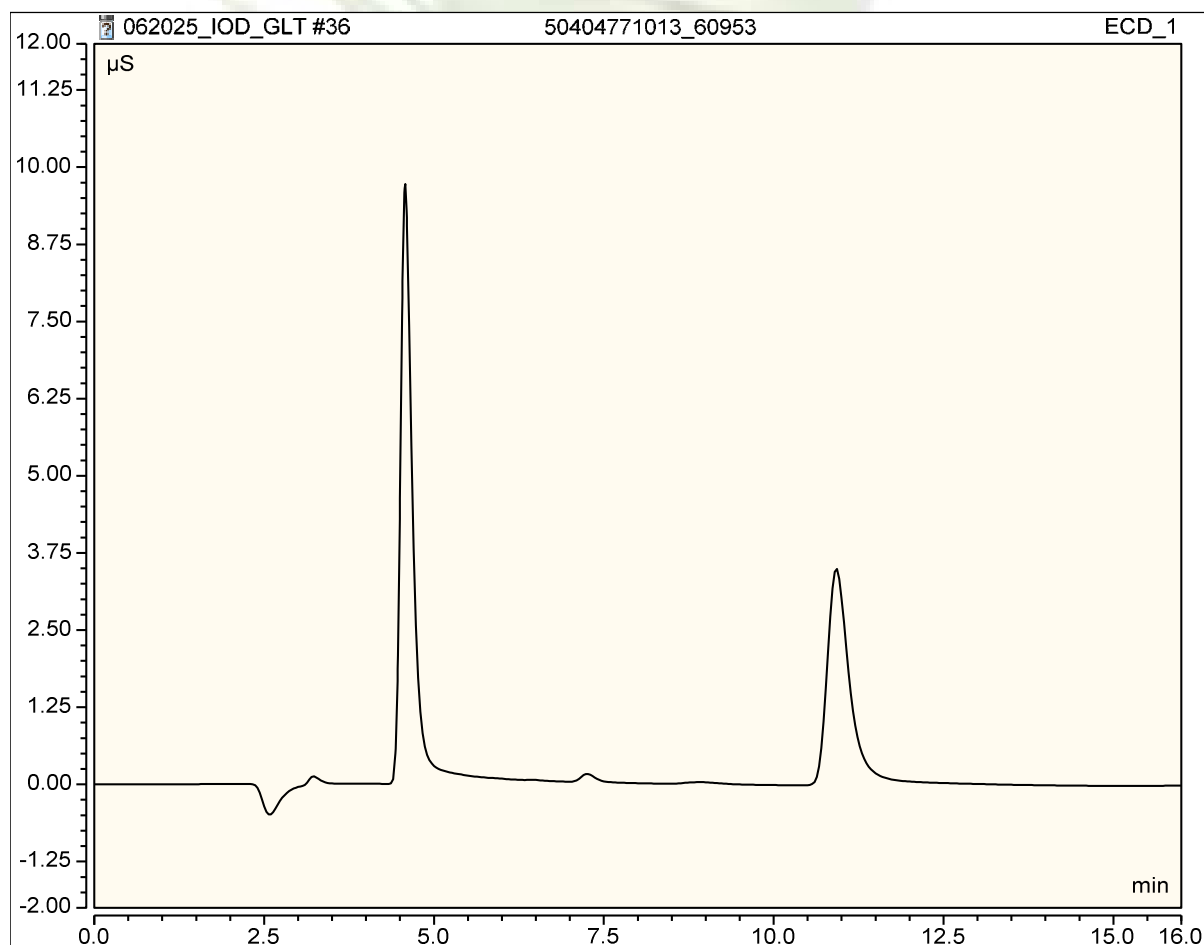
No.	Retention Time min	Name	Amount mg/L	Area μS*min	Height μS	Type
1	14.21	Iodide	4.5249	0.146	0.309	BMB



50404771013_60953

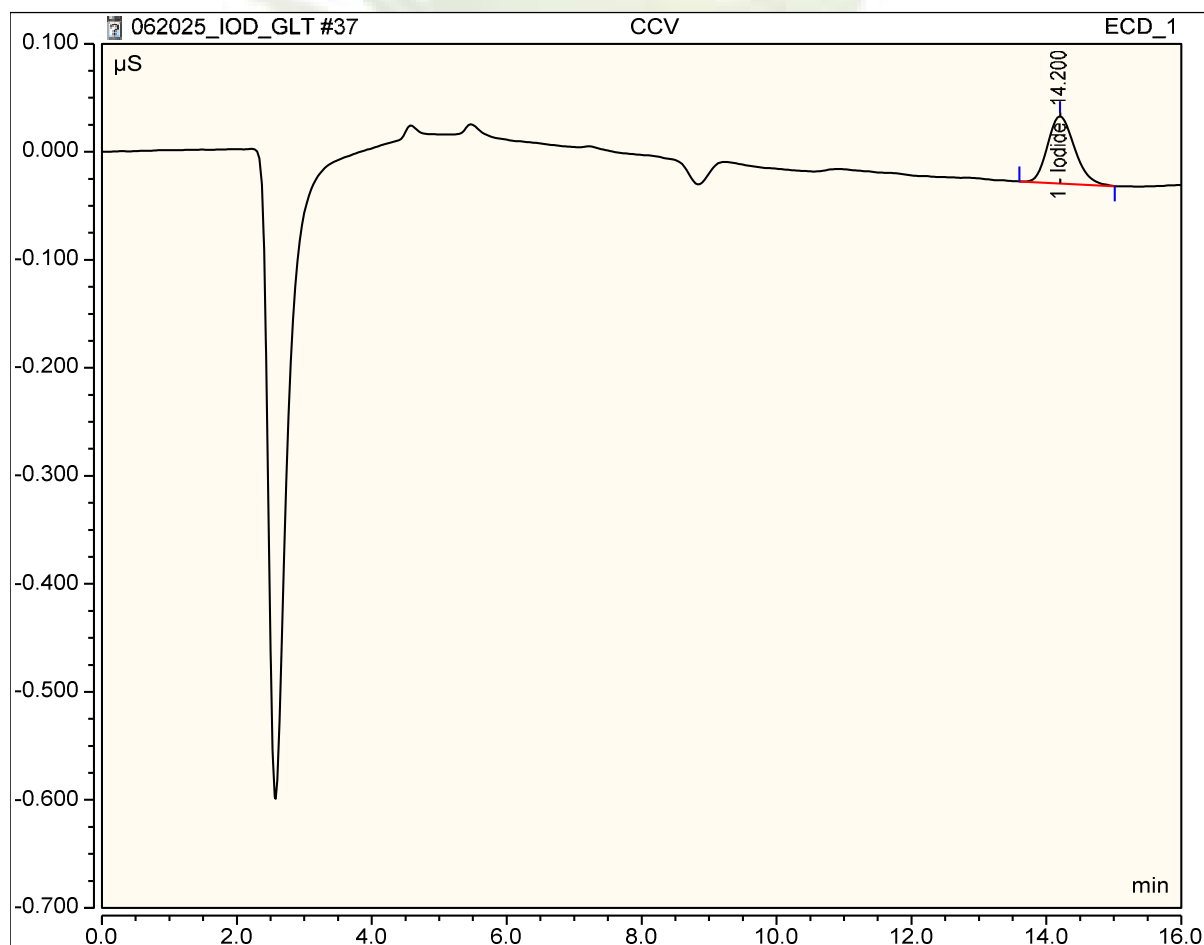
Sample Name:	50404771013_60953	Injection Volume (uL):	25.00
Vial Number:	BD4	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 05:45	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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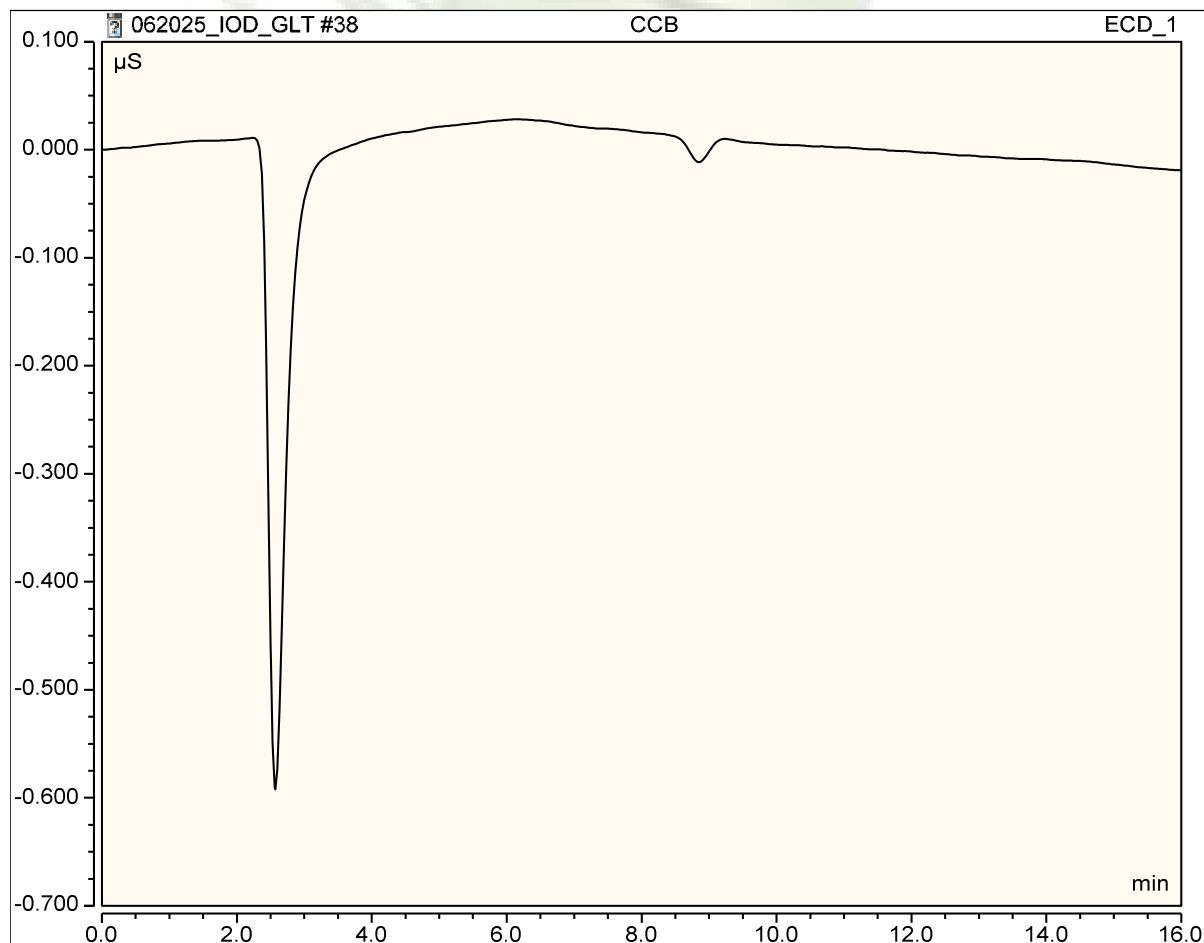
CCV			
412749			
Sample Name:	CCV	Injection Volume (uL):	25.00
Vial Number:	B2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 06:04	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.20	Iodide	0.9221	0.029	0.062	BMB



CCB			
340111			
Sample Name:	CCB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 06:23	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

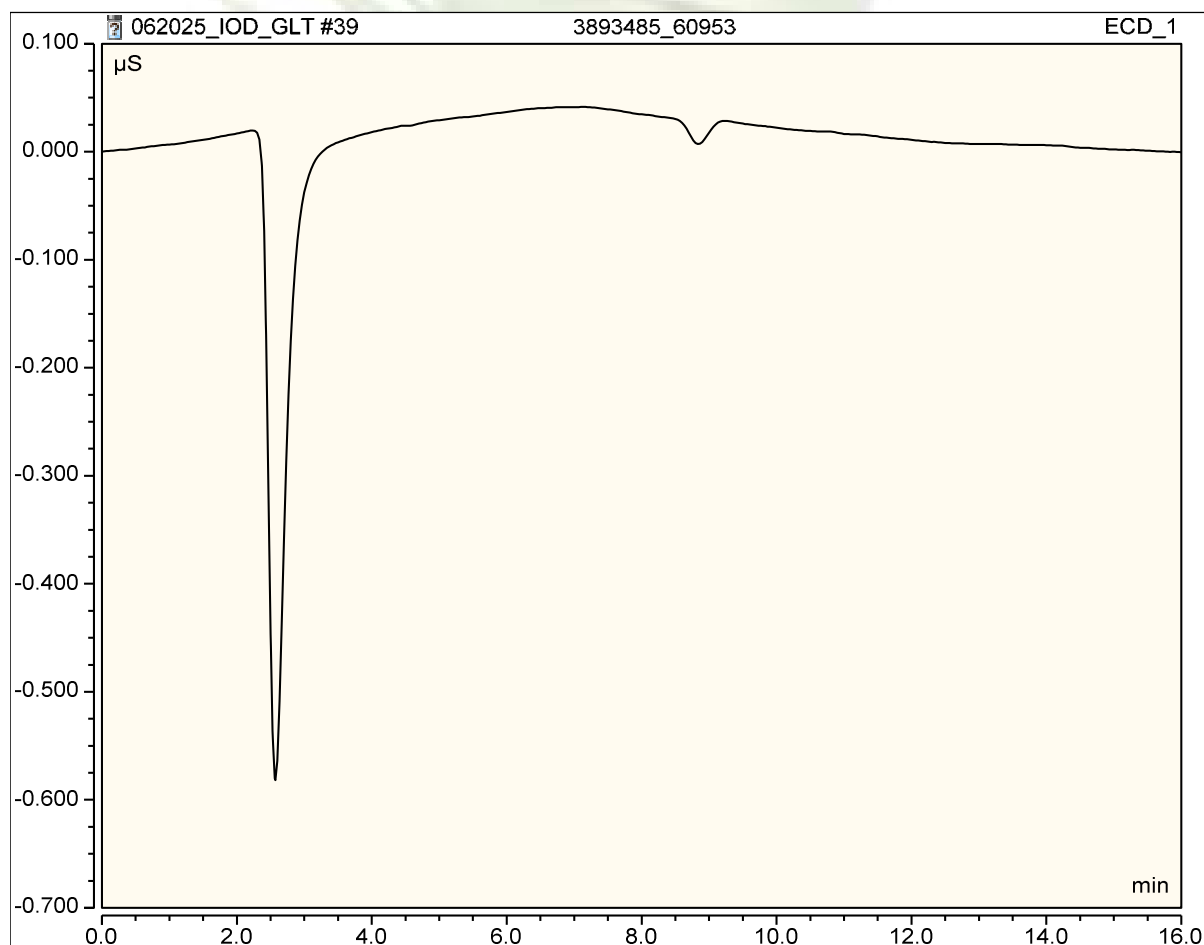
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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3893485_60953 **340111**

Sample Name:	3893485_60953	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 06:43	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

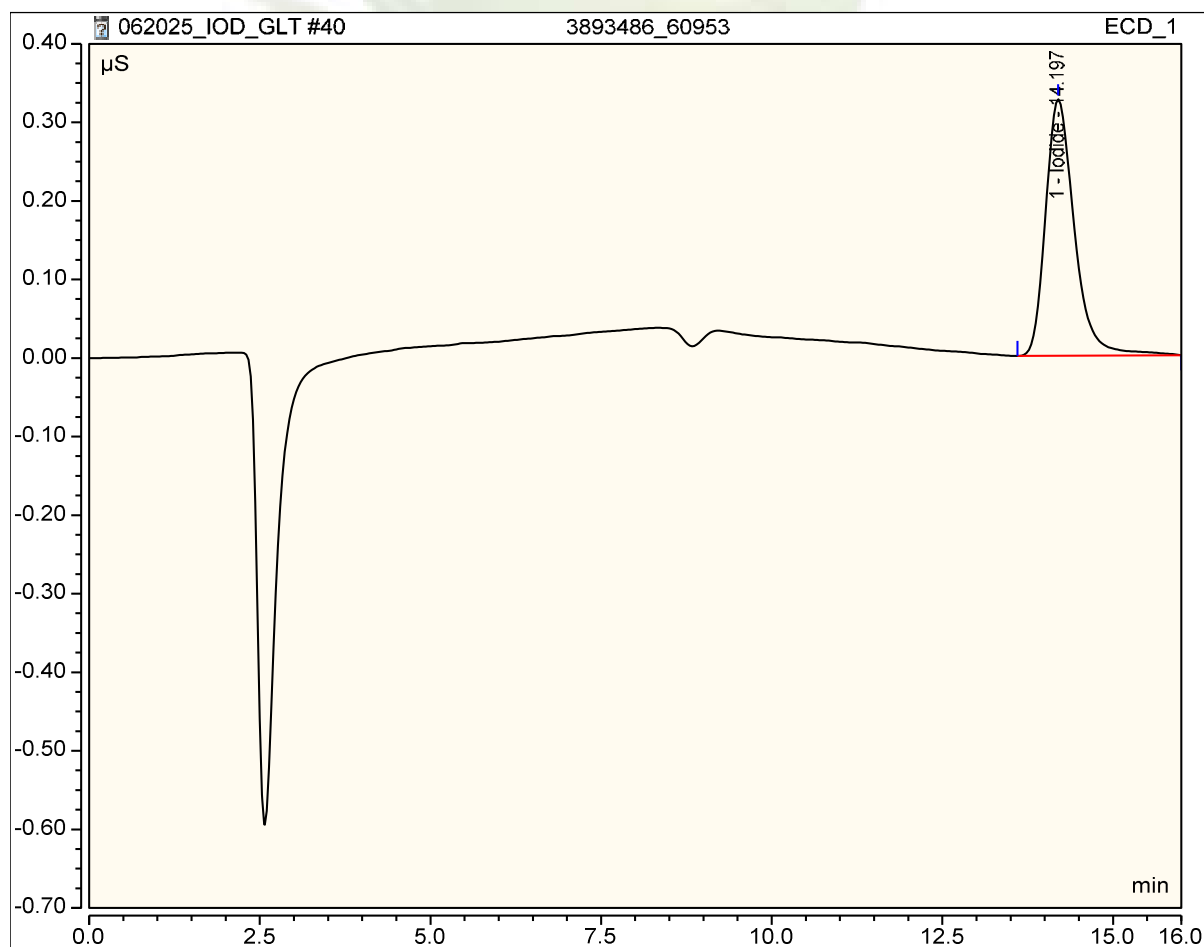
No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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3893486_60953 **377680**

Sample Name:	3893486_60953	Injection Volume (uL):	25.00
Vial Number:	B3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 07:02	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

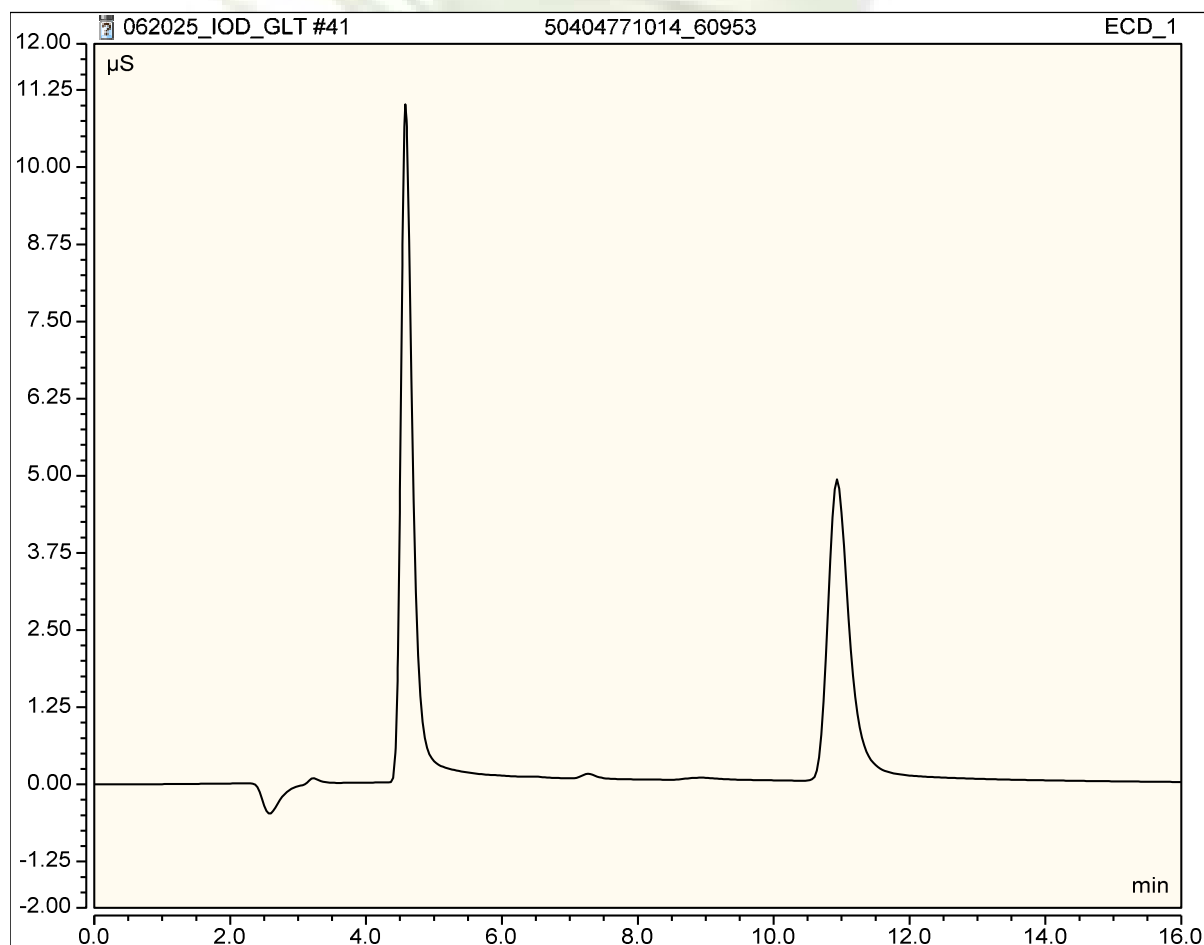
No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.20	Iodide	4.9439	0.160	0.327	BMB



50404771014_60953

Sample Name:	50404771014_60953	Injection Volume (uL):	25.00
Vial Number:	BD5	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 07:21	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

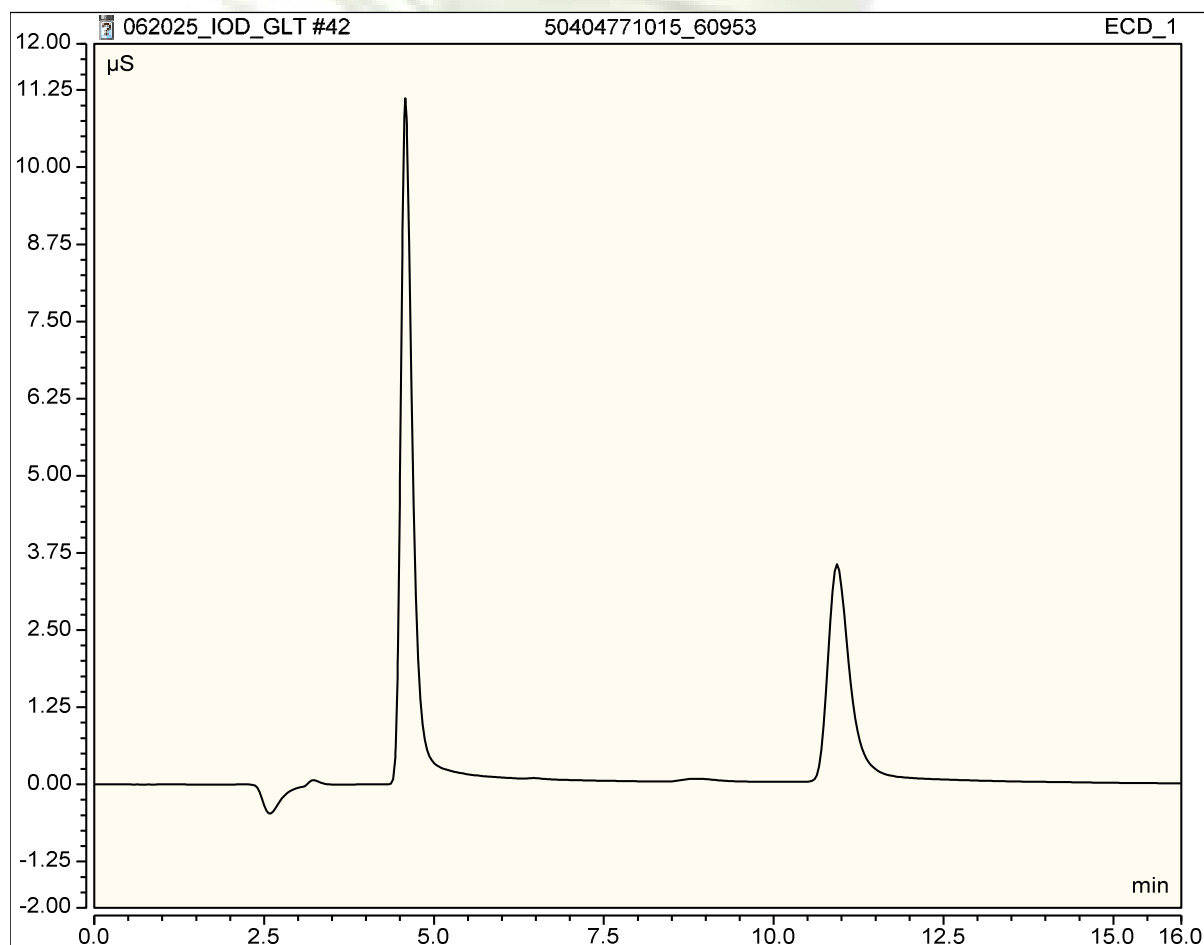
No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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50404771015_60953

Sample Name:	50404771015_60953	Injection Volume (uL):	25.00
Vial Number:	BD6	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 07:40	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

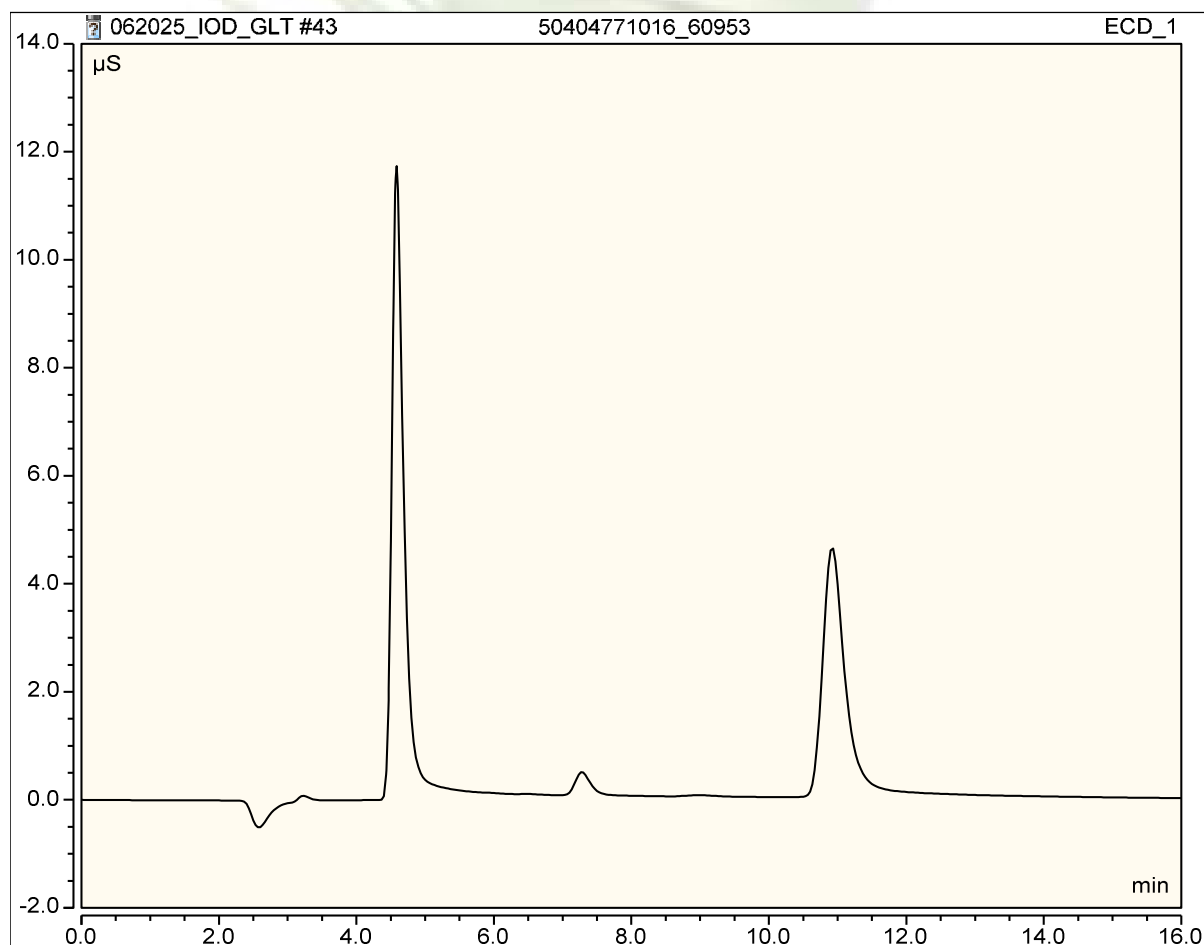
No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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50404771016_60953

Sample Name:	50404771016_60953	Injection Volume (uL):	25.00
Vial Number:	BD7	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 08:00	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

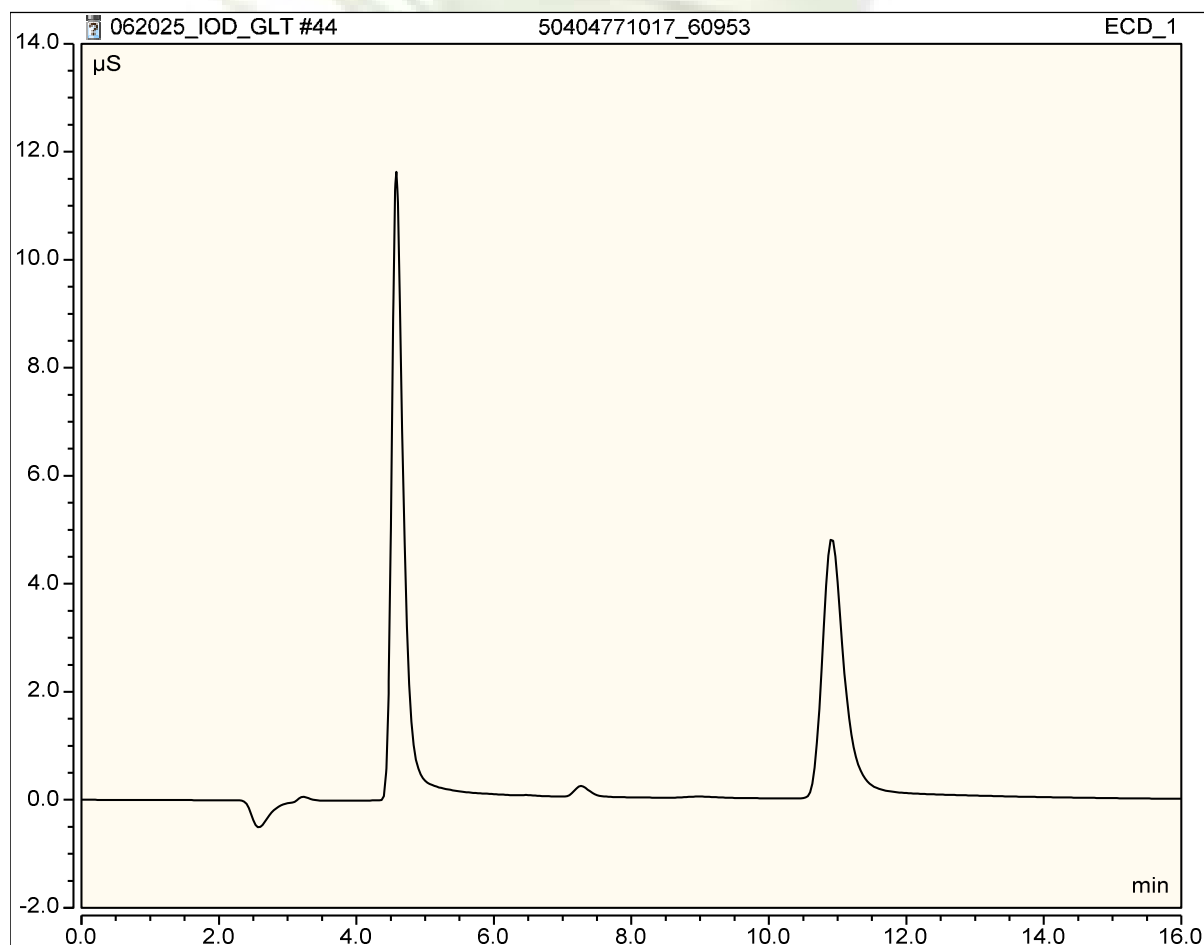
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50404771017_60953

Sample Name:	50404771017_60953	Injection Volume (uL):	25.00
Vial Number:	BD8	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 08:19	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

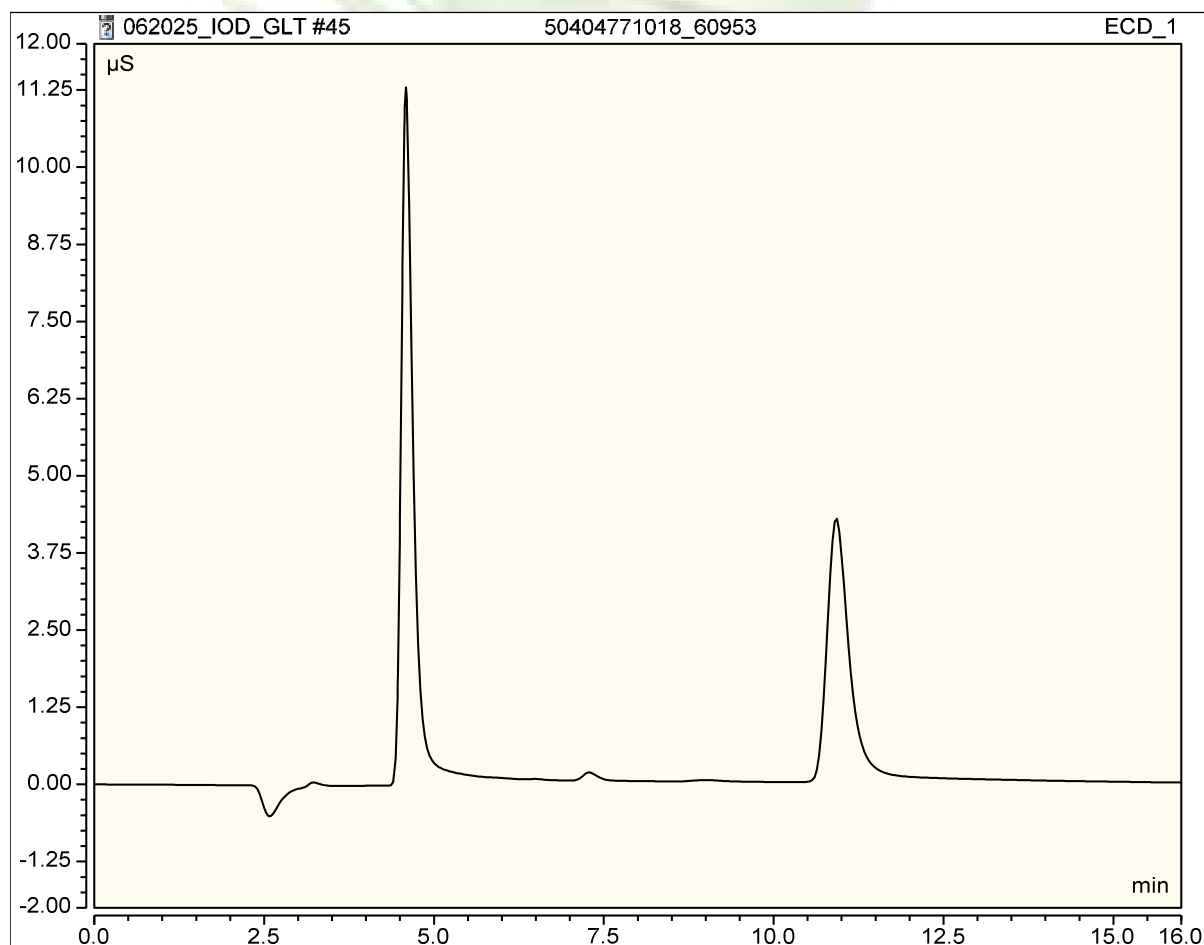
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50404771018_60953

Sample Name:	50404771018_60953	Injection Volume (uL):	25.00
Vial Number:	BE1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 08:38	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

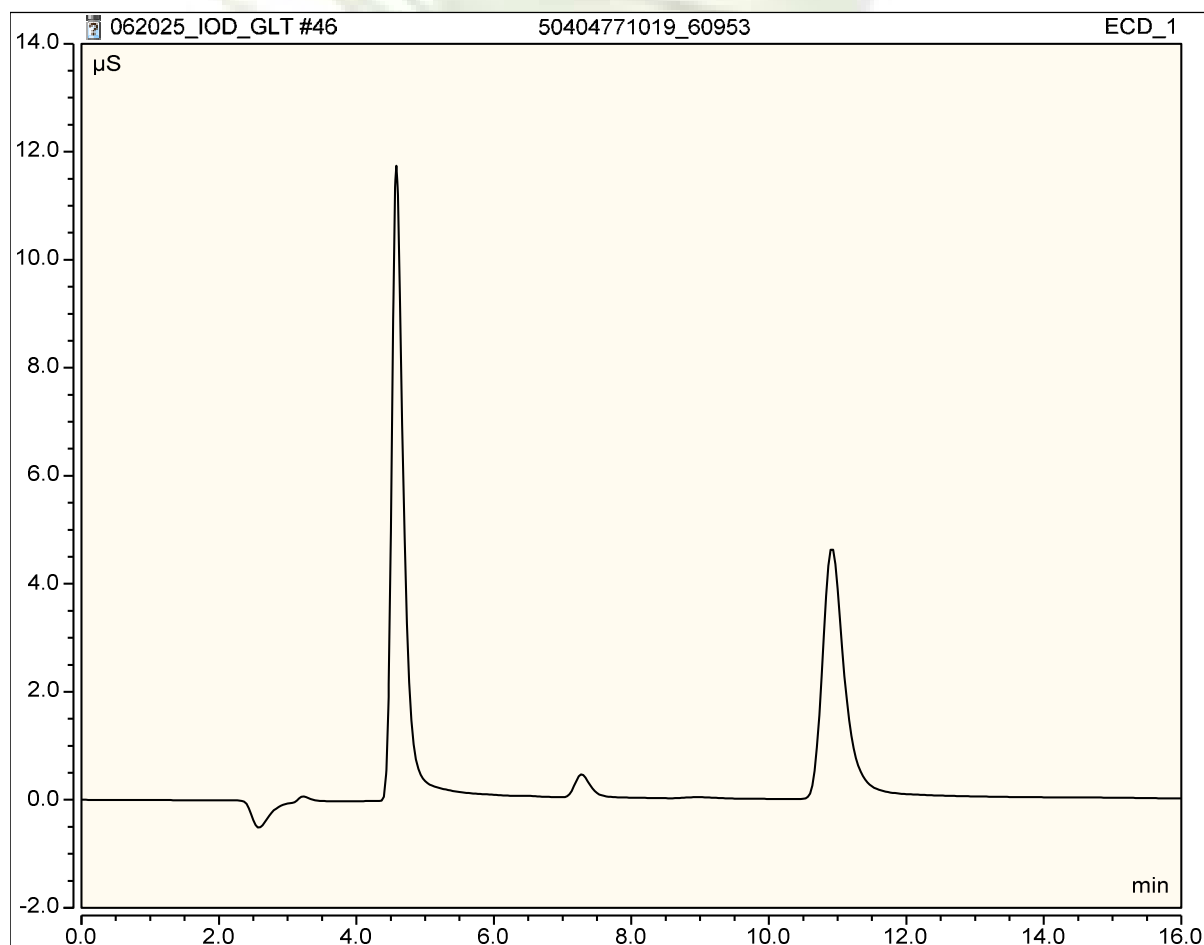
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50404771019_60953

Sample Name:	50404771019_60953	Injection Volume (uL):	25.00
Vial Number:	BE2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 08:58	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

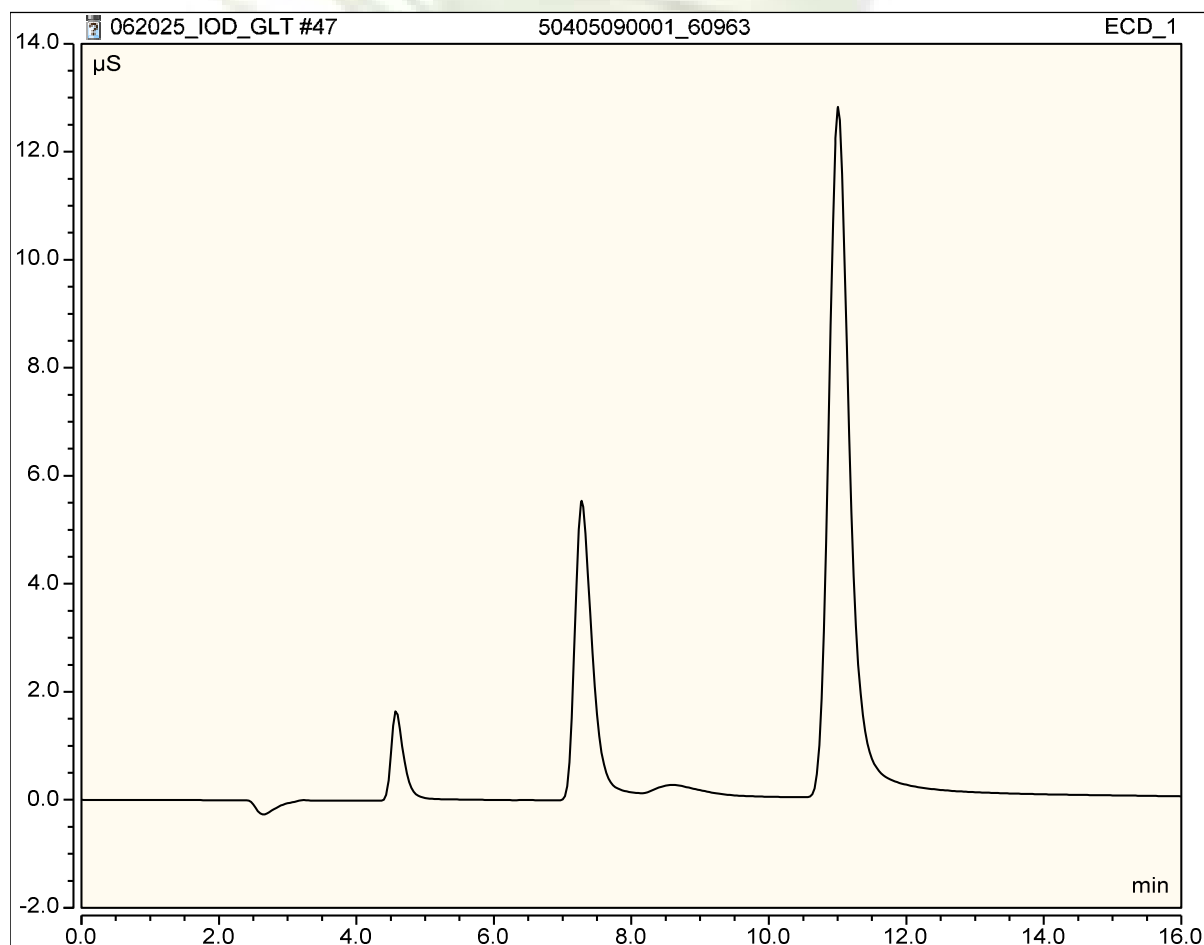
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50405090001_60963

Sample Name:	50405090001_60963	Injection Volume (uL):	25.00
Vial Number:	BE3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 09:17	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

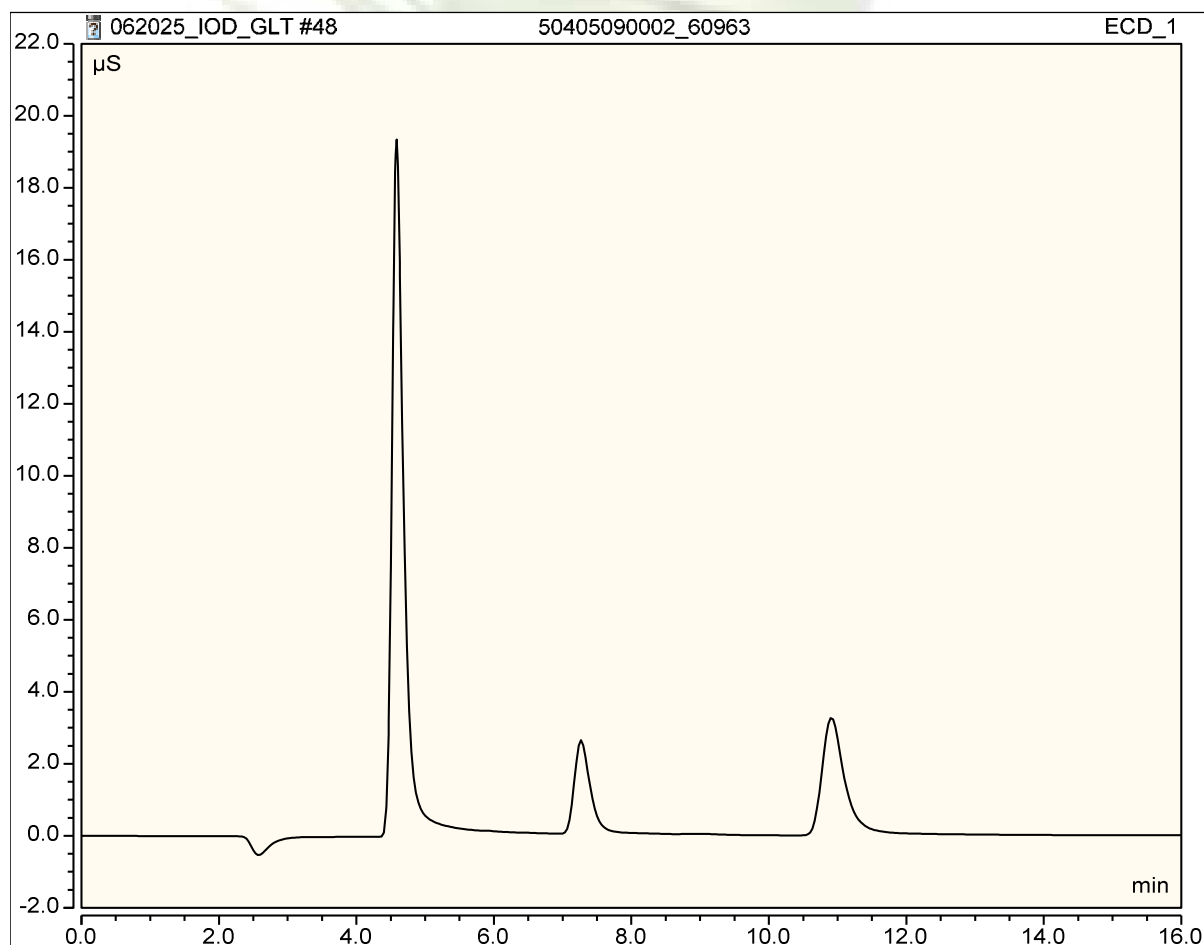
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50405090002_60963

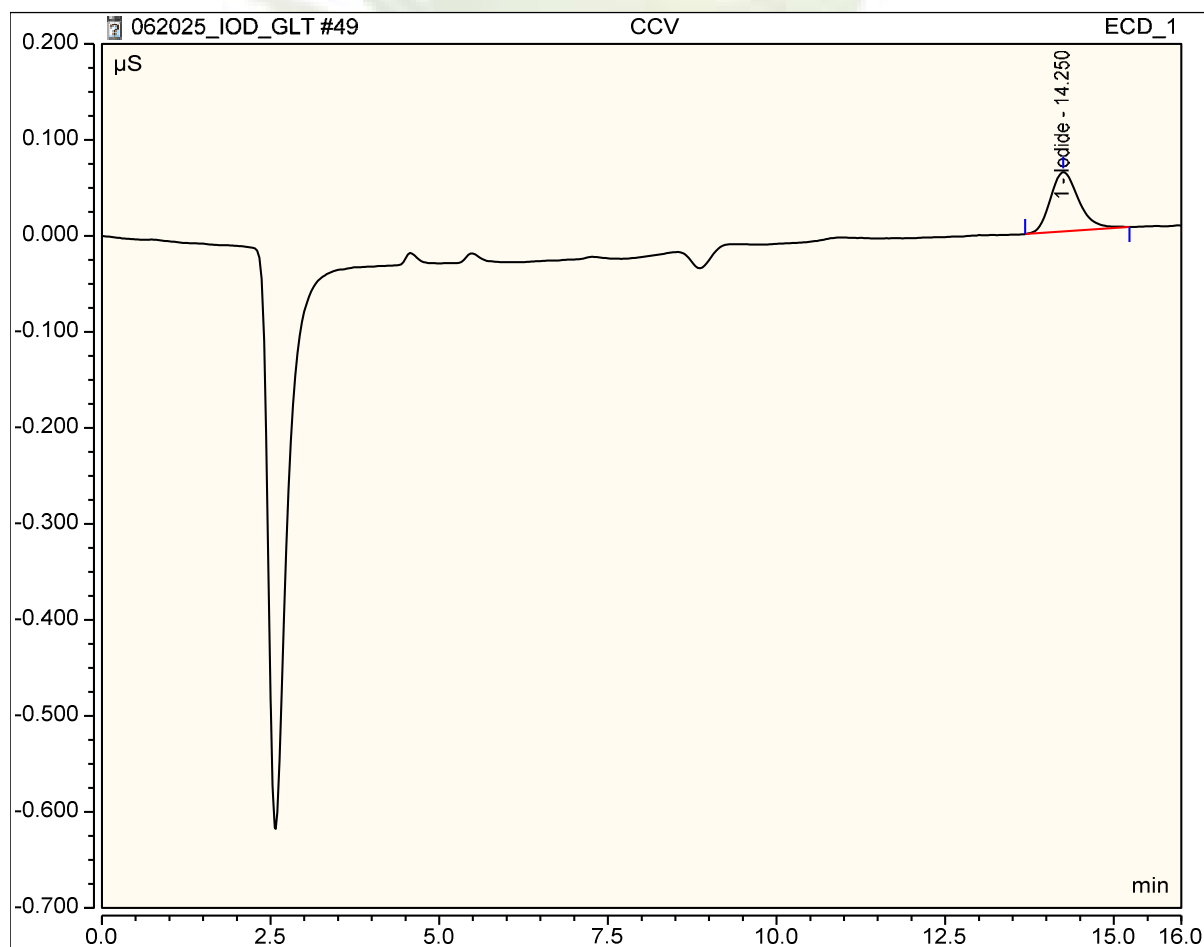
Sample Name:	50405090002_60963	Injection Volume (uL):	25.00
Vial Number:	BE4	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 09:36	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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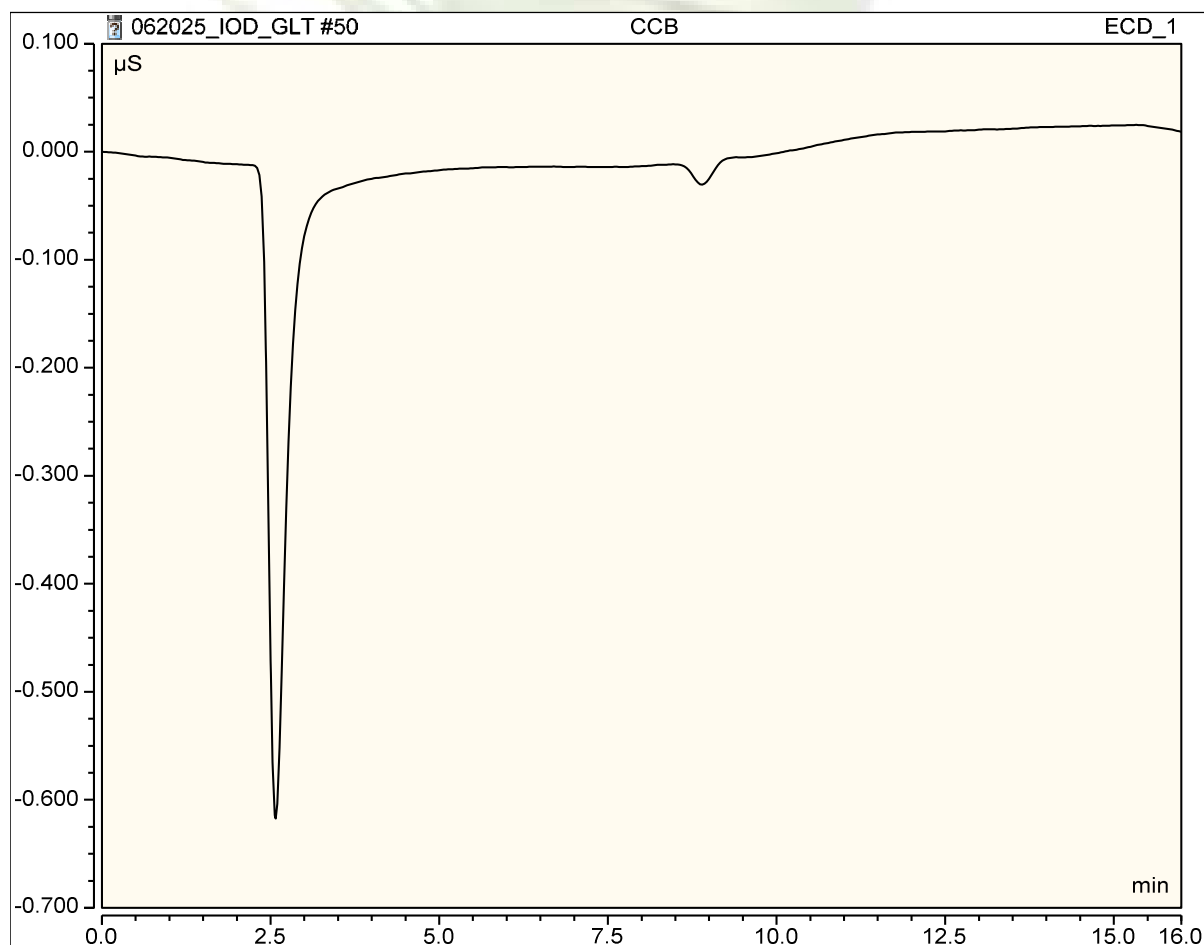
CCV			
412749			
Sample Name:	CCV	Injection Volume (uL):	25.00
Vial Number:	B2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 09:55	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.25	Iodide	0.9633	0.030	0.062	BMB



CCB			
340111			
Sample Name:	CCB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 10:15	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

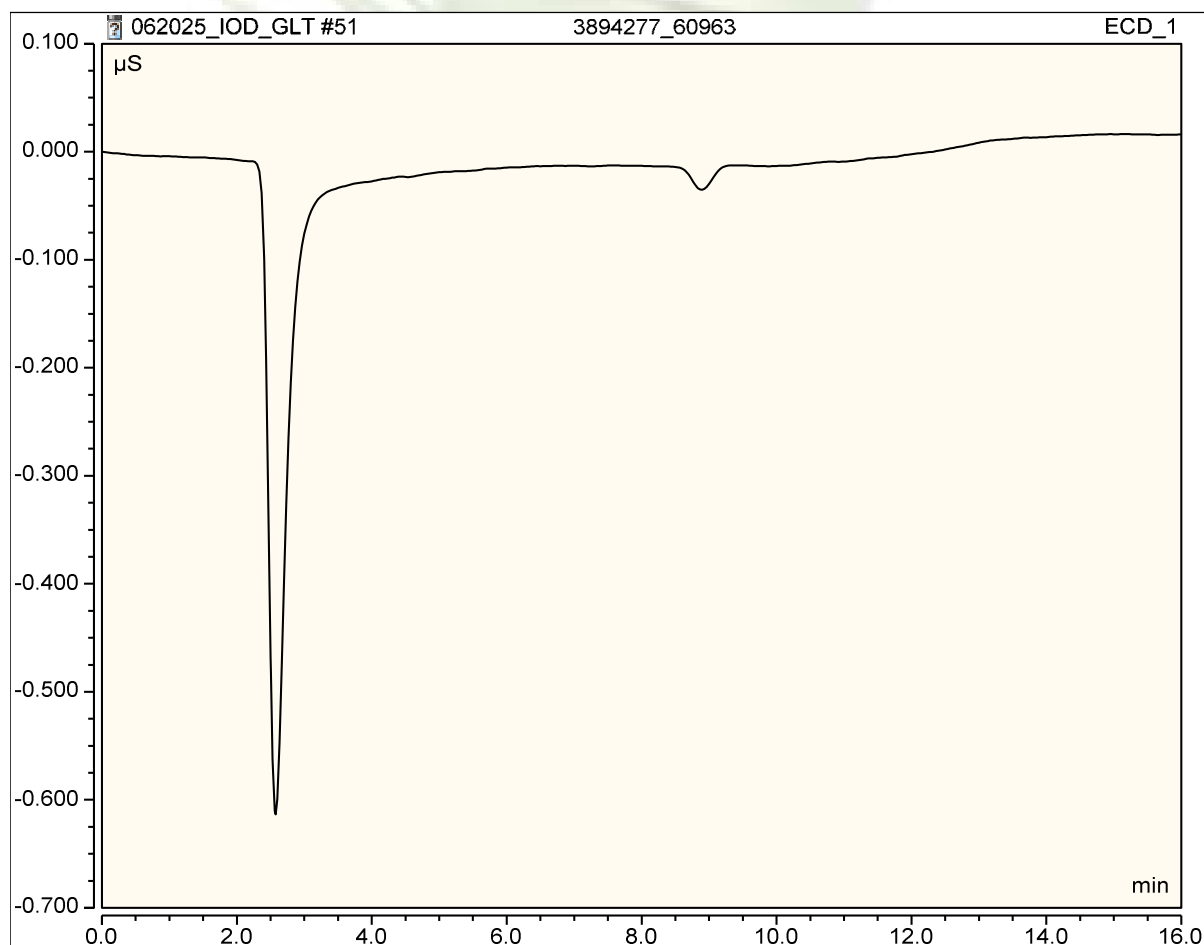
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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3894277_60963 **340111**

Sample Name:	3894277_60963	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 10:34	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

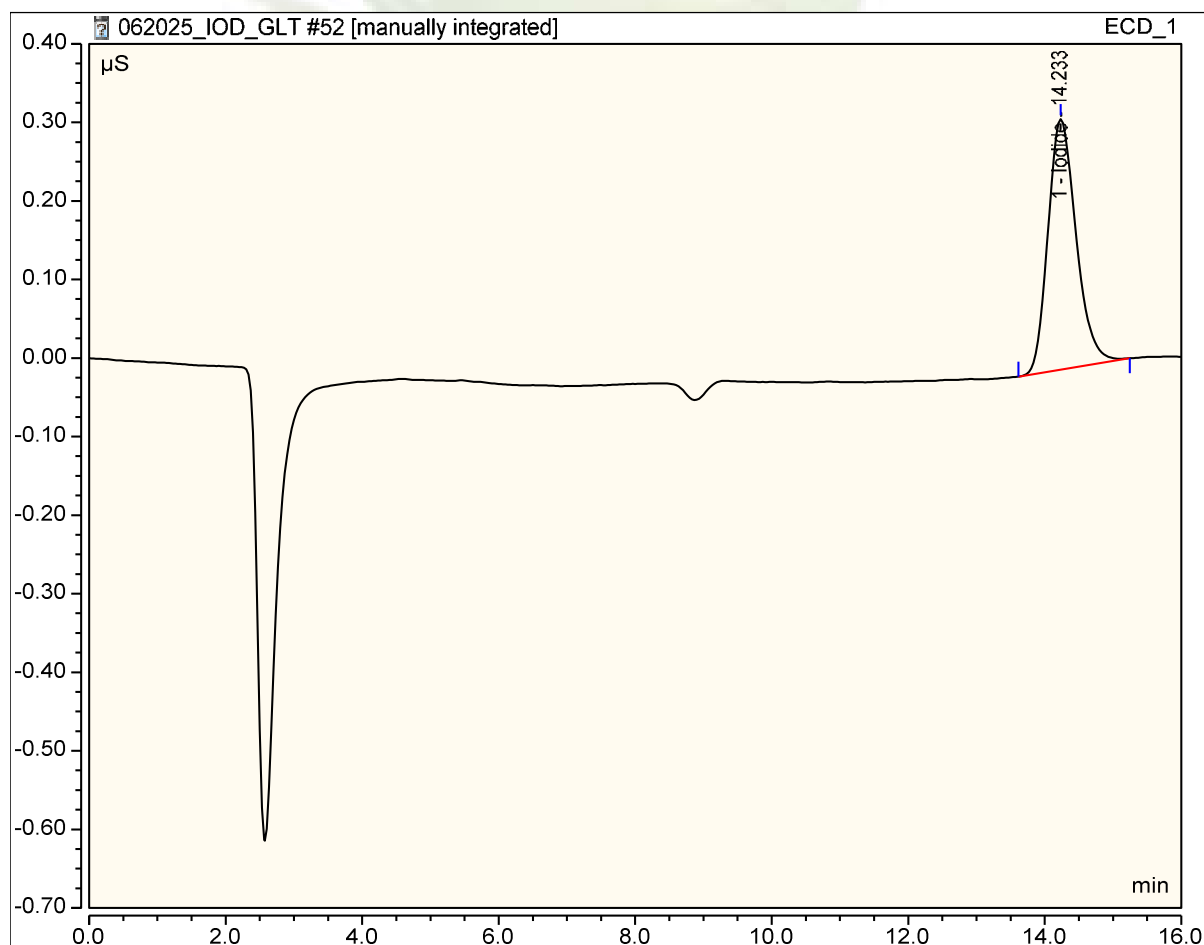
No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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3894278_60963
377680

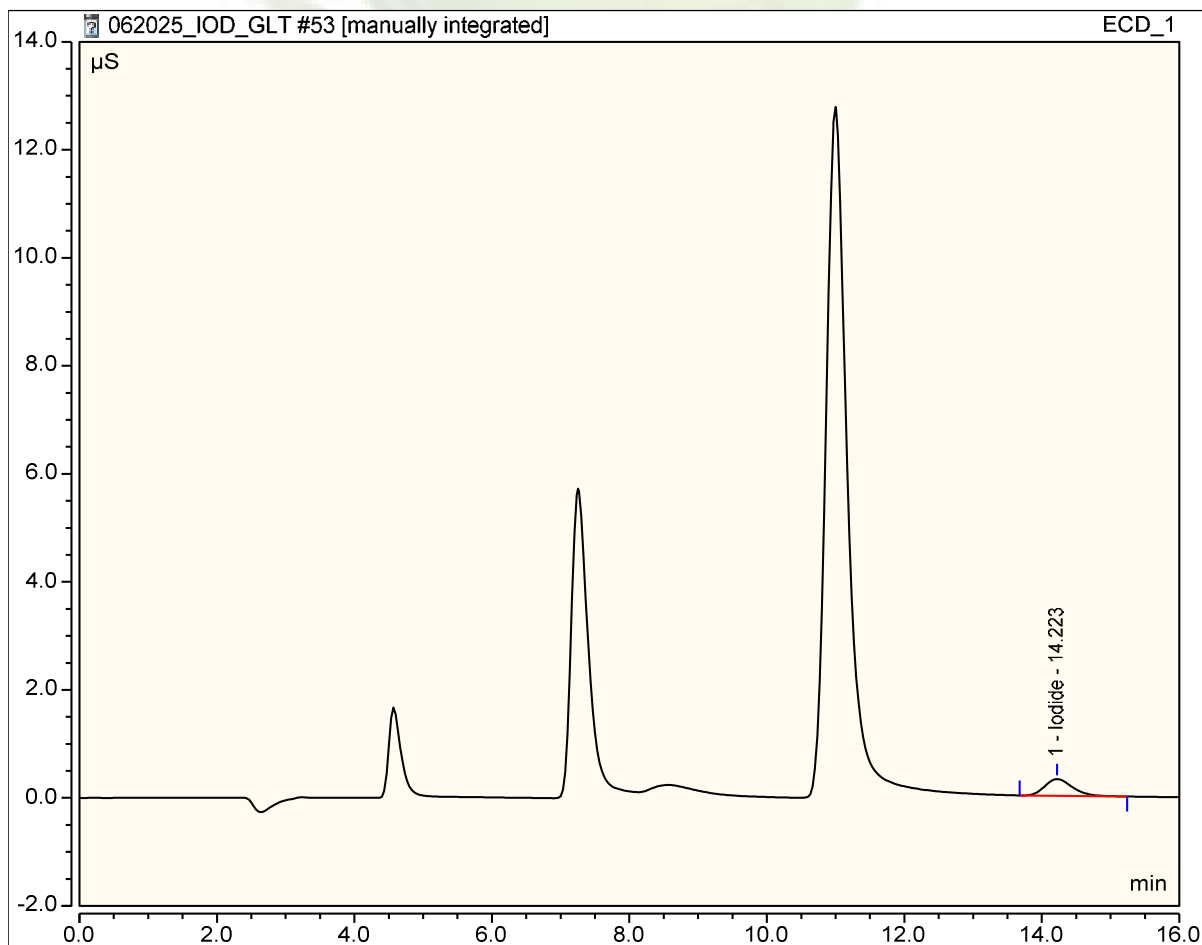
Sample Name:	3894278_60963	Injection Volume (uL):	25.00
Vial Number:	B3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 10:53	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.23	Iodide	4.6921	0.152	0.319	BMB*



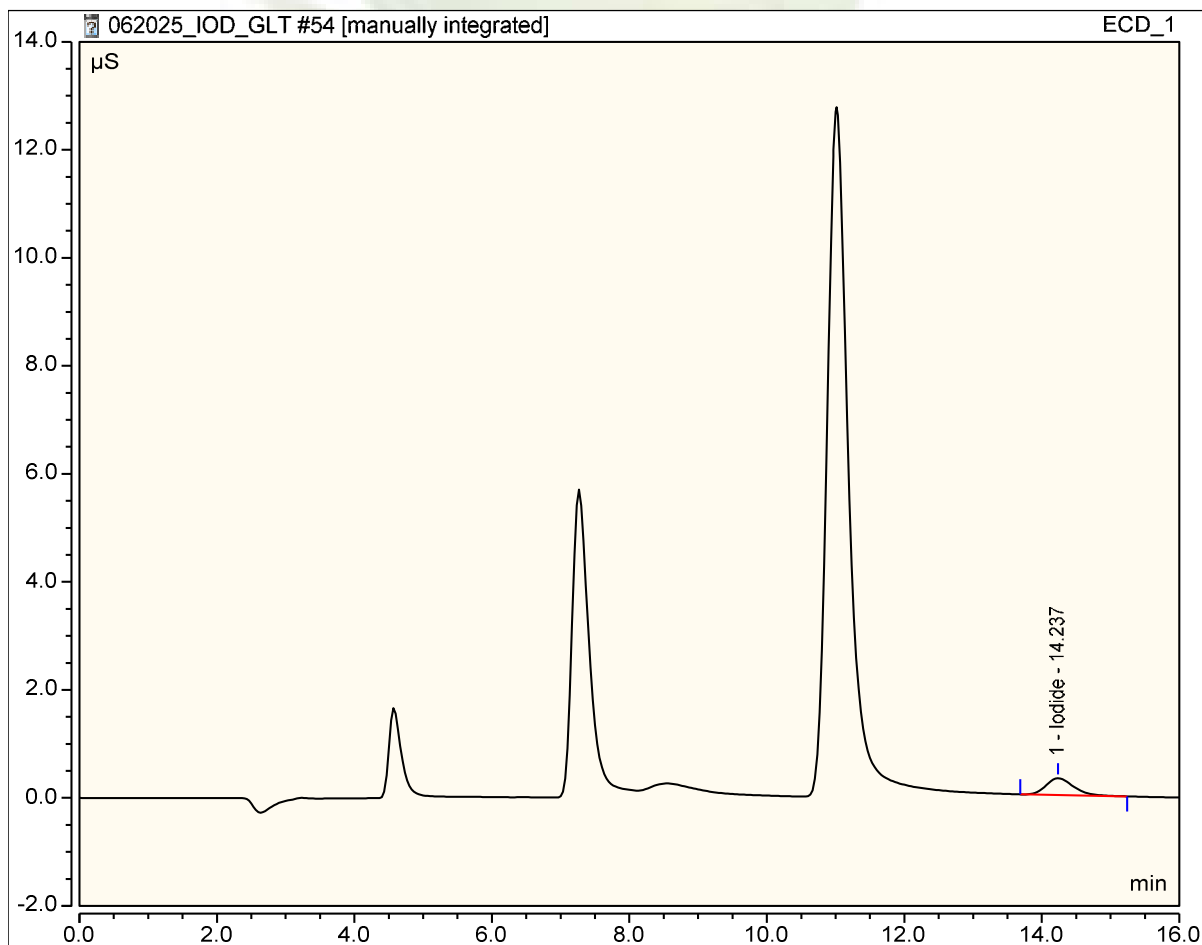
3894279_60963			
377680			
Sample Name:	3894279_60963	Injection Volume (uL):	25.00
Vial Number:	BE5	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 11:12	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area μS*min	Height μS	Type
1	14.22	Iodide	4.4787	0.145	0.310	BMB*



3894280_60963			
377680			
Sample Name:	3894280_60963	Injection Volume (uL):	25.00
Vial Number:	BE6	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 11:32	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

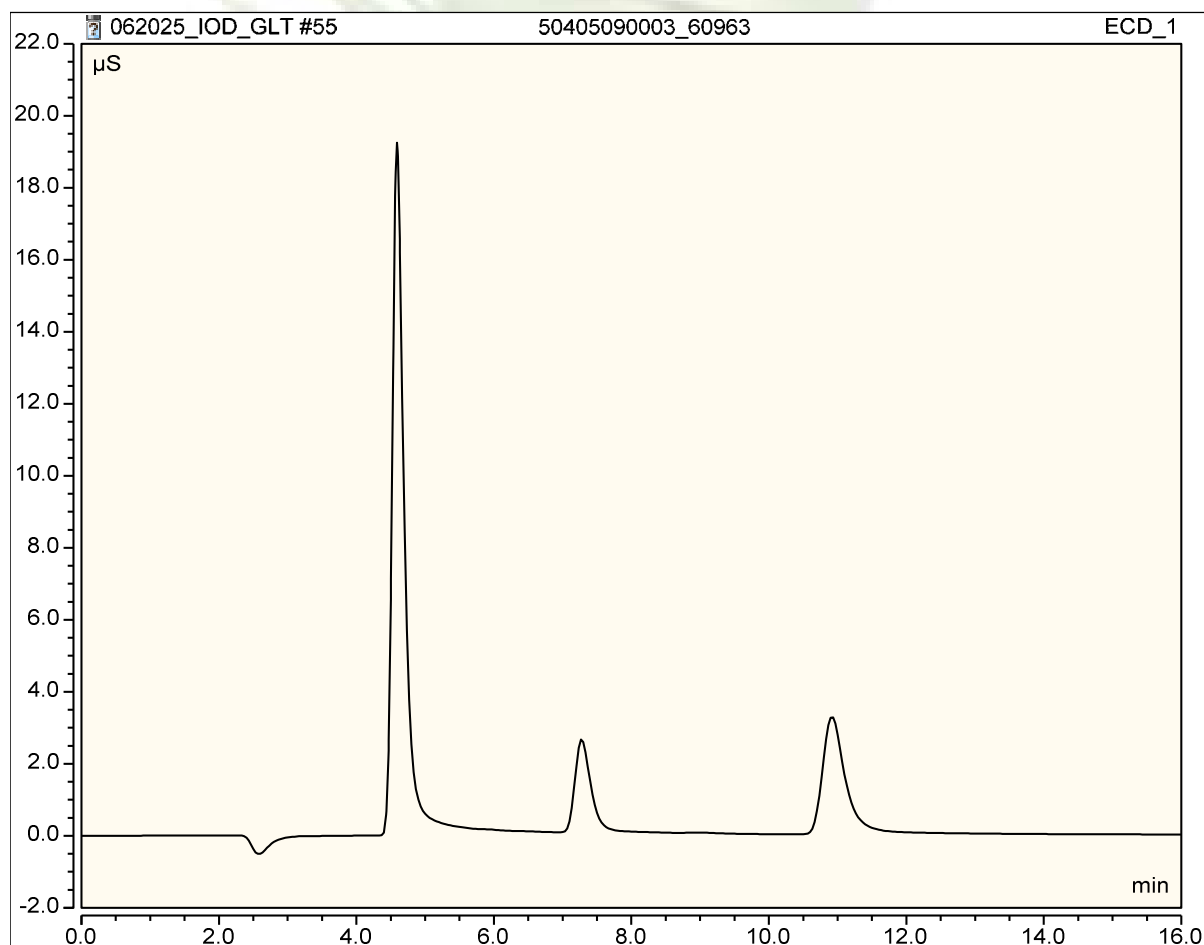
No.	Retention Time min	Name	Amount mg/L	Area μS*min	Height μS	Type
1	14.24	Iodide	4.4924	0.145	0.311	BMB*



50405090003_60963

Sample Name:	50405090003_60963	Injection Volume (uL):	25.00
Vial Number:	BE7	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 11:51	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

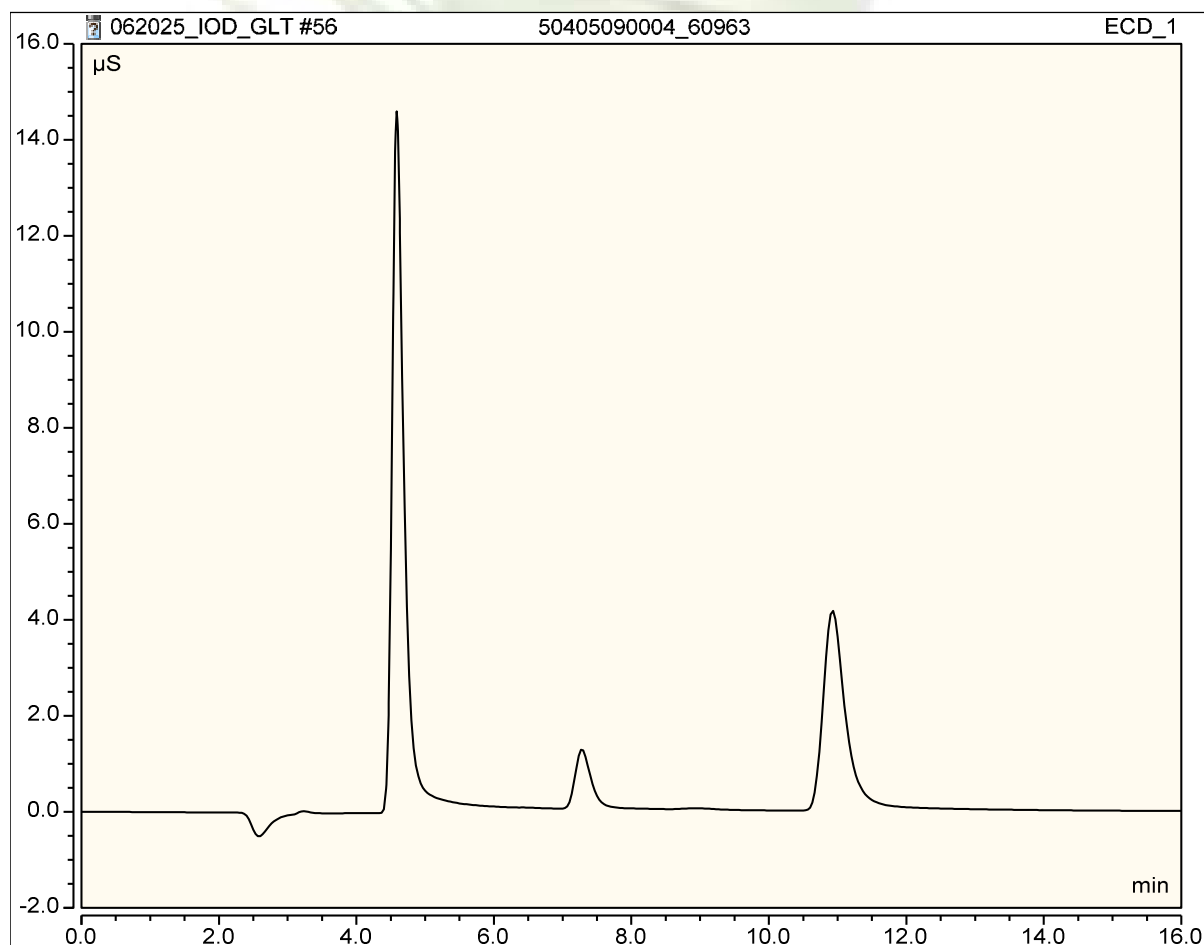
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50405090004_60963

Sample Name:	50405090004_60963	Injection Volume (uL):	25.00
Vial Number:	BE8	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 12:10	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

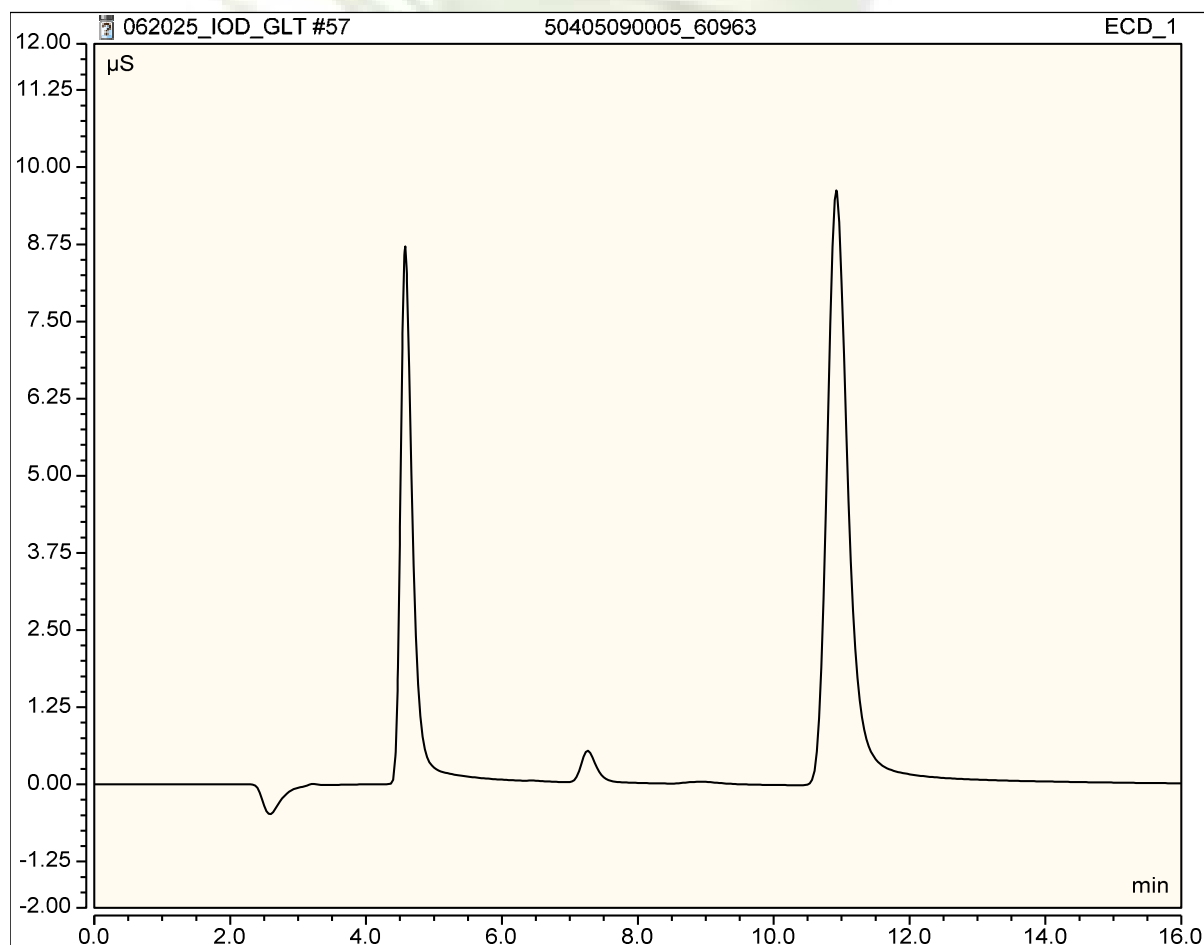
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50405090005_60963

Sample Name:	50405090005_60963	Injection Volume (uL):	25.00
Vial Number:	RA1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 12:30	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

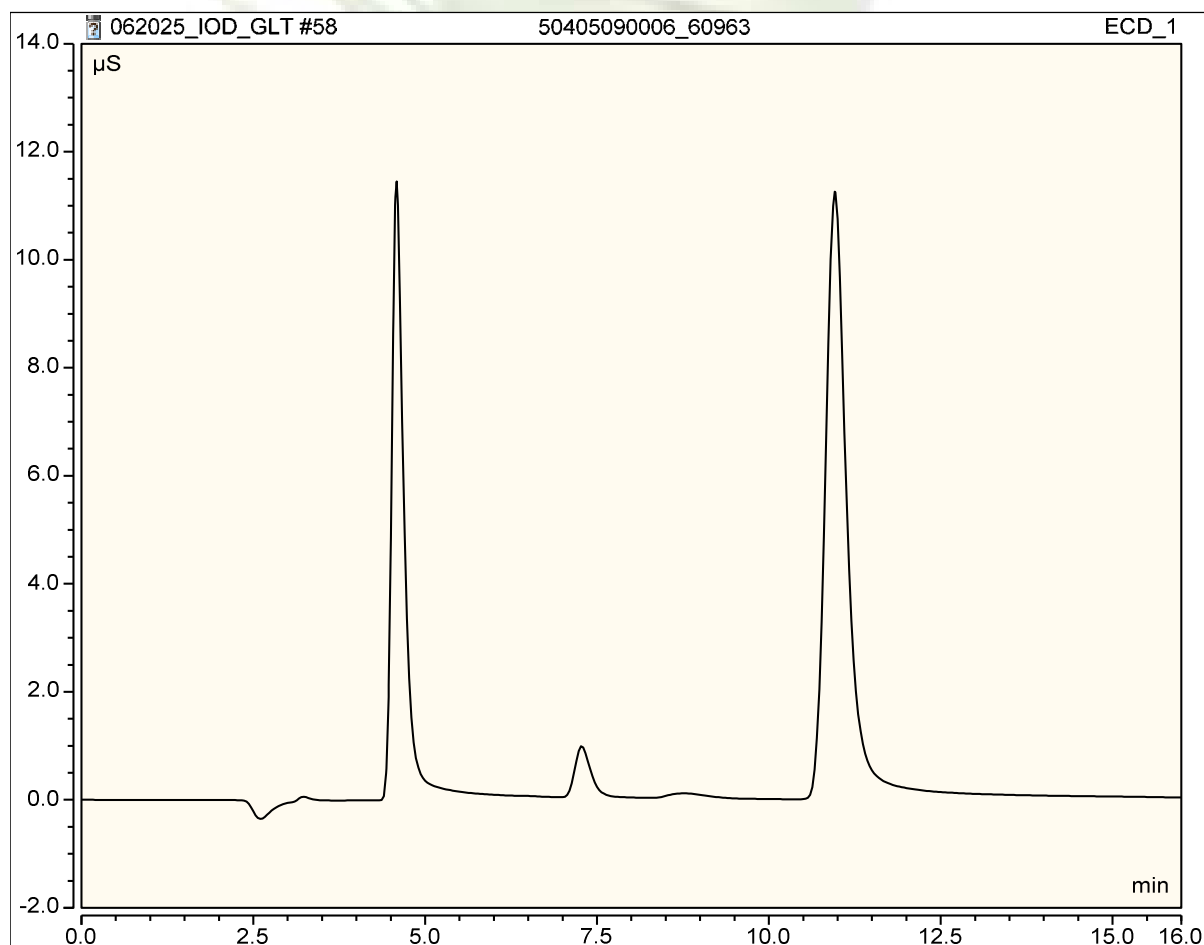
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50405090006_60963

Sample Name:	50405090006_60963	Injection Volume (uL):	25.00
Vial Number:	RA2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 12:49	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

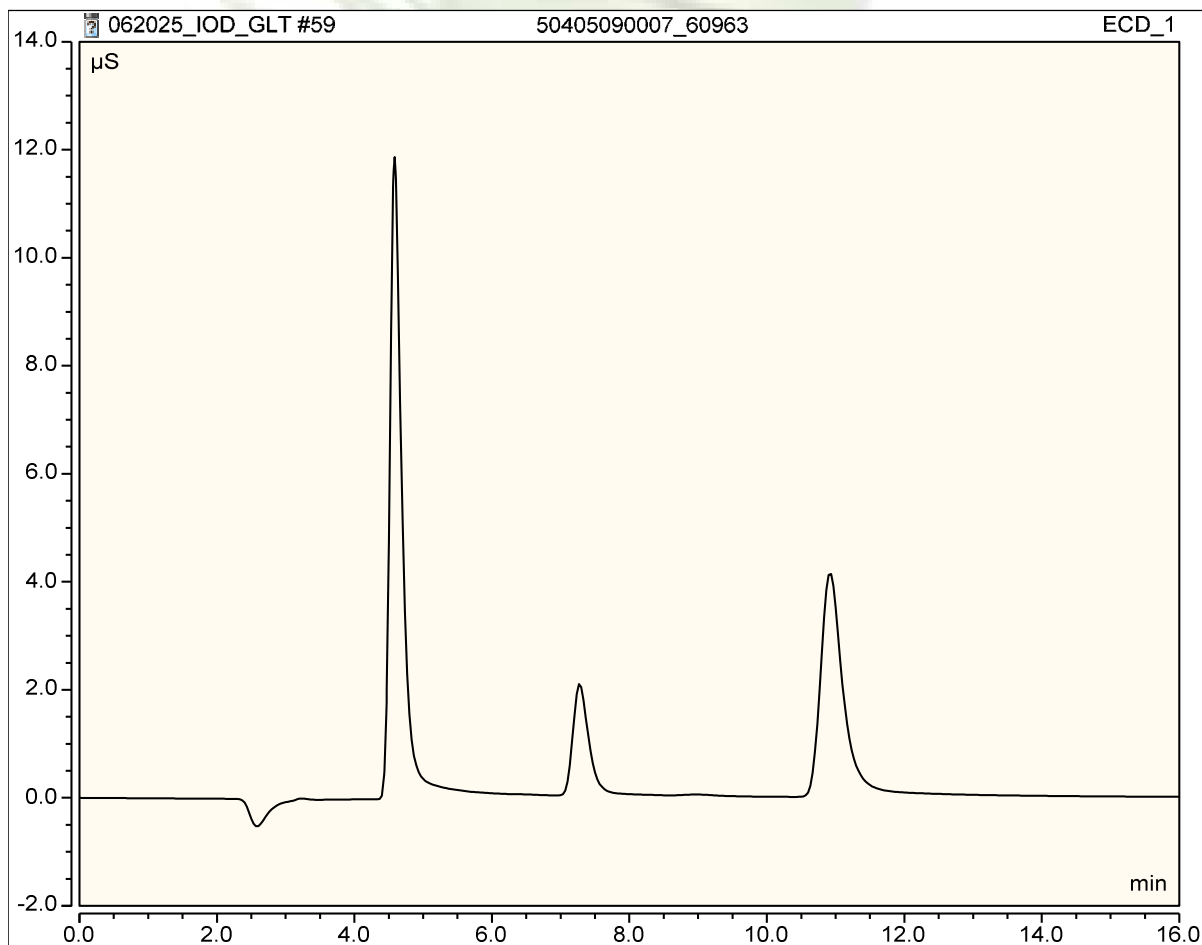
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50405090007_60963

Sample Name:	50405090007_60963	Injection Volume (uL):	25.00
Vial Number:	RA3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 13:08	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

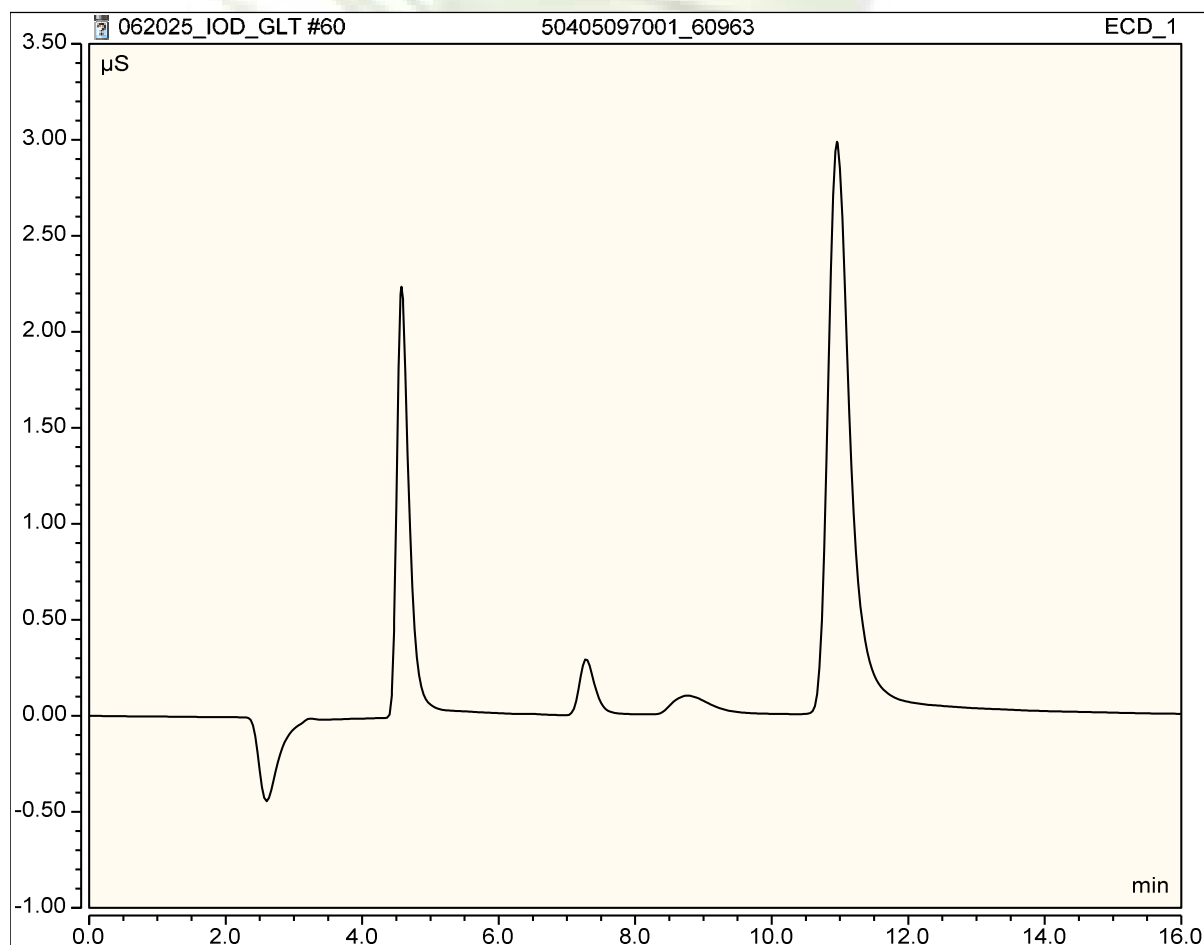
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50405097001_60963

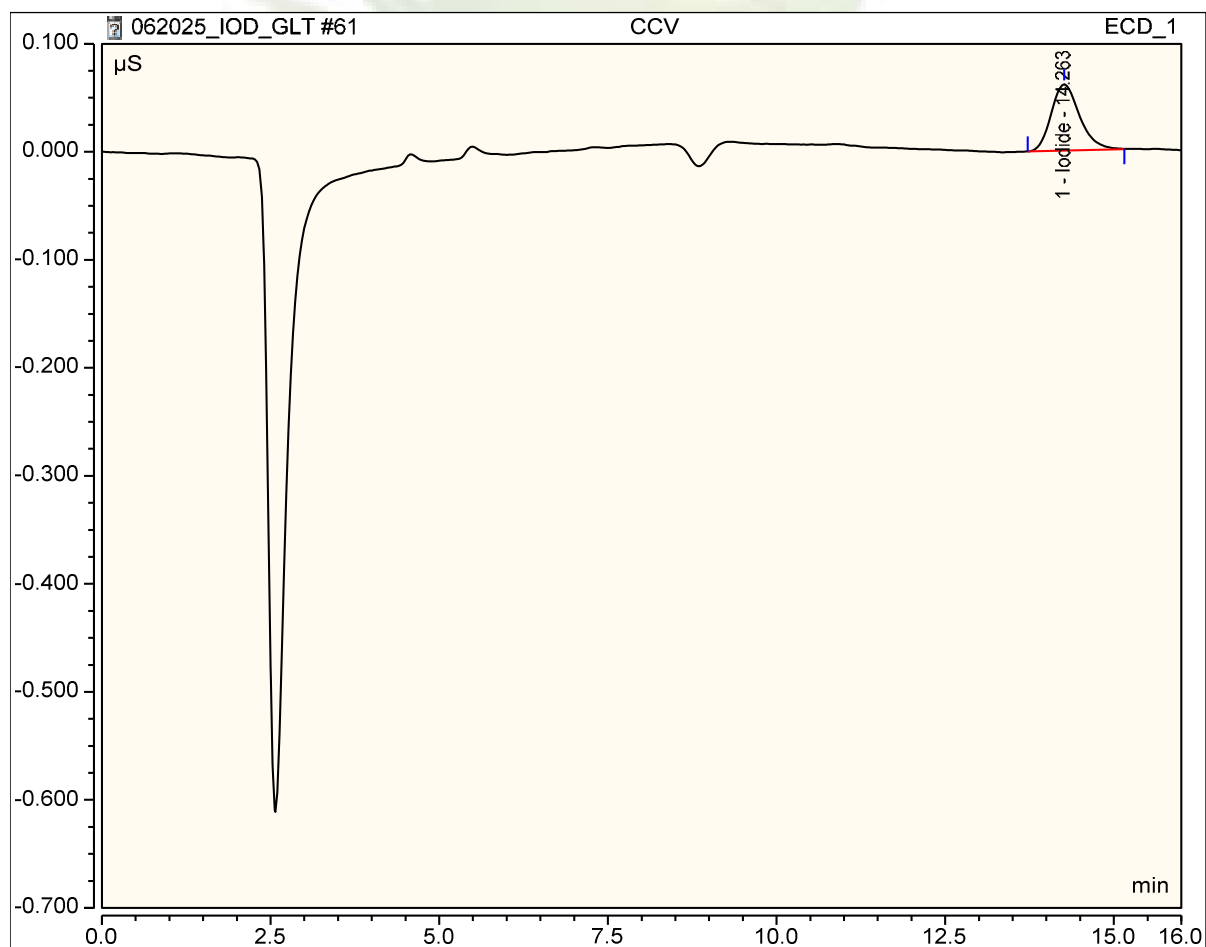
Sample Name:	50405097001_60963	Injection Volume (uL):	25.00
Vial Number:	RA4	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 13:27	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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CCV			
412749			
Sample Name:	CCV	Injection Volume (uL):	25.00
Vial Number:	B2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 13:47	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area μS*min	Height μS	Type
1	14.26	Iodide	0.9579	0.030	0.061	BMB

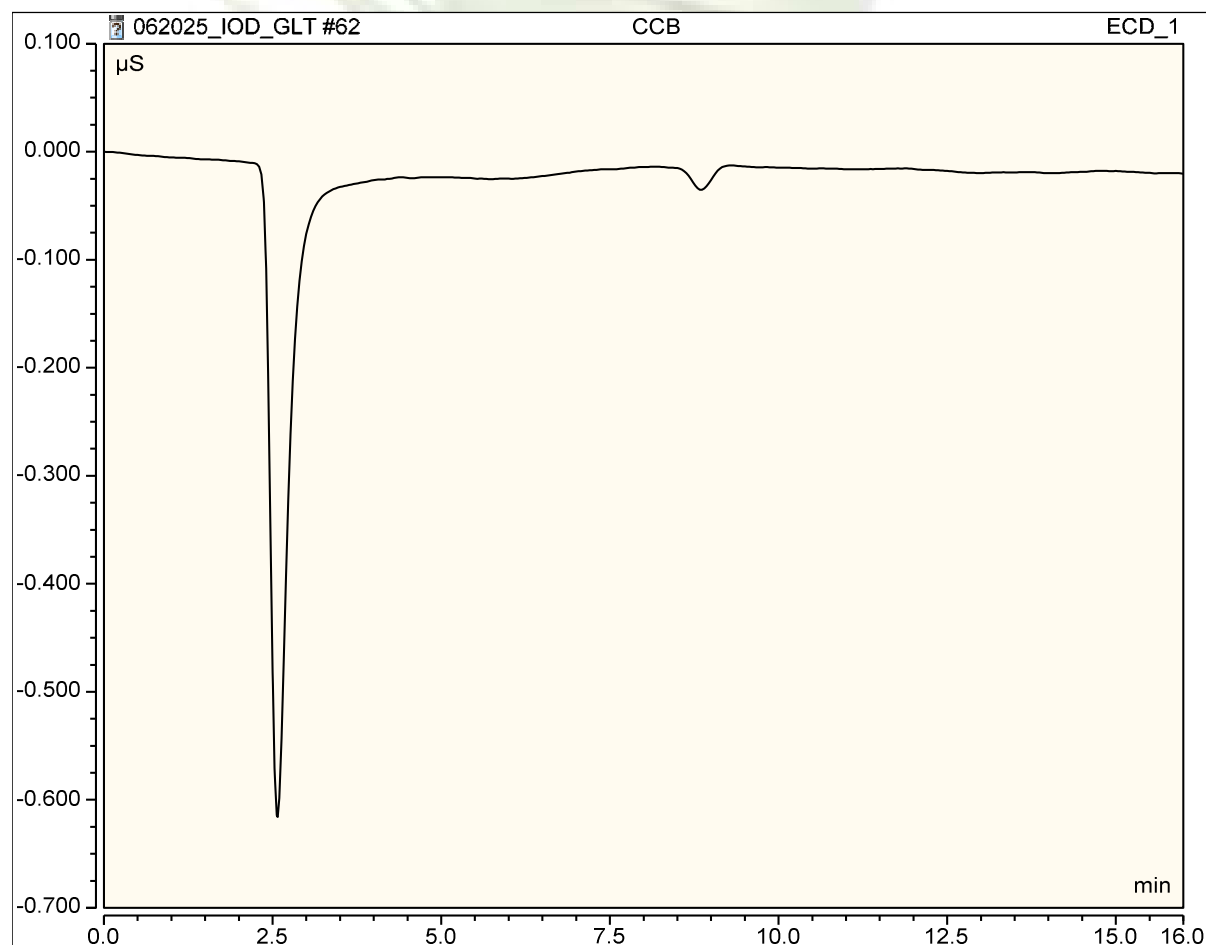


CCB

340111

Sample Name:	CCB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 14:06	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

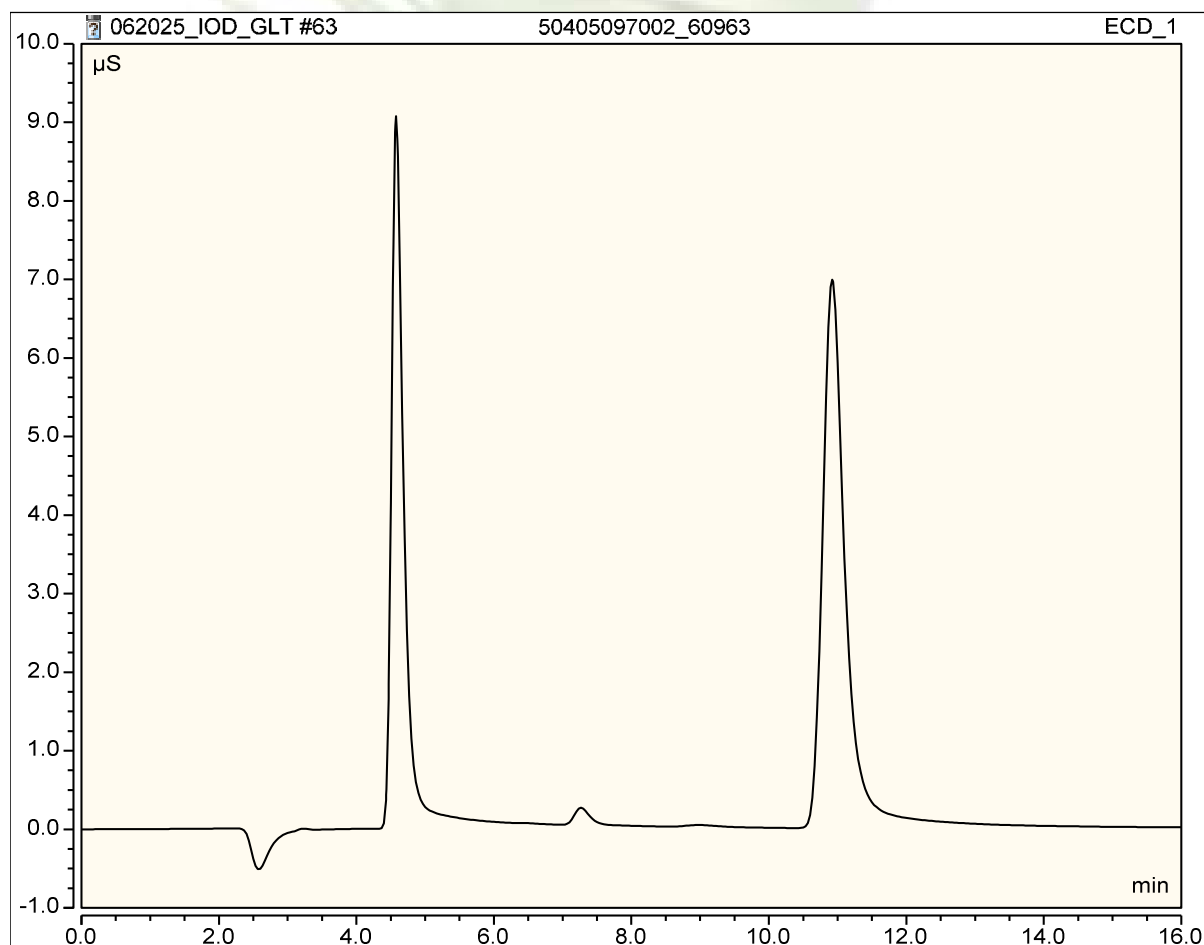
No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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50405097002_60963

Sample Name:	50405097002_60963	Injection Volume (uL):	25.00
Vial Number:	RA5	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 14:25	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

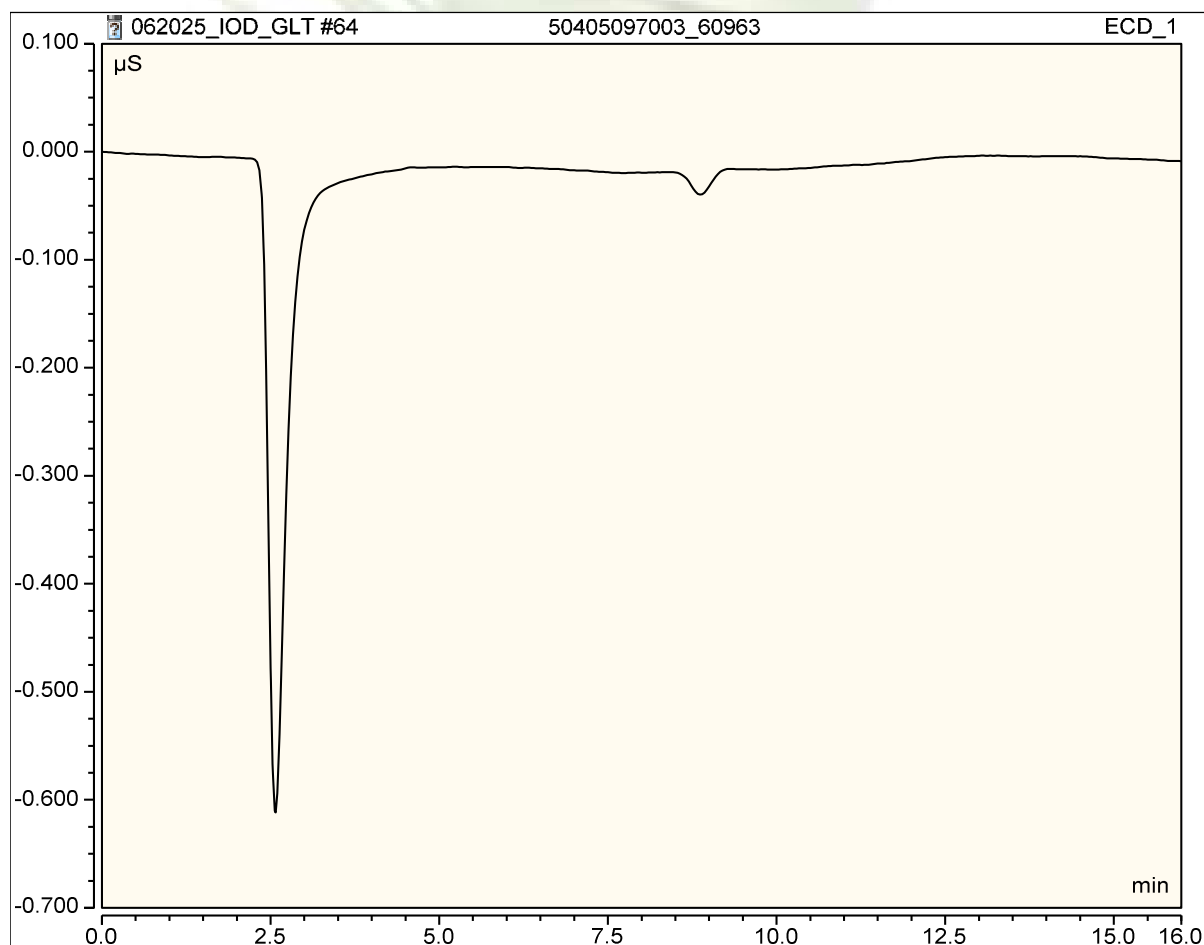
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50405097003_60963

Sample Name:	50405097003_60963	Injection Volume (uL):	25.00
Vial Number:	RA6	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 14:45	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

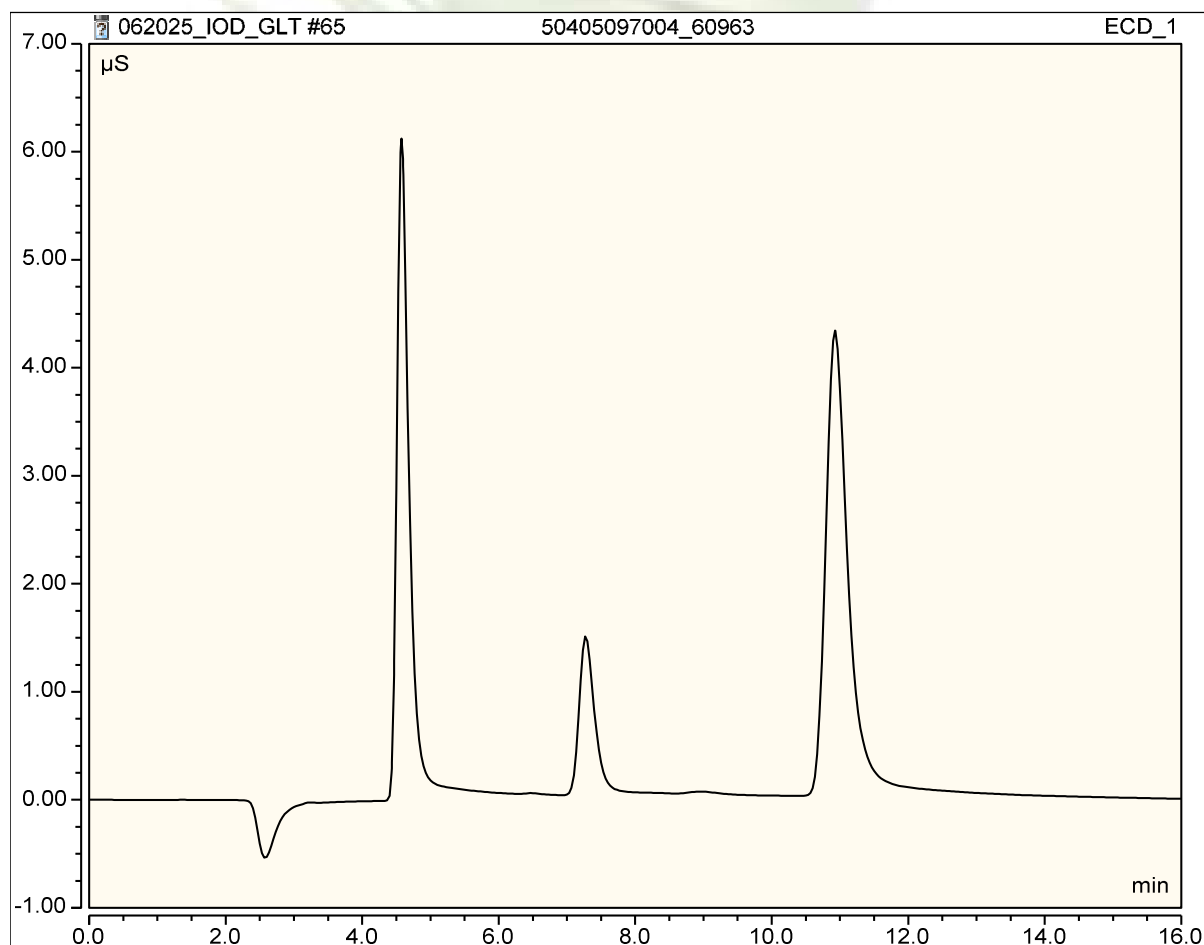
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50405097004_60963

Sample Name:	50405097004_60963	Injection Volume (uL):	25.00
Vial Number:	RA7	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 15:04	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

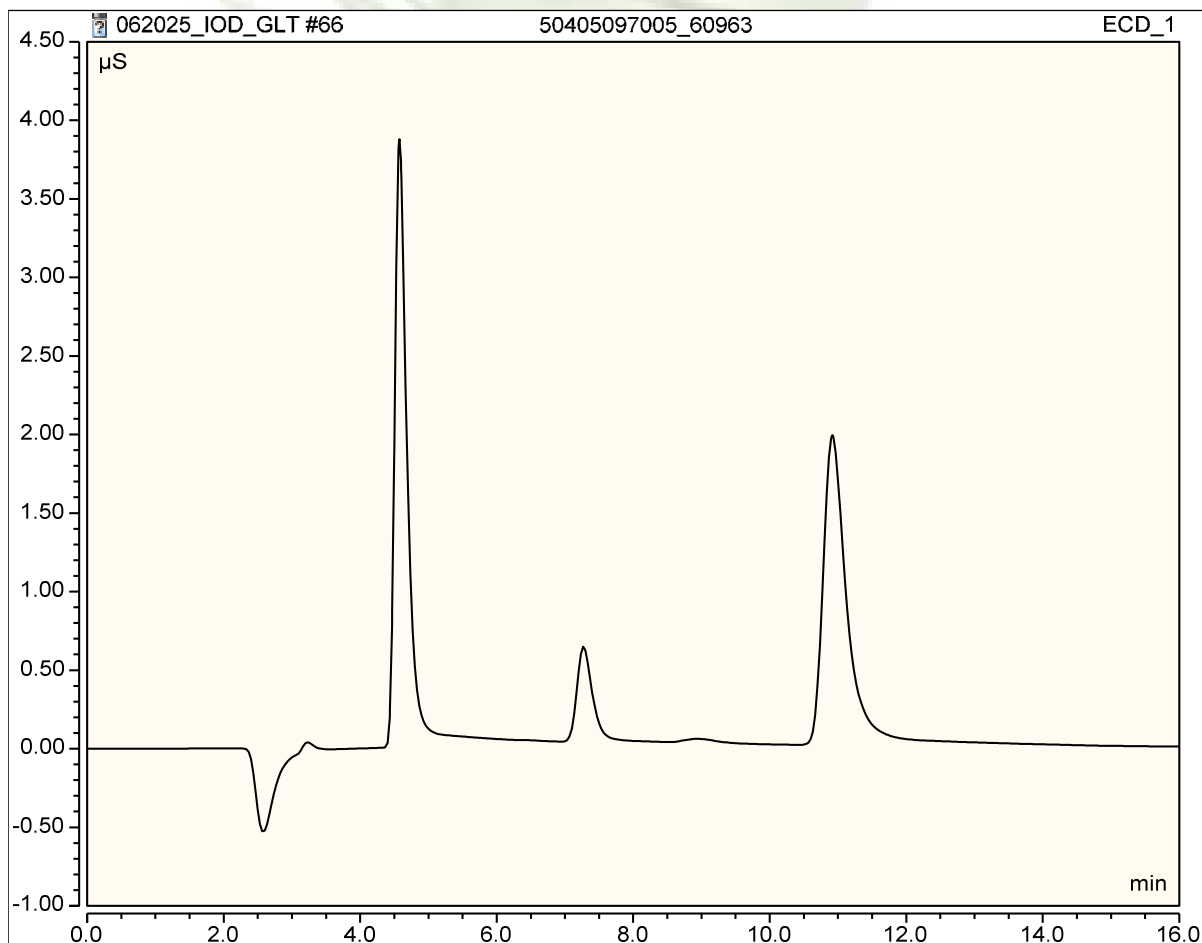
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50405097005_60963

Sample Name:	50405097005_60963	Injection Volume (uL):	25.00
Vial Number:	RA8	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 15:23	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

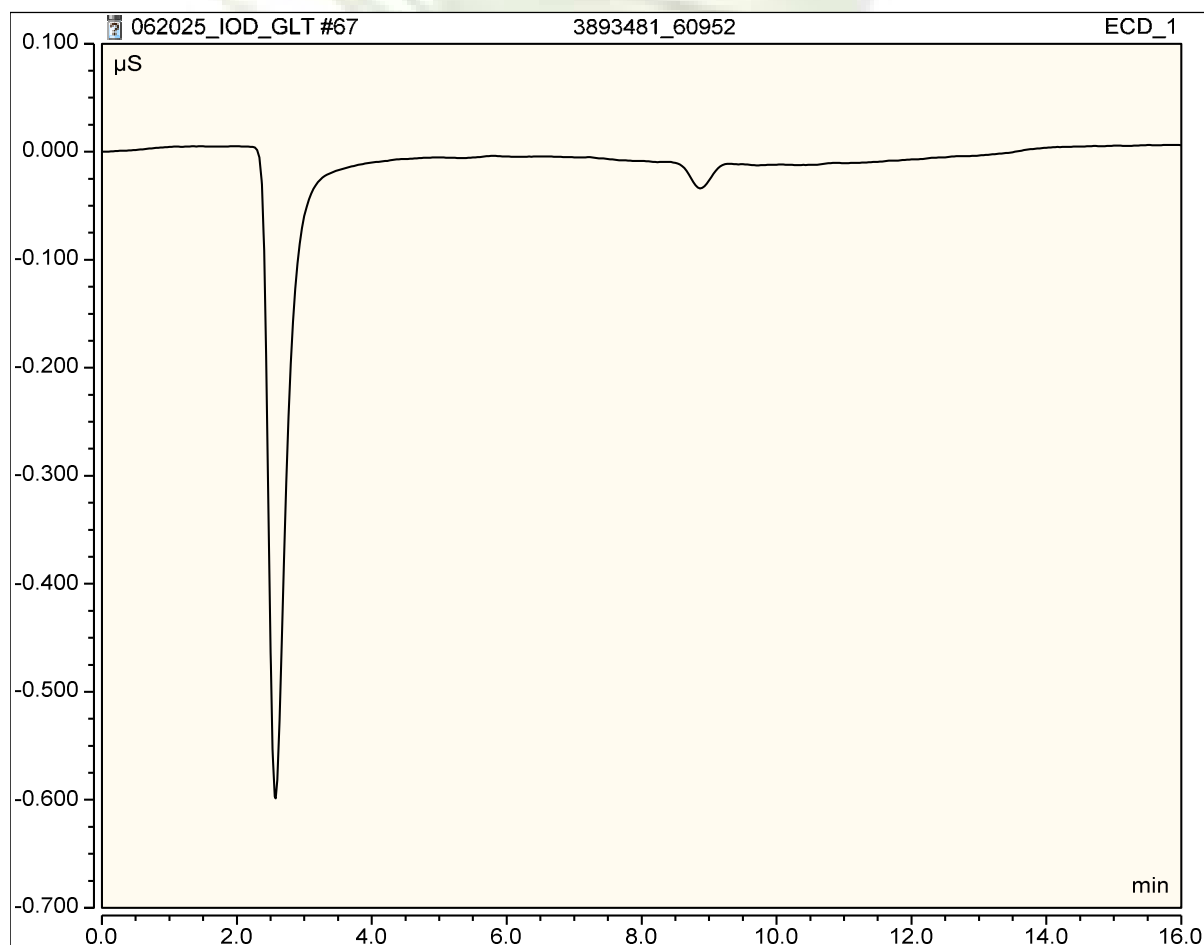
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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3893481_60952 340111

Sample Name:	3893481_60952	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 15:42	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

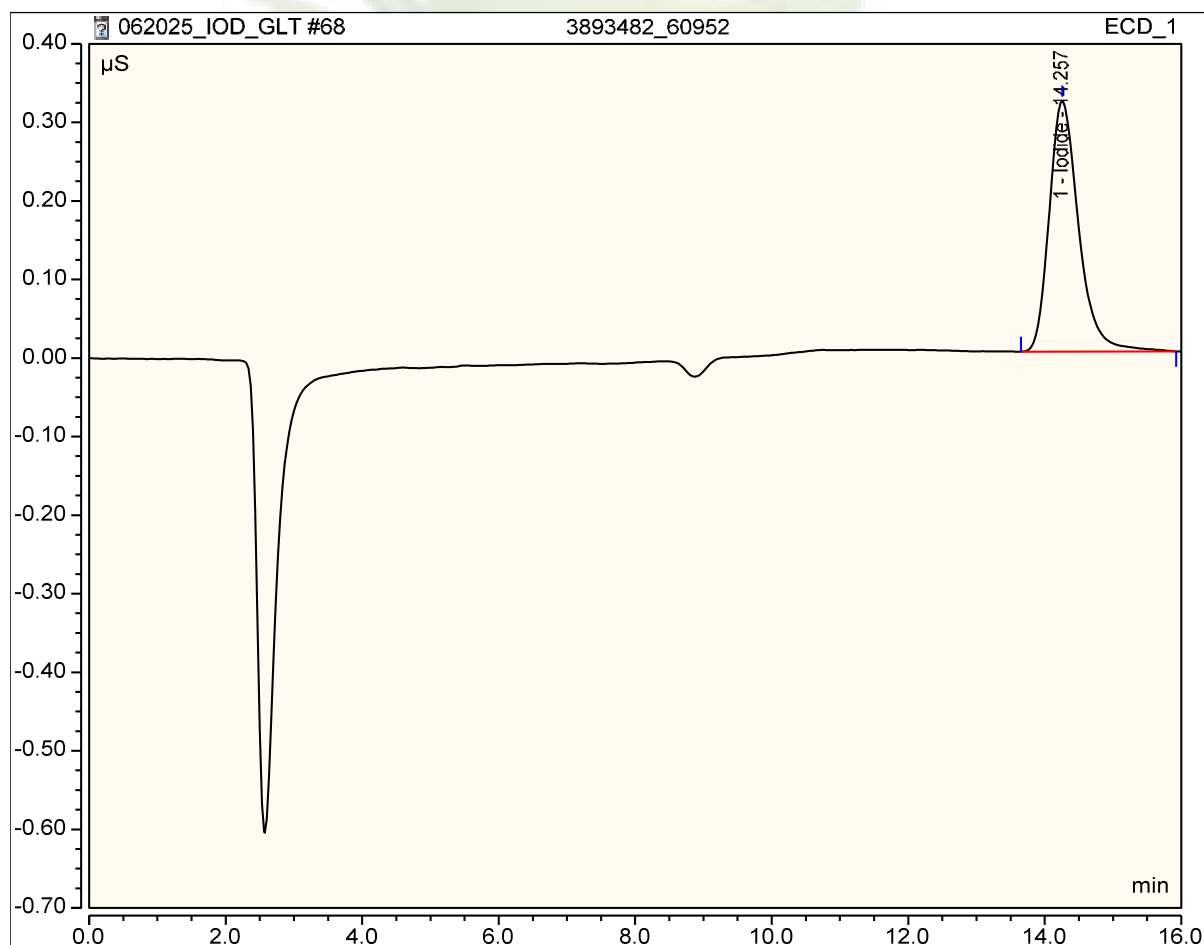
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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3893482_60952 377680

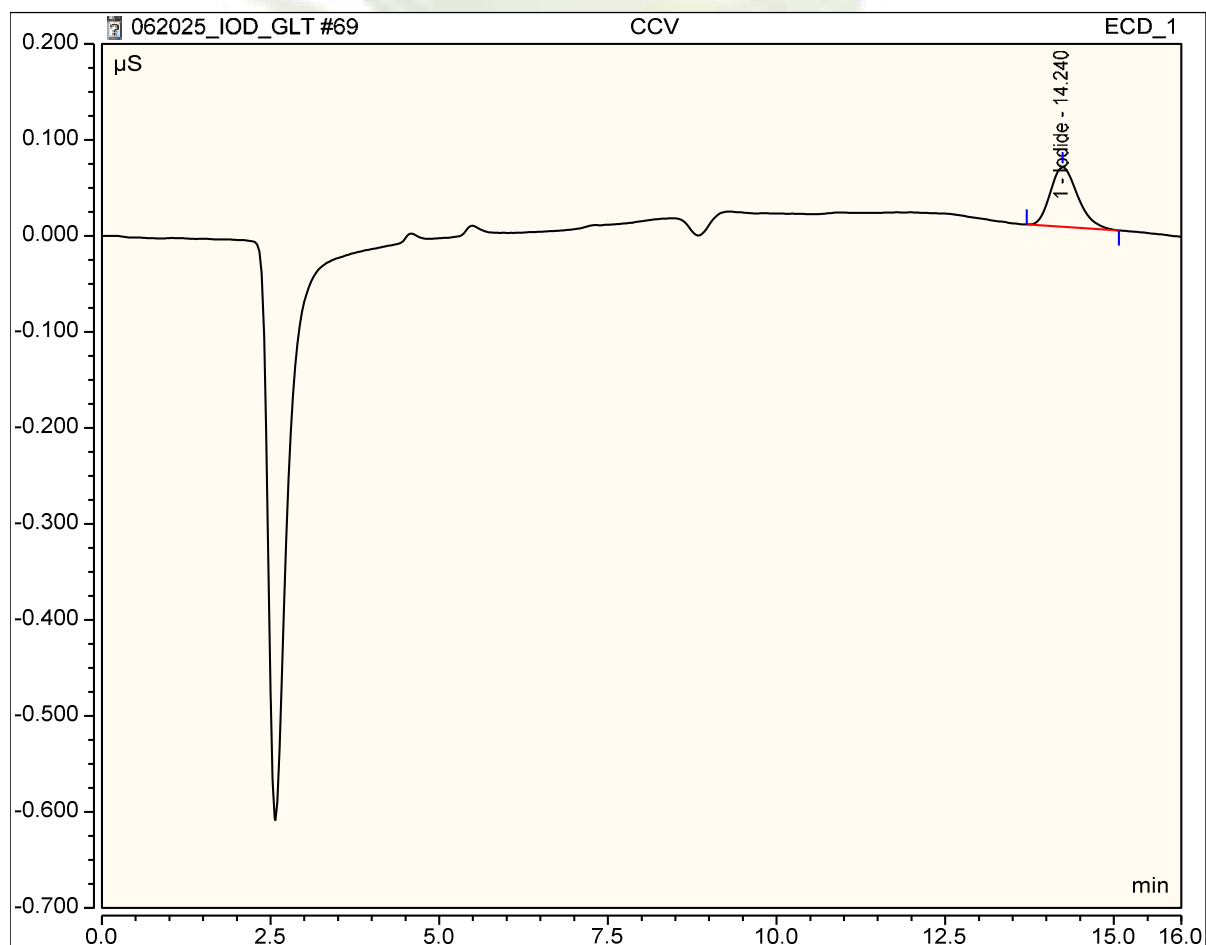
Sample Name:	3893482_60952	Injection Volume (uL):	25.00
Vial Number:	B3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 16:02	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.26	Iodide	4.9327	0.160	0.320	BMB



CCV			
412749			
Sample Name:	CCV	Injection Volume (uL):	25.00
Vial Number:	B2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 16:21	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.24	Iodide	0.9415	0.029	0.062	BMB



CCB			
340111			
Sample Name:	CCB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/21/2025 16:40	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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